Alliance/MFG

User Guide



Version 7.1

Exact Alliance, Inc.

Technical Support (800) 349-0249

Web Page: www.alliancemfg.com



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Alliance/MFG Users Guide



Welcome to Alliance/MFG

Alliance/MFG[™] is a complete manufacturing management software system specifically designed for growing manufacturers. It has everything you need to run your company, including Bill of Materials, Material Requirements Planning, Shop Floor Control, Inventory Control, Sales Orders, and Purchase Orders, Forecasting, Capacity Requirements Planning, and Reporting, in a single package. Alliance/MFG doesn't just store your manufacturing information, it helps you act on it.

Alliance/MFG maintains dynamic information about your products, customers and suppliers, employees, manufacturing process, your shipments and your invoices—all the data you need to track your transactions and provide detailed reports on every aspect of your operation. Alliance/MFG is designed by manufacturers for manufacturers. The software is easy to install and easy to learn. It can help shorten your production times, reduce your inventory, cut your material costs, and help you manufacture products more efficiently—all of which can improve your bottom line.

Alliance/MFG is a totally integrated manufacturing information system where data is entered only once. The information can then be retrieved throughout the system at every point where it is referenced.

Using the Alliance/MFG Help System

The Alliance/MFG Help program offers you three ways to look up topics. The left window pane contains four tabs that can be displayed or collapsed. The Contents Tab is the default Help File tab, it contains all of the Chapters and Topics. Once you choose a topic to display, you can read through the topic on screen, follow hyperlinks to related topics, and print the topic. You can also use the Index Tab or the Search Tab to locate and review topics.

NOTE:

This Help document contains images from both Alliance/MFG Versions 6.X and 7.X.

Contents Tab

The Contents Tab in the left window pane contains a list of topics organized similarly to the way the Alliance/MFG User Guide Table of Contents is organized. Click the plus signs next to the topics to display related topics underneath. Double-click a topic to display the topic in the right window pane.

Index Tab

The Index Tab displays a list of keywords in alphabetical order. You can scan through the list, or type in a keyword to find it in the list. Double-click on a list item or click Display to display the topic in the right window pane. Click the Back arrow to return to your original topic.

Search Tab

In the Search Tab, you can find every occurrence of a word in the entire help file. Type in a word or short phrase and click List Topics to display all topics containing the word or phrase (exactly as typed). Select a topic and double-click or click Display to display the topic in the right window pane. All occurrences of the word or phrase will be highlighted in the text.

Glossary Tab

In the Glossary Tab, you can find definitions for manufacturing terms used in the Alliance Help System. The Glossary Tab displays a list of keywords in alphabetical order. Click on a keyword to display the definition in the bottom window pane. Additionally, throughout the Help System text you will find glossary terms <u>underlined</u> the first time they appear in a Topic. Click on that occurrence to expand the text and display the definition. Click again to close the expansion.

Implementation and Training Resources

The success of your Alliance/MFG-based manufacturing operation depends on the quality of your training and your initial implementation plan. Alliance Manufacturing Software offers several resources to help you plan a successful implementation and train your employees. If you have not already conducted some level of implementation or staff training; you should investigate these options before installing or operating Alliance/MFG. At a minimum, refer to your Alliance/MFG Technical Reference for information about creating an Implementation Plan.

Implementation

On-Site Training and Implementation

We come to your site to satisfy your training and implementation needs. Our qualified instructor meets with your project team to train your staff on the full implementation of the software using your manufacturing process.

Contact Alliance Customer Management at (800) 490-2520 Ext. 3 for information about On-Site programs.

Training

Training Seminars - Three and four day workshops focus on the manufacturing planning process and Alliance/MFG. These workshops are led by a team of trained specialists who have expertise in computer-based manufacturing planning.

TeleTraining™ - A cost effective training session that connects you by phone and Internet to our Professional Services Department. Our MRP specialists review the concepts of MRP and how they apply to Alliance/MFG and your company. Training on customizing Alliance reports for your company is also available.

TeleConsulting[™] - Similar to TeleTraining, except you guide the session to review areas of concern to you.

Contact Alliance Customer Management at (800) 490-2520 Ext. 3 for information about any of these programs.

Contacting Alliance

Contacting Alliance Customer Management

The success of your Alliance/MFG-based manufacturing operation depends on the quality of your training and your initial implementation plan. Alliance manufacturing software offers several resources to help you plan a successful implementation and train your employees.

Alliance Customer Management is available to help you with issues outside the program; for example, if you wish to renew your Annual Support Agreement, schedule training, add more license user seats, or find out what other products and services are available to support your organization.

Customer Management is available during regular business hours, 8:00 A.M. to 5:00 P.M., Central Time, except public holidays. You can contact Alliance Customer Management by phone, fax, or email:

Exact Alliance Customer Management USA

Phone: Toll Free (800) 490-2520 Ext 3

FAX: (937) 913-3068 (Attention: Account Management)

Email: service@exactsoftware.com

Contacting Alliance Technical Support

Does your Company Qualify for Technical Support?

Technical Support for your Alliance/MFG products is provided on an annual contract basis, which entitles you to unlimited technical support incidents. You must have a current Annual Support Agreement to qualify for Alliance Technical Support.

Faxes, email, and telephone calls will normally be answered by a member of the Alliance Technical Support team within 2-4 hours of receipt. Technical Support incidents will normally be answered in the order they were received, however, some more complex incidents might take longer to research and/or resolve. Occasionally technical support may request that you email a file, download a file, or allow us to remotely connect to your computer. If your IT infrastructure does not allow us to use these tools there may be additionally support charges to cover the extra time needed.

Who Should Contact Alliance?

We recommend that you assign a single person from your site to be the primary contact with Alliance Technical Support. This person should have full SUPERVISOR rights to access all program functions, fields, and reports. They should be familiar with basic Windows features such as copying, finding and moving files, and possess a solid understanding of how your company uses Alliance/MFG.

What Is An Incident?

Incident

Customer's original inquiry or report of problems in the operation of the Software, including all follow-up communications which are initiated by Alliance/MFG in an attempt to resolve the inquiry or reported problems in the Software.

Initiation

Alliance/MFG shall Initiate an Incident upon receiving any inquiry or problem report from Customer by assigning an Incident Tracking Number for reference purposes.

Resolution

An incident shall be deemed to be resolved and Alliance/MFG shall close an incident when the Customer's original inquiry has been answered in a reasonably complete and comprehensible manner. An Incident shall be deemed resolved and shall be closed when Alliance/MFG:

(a) confirms to Customer that the particular functional aspect of the Software which gave rise to the incident is designed as part of the Software

(b) determines that Customer is requesting that Alliance/MFG introduce a new behavior, a variation on an existing behavior, or a change in the capacity or performance of the Software

(c) provides Customer a Workaround

d) provides Customer an Update or other patch to the Software that corrects the Software error (sometimes referred to as a "fix")

(e) is unable, following exercise of commercially reasonable efforts, to verify the existence of any problem or error in the Software that may have given rise to the Incident.

Limitation on Scope and Purpose

Limitation on Scope and Purpose of Technical Support

Technical Support services provided under an Agreement are intended to support and improve the Customer's understanding of the Software's operation, and is not intended to provide consulting services to Customer, to improve Customer's administrative or other business operating practices, or to write custom management reports for Customer's use. Alliance/MFG technical support staff shall have reasonable discretion for determining whether an inquiry poses a valid Incident for which technical support is required or instead represents a request for consultation, implementation, or training services which more properly should be supported with fee-for-service consulting services from Alliance/MFG or a third party.

Help Us Help You

To get the fastest, most efficient service when contacting Alliance Technical Support either by phone, fax, or e-mail, please provide the following information:

- 1. Your name, company name, and phone, fax, or e-mail return address
- 2. If you have already been in contact with Alliance Technical Support regarding this particular problem, provide the incident number you were given
- 3. Product name and version number
- 4. The operating system on which the product is installed (for example, Windows 98 SE)
- 5. A complete description of the problem, including any steps that will reproduce it
- 6. Exact wording of any error messages you received when you experienced the problem
- 7. A complete description of any steps you have already taken to resolve the problem
- 8. A short summary of any other communication you have had with Alliance Technical Support regarding the problem

Exact Alliance USA Technical Support

Exact Alliance USA Technical Support is available to customers Monday through Friday between the hours of 7:00 A.M. and 4:30 P.M., Pacific Time, excluding public holidays. You can contact Technical Support by phone, fax, or email.

Exact Alliance Software USA Technical Support

By Phone: Toll Free (800) 349-0249

By FAX: (937) 913-3068 (Attention Technical Support)

By email: support@alliancemfg.com

Web: http://www.alliancemfg.com

Exact Alliance (UK) Technical Support

Exact Manufacturing Systems 7 Westleigh Business Park, Blaby, Leicestershire. LE8 4EZ Tel: +44 (0)116 2784888 Support Tel: +44 (0)1162784499 Fax: +44 (0)1162784666 Support Fax: +44 (0)1162774169 Web: http://www.alliancemfg.com

Annual Support Agreement

Support Services Provided Under an Annual Support Agreement

Support Services for your Exact Alliance product are provided on an annual contract basis, which entitles you to unlimited technical support incidents and any maintenance updates within the Exact Alliance product series. A support incident is defined as a question or limited set of questions directly related to one specific issue. Unlimited technical support can be requested by telephone, fax, e-mail or via the Exact Alliance Customer Portal at a cost of 16% of the current retail value of your software purchase. Technical Support can assist you with technical issues and defects within Alliance/MFG related to installation, bug reports and problems encountered during day-to-day operation of the software. Technical Support does NOT provide training sessions, use of product and implementation instructions, custom programming support, API support, or custom report writing services. (These services can be purchased from the Alliance Customer Management Department by phone at 800-490-2520 x 3).

Exact Alliance will, within an appropriate time period, use reasonable commercial efforts to correct or provide a usable work around solution for any reproducible material error in the software. Exact Alliance reserves the right to require that you update to the current release to facilitate the diagnosis and resolution of the reported error in the event that the error is corrected in the current release.

Alliance Technical Support

Alliance Technical Support is available Monday through Friday (excluding holidays), from 7:00 A.M. to 4:30 P.M., Pacific Time. You can reach Alliance Technical Support via fax at (937) 913-3068 (Attention: Technical Support), e-mail at support@alliancemfg.com, or Toll Free at (800) 349-0249. In the event that your call is not answered in person, it will be routed to voice mail and you will be contacted in the order your call was received. Occasionally technical support may request that you email a file, download a file, or allow us to remotely connect to your computer. If your IT infrastructure does not allow us to use these tools there may be additionally support charges to cover the extra time needed. The Exact Alliance customer portal is normally available 24/7. Contact the Alliance Customer Management Department by phone at 800-490-2520 x 3, to request a password.

Maintenance Releases

Maintenance Releases (software updates), contain defect corrections and optionally, major or minor product enhancements. Maintenance Releases are available to all Exact Alliance customers with current Annual Support Agreements. A Readme file and revised user documentation is normally included on the CD in Adobe PDF format.

Custom Reports and External Utilities

Free custom reports and external utilities are periodically made available for download from the Alliance Customer Portal. Free custom reports, custom views and external utilities are periodically made available for Alliance Customers. Free reports, views and external utilities distributed by Exact Alliance may cease to execute without a current Annual Support Agreement. In addition, Exact Alliance reserves the right to change, withdraw, disable or remove any and all custom reports and/or external utilities at its discretion and is under no obligation to maintain, upgrade or support these reports and utilities which are not part of the commercial product. All such custom reports and external utilities are owned by Exact Alliance and provided to you at your own risk. External utilities (e.g. CRU & EIS) distributed by Exact Alliance may cease to execute without a current Annual Support Agreement.

Customer Portal

The Exact Alliance Customer Portal is located at https://customers.exact.nl

In addition to technical support services, you can access current Technical Bulletins and FAQ's, review free training sessions, download applicable software hotfixes, download free custom reports, review online training classes and content, read news items and participate in periodic customer forums on the Customer Portal area of our Website. You will need a password to access the customer portal.

Term of Agreement

An Annual Support Agreement continues in effect for 365 days.

Microsoft SQL Installations

Program Installation

Alliance/MFG installs quickly from the CD provided with your package. Complete instructions are presented in the Getting Started Booklet. Pre-Installation steps will ensure no other system elements are affected when you install the program. See Chapter 1: Installation, Preparing your Data for Migration, Check Data for Rules Violation and How Migration Integrates Data in Alliance/MFG.

MSDE, Microsoft SQL 2000, Microsoft SQL 2005, and Microsoft SQL Express

Recommended Minimum System Requirements

For minimum acceptable system performance you should use the following:

Windows XP Professional or Vista with latest Service Pack

Workstations: 1 GHz Pentium Processor, 1 GB RAM, 500 Mb HDD space

Servers: 600 MHz Pentium Processor, 512 Mb RAM, approximately 1 GB for data

MS SQL Server Hard Disk Space 1 GB plus additional space for data

Minimum System Requirements

To take advantage of Alliance Technical Support services you must equip your computers as shown below:

Microsoft Windows 2000 or XP Pro with latest Service Pack (Home and ME versions are NOT supported)

Workstations: 600 MHz Pentium or compatible processor, 512 Mb RAM, 500 Mb HDD space

Servers: 600 MHz Pentium or compatible processor, 512 Mb RAM, approximately 1 GB for data

MS SQL Server Hard Disk Space 1 GB plus additional space for data

Microsoft SQL Server 2000, SQL Server 2005 (if you are installing the Microsoft SQL Server Database for Alliance/MFG)

New Installations

If you are a new Alliance customer using the Access database option, review the System Overview section for information about the Alliance program, user interface and using the various toolbar, sidebar and menu elements. Also see the Getting Started Booklet.

2.5.3 or StartMRP 1.5.3 Customer Upgrades

If you are an existing Alliance 2.5.3 or StartMRP 1.5.3 user you will need to migrate your existing data to Access.

If you are an existing Alliance/MFG 2.5.3 or StartMRP user and intend to use a Microsoft SQL database option you will need to migrate your existing data to Access, open that Access database in Alliance/MFG 7.2 and then migrate it to SQL.

The steps you will follow to migrate your data are listed under Upgrade Installations below.

Upgrade Installations

Data Migration from Alliance/MFG 2.5.3 or StartMRP 1.5.3

Follow the Alliance/MFG installation instructions in the Getting Started Booklet. Once the program is installed, you can migrate your existing data.

What you will need:

Alliance Migration Utility (included on the Alliance/MFG CD)

This process uses the DBF to MDB Migration Utility included on the Alliance/MFG CD to convert data from the version 2.5.3 proprietary database to a Microsoft Access database. If you intend to use a SQL database you still need to convert your existing data to Access first, open that Access database in Alliance/MFG 7.2 and then migrate it to SQL. The steps you will follow to migrate your data are listed below.

Prepare your Existing Data for Migration

1. Complete your current month or accounting period

If you use an Alliance Accounting link, you should perform the following additional steps:

- 2. Run the accounting link.
- 3. Correct any errors.
- 4. Post all transactions.
- 5. Close your accounting period.
- 6. Backup your 1.5.3 or 2.5.3 database.

Rebuild your Company Database

Before migrating your existing 1.5.3 or 2.5.3 database to Alliance/MFG, it's a good idea to get it into the best shape possible by first performing a Rebuild and then backing up the data. This will ensure that all data is properly indexed. This is performed within Alliance from the File>Database>Rebuild menu.

Note:

The Alliance/MFG Technical Reference contains additional information about how data is migrated and stored in Alliance/MFG. This information is not required, but may be helpful if you encounter multiple errors during the migration, or to review your current database for possible conflicts before you attempt migration.

To rebuild your current database:

- 1. Login to your existing Alliance/MFG 2.5.3 or StartMRP 1.5.3 program.
- 2. Select File>Database>Rebuild.
- 3. If you receive any error messages during the rebuild, please contact Alliance Technical Support before proceeding.

Back Up Your Rebuilt Database

Before migrating the data, it is important to back up your database so that if any problems occur during the migration, you will have a current database to restore, if necessary.

To backup your database:

- 1. From the main menu, select File>Backup.
- 2. If you receive any error messages during backup, please contact Alliance Technical Support before proceeding.

Note:

AllianceMFG will not migrate, nor will it have any access to or overwrite any custom reports or batch files in your old system.

Install the DBF to MDB Migration Utility

Once Alliance/MFG has been installed, you can install the DBF to MDB Migration Utility. This utility will migrate your existing database to the new Access database.

Install the Migration Utility

- Insert the Alliance/MFG CD into your CD ROM drive. (If you have "Auto Insertion" enabled in your Windows CD properties, the Alliance/MFG installation program will begin. The Alliance/MFG install browser will be displayed. Click on Install Products and then select the DBF to MDB Migration button.
- 2. This will install the software and drivers necessary to run the MDB Migration Utility on your computer.

Rename and relocate the Blank Migration Database installed by the Utility

The Migration Utility will copy a blank Migration database to your computer.

The database will normally be installed in: C:/ProgramFiles/Alliance/MFG/MigrationUtility

- 1. Navigate to the migration database location and select the **Blank.mdb**
- 2. Copy the Blank.mdb to the location on a your computer you want your data to reside. If you plan to install your company database on a network, we suggest you migrate your data first and then move the database to your network.
- 3. Rename the Blank.mdb to a suitable name for your company database.

Migrate the Existing Data to the Blank Access Database

After you have renamed and relocated the blank Access Migration database and brought your existing data up to date, you are ready to use the Migration Utility to migrate data from your existing 2.5.3 or 1.5.3 database.

To migrate the data:

First Close Alliance/MFG.

Navigate to the Alliance Group via the Windows Start menu and select Migration Utility from the submenu options.

- 1. The AllianceMFG Data Migration Utility dialog box opens.
- 2. Within this dialog box, you will point the utility to two files, one from the Directory of dbf Files (the old database), and one from the Destination Database (the new database).
- 3. Click the ellipsis button (. . .) next to the Directory of DBF Files , and navigate to the directory where the existing database you wish to migrate resides.
- 4. Select the .dbf file, all tables in the database selected will be migrated.
- 5. Click Open.
- 6. The path to the directory is added in the Directory of DBF Files box.
- 7. Click the ellipsis button next to the Destination Database box and navigate to the file where your new blank database resides.
- 8. Select the new database file and click Open.
- 9. The path and file name are added to the Destination Database box.
- 10. Click Migrate Data. The system will warn you that doing this will delete (overwrite) all existing data in the new database.
- 11. If this is OK, click Yes to continue.

The utility will begin copying tables and converting files. Errors written to the screen as dialogs during the migration are also written to a .log file in the same directory as the Migration Utility. This file will be helpful if you need to make corrections to the data or provide information to Alliance Technical Support. If the migration fails, it will help us to determine where the process failed.

When finished, the system reports: The Migration was completed successfully, click OK.

Click Done.

Login to the new database

- 1. Start Alliance/MFG
- 2. Select File>Database>Login. The Alliance Data Connection dialog box opens
- 3. Choose Add Access Connection.
- 4. The Add Data Connection dialog box opens.
- 5. Type the name of your new database in the Data Source Name field.
- 6. Click the Data Source Path hyperlink and navigate to the new blank database.
- 7. Select the new database and click Add. The new database is now added to the list of available databases in the Alliance Data Connection dialog box.
- 8. Login to the new Access database. You will be asked to convert your newly migrated database structure to the latest version, click OK.

If the Migration Process Fails

The Alliance/MFG Technical Reference contains additional information about how data is migrated and stored in Alliance/MFG. See Chapter 1: Installation, Preparing your Data for Migration, Check Data for Rules Violation and How Migration Integrates Data in Alliance/MFG.

Installing the Microsoft SQL Express Database for Alliance/MFG

What you will need:

Alliance/MFG Installation CD 2

See the recommended Workstation/Server hardware and OS software requirements listed previously.

Microsoft SQL Express Setup

- 1. Insert the SQL Express for Alliance/MFG CD into your CD-ROM drive.
- 2. If Auto Start doesn't start the install, go to Step 3; otherwise, proceed to Step 5.
- 3. Select Start>Run>Browse and select your CD-ROM drive.
- 4. Locate Setup.exe on the CD and double click this file.
- 5. Click OK on the Run dialog box.
- 6. This will launch the Setup Program (Unattended Mode)

The first thing setup will do is check the minimum system requirements of the target machine. First the OS will be tested and if that fails the following message will be displayed:

Setup has determined that the minimum version of the Operating System or service pack is not present on this computer.

The minimum versions are as follows:

Windows 2000 Service Pack 4

Windows Server 2003 Service Pack 1

Windows XP Pro Service Pack 2

Windows Vista

Please upgrade, or use the windows update feature to get the latest service pack for your system and run this setup again.

Setup will now abort.

Next the setup will test the Windows Installer Service version and if that fails the following message will be displayed:

Setup has determined that the minimum version of the Windows Installer Service 3.1 is not present on this computer.

Setup can launch the update for you now. Do you wish to continue? Yes or No

If you answer No Setup will abort.

If you answer Yes Setup will download and install the latest Windows Installer Service and you will asked to re-boot your computer when it completes.

Next the setup will detect whether or not the .NET Framework 2.0 is installed. If it is not the user will see the following message:

Setup does not detect the Microsoft .NET Framework 2.0 on this computer.

Setup cannot continue until it is installed.

Please use the Windows Update functionality to obtain this setup.

Setup will now abort.

If all of the above requirements are met, you will receive the following message:

Setup will now configure the installation program for SQL Express.

Follow the on screen installations instructions.

- 1. Alliance/MFG requires SQL authentication as opposed to Windows Authentication this requires a strong system administrator (SA) password.
- 2. This instance of SQL Express (MFGEXPRESS) will be installed with the default user name "sa" and setup will prompt you for a strong password. You will be asked to verify that password, if they do not match, you will be asked to try again.
- 3. SQL Express will now be installed on your machine.

Installing the Microsoft SQL Server Database for Alliance/MFG

What you will need:

Microsoft SQL Server 2000 or SQL Server 2005 (installed on your server)

Alliance/MFG Installation CD

Microsoft SQL Server Setup

Setting up your SQL Server should be performed by your IT Professional or a Certified SQL Server installer.

Databases created using the Alliance File>Create Database option or the Alliance SQL Database Setup utility use SQL Server's default collation setting. Alliance has tested the application under the "SQL_Latin1_General_CP1_CI_AS" collation setting and recommends using this collation. However we understand that in foreign countries this is not the best choice. Therefore when choosing a different collation setting, if your language supports a case-insensitive collation, choose that as your default setting when installing SQL Server.

If you have already chosen a different collation for the default collation when you installed SQL server, run the MDB to SQL Migration utility to create a SQL database as usual (see the following section). Then using the tools provided by Microsoft SQL Server, create another blank database using a case-insensitive collation such as the one recommended above. Then using Microsoft SQL Server's Import/Export Utility move all the structure and data from the database created by the MDB to SQL Migration utility to the one created with the proper collation.

Installing the MDB to SQL Migration Utility

- 1. On a Windows workstation/server that has Alliance/MFG Version 7 installed, Exit from and close Alliance/MFG.
- 2. Insert the Alliance/MFG CD into your CD ROM drive. The Alliance/MFG install browser will be displayed. Click on Install Products and then the MDB to SQL Migration button.
- 3. This will execute the Installer for the Access to SQL Migration Utility which will also create your SQL database and migrate your existing Access data to it.
- 4. From your Windows Start Menu Alliance Group locate the MDB to SQL Migration Utility and launch it. Within this dialog box, you will point the utility to the MS SQL Server that will host the new database, and also which type of database to create and last whether or not to migrate your existing data (optional).
- 5. Click the MS SQL Server drop down list box, and navigate to the server where the database will reside.
- 6. Next enter a unique name for the new database in the New database name box. If you use an existing name the utility will prompt to overwrite that database.
- 7. Supply the SQL Server Administrator Name in the Admin ID box and the Password (this is not the Alliance/MFG Login "SUPERVISOR" and password.)
- 8. Next, select the type of database you wish to create (Blank, Default or Other). If you choose Blank or Default the source path and file name will be defaulted for you. If you wish to migrate your existing Alliance/MFG Access data, choose Other. If you choose Other the ellipsis button will be enabled. Navigate to the Alliance/MFG Version 7.2 source MDB database via the Open dialog box. Click Open, the path to the directory will be entered into the Source MDB box.

SQL Installations and Firewalls

The Windows Firewall may hide SQL Express instances so they won't show up in drop down lists (e.g. when adding a connection, backing up a database, etc). Other Firewalls may cause the same problem.

If you encounter this you have three options:

- 1. If you don't need a Firewall (e.g. local network only) then disable your server's Firewall
- 2. Open UDP Port 1434 if you use something other than the Windows Firewall
- 3. If you use the Windows Firewall you can follow the steps in section 4.1 of http://msdn.microsoft.com/vstudio/express/support/sqlreadme/:

Click Start, click Control Panel, and then click Network Connections.

From the navigation bar on the left, click Change Windows Firewall settings.

On the Exceptions tab, in the Programs and Services box, you will probably see that SQL Server is listed, but not selected as an exception. If you select the check box, Windows will open the 1433 port to let in TCP requests. Alternatively, if you do not see SQL Server listed, do the following:

- 1. Click Add Program.
- 2. Click Browse.
- 3. Navigate to drive:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\BINN
- 4. Add the file sqlservr.exe to the list of exceptions

Alliance/MFG System Overview



The Alliance/MFG User Interface

When you start the program, Alliance/MFG opens in a window on your display screen and the Alliance/MFG system menu displays across the top.

You can minimize it (reduce the window to an icon on your Windows Task Bar), or maximize it (restore it to full screen size) like any other Windows program. Your Windows Start button and Task Bar will continue to display at the bottom of your computer screen so you can open other programs and send and receive email just as you can while using other Windows programs.

Select functions from the main system menu to display them in the body of the screen. We recommend that you maximize Alliance/MFG after it opens. This will provide an adequate area for viewing and maintaining data. The system will remember how you exited Alliance/MFG and reopen in that mode.

Alliance/MFG uses standard Microsoft Windows hot keys and short cuts that let you quickly edit, copy, and paste data, scroll through data lists, and move through the system using either the mouse or keyboard strokes. You can also drill down through the system screens to access related data.

See the sections Alliance System Overview and Navigating Alliance/MFG for complete details on menu functions and selections, sidebar and toolbar options and screen/window types.

NOTE:

This Help document contains images from both Alliance/MFG Versions 6.X and 7.X.

Alliance/MFG System Overview

Functional Overview

This section describes the general use of Alliance/MFG and briefly outlines the various functional areas of the system. Use this section to familiarize yourself with the basics of Alliance/MFG, including background information, system design and methodology, and how the various elements of the system interact.

Alliance/MFG is a Microsoft Windows-based application that is dependable, and very easy to use. If you are familiar with basic Windows operation, you will quickly master the program.

Alliance/MFG maintains dynamic information about your products, customers and suppliers, employees, manufacturing process, your shipments and your invoices—all the data you need to track your transactions and provide detailed reports on every aspect of your manufacturing operation.

Alliance/MFG fits into the tight schedule of busy, growing companies. Alliance/MFG is designed by manufacturers for manufacturers. The software is easy to install and easy to learn. Alliance/MFG, when properly used, will streamline the overall efficiency of your entire manufacturing process.

In the Navigating the System section, you will find a description of the menu structure; toolbar, sidebar and detailed information about how to navigate through the system. It explains how to open and use various lists, grids, forms, queries, transactions, and dialog boxes; and how to use the View and Edit features to drill-down through related data in the system.

NOTE:

This Help document contains images from both Alliance/MFG Versions 6.X and 7.X.

The following sections briefly summarize the functional areas you will access to set up and operate your Alliance/MFG system.

The Alliance/MFG Main Menu Functions

FILE

All the elements you need to enter and maintain your company-specific information is found under the File menu. From the File Menu option, you can login to your databases, set up and maintain your company name and address information, establish security settings, set default values and maintain codes you need to operate your system.

See **Database** for information about importing data, creating and setting up your company databases.

See **Company** for complete information about setting up your company, employees, calendar and default code information.

See **Codes** for complete information about setting up your standardized and default code information.

PRODUCTS

In Alliance/MFG your products are maintained in the Part Master, which is the foundation for your Bill of Materials (Product Structure). All features relating to the Part Master are found under the Products menu.

The Part Master is a comprehensive table of parts—components, subassemblies, and assemblies—all of which form relationships that apply to the manufacture of your finished product. Descriptions, revision numbers, documents, and ECNs are just some of the details stored in the database. From this detailed part information, you can create multilevel product structures and preview or print detailed reports such as a Costed Bill of Materials, a Part Master List, a Component Where-Used report, or an Indented Multi-level BOM.

The Indented Bill of Materials Report "explodes" a product structure, showing the manufactured part and all of the pieces (components) needed to make it, through all levels of production. The "Where Used" Report tracks any component or assembly and where it is used throughout all product structures.

See **Setting up your Products** for detailed information on creating your part master, BOM's, part cross-reference, part documents and drawings.

DEMAND

The Alliance/MFG system is designed around the concept of "supply and demand"— customer orders and forecasts are the Independent Demand that, through Material Requirements Planning, drives the action of purchasing or manufacturing the supply. Using Demand, you will maintain thorough and up-to-date information on your company's customers. Easily enter minimal quoting information, if awarded, convert the quote to a sales order. The Easy Entry Sales Order function simplifies and shortens the process of taking complex customer orders; select entries from codes tables linked to order forms to streamline data entry and minimize error. Easily enter and edit information about pricing, shipping, alternate currency, discount options, and taxes.

With Alliance/MFG's Forecast module, you can anticipate the potential effect of different levels of production demand on the company's operations to push the manufacturing process beyond the scope of its actual sales orders.

Use the Job Tracking feature to apply a unique job number to track related sales order, purchase order, and work order costs through the system.

See **Working with Demand**, for details about setting up your customers, creating quotes and sales orders and shipping customer orders.

SUPPLY

The supply-side of the Alliance/MFG system contains information about your company's suppliers and OEMs. It is where you create and maintain purchase orders for your suppliers when their products are required for your manufacturing process. If in-house assemblies are required, MRP planned orders generate the requests to have these items made. The information that initiates supply-side activity is generated as a result of running the Material Requirements Planning function, which looks at existing orders and inventory, then flags requirements, potential shortages, and suggests reschedules for out-of-phase orders.

See **Working with Supply**, for information about creating and receiving purchase orders, and creating, kitting, and completing work orders, serialized completions and backflushing.

MATERIAL REQUIREMENTS PLANNING

The Material Requirements Planning (MRP) module is your company's automated "master planner." Its primary function is to regularly examine the total demand for products and then decide what items need to be bought or made, and when, to meet that demand. MRP reviews every item of information input into the system, analyzes the data, calculates, and disseminates the information into action reports. When status of the manufacturing process is requested, MRP's powerful computation function reports exactly what your company needs to do to meet the demands placed on it.

All you need to do to initiate this system-wide, complex process is check a few parameters and click Calculate. The results are then sorted and reported in whatever way you request, either on screen or in print.

See **Material Requirements Planning** for information on what you need to build and buy to meet your customer's needs.

INVENTORY CONTROL

The Part Maintenance function manages your inventory. It stores comprehensive information about parts including stock levels, labor, and costing. Costing fields include material, labor, burden, subcontract, setup, and total unit cost. You can maintain both standard and pending costs.

This inventory information also provides MRP with the precise ordering rules and necessary information to calculate the requirements plan. For example, you can establish the scrap factor for a part, which influences ordering quantities; and you can keep information relating to optimum order quantities, how much safety stock to keep on hand, the lead times for products, and normal shelf life.

With Alliance/MFG's ABC Analysis tool, you can prioritize the relative importance of a particular part by assigning ABC codes. ABC calculation parameters include YTD usage dollars, on-hand dollars, and unit cost.

Through the Transactions feature, Alliance/MFG tracks all inventory movement, including serial and lot numbers. On the demand side, Transactions document exactly what items are being shipped to the customer and from where the inventory items are taken. Transactions also include shipments returned from a customer and to what stock location they are returned.

You can perform Miscellaneous Issues, Miscellaneous Receipts, and Relocate inventory through the Transactions menu.

Transactions on the supply side include Purchase Order Receipts, Work Order Completions, Backflushing, Kitting, Dekitting, and Returns to Vendor.

The Shortages function gives you the ability to add, edit, or delete shortages, and you can use Relocate to move inventory between locations.

See Inventory Control for information on part maintenance, transactions and inventory control.

CAPACITY REQUIREMENTS PLANNING

While the MRP feature reports what you need to make and buy within a specific time frame, Alliance/MFG's Capacity Requirements Planning (CRP) feature tells you if your manufacturing capacity is actually able to produce what you need within that time frame.

To use CRP effectively, you must identify and describe your company's work centers and assign each center a capacity. You can also divide work centers into groups or shifts and define capacity separately. In addition, labor routers that describe—in terms of function and time —each operation performed during the manufacturing process can be entered into the system.

Running CRP generates reports in either table or graph format that accurately show the daily load of a given work center over time. The graph displays exactly how far each center is under or over capacity.

See **Capacity Requirements Planning** to establish work centers, routings, and capacity planning.

SHOP FLOOR CONTROL

Alliance/MFG's Shop Floor Control module provides a complete, up-to-date picture of your manufacturing operation. Within this feature, the Work-in-Process function displays the current status of all released work orders. Actual material, labor, and scrap costs are tracked to help you maintain an up-to-the-minute financial analysis of your manufacturing process.

With Alliance/MFG's Labor Distribution feature, you can maintain the labor charged to a work order or job. Reports provide efficiency and effectiveness data, by employee.

See Shop Floor Control to monitor WIP, labor effectiveness and efficiency

HELP

You can access Alliance/MFG Help files, link to our Web site, or send email to Alliance Technical Support from the Help menu.

REPORTS

Alliance/MFG offers a wide variety of pre-formatted, standard reports. These reports are accessible from each function menu. You can query reports from Alliance/MFG predefined queries on each report menu or create your own custom queries. For detailed information about creating custom queries for Alliance/MFG standard reports, see the Alliance/MFG Technical Reference, Chapter 5: Reports & Queries.

Navigating Alliance/MFG

Starting the Program

Once you have installed Alliance/MFG and have familiarized yourself with the implementation process outlined in the Getting Started or Technical Reference Manuals, you are ready to start the application. An icon will be set up in the Programs section accessed from the Start Menu on your Windows desktop.

To start the program:

- 1. Click the AllianceMFG icon on your desktop, or select Start>Programs>Alliance>AllianceMFG.
- 2. The Program window appears.

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If the sample Pen Database has been installed with your system, the application will open normally and display the Alliance Data Connection dialog box. Use the name "SUPERVISOR"; no password is required. You can click Login to begin working with the Pen Database or add a new database. The initial login process will take a few moments.

s Alliance Data Connection		
Alliance Data Connection C:\Program Files\Alliance\MFG\Sample E	Pen Database	
User Name	SUPERVISOR	
Password		
Login Add Access Connection Add S	QL Connection Rename Connection Delete Connec	tion Close

If no database has been installed and you are running Alliance/MFG for the first time, the Alliance Data Connection dialog box will display an empty list. You must add the database prior to Login.

To add a database:

- 1. From the Alliance Data Connection dialog box, click Add Access Connection or Add SQL Connection to open the Add Data Connection dialog box.
- 2. For Access enter the Data Source name and path of the existing database.
- 3. For SQL enter the Data Source, User ID, Password, Server and Database (this function should be performed by your Database Administrator).
- 4. Click Add. The database is added to the drop-down list on the Alliance Data Connection dialog box.
- 5. Select the database from the list.
- 6. If this is a new, blank, or default database, enter the User Name (SUPERVISOR) and leave the password blank.
- 7. If this is an active database, login with your User ID and password.
- 8. Click Login. After a moment, you will be able to add data and access information from all system menus for the database you added. If the system requests you to update your database to the current version, click OK, this will ensure your data is in the current format.

Displaying Alliance/MFG

When you start the program, Alliance/MFG opens in a window on your display screen and the Alliance/MFG Main Menu displays across the top.



You can minimize it (reduce the window to an icon on your Windows Task Bar), or maximize it (restore it to full screen size) like any other Windows program. We recommend that you maximize Alliance/MFG after it opens. This will provide an adequate area for viewing and maintaining data. Your Windows Start button and Task Bar will continue to display at the bottom of your computer screen so you can open other programs and send and receive email, or use Alt+Tab to switch between other Windows programs.

Menu Structure

The Main Menu appears on the top of window when the application is opened. You will select the primary functions used to run the program from this menu.

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Primary Functions

File Includes Database, Company, Codes, Print, and Exit.

Edit Includes First, Previous, Next, Last, Copy Rec, Paste Rec, New Copy, New, Save, Delete, Query and Refresh.

Products Includes Part Master, Documents, Engineering Change Notice, GUI BOM, Product Structure, Part Cross-Reference, and Reports.

Demand Includes Customers, Forecasts, Invoices, Credit Memos, Job Master, Sales Orders, Quotations, Blanket Orders, Ship a Customer Order, Return a Customer Order, and Reports.

Supply Includes Purchase Orders, Suppliers, Work Orders, Work Order Release Manager, Kitting, De-Kitting, Receive a Purchase Order, Return a Purchase Order, Complete a Work Order, Serialize Work Order Completions, Backflush Work Order Completions and Reports.

MRP Includes Calculate MRP, MRP Action Parts, and Reports.

Inventory Includes Part Maintenance, Inventory Summary, Inventory Details, SN/Lot Tracking, Cost Maintenance, Cost Rollup, Transaction History, Shortages, Negative Inventory, Physical Inventory, ABC Analysis, Update Standard Cost, and Reports.

CRP Includes Work Centers, Labor Routers, Calculate CRP, Work Center Loads, Update Labor Standards, and Reports.

Shop Includes Labor Distribution, Work in Process, and Reports.

Favorites Includes Configure Favorites, Add Current Screen to Favorites and Related Links.

Window Choose how you want windows to display on your desktop: Tiled horizontally, vertically, or cascade.

Help Includes Help, Technical Support, Customer Portal, and About Alliance/MFG.

Submenu Functions

Most submenus contain New, Edit, and a list of predefined queries. The queries available depend on the function you select. The File, Edit, Favorites, Windows and Help submenus have specific function related options.

New - Displays a blank data entry form.

Edit - Displays the data entry form for the record entered in the query dialog box. (Must be an exact match; wild cards are not permitted.)

Predefined Queries - Displays a data view (list) of all records matching the query criteria. (Wild cards are permitted.)

MDI Logo

You may display your companies logo inside the Alliance/MFG MDI frame. Copy a bitmap to the Alliance>MFG>System folder. Delete or rename the existing Alliance "Background.bmp", then save your company bitmap as "Background.bmp".



Toolbar Buttons

There are ten (10) toolbar buttons used by Alliance/MFG windows, the button functions are described below. The toolbar buttons are dynamically available based on usability, the active window (window with focus) and the action taken by the user in that window. The more frequently used buttons have a text description to the right. If you position your mouse cursor over a toolbar button a Tool Tip describing the button function will appear.



Toolbar Button Functions

First - Move to the first record

Previous - Move to the previous record

Next - Move to the next record

Last - Move to the last record

New Copy - Copy the selected record and create a new record include associated detail records (**Header** A record containing common, constant, or identifying information for a group of records which follows. & Detail)

New - Displays a blank data entry form

Save - Saves any valid change(s) made to a record(s)

Delete - Deletes the selected record, record integrity is verified and a warning message may be displayed

Query - Displays a query form with the last query executed (if any)

Refresh - Refreshes the data in either a view or edit form

Sidebar

The Alliance/MFG Sidebar contains two sections; Favorites and Related Links. The Favorites section contains links to your Favorite edit, view and report screens, this section will save you additional time and keystrokes if you perform repetitive tasks. The Related Links sections display dynamic links to associated data based on the active or highlighted record in the current window. The links will display as hyperlinks when selected and if clicked will execute a pre-defined query with the current record's data as the parameter(s). These links will save you time and keystrokes when you need to access related data (display the Receipts or Returns for the highlighted PO in the view screen). Unlike the queries from the Main Menu you are not required to fill in the query parameter(s), the parameter is supplied by the screen you have open and/or the record selected.

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Sidebar Sections

Favorites - Displays a list of your Favorite screens. You must configure this section by adding your favorite and often used screens (see below).

Related Links - Displays dynamic links to associated data based on the active or highlighted record in the current window.

View Links - Displays pre-defined links to associated views. The list of links is dynamically created each time a different window is opened or record selected. You may view or drill down to related data by clicking on a link.

Edit Links - Displays pre-defined links to associated edit screens. The list of links is dynamically created each time a different window is opened or record selected. You may edit and change related data via these links.

Report Links- Displays pre-defined links to associated reports. The list of links is dynamically created each time a different window is opened or record selected.

Sidebar sections can be expanded or collapsed as desired, just click on the double arrow in the top right title bar of each section. Hiding the sidebar allows more of the main application working area to be accessible. You can choose to display or hide either section of the sidebar by clicking the Auto Hide Stick Pen icon on the top right side of the Sidebar. Additionally you can drag and drop the sidebar sections anywhere within the Alliance MDI or drop them on your desktop if you prefer. If you right click the Auto Hide Stick Pen it will display the available sidebar position options.

Both sidebar sections docked.

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<u>File</u> Edit <u>P</u> roducts	<u>D</u> emand	<u>S</u> upply	<u>M</u> RP	Inventory	⊆RP	S <u>h</u> op	F <u>a</u> vorites	<u>W</u> indow	<u>H</u> elp		
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Related Links		Ą					J	Sof	1C twa	ţ,	/
New Pen - C:\Program	Files\Allian	ice\MFG\I	VewPer	n.mdb							



Drag Favorites section to the right side of Alliance/MFG, collapse Related Links section.

Move both sections out of Alliance/MFG to your desktop. When you close and then reopen Alliance/MFG the sidebar will display where you last positioned it.

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and the second	2	B-02	Assembly, Barrel, Red	A	EA	Each	SUBS	T.		Part Documents View	
-	3	BP-1	Barrel, Top Half, Blue	A	EA	Each				Product Structure (BOM) View	L .
	4	BP-2	Barrel, Bottom Half, Blue	A	EA	Each				Where Used View	
	5	BP-3	Ring, Metal .250 diameter	A	EA	Each					
ree Sturr	6	BP-4	Clip, Pocket Metal 1.5 inch	В	EA	Each				Edit Links	\$
61 C	7	BP-5	Barrel, Top Half, Red	A	EA	Each					
7	8	BP-6	Barrel, Bottom Half, Red	A	EA	Each				Density Code	
	9	BPP-100	Assembly, Ball Point Pen, Blue	В	EA	Each	ASSY			Unit of Measure Code	
ans	10	BPP-200	Assembly, Ball Point Pen, Red	В	EA	Each	ASSY				
entation	11	BPP-x300	Custom Ball Point Pen, Red, Stamped with	В	EA	Each	ASSY			Report Links	(\$
-	12	C-01	Assembly, Cartridge, Blue Ink	C	EA	Each	SUBCON				
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Ç.	14	CP-1	Ball Point	В	EA	Each				Indented Bill of Materials Repo	ort
MFG.exe	15	IN-01	Ink, Blue	В	FO	Fluid				Part Master List Report	
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One-Click	Now Dop							-	F	avorites Belated Links	
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When you hide a sidebar section, a Related Links or Favorites tab is enabled on the top left side of the main Alliance/MFG window (MDI), holding the mouse cursor over this button will allow you to access the Related Links and Favorites sections via a slide out window.

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2	B-02	Assembly, Barrel, Red	A	EA	Each	SUBS	SA-1	
3	BP-1	Barrel, Top Half, Blue	Α	EA	Each	PURCH	RAW	
4	BP-2	Barrel, Bottom Half, Blue	A	EA	Each	PURCH	RAW	1
5	BP-3	Ring, Metal .250 diameter	A	EA	Each	PURCH	RAW	F
6	BP-4	Clip, Pocket Metal 1.5 inch	PURCH	RAW	_			
7	BP-5	Barrel, Top Half, Red	A	EA	Each	PURCH	RAW	
8	BP-6	Barrel, Bottom Half, Red	A	EA	Each	PURCH	BAW	
9	BPP-100	Assembly, Ball Point Pen, Blue	В	EA	Each	ASSY	PENS	
10	BPP-200	Assembly, Ball Point Pen, Red	В	EA	Each	ASSY	PENS	
11	BPP-x300	Custom Ball Point Pen, Red, Stamped with G	В	EA	Each	ASSY	PENS	-
12	C-01	Assembly, Cartridge, Blue Ink	C	EA	Each	SUBCON	SA-2	1
13	C-02	Assembly, Cartridge, Red Ink	С	EA	Each	SUBCON	SA-2	
14	CP-1	Ball Point	В	EA	Each	PURCH	RAW	
15	IN-01	Ink, Blue	В	FO	Fluid O	PURCH	RAW	
16	IN-02	Ink, Red	В	FO	Fluid O	PURCH	BAW	
17	IN-x03	Ink, Special Gold	В	FO	Fluid O	PURCH	RAW	
18	PL-01	Assembly, Plunger	A	EA	Each	ASSY	SA-1	- S
19	PL-1	Tube, Upper molded plastic, 1.750 inches long	В	EA	Each	PURCH	RAW	
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Configuring the Favorites Section

You can create a list of your Favorites to appear in the Sidebar every time you open Alliance/MFG. You can add Alliance/MFG views and reports and additionally, add external documents, spreadsheets, custom views and custom reports to your Favorites.

Adding internal items to your Favorites

For internal items you must first open and display the view or report to add it to your Favorites. If you use the Part Master on a daily basis, open it with your most frequently used query. Click on the Favorites menu and then Add that Part Master view to your favorites.

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					6						Waa ca	ment Stre	en to Favi	inces	-				
					8.	art M	aster	Viev	N - All		<u>R</u> elated	l Links		F11				L.	
					Part	Master	View - A	411		-								A 🗄 👌	693
					Part	Number	r		Descri	iptio	n				Rev	Stock	UOM De	Department	Density
					1	•	B-01		Asser	nbly.	, Barrel,	Blue			A	EA	Each	SUBS	
					2	1	B-02		Asser	nbly,	, Barrel,	Red			A	EA	Each	SUBS	
					3	1	BP-1		Barrel	I, To	p Half, I	Blue			A	EA	Each		
					4	J	BP-2		Barrel	I, Bo	ttom Ha	ilf, Blue			A	EA	Each		
					5	1	BP-3		Ring,	Met	al .250	diameter			A	EA	Each		RING1
					6	1	BP-4		Clip, F	Pock	cet Meta	al 1.5 inch			В	EA	Each		
					7	1	BP-5		Barrel	I, To	p Half, I	Red			A	EA	Each		
					8	1	BP-6		Barrel	l, Bo	ttom Ha	lf, Red			A	EA	Each		
					9	1	BPP-10	0	Assen	mbly.	, Ball Po	bint Pen, B	llue		В	EA	Each	ASSY	
					10	1	BPP-20	0	Assen	mbly.	, Ball Po	iint Pen, R	led		В	EA	Each	ASSY	-
					11	1	BPP-x3	00	Custo	om B	all Poir	nt Pen, R	ed, Stamp	ed with	В	EA	Each	ASSY	
					12	1	C-01		Assen	mbly.	, Cartrid	ge, Blue Ir	nk		C	EA	Each	SUBCON	
					13		C-02		Assen	mbly.	, Cartrid	ge, Red Ir	ık		C	EA	Each	SUBCON	
					14	1	CP-1		Ball P	oint					В	EA	Each		
					15		N-01		Ink, B	Blue					В	FO	Fluid		
					16	1	N-02		Ink, F	Red					В	FO	Fluid		
					17		N-x03		Ink, S	pec	ial Gold				В	FO	Fluid		
					18	1	PL-01		Assen	mbly.	, Plunge	:r			A	EA	Each	ASSY	
					19	1	PL-1		Tube,	, Up	per mo	lded plast	ic, 1.750 i	nches Ia	В	EA	Each		
					20		PI -2		Tuhe	Loi	wer moli	ded plastic	375 inch	ies lona	B	FΔ	Fach		
																		Edit	
Rek	ated Li	nks Favo	prites									_							CIUSE

The Add Current Screen to Favorites dialog box will immediately display.

Add Current Screen to Favorites	×
Add Current Screen to Favorites	OK
	Cancel
Dest Master View All	
Fait Master Mew - All	

You may rename the screen if you like. Click OK, your Favorites section will now be displayed in the sidebar.

📽 Alliance/MFG 7.1																	
Eile	<u>E</u> dit	Products	Demand	<u>S</u> upply	MRP	Inve	ntory	⊆RP	S <u>h</u> op	F <u>a</u> vorites	<u>W</u> indow <u>H</u>	elp					
Favorites 7						New Copy	🎦 New	Save	×	🖘 Qu	Jery 🗟	⁹ Refresh					
	Favo	Favorite Links		*	📽 Part Master View - All												
				<u> </u>	Part Master View - All							👪 🛅 🧯	5 💎 🕭				
	Part Master View - All		Part Number			Description			Rev	Stock	UOM De	Department	Density				
		1		1	•	B-01		Assembly, Barrel, Blue			A	EA	Each	SUBS			
					2	ľ	B-02		Assen	nbly, Barrel,	Red		A	EA	Each	SUBS	
					3		BP-1		Barrel	, Top Half,	Blue		A	EA	Each		
					4		BP-2		Barrel	, Bottom Ha	alf, Blue		A	EA	Each		
				5		BP-3		Ring, Metal .250 diameter			A	EA	Each		RING1		
				6	BP-4		Clip, Pocket Metal 1.5 inch			В	EA	Each					
				7		BP-5		Barrel, Top Half, Red			A	EA	Each				
				8		BP-6		Barrel	Barrel, Bottom Half, Red			A	EA	Each			
	9			9		BPP-100		Assembly, Ball Point Pen, Blue			В	EA	Each	ASSY			
				10		BPP-200		Assembly, Ball Point Pen, Red			В	EA	Each	ASSY			
				11		BPP-x300 C-01		Custo	Custom Ball Point Pen, Red, Stamped with Assembly, Cartridge, Blue Ink			. В	EA	Each	ASSY		
				12				Assen				С	EA	Each	SUBCON		
					13		C-02		Assen	nbly, Cartrid	ge, Red Ink		С	EA	Each	SUBCON	
					14		CP-1		Ball P	'oint			В	EA	Each		
					15		IN-01		Ink, B	lue			В	FO	Fluid		
					16		IN-02		Ink, B	led			В	FO	Fluid		
	17 IN-x03				Ink, Special Gold			В	FO	Fluid							
		18 PL-01				Assembly, Plunger			A	EA	Each	ASSY					
					19		PL-1		Tube,	, Upper mo	Ided plastic, 1	.750 inches lo	B	EA	Each		
					20		PI -2		Tube Lower molded plastic 375 inches long				B	FΔ	Each		Ň
										Close							
Re	lated Li	inks Favo	orites														CIUSE
Nev	Pen - (C:\Program	Files\Allia	nce\MFG\	NewPer	n.mdb											

You may create as many Favorite Links as you need to be efficient. When you are finished, use the configuration tool to configure your Favorites section. Click on Favorites>Configure Favorites

🗳 Configure Favorites									
Part Master List - Buy Parts Open Purchase Orders - JAT Inventory Summary - JAT Inventory Lots - JAT	Description Screen Name Query Name Show Query Default Query Paramete	Part Master List - Buy Parts View:Part Master View Is Purchasing							
Use Drag and Drop to move items in the list		Preview Cancel OK							

Highlight the favorites selection you wish to configure, you may then rename a selection, modify the query, move a selection up or down within the favorites section, or delete a selection fron the favorites.
🗳 Configure Favorites		
Part Master List - Buy Parts Open Purchase Orders - JAT Inventory Summary - JAT Inventory Lots - JAT	Description Screen Name Query Name Show Query Default Query Paramete	Part Master List - Buy Parts View:Part Master View Is Purchasing By Commodity Code Is Assembly Is Component Has Routers Is Makeable Is Purchasing Obsolete Only Custom Query
Use Drag and Drop to move items in the list		Preview Cancel OK

To prefill a query parameter(s) with frequently used value(s), click on the drop down query list and select the desired query. To display only "your" open purchase orders, query by Buyer Code.

🗳 Configure Favorites			_ 🗆 🛛
Part Master List - Buy Parts Open Purchase Orders - JAT	Description	Open Purchase Orders - JAT	
Inventory Summary - JAT Inventory Lots - JAT	Screen Name	View:Purchase Orders View	
	Query Name	By Buyer Code	~
	Show Query	By Buyer Code Buylob Number	<u>^</u>
	Default Query Paramete	By Order Date By Part Number	
	Buyer Code	By PO Number By Beguired Date	
		By Supplier ID	
		By Past Due Urders	
Use Drag and Drop to move items in the list		Preview Cancel	ОК

Next, enter the Default Query Values and Click OK.

📽 Configure Favorites			
Part Master List - Buy Parts Open Purchase Orders - JAT Inventory Summary - JAT Inventory Lots - JAT	Description Screen Name Query Name Show Query Default Query Paramete Buyer Code	Open Purchase Orders - JAT View:Purchase Orders View By Buyer Code	
Use Drag and Drop to move items in the list		Preview Cancel	ОК

You may display and verify the results by either clicking the Preview button or clicking the favorite's selection in the sidebar.

Adding External items to your Favorites

Click on Configure Favorites option on the Favorites menu. Click the New button on the Alliance/MFG Toolbar. The Add New Link window is displayed.

🗳 Add New Link	
Custom View	 Image: A start of the start of
C External File	
C Separator	
Cancel	ок

Click either the Custom View, External File or Separator radio button. To add a Custom View, click the drop down arrow and highlight any custom view you have created or downloaded and saved (Free Custom Views are available for downloading from the Alliance Customer Portal). To add an External file to your favorites, click the ellipse button and navigate to a document or file that can be opened with a double click event.

Select a file tha	t Windows can run with a double click	? 🛛
Look jn:	🔁 Web Docs 💽 🔇) 🌶 📂 🛄
My Recent Documents Desktop My Documents	Flash Macromedia Captivate Tickle Tests, Matchmaking and Social Networking_files Utilities Adding custom fields to Alliance.doc Alliance Web Report.pdf AllianceDownLoadInstructions.doc AllianceDownLoadText.doc AlliancePTReleaseDoc.doc Exact Alliance 100 Word.doc Exact Alliance 100 Word.doc Exact Proposed Website Review.pdf Free Custom Utilities.doc	B Phone System is currently (Tickle Tests, Matchmaking and Web Stats + Lead Count.xls
	 NewFieldExample.zip PreventUpdateAndDelete.zip 	
My Computer		>
	File name: Web Stats + Lead Count.xls	
	All Files	Cancel

Click the Open button. The path will be displayed in the Add New Link window.

🗳 Add New Link	
C Custom View	~
External File	C:\Documents and Settings\diam
C Separator	
Cancel	ОК

Click the OK button to add the external document, custom view or separator bar to your Favorites. You can change the Description if needed. If you added a separator bar to separate items in your favorites you can drag and drop items to reorganize how they are displayed.

🗳 Configure Favorites		
Part Maintenance View - All Web Stats + Lead Count	Description	Web Stats + Lead Count
	File Path	C:\Documents and Settings\diam22610.EXACT-SOF
Use Drag and Drop to		
move items in the list		Preview Cancel OK

You can either highlight and Preview the item you just added or click OK to return to Alliance.



Using the Sidebar Related Links Sections

The Related Links sections display dynamic links to associated data based on the active or highlighted record in the current window. The links will display as hyperlinks when selected and if clicked will execute a pre-defined query with the current record's data as the parameter(s). These links will save you time and keystrokes when you need to access related data (display the Receipts or Returns for the highlighted PO in the view screen). Unlike the queries from the Main Menu you are not required to fill in the query parameter(s), the parameter is supplied by the screen you have open and/or the record selected.

* Alliance/MFG 7.1									
<u>File Edit Products Demand</u>	Supply	MRP I	nventory <u>C</u> RP	S <u>h</u> op F <u>a</u> vorites <u>W</u> indow <u>H</u> elp					
Favorites	ą	K	< > >I	New Copy	8	🧒 Qi	uery 🧟	Refresh	
Favorite Links	*	e ^o Pa	rt Master Viev	w - All					_ 🗆 🛛
Dark Marshar Manuel All		Part Ma	ster View - All					63	🔄 💐 🏱 🍉
Fait Master View - All		Part Nu	mber	Description	Rev	Stock	UOM De	Department	Density Code 🔽
		1	▶ 8-01	Assembly, Barrel, Blue	A	EA	Each	SUBS	
Polated Links		2	B-02	Assembly, Barrel, Red	A	EA	Each	SUBS	
Tielateu Links	Ť	3	BP-1	Barrel, Top Half, Blue	A	EA	Each		
		4	BP-2	Barrel, Bottom Half, Blue	A	EA	Each		
Yiew Links 🏾 🎓		5	BP-3	Ring, Metal .250 diameter	A	EA	Each		RING1
Engineering Change M		6	BP-4	Clip, Pocket Metal 1.5 inch	В	EA	Each		
Engineering Change N		7	BP-5	Barrel, Top Half, Red	A	EA	Each		
Labor Routors View		8	BP-6	Barrel, Bottom Half, Red	A	EA	Each		
Part Cross Beference		9	BPP-100	Assembly, Ball Point Pen, Blue	В	EA	Each	ASSY	
Part Documents View		10	BPP-200	Assembly, Ball Point Pen, Red	В	EA	Each	ASSY	
Product Structure (BD		11	BPP-x300	Custom Ball Point Pen, Red, Stamped with	В	EA	Each	ASSY	
Where Used View		12	C-01	Assembly, Cartridge, Blue Ink	С	EA	Each	SUBCON	
		13	C-02	Assembly, Cartridge, Red Ink	С	EA	Each	SUBCON	
		14	CP-1	Ball Point	В	EA	Each		
Edit Links 🔅	2	15	IN-01	Ink, Blue	В	FO	Fluid		
Densitu Code		16	IN-02	Ink, Red	В	FO	Fluid		
Unit of Measure Code		17	IN-v03	Ink Special Gold	B	FO	Fluid		~
Conix of Micdistate Code		<u> </u>							>
								Edit	Close
Report Links 🏾 🎗									
Dill of Materials Depart									
Indepted Bill of Materia									
Part Master List Report									
r alt master List hepoit				200					
New Des Colourses Cit. 1 Mile						_			
New Pen - C:\Program Files\Alliar	nce(MHG)	NewPen.r	nab			_			

Using the Sidebar with Related Views Section

To view the labor router for a the part B-01, simply click on the Labor Routers View hyperlink in the sidebar. The desired view screen will be displayed for the highlighted record.

📽 Labor Routers View - By Part Number (B-01)							
Labor	Labor Routers View - By Part Number (B-01)						6 💡 🔈
Part Nur	mber	Sequence ID	Operation Code	Description	Work Center ID	Queue Time	Setup Time
1	▶ B-01	100	100-0002	Kit Parts, Issue to Assembly	WC001	0	
2	B-01	200	200-0006	Install Clip to Barrel Top	WC003	0	
3	B-01	300	300-0004	Insert Ring	WC003	0	
4	B-01	400	400-0001	Assemble Barrel	WC003	0	
<			1				>
						Edit	Close

Using the Report Links Sidebar Section

Simply click on the desired related report in the sidebar. The report will be displayed for the highlighted record. If you had selected the Report Indented BOM report link for part BPP-100 from the sidebar a predefined query would have been executed with the part number parameter filled in.

🗳 Inc	dented Bil	l of Materials Rep	oort - Assembly						
×	🚖 🔚 1	00% 🔽 🕴 📢	🖌 1 of 1 🕨 🕨 = 🔗 🗟 🏘						
Previe	ew	,							
					A T E		10		
			INDENTED BILL		AIE	RIA	L3		
	Asse	mbly	Description				Rev	иом	ISC
	BPP	- 100	Assembly, Ball Point Pen, Blue				B	EA	M
	item	Component	Description	Pau	0tv	цом	Eff Date	Ohe Date	- 150
		component		Kee	uty	00111	En. Date	003.040	
	* 10	B-01	Assembly, Barrel, Blue	A	1.00	EA			M
	10	BP-1	Barrel, Top Haff, Blue	A	1.00	EA			8
	20	BP-2	Barrel, Bottom Halt, Blue	A	1.00	EA			в
	30	BP-3	Ring, Metal 200 diameter	A	1.00	EA			в
	** 40	89-4	Clip, Pocket Metal 1.6 inch	в	1.00	EA			в
	^ 20	0-01	Assembly, Cartridge, Blue Ink	C .	1.00	EA			5
	^^ 10	CP-1	Ball Point	в	1.00	EA			в
	^^ 20	T-01	Tube, Plastic clear 3.25 inch	A	1.00	EA			M
	10	TR-01	Tubing, Clear Plastic, Full Roll	A	3.25	IN			8
	~~ 30	IN-U1	Ink, Blue	B	0.50	FU			F
	^ 3U	PL-01	Assembly, Plunger	A	1.00	EA			P
	~~ 10	PL-1	lube, Upper molded plastic, 1.750 inches long	8	1.00	EA			в
	20	PL-2	i ube, Lower moided plastic, .375 inches long	в	1.00	EA			в
	30	PL-3	Munger, Metal 2000 Inch	A	1.00	EA			8
	·· 40	5-01	Spring, Metai .870 inch	А	1.00	EA			в
<									>
								Pri	int Close

Drilling Down

This feature allows you to move from one element of the system to another element via its table relationships, and optionally return to where you started without having to use the main menu functions and submenu queries. You can drill down from any data view form or data entry form to any related information linked to data in the form. You drill down by using the Related Links Sidebar. When you drill down through various tables from a data entry form, you can return along the same path as you close the various windows and tables.

Data Views, Data Entry, and Transaction Forms

Alliance/MFG is set up and operated using four basic window formats: Data Views, Data Entry Forms, Transaction Forms, and various dialog boxes. The windows contain various buttons, scroll bars, drop-down lists, date calendars, dialog boxes, and other elements familiar to you if you have used Windows programs. The system also generates messages that warn you about invalid or missing data, or prompt you for more information. The basic elements shown in the Alliance Window Types section operate the same way throughout the Alliance/MFG system. Use the Data Views such as the Part Master View to browse or view data in a system table and "drill down" to related data; use Data Entry forms to add, edit, or maintain records; use Transaction forms to ship, receive, kit, and perform other tasks that move material from one location to another.

The Alliance Window Types section provide examples of each format and describe the basic controls used to view, select, enter, move, or delete data in the system.

Alliance/MFG Window Types

Alliance/MFG is set up and operated using four basic window formats: Data Views, Data Entry forms, Transaction forms, and various dialog boxes. The windows contain various buttons, scroll bars, drop-down lists, date calendars, dialog boxes, and other elements familiar to you if you have used Windows programs. The system also generates messages that warn you about errors or missing data, or prompt you for more information.

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Data Views

Viewing and Browsing Data

When you select a function from the Alliance/MFG Main Menu, and then select a from the submenu, the system presents a list of data in a window called a View. Most View Grids have the ability to sort, group, filter and calculate simple summary functions on any of the Columns of data in that View. Additionally view data can be printed and exported directly from the view.

Select Products>Part Master>All to see a sample of a Data View showing all records in the Part Master.

🕫 Part Master View - All 📃 🗖 🔀								
Part M	aster View - All					👪 🗏 👶 💡		
Part Num	nber /	Description	Rev	Stock UOM	UOM Description	Department Code	-	
1	B-01	Assembly, Barrel, Blue	A	EA	Each	SUBS		
2	B-02	Assembly, Barrel, Red	A	EA	Each	SUBS		
3	BP-1	Barrel, Top Half, Blue	A	EA	Each	PURCH		
4	BP-2	Barrel, Bottom Half, Blue	A	EA	Each	PURCH		
5	BP-3	Ring, Metal .250 diameter	A	EA	Each	PURCH		
6	BP-4	Clip, Pocket Metal 1.5 inch	В	EA	Each	PURCH		
7	BP-5	Barrel, Top Half, Red	A	EA	Each	PURCH		
8	BP-6	Barrel, Bottom Half, Red	A	EA	Each	PURCH		
9	BPP-100	Assembly, Ball Point Pen, Blue	В	EA	Each	ASSY		
10	BPP-200	Assembly, Ball Point Pen, Red	В	EA	Each	ASSY		
11	BPP-x300	Custom Ball Point Pen, Red, Stamped with	В	EA	Each	ASSY		
12	C-01	Assembly, Cartridge, Blue Ink	С	EA	Each	SUBCON		
13	C-02	Assembly, Cartridge, Red Ink	С	EA	Each	SUBCON	1	
14	CP-1	Ball Point	В	EA	Each	PURCH		
15	IN-01	Ink, Blue	В	FO	Fluid Ounce (Volu	PURCH		
16	IN-02	Ink, Red	В	FO	Fluid Ounce (Volu	PURCH		
17	IN-x03	Ink, Special Gold	В	FO	Fluid Ounce (Volu	PURCH		
18	PL-01	Assembly, Plunger	A	EA	Each	ASSY		
19	PL-1	Tube, Upper molded plastic, 1.750 inches Io	В	EA	Each	PURCH	~	
<						>		
						Edit Close	,	

You can scroll up and down and from side to side using the scroll bars on the Data View window to bring all items into view. You can also press Ctrl+Page Up or Ctrl+Page Down on your keyboard to quickly go to the top or the bottom of the list. You can select and drag a column (Caption) to the left or right. A **Red Arrowhead** indicates where the column will relocate to when the mouse is released. You can select and drag column widths to re-size your display, a **Bold Dark Line** indicates where the column size will be when the mouse is released; and you can resize the entire window to view all columns. These changes will be saved by the system. From the Data View, you can select an item and click Edit or double-click the item to open the related Data Entry form.

Sorting Data Views

Changing the way data is sorted can help you locate what you need quickly. With a Data View open, click on the column that contains the field you wish to sort. The data will sort alternately in ascending or descending order, each time you click the column header. An Up or Down arrow appears, and the data in the list is sorted in ascending or descending order. Below is a Part master view sorted by Description.

🗳 Part I	Master View - Al	I					×
Part Ma:	ster View - All					👪 📑 🕹 🌱	۵
Part Numb	er	Description 🗠	Rev	Stock UOM	UOM Description	Department Code	
1	Z-NonInventory			EA	Each	PURCH	
2	BPP-100	Assembly, Ball Point Pen, Blue	В	EA	Each	ASSY	
3	BPP-200	Assembly, Ball Point Pen, Red	В	EA	Each	ASSY	
4	B-01	Assembly, Barrel, Blue	Α	EA	Each	SUBS	
5	B-02	Assembly, Barrel, Red	Α	EA	Each	SUBS	
6	C-01	Assembly, Cartridge, Blue Ink	С	EA	Each	SUBCON	
7	C-02	Assembly, Cartridge, Red Ink	С	EA	Each	SUBCON	
8	PL-01	Assembly, Plunger	A	EA	Each	ASSY	
9	CP-1	Ball Point	В	EA	Each	PURCH	
10	BP-2	Barrel, Bottom Half, Blue	A	EA	Each	PURCH	
11	BP-6	Barrel, Bottom Half, Red	A	EA	Each	PURCH	
12	BP-1	Barrel, Top Half, Blue	A	EA	Each	PURCH	
13	BP-5	Barrel, Top Half, Red	A	EA	Each	PURCH	
14	Z-Capital Asset	Capital Asset		EA	Each	PURCH	
15	BP-4	Clip, Pocket Metal 1.5 inch	В	EA	Each	PURCH	
16	BPP-x300	Custom Ball Point Pen, Red, Stamped with	В	EA	Each	ASSY	
17	Z-Estimate	Estimate		EA	Each	EST	
18	IN-01	Ink, Blue	В	FO	Fluid Ounce (Volu	PURCH	
19	IN-02	Ink, Red	В	FO	Fluid Ounce (Volu	PURCH	
20	IN-x03	Ink, Special Gold	В	FO	Fluid Ounce (Volu	PURCH	
21	PL-3	Plunger, Metal .500 inch	A	EA	Each	PURCH	
22	BP-3	Ring, Metal .250 diameter	Α	EA	Each	PURCH	
23	Z-Service Cont	Service Contract		EA	Each	PURCH	
24	S-01	Spring, Metal .875 inch	A	EA	Each	PURCH	
25	PL-2	Tube, Lower molded plastic, .375 inches long	В	EA	Each	PURCH	~
<	5	ш	-	1			Σ
					1	Edit Clos	e

You may sort views by more than one column by holding down the Shift key. Below is the Part Cross Reference view sorted by Part Number and supplier leadtime.

se Part Cross Reference View - All								
Part Cro	oss Reference View	- All			e:	5 📑 🕹 ᡪ	P 🐌	
Part Numb	oer 🗠	Cross Reference	Description	Supplier/Customer ID	Approved Source	Leadtime		
1	BP-1	AVI564	Pantone 286C, Top Barrel	ASSMB			4	
2	BP-1	PL05-286		OASIS			5	
3	BP-1	KIJ86HJ		CASTL			7	
4	BP-2	AV1563	Pantone 286C, Bottom Barrel	ASSMB			4	
5	BP-2	PL15-286		OASIS			5	
6	BP-2	MIJ86BJ		CASTL			7	
7	BP-3	25674		PSLNO			4	
8	BP-3	S1064L3		REBDN			5	
9	BP-4	25705		PSLNO			4	
10	BP-4	S2946B4		REBDN			5	
11	BP-5	AVI572	Pantone 186C, Top Barrel	ASSMB			4	
12	BP-5	PL08-186		OASIS			5	
13	BP-5	KII86HJ		CASTL			7	
14	BP-6	AVI571	Pantone 186C, Bottom Barrel	ASSMB			4	
15	BP-6	PL18-186		OASIS			5	
16	BP-6	MII86BJ		CASTL			7	
17	BPP-100	1-UNR-AA		FENCO			0	
18	BPP-x300	300MC800	McLaren Part Number	MCLAR			0	
19	C-01	1WQ676		BLAIR			7	
20	C-01	778JUN3		MBKPH			10	
21	C-02	1WQ701		BLAIR			7	
22	C-02	792JUN3		MBKPH			10	
23	IN-01	2935C	Pantone 2935C	GOLDS			4	
24	IN-02	199C	Pantone 199C	GOLDS	Image: A start of the start		4	
25	PL-1	004BJC		NORTN			3 🗸	
<							>	
					Edit	Clo	se	

Printing a Data View

In the top right of the data view window (below the Minimize, Maximize, Close buttons) there are three (3) buttons; Printer, Filter and Group. Arrange the data in the view the way you want to see it and then click on the Printer button. The Print Preview window will be displayed with your selected data view. You may have to adjust the page setup and other printing parameters (margins default to one (1) inch).

Print Preview								
<u>ile Vi</u> ew <u>T</u> ools								
9 🖉 👜 🕑 I	S E) 78.22 % 🔄 🕑 💾 🕻	II) •	<u>⊂lose</u> ç		
a a 1			ء 🖲 🕤					
	~							
		Part Nu	umber	Description	Rev	Stock UOM	UOM Description	Department Code
		1	B-01	Assembly, Barrel, Blue	A	EA	Each	SUBS
		2	B-02	Assembly, Barrel, Red	A	EA	Each	SUBS
		3	BP-1	Barrel, Top Half, Blue	A	EA	Each	PURCH
		4	BP-2	Barrel, Bottom Half, Blue	A	EA	Each	PURCH
		5	BP-3	Ring, Metal .250 diameter	A	EA	Each	PURCH
		6	BP-4	Clip, Pocket Metal 1.5 inch	В	EA	Each	PURCH
		7	BP-5	Barrel, Top Half, Red	A	EA	Each	PURCH
		8	BP-6	Barrel, Bottorn Half, Red	A	EA	Each	PURCH
		9	BPP-100	Assembly, Ball Point Pen, Blue	В	EA	Each	ASSY
		10	BPP-200	Assembly, Ball Point Pen, Red	B	EA	Each	ASSY
		11	BPP-x300	Custom Ball Point Pen, Red, Stamped wit	В	EA	Each	ASSY
1. N. (S. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		12	C-01	Assembly, Cartridge, Blue Ink	C	EA	Each	SUBCON
Danar II is is the		13	C-02	Assembly, Cartridge, Red Ink	C	EA	Each	SUBCON
		14	CP-1	Ball Point	B	EA	Each	PURCH
		15	IN-01	Ink, Blue	В	FO	Fluid Ounce (Volu	PURCH
		16	IN-02	Ink, Red	В	FO	Fluid Ounce (Volu	PURCH
		17	IN-x03	Ink, Special Gold	в	FO	Fluid Ounce (Volu	PURCH
		18	PL-01	Assembly, Plunger	A	EA	Each	ASSY
		19	PL-1	Tube, Upper molded plastic, 1.750 inches I	В	EA	Each	PURCH
		20	PL-2	Tube, Lower molded plastic, .375 inches lo	в	EA	Each	PURCH
		21	PL-3	Plunger, Metal .500 inch	A	EA	Each	PURCH
		22	S-01	Spring, Metal .875 inch	A	EA	Each	PURCH
		23	T-01	Tube, Plastic clear 3.25 inch	A	EA	Each	SUBS
	12781	24	TR-01	Tubing, Clear Plastic, Full Roll	A	FT	Foot	PURCH
16.00	× .	25	7 Copital Acc	Panital Accet		EA	Ench	DIDCU
	1							>

Filtering Data Views

With large databases, you may want to use the Find/Filter tools to quickly locate data. The Find/Filter tools provide a quick way to find a range of data that begin or end with the same letters, words, numbers, revision, and so on. To filter a data view, click on the Filter button (Funnel icon) or CTRL + F to toggle the Filter Row. A filter row will be inserted as the top row of the view. You may apply a filter on any column or on multiple columns. Each column contains a Function button, a Text box, a Drop Down List box and a Clear Filter button.

NOTE:

Focus will be given to the Filter Row when it is first displayed. If a column has focus then the cell in the Filter Row for that column will be given focus, otherwise the first column will be given focus.

If you type in a "read-only" cell while the Filter Row is hidden, then the Filter Row will automatically be displayed, and the text will be entered into the Filter cell matching that column.

Part M	aster View - All					👪 🗏 🛃 💡	00
Part Num	nber	Description	Rev	Stock UOM	UOM Description	Department Code	1
			A	A	A	A	1
1)	B-01	Assembly, Barrel, Blue	A	EA	Each	SUBS	
2	B-02	Assembly, Barrel, Red	A	EA	Each	SUBS	1
3	BP-1	Barrel, Top Half, Blue	A	EA	Each	PURCH	1
4	BP-2	Barrel, Bottom Half, Blue	A	EA	Each	PURCH	1
5	BP-3	Ring, Metal .250 diameter	A	EA	Each	PURCH	1
6	BP-4	Clip, Pocket Metal 1.5 inch	В	EA	Each	PURCH	1
7	BP-5	Barrel, Top Half, Red	A	EA	Each	PURCH	1
8	BP-6	Barrel, Bottom Half, Red	A	EA	Each	PURCH	1
9	BPP-100	Assembly, Ball Point Pen, Blue	В	EA	Each	ASSY	1
10	BPP-200	Assembly, Ball Point Pen, Red	В	EA	Each	ASSY	1
11	BPP-x300	Custom Ball Point Pen, Red, Stamped with	В	EA	Each	ASSY	1
12	C-01	Assembly, Cartridge, Blue Ink	С	EA	Each	SUBCON	1
13	C-02	Assembly, Cartridge, Red Ink	С	EA	Each	SUBCON	1
14	CP-1	Ball Point	В	EA	Each	PURCH	1
15	IN-01	Ink, Blue	В	FO	Fluid Ounce (Volu	PURCH	1
16	IN-02	Ink, Red	В	FO	Fluid Ounce (Volu	PURCH	1
17	IN-x03	Ink, Special Gold	В	FO	Fluid Ounce (Volu	PURCH	1
18	PL-01	Assembly, Plunger	A	EA	Each	ASSY	1
19	PL-1	Tube, Upper molded plastic, 1.750 inches Io	В	EA	Each	PURCH	1
<						>	ī

Filter by Column Data Value

To find or filter by part number, simply click in the part number filter row, a text box and drop down list box are now available, either use the down arrow to select a part number or start typing a value in the text box. You may also create custom filters by clicking on (Custom).

📽 Part I	Master View - A	u					×
Part Ma:	ster View - All					👪 📑 🛃 🌱	۵
Part Numb	ber	Description	Rev	Stock UOM	UOM Description	Department Code	De
		🗖 Re 🔽 🖌	A	A	A	Δ	A
1	B-01	Assembly, Barrel, Blue	A	EA	Each	SUBS	
2	B-02	Assembly, Barrel, Red	А	EA	Each	SUBS	
3	BP-1	Barrel, Top Half, Blue	А	EA	Each	PURCH	
4	BP-2	Barrel, Bottom Half, Blue	А	EA	Each	PURCH	
5	BP-5	Barrel, Top Half, Red	А	EA	Each	PURCH	
6	BP-6	Barrel, Bottom Half, Red	А	EA	Each	PURCH	
7	BPP-200	Assembly, Ball Point Pen, Red	В	EA	Each	ASSY	
8	BPP-x300	Custom Ball Point Pen, Red, Stamped with	В	EA	Each	ASSY	
9	C-02	Assembly, Cartridge, Red Ink	С	EA	Each	SUBCON	
10	IN-02	Ink, Red	В	FO	Fluid Ounce (Volu	PURCH	
							2
						Edit Close	1

Using the Function Filter

We will attempt to find all parts with Descriptions containing the word "Red". Click on the Function button in the left side of the column header for "Description ".

Description	
A	

This will display the filter criteria for that column. In the drop down box click on "Contains", this will activate a filter text box in the Description column header.

ø° p	art Master View	- All					×
Pa	rt Master View - All					👪 🗏 🕹 🌱	3
Part	Number	/ Description	Rev	Stock UOM	UOM Description	Department Code	
A Sta	arts with	nbly, Barrel, Blue	Α	EA	Each	SUBS	1
Co	ntains	nbly, Barrel, Red	A	EA	Each	SUBS	
A En	ds with	, Top Half, Blue	A	EA	Each	PURCH	
🗶 Does not start with		, Bottom Half, Blue	A	EA	Each	PURCH	
Do Do	es not end with	🝵 Metal .250 diameter	A	EA	Each	PURCH	
- Do	es not match	Pocket Metal 1.5 inch	В	EA	Each	PURCH	
⊷ Does not match Mot Like		🚬 🔽, Top Half, Red	A	EA	Each	PURCH	
8	BP-6	Barrel, Bottom Half, Red	A	EA	Each	PURCH	
9	BPP-100	Assembly, Ball Point Pen, Blue	В	EA	Each	ASSY	1
10	BPP-200	Assembly, Ball Point Pen, Red	В	EA	Each	ASSY	
11	BPP-x300	Custom Ball Point Pen, Red, Stamped with	В	EA	Each	ASSY	
12	C-01	Assembly, Cartridge, Blue Ink	С	EA	Each	SUBCON	
13	C-02	Assembly, Cartridge, Red Ink	С	EA	Each	SUBCON	
14	CP-1	Ball Point	В	EA	Each	PURCH	1
15	IN-01	Ink, Blue	В	FO	Fluid Ounce (Volu	PURCH	1
16	IN-02	Ink, Red	В	FO	Fluid Ounce (Volu	PURCH	
17	IN-x03	Ink, Special Gold	В	FO	Fluid Ounce (Volu	PURCH	
18	PL-01	Assembly, Plunger	A	EA	Each	ASSY	
19	PL-1	Tube, Upper molded plastic, 1.750 inches Io	В	EA	Each	PURCH	V
<						>	
						Edit Close	•

Simply begin typing the filter text (Red) beginning with the letters "Re" in the field to filter the view. The view will now only display part master records with descriptions containing the letters "Re".

Alliance/MFG User Guide

📽 Part	Master View - A	ll					×
Part Ma	ster View - All					👸 📑 🕹 🌱	۲
Part Numb	ber	Description	Rev	Stock UOM	UOM Description	Department Code	De
		🔳 Re 🛛 🔽 🗹	A	A	A	Δ	A
1	B-01	Assembly, Barrel, Blue	А	EA	Each	SUBS	
2	B-02	Assembly, Barrel, Red	А	EA	Each	SUBS	
3	BP-1	Barrel, Top Half, Blue	А	EA	Each	PURCH	
4	BP-2	Barrel, Bottom Half, Blue	А	EA	Each	PURCH	
5	BP-5	Barrel, Top Half, Red	А	EA	Each	PURCH	
6	BP-6	Barrel, Bottom Half, Red	А	EA	Each	PURCH	
7	BPP-200	Assembly, Ball Point Pen, Red	В	EA	Each	ASSY	
8	BPP-x300	Custom Ball Point Pen, Red, Stamped with	В	EA	Each	ASSY	
9	C-02	Assembly, Cartridge, Red Ink	С	EA	Each	SUBCON	
10	IN-02	Ink, Red	В	FO	Fluid Ounce (Volu	PURCH	
						Edit Close	e _

This is an incremental filter, it we continue to type letters (add the letter "d") in the filter text box and the view will be reduced to only those parts containing the word "Red".

🇬 Pa	rt Master View - J	ML					
Part	Master View - All					👪 🗏 🕹 🛜	5
Part N	umber	Description	Rev	Stock UOM	UOM Description	Department Code	De
		🗖 Red 🔽 🗸					
1	B-02	Assembly, Barrel, Red	A	EA	Each	SUBS	
2	BP-5	Barrel, Top Half, Red	A	EA	Each	PURCH	
3	BP-6	Barrel, Bottom Half, Red	A	EA	Each	PURCH	
4	BPP-200	Assembly, Ball Point Pen, Red	В	EA	Each	ASSY	
5	BPP-x300	Custom Ball Point Pen, Red, Stamped with	В	EA	Each	ASSY	
6	C-02	Assembly, Cartridge, Red Ink	С	EA	Each	SUBCON	
7 IN-02 Ink, Red		В	FO	Fluid Ounce (Volu	PURCH		
<u>_</u>		Ш.					×
						Edit Clos	e

We could further reduce the view to display only "Red" parts with Rev "A" by filtering on the column "Rev".

📽 Pa	rt Master Vie	w - All				
Part	Master View - Al	Î			63	8 4 9 3
Part Nu	umber	Description	Rev	Stock UOM	UOM Description	Department Code
		Red Red	A 🗸			
1	B-02	Assembly, Barrel, Red	A	EA	Each	SUBS
2	BP-5	Barrel, Top Half, Red	A	EA	Each	PURCH
3	BP-6	Barrel, Bottom Half, Red	A	EA	Each	PURCH
<						>
					Edit	Close

To clear the filter criteria click on the [no filter] button in the right side of the column header or to clear all column filters, click on the [no filter] button in the left column header above the row number.

Grouping Data Views

You may want to use the Grouping tool to better categorize and display data. The Grouping tool provides a quick way to display groups of data that you would have to perform and input multiple queries to see the same results. To group a data view, click on the Group button (Cubes icon) or - CTRL + G to toggle the Group Section. A Group header section will be inserted above the column headers in the view. The message "Drag a column header here to group by that column." will be displayed.

🧳 Part (Cross Refe	rence View - Al	L					×
Part Cro	ss Reference	: View - All				6 3	1 📑 🛃 💡	۵
Drag a c	olumn hea	der here to aroup	by that column.					
Diagon								
Part Numb	er	Cross Reference	Description	Supplier/Cu	Approved Source	Supplier Pric	Leadtime	^
1	BP-1	AV1564	Pantone 286C, Top Barrel	ASSMB	<u> </u>	\$0.05	4	
2	BP-1	KIJ86HJ	Top Barrel	CASTL		\$0.06	7	
3	BP-1	PL05-286	Top Barrel	OASIS		\$0.06	5	
4	BP-2	AVI563	Pantone 286C, Bottom Barrel	ASSMB		\$0.05	4	
5	BP-2	MIJ86BJ	Bottom Barrel	CASTL		\$0.06	7	≡
6	BP-2	PL15-286	Bottom Barrel	OASIS		\$0.06	5	
7	BP-3	25674	Ring	PSLNO		\$0.02	4	1
8	BP-3	S1064L3	Ring	REBDN		\$0.02	5	1
9	BP-4	25705	Ring	PSLNO		\$0.02	4	1
10	BP-4	S2946B4	Ring	REBDN		\$0.03	5	
11	BP-5	AVI572	Pantone 186C, Top Barrel	ASSMB		\$0.00	4	
12	BP-5	KII86HJ		CASTL		\$0.00	7	1
13	BP-5	PL08-186		OASIS		\$0.00	5	
14	BP-6	AVI571	Pantone 186C, Bottom Barrel	ASSMB		\$0.00	4	
15	BP-6	MII86BJ		CASTL		\$0.00	7	1
16	BP-6	PL18-186		OASIS		\$0.00	5	
17	BPP-100	1-UNR-AA		FENCO		\$0.00	0	
18	BPP-x300	300MC800	McLaren Part Number	MCLAR		\$0.00	0	
19	C-01	1WQ676		BLAIR		\$0.00	7	
20	C-01	778JUN3		MRKPH		\$0.00	10	~
<	1		: IIII	+	1		>	
		Edit	Close					

To group the Part Cross Reference - All, data view by Supplier, drag the column header Supplier ID to the grouping section. A **Red Arrowhead** indicates where to drop the column when the mouse is released. The Part Cross Reference is now displayed grouped by Supplier ID.

🗳 Part Cross Reference View - All		
Part Cross Reference View - All	83 [5 🖓 🛃
■ Supplier/Customer ID : ASSMB (4 items)		
Supplier/Customer ID : BLAIR (2 items)		
⊡ Supplier/Customer ID : CASTL (5 items)		
Supplier/Customer ID : FENCO (1 item)		
Supplier/Customer ID : GOLDS (2 items)		
Supplier/Customer ID : MCLAR (1 item)		
Supplier/Customer ID : MRKPH (2 items)		
Supplier/Customer ID : NORTN (2 items)		
Supplier/Customer ID : OASIS (5 items)		
Supplier/Customer ID : PSLNO (4 items)		
Supplier/Customer ID : REBDN (4 items)		
☑ Supplier/Customer ID : TRIPH (3 items)		
		>
	Edit	Close

Each group and the number of records in each group is displayed. To view the data in a group, click on the + button (expand).

đ	Part Cr	oss Refere	nce View - All							×
	Part Cross	Reference Vi	ew - All				6 3	i 🖪 🛃	9	۵
	Supplier/	Customer ID	Δ							
E	Supplier/0	Customer ID :	ASSMB (4 items)							-
	Part Numb	ber	Cross Reference	Description	Supplier/	Approved Source	Supplier Pric	Leadtime		Ħ
	1	BP-1	AV1564	Pantone 286C, Top Barrel	ASSMB		\$0.05		4	
	2	BP-2	AV1563	Pantone 286C, Bottom Barrel	ASSMB		\$0.05		4	
	3	BP-5	AVI572	Pantone 186C, Top Barrel	ASSMB		\$0.00		4	
	4	BP-6	AVI571	Pantone 186C, Bottom Barrel	ASSMB		\$0.00		4	
Ξ	Supplier/0	Customer ID :	BLAIR (2 items)							=
	Part Numb	oer	Cross Reference	Description	Supplier/ 🗠	Approved Source	Supplier Pric	Leadtime		
	1	C-01	1WQ676		BLAIR		\$0.00		7	
	2	C-02	1WQ701		BLAIR		\$0.00		7	
Ξ	Supplier/0	Customer ID :	CASTL (5 items)							
	Part Numb	oer	Cross Reference	Description	Supplier/ A	Approved Source	Supplier Pric	Leadtime		
	1	BP-1	KIJ86HJ	Top Barrel	CASTL		\$0.06		7	-
	2	BP-2	MIJ86BJ	Bottom Barrel	CASTL		\$0.06		7	
	3	BP-5	KII86HJ		CASTL		\$0.00		7	
	4	BP-6	MII86BJ		CASTL		\$0.00		7	
	5	TR-01	BXE43AC		CASTL		\$0.00		3	
Ξ	Supplier/0	Customer ID :	FENCO (1 item)							
	Part Numb	oer	Cross Reference	Description	Supplier/ A	Approved Source	Supplier Pric	Leadtime		
	1	BPP-100	1-UNR-AA		FENCO	Image: A start of the start	\$0.00		0	
Ξ	Supplier/0	Customer ID :	GOLDS (2 items)							
	Part Numb	ber	Cross Reference	Description	Supplier/ 🗠	Approved Source	Supplier Pric	Leadtime		
	1	IN-01	2935C	Pantone 2935C	GOLDS		\$0.00		4	
	2	IN-02	199C	Pantone 199C	GOLDS		\$0.00		4	~
	<								>	
							Edit		Close	

To display only "Approved" sources you may either add a filter to the view or add a subgroup by that column header. Drag the column header Approved Source to the group section of the view. The view will now display two groups for each supplier; Approved and Non-Approved parts.

ø° i	Part Cross	Referenc	e View - All									
Pa	art Cross Ref	erence View	- All				8 3 I	5 🖓 🛃				
1	Supplier/Cus	stomer ID /	Approved Sour	ce 🗸								
Ξ 9	Supplier/Cus	tomer ID : AS	SSMB (2 items)					×				
6	Approved Source : True (3 items)											
	Part Number Cross Reference Description Supplier/ Approved Sourc 🗸 Supplier Price											
	1	BP-1	AV1564	Pantone 286C, Top Barrel	ASSMB		\$0.05					
	2	BP-5	AVI572	Pantone 186C, Top Barrel	ASSMB		\$0.00					
	3	BP-6	AVI571	Pantone 186C, Bottom Barrel	ASSMB		\$0.00					
0	Approved	Source : Fa	lse (1 item)									
	Part Numb	ber	Cross Reference	Description	Supplier/ 🗠	Approved Sourc 🛛 🗸	Supplier Pric	Leadtime				
1 BP-2 AVI563 Pantone 286C, Bottom Barrel ASSMB State \$0.05												
	Supplier/Customer ID : BLAIR (2 items)											
6	Approved Source : True (1 item)											
	Part Numb	ber	Cross Reference	Description	Supplier/ 🛆	Approved Sourc 🛛 🗸	Supplier Pric	Leadtime				
	1	C-02	1WQ701		BLAIR		\$0.00					
6	Approved	Source : Fal	lse (1 item)									
	Part Numb	ber	Cross Reference	Description	Supplier/ 🗠	Approved Sourc 🛛 🗸	Supplier Pric	Leadtime				
	1	C-01	1WQ676		BLAIR		\$0.00					
Ξ 9	Supplier/Cus	tomer ID : C4	ASTL (1 item)									
	Approved	Source : Tru	ie (5 items)									
	Part Numb	ber	Cross Reference	Description	Supplier/ 🗠	Approved Sourc 🛛 🗸	Supplier Pric	Leadtime				
	1	BP-1	KIJ86HJ	Top Barrel	CASTL		\$0.06					
	2	BP-2	MIJ86BJ	Bottom Barrel	CASTL		\$0.06					
	3	BP-5	KII86HJ		CASTL		\$0.00					
	4	BP-6	MII86BJ		CASTL		\$0.00	~				
1<	-	TO OF	Louis (o) o		LOIOTI	_	*****	>				
							Edit					

Grouping and Filtering Data Views

To display only "Approved Sources" you could have added a filter to the Grouped view above instead of the subgroup. Click on the Filter button to add the filter row to the top of the view. Click on the filter button in the "Approved Source" column header. Then click in the True/False filter box.

¢	Part Cro	ss Refere	nce View - All						
	Part Cross F	Reference Vi	ew - All				8 3	1	9 🌫
	Supplier/0	Customer ID	<u>^</u>						
	Part Numb	er	Cross Reference	Description	Supplier/ △	Approved Source	Supplier Pric	Leadtime	
		A	A	A	A		=	=	
Ξ	Supplier/C	ustomer ID :	ASSMB (3 items)						
	Part Numb	er	Cross Reference	Description	Supplier/ 🗠	Approved Source	Supplier Pric	Leadtime	
	1	BP-1	AVI564	Pantone 286C, Top Barrel	ASSMB		\$0.05		4
	2	BP-5	AV1572	Pantone 186C, Top Barrel	ASSMB		\$0.00		4
	3	BP-6	AVI571	Pantone 186C, Bottom Barrel	ASSMB		\$0.00		4
Ε	Supplier/C	ustomer ID :	BLAIR (1 item)						
	Part Numb	er	Cross Reference	Description	Supplier/ 🗠	Approved Source	Supplier Pric	Leadtime	
	1	C-02	1WQ701		BLAIR		\$0.00		7
Ξ	Supplier/C	ustomer ID :	CASTL (5 items)						
	Part Numb	er	Cross Reference	Description	Supplier/ 🛆	Approved Source	Supplier Pric	Leadtime	
	1	BP-1	KIJ86HJ	Top Barrel	CASTL		\$0.06		7
	2	BP-2	MIJ86BJ	Bottom Barrel	CASTL		\$0.06		7
	3	BP-5	KII86HJ		CASTL		\$0.00		7
	4	BP-6	MII86BJ		CASTL		\$0.00		7
	5	TR-01	BXE43AC		CASTL		\$0.00		3
Ξ	Supplier/C	ustomer ID :	FENCO (1 item)						
	Part Numb	er	Cross Reference	Description	Supplier/ 🗠	Approved Source	Supplier Pric	Leadtime	
	1	BPP-100	1-UNR-AA		FENCO		\$0.00		0
	Supplier/C	ustomer ID :	GOLDS (2 items)						
	Part Numb	er	Cross Reference	Description	Supplier/ 🗠	Approved Source	Supplier Pric	Leadtime	
	1	IN-01	2935C	Pantone 2935C	GOLDS		\$0.00		4
	2	IN-02	199C	Pantone 199C	GOLDS		\$0.00		4 🗸
1	<								>
							Edit		lose

Only Approved Source parts for each supplier will be displayed.

Summarizing Data Views

To review the average cost variance for each person performing cycle counts in the stockrooms, click on the Inventory>Physical Inventory>Edit/Review Counts>Current Counts. Click the Group icon and move the "Counter" field to the view header.

📽 Inve	entory Tags											
Inventor	y Tags									2 20	Assign Counter 🛛 🔠	1 📕 🛃 💡
Cour	nter 🕗											
🗉 Count	ter : 40-NAW (7	items)										
Tag	lumber	Count Quanti	Counter /	Counted	Part Number	Part Description	Stockroom	Location	SN/Lot	Frozen	Variance Quantity	Variance Cost
1	000033	3999	40-NAW		BP-1	Barrel, Top Half, Blue	RAW	100		3999	0	0.00
2	000034	18200	40-NAW	~	BP-2	Barrel, Bottom Half, Blue	RAW	100		17900	300	15.00
3	000035	10000	40-NAW		BP-3	Ring, Metal .250 diameter	RAW	100	-	10000	0	0.00
4	000036	10000	40-NAW		BP-4	Clip, Pocket Metal 1.5 inch	RAW	100	-	10000	0	0.00
5	000037	8310	40-NAW		BP-5	Barrel, Top Half, Red	RAW	100		8310	0	0.00
6	000038	5210	40-NAW		BP-6	Barrel, Bottom Half, Red	RAW	100		5210	0	0.00
7	000045	15000	40-NAW		CP-1	Ball Point	RAW	100	-	15000	0	0.00
	ter : 44-KNM (8 i	tems)							1			
Tag	lumber	Count Quanti	Counter /	Counted	Part Number	Part Description	Stockroom	Location	SN/Lot	Frozen	Variance Quantity	Variance Cost
1	000046	2300	44-KNM		IN-01	Ink, Blue	RAW	100		2324	-24	-0.24
2	000047	4200	44-KNM		IN-02	Ink, Red	RAW	100	1	4168	32	0.32
3	000048	200	44-KNM		IN-x03	Ink, Special Gold	RAW	200	-	200	0	0.00
4	000050	9000	44-KNM		PL-1	Tube, Upper molded plasti	RAW	100		8999	1	0.04
5	000051	13000	44-KNM		PL-2	Tube, Lower molded plasti	RAW	100	-	12999	1	0.04
6	000052	8000	44-KNM		PL-3	Plunger, Metal .500 inch	RAW	100	-	7999	1	0.02
7	000054	2400	44-KNM		S-01	Spring, Metal .875 inch	RAW	100		2400	0	0.00
8	000056	2800	44-KNM		TR-01	Tubing, Clear Plastic, Full	RAW	100		2811	-11.6666666666	-0.29
E Count	ter : 80-EMH (6 i	tems)						1	1			
TagN	lumber	Count Quanti	Counter /	Counted	Part Number	Part Description	Stockroom	Location	SN/Lot	Frozen	Variance Quantity	Variance Cost
1	000031	2900	80-EMH	~	B-01	Assembly, Barrel, Blue	SA-1	100		2900	0	0.00
2	000032	4200	80-EMH		B-02	Assembly, Barrel, Red	SA-1	100	1	4210	-10	-2.31
3	000043	15000	80-EMH		C-01	Assembly, Cartridge, Blue	SA-2	100	-	15000	0	0.00
4	000044	6300	80-EMH		C-02	Assembly, Cartridge, Red I	SA-2	100		6300	0	0.00
5	000049	0	80-EMH		PL-01	Assembly, Plunger	SA-1	100		0	0	0.00
6	000055	10000	80-EMH		T-01	Tube, Plastic clear 3.25 in	SA-1	100	-	10000	0	0.00
1						100			-	-		3

Next click on the Summary Icon in the View header, the Summary icon will be added to each column in the view.

📽 Inventory Tags	
Inventory Tags	🍰 💑 Assign Counter 🏭 🛃 🌱 🍉
Counter 🔨	
□ Counter : 40-NAW (7 items)	
Tag Number Σ Count Qua Σ Count Δ Count Σ Part Num Σ Part Description	Σ Stockroo Σ Locatio Σ SN/L Σ Froz Σ Variance Quan Σ Variance C Σ

Click the summary button in the column header that you want to summarize (Cost Variance in the example).

0	P Invent	ory Tags														×
In	wentory T	ags										🔏 💑 A	ssign Count	er 🔠	8	3
	Counter															
6	Counter	40-NAW (7 it	ems)													-
	Tag Nun	nber Σ	Count Qua 🗴	Coun 🖉 🗴	Count Σ	Part Num	Σ	Part Description Σ	Stockroo	Σ Locatio Σ	SN/L S	Froz Σ	Variance Qi	uan Σ	Variance C	Σ
	1	000033	3999	40-NAW	~	BP-1		Barrel, Top Half, Blue	RAW	100		3999		0	0.0	0
	2	000034	18200	40-NAW	~	BP-2		Barrel, Bottom Half, Blue	RAW	Select Sum	maries		X	300	15.0	0
	3	000035	10000	40-NAW	~	BP-3		Ring, Metal .250 diameter	RAW					0	0.0	0
	4	000036	10000	40-NAW	~	BP-4		Clip, Pocket Metal 1.5 inch	RAW	Average	e			0	0.0	0
	5	000037	8310	40-NAW	~	BP-5		Barrel, Top Half, Red	RAW	🗌 Count				0	0.0	0
	6	000038	5210	40-NAW		BP-6		Barrel, Bottom Half, Red	RAW	🗖 Maximu	m			0	0.0	0
	7	000045	15000	40-NAW	~	CP-1		Ball Point	RAW					0	0.0	0
Ξ	Counter	44-KNM (8 ite	ems)								n					
	Tag Nun	nber Σ	Count Qua 🗴	Coun 🗠 🗴	Count S	Part Num	Σ	Part Description Σ	Stockroo	Sum				an Σ	Variance C	Σ
	1	000046	2300	44-KNM	~	IN-01		Ink, Blue	RAW			-		-24	-0.2	4
	2	000047	4200	44-KNM	~	IN-02		Ink, Red	RAW			Land	cel	32	0.3	2
	3	000048	200	44-KNM	~	IN-x03		Ink, Special Gold	RAW	200		200		0	0.0	0
	4	000050	9000	44-KNM	~	PL-1		Tube, Upper molded plasti	RAW	100		8999		1	0.0	4

The following summary functions are available: - Average - Count - Maximum - Minimum - Sum.

To view the average cost variance by counter we check the Average box. We now see the summary line for each counter added to the counter group and the average cost variance for each counter displayed. Hold your mouse pointer over the Average to display the actual unrounded figure.

ø	Invento	ry Tags											
Inv	entory Tag	gs									A &	Assign Counter 🛔	8 8 8 3
	Counter	<u>_</u>											
	Tag Numb		Count Que 🔊	Coun / 5		Part Num	Part Description	Stockrop S		SN/L S	E Froz S	Variance Quan 5	Variance C S
	9	000091	2900	30-EWS		B-01	Assembly, Barrel, Blue	SA-1	100	SIVE Z	0	2900	670.87
	Summaries	s for 30-EWS									1		
													Average = 74
	Counter :	40-NAW (7	items) Variance	Cost Avera	ige = 2.14	28571428571	428571428571429		1	-			
	Tag Numb	er Σ	Count Qua Σ	Coun 4 Σ	Count Σ	Part Num	Σ Part Description Σ	Stockroo Σ	Locatio Σ	SN/L Z	S Froz Σ	Variance Quan Σ	Variance C 🛛 🗕 🛽 🛽 🛽 🔊
	1	000033	3999	40-NAW		BP-1	Barrel, Top Half, Blue	RAW	100		3999	0	0.00
	2	000034	18200	40-NAW	V	BP-2	Barrel, Bottom Half, Blue	RAW	100		17900	300	15.00
	3	000035	10000	40-NAW	~	BP-3	Ring, Metal .250 diameter	RAW	100		10000	0	0.00
	4	000036	10000	40-NAW		BP-4	Clip, Pocket Metal 1.5 inch	RAW	100		10000	0	0.00
	5	000037	8310	40-NAW	v	BP-5	Barrel, Top Half, Red	RAW	100		8310	0	0.00
	6	000038	5210	40-NAW	V	BP-6	Barrel, Bottom Half, Red	RAW	100		5210	0	0.00
	7	000045	15000	40-NAW		CP-1	Ball Point	RAW	100		15000	0	0.00
	Summaries	s for 40-NAW	/										
				~	0.01								Average = 2
	Counter : -	44-KNM (8 1	Items) Variance	Cours S	ge = -0.01	39583333333	32875			CNU S	El Ston S	Verinnen Ourn S	Marianaa C. S.
	1 ag Numb 1	er Z	2300	44-KNM		IN-01	Ink Blue	BAW	LOCAUU Z	SN/L 2	2324	variance guan Z	-0.24
	2	000047	4200	44-KNM		IN-02	Ink Bed	BAW	100	-	4168	32	0.32
	3	000048	200	44-KNM		IN-x03	Ink, Special Gold	BAW	200	-	200	0	0.00
-	4	000050	9000	44-KNM		PL-1	Tube, Upper molded plasti	BAW	100	3	8999	1	0.04
	5	000051	13000	44-KNM		PL-2	Tube Lower molded plasti	BAW	100	-	12999	1	0.04
	6	000052	8000	44-KNM		PL-3	Plunger Metal 500 inch	BAW	100	-	7999	1	0.02
	7	000054	2400	44-KNM		S-01	Spring Metal 875 inch	BAW	100	-	2400	0	0.00
	8	000056	2800	44-KNM		TB-01	Tubing Clear Plastic Full	BAW	100	-	2811	-11.666666666	-0.29
1	Summaties	for 44-KNM				1110.	rabing, older risting, rami		1.00			11.000000000000000000000000000000000000	
	Jummanos	5101 44-151414											Average = -0
	Counter : '	80-EMH (6 i	items) Variance	Cost Avera	ge = -0.38	555555555555555555555555555555555555555	55						~
1													>

To Export Data from a View

Select the Export icon on the top of the view window, the following Export Options window is displayed.

🏶 Export Options		
Export To: Export Columns: Tag Number Count Quantity Counter Counted Part Number Part Description Stockroom Location SN/Lot Number Frozen Quantity Variance Quantity Variance Cost Job Number	Microsoft Excel Clea Microsoft Excel Comma Delimited File Tab Delimited File HTML File	
Cancel		Ok

Click on the Drop Down List Box to choose the export format. You are also presented with a list of all of the columns in the view. The check boxes indicate which columns will be exported. Uncheck if you do not want the column exported.

Inventory Tags Counter Assign Counter 1 000033 200 SUEVS V BPP-100 Assembly. Bail Point Pen, PENS 100 FEN1 0 0 0 0 0 0 0 0 0 0 0	s ^e Inventory Tags												
Counter Counter: (2 terms) Counter: 300004 Counted Part Number Part Description Stockroom Location SN/Lot Frozen Variance Quantity 1 000039 200 30EWS PP-100 Assembly. Ball Point Pen PENS 100 200 00 2 000040 1400 30EWS P BPP-200 Assembly. Ball Point Pen PENS 100 FEN-1 1400 00 3 000041 1000 30EWS P BPP-200 Assembly. Ball Point Pen PENS 100 FEN-1 1400 00 0 <td< td=""><td>🗏 🛃 💎 🍛</td><td>Assign Counter 🏭</td><td>🔏 💑 A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ory Tags</td><td>Inve</td></td<>	🗏 🛃 💎 🍛	Assign Counter 🏭	🔏 💑 A									ory Tags	Inve
B Counter: (2 kems) Counter: 30EWS (9 kems) Counted Part Number Stockroom Location SN/Lot Frozen Variance Quantity 1 000039 200 30EWS W BPP-100 Assembly. Ball Point Pen PENS 100 200 0 2 000040 1400 30EWS W BPP-200 Assembly. Ball Point Pen PENS 100 FEN-1 1400 00 3 000041 1000 30EWS W BPP-200 Assembly. Ball Point Pen PENS 100 FEN-1 1400 0 4 000042 0 30EWS Ø BPP-200 Assembly. Ball Point Pen PENS 100 0												unter 🛆	(
Counter: Count Quanti Co	_											unhari (2 itama)	
Tag Number Count Quanti Count et // Count Count et // Count Count et // Count Count et // Count Count Part Description Stockroom Location SN/Lot Frozen Variance Quantity 1 000039 200 30-EWS V BPP-100 Assembly, Ball Point Pen, PENS 100 200 0 2 000040 1400 30-EWS V BPP-200 Assembly, Ball Point Pen, PENS 100 1000 0 0 4 000042 0 30-EWS V BPP-300 Custom Ball Point Pen, PENS 100 <	^										tems)	unter : 30-FW/S (9 i	
1 000033 200 30-EWS V BPP-100 Assembly, Ball Point Pen, PENS 100 200 0 2 000040 1400 30-EWS V BPP-100 Assembly, Ball Point Pen, PENS 100 FEN-1 1400 00 3 000041 1000 30-EWS V BPP-200 Assembly, Ball Point Pen, PENS 100 1000 0 4 000042 0 30-EWS V BPP-x300 Custom Ball Point Pen, Re PENS 200 0<	Variance Cost	Variance Quantity	Frozen	SN/Lot	Location	Stockroom	Part Description	Part Number	Counted	Counter 4	Count Quanti	g Number	T
2 000040 1400 30-EWS W BPP-100 Assembly, Ball Point Pen, PENS 100 FEN-1 1400 00 3 000041 1000 30-EWS W BPP-200 Assembly, Ball Point Pen, PENS 100 1000 0 0 4 000042 0 30-EWS W BPP-300 Custom Ball Point Pen, Re PENS 200 0 0 0 5 000059 2900 30-EWS V S-01 Spring, Metal.875 inch ENG cap 0.473. -0.4739999993. 6 000059 2900 30-EWS V B-01 Assembly. Barle Blue S-1 100 0 2900 -2900 7 000089 0 30-EWS V B-01 Assembly. Barle Blue S-1 100 0 2900 -2900 -2900 8 000091 200 30-EWS V B-01 Assembly. Barle Blue S-1 100 0 2900 -2900 -2900 -2900 -2900 -2900 -2900 -2900 </td <td>0.00</td> <td>0</td> <td>200</td> <td></td> <td>100</td> <td>PENS</td> <td>Assembly, Ball Point Pen,</td> <td>BPP-100</td> <td>~</td> <td>30-EWS</td> <td>200</td> <td>000039</td> <td>1</td>	0.00	0	200		100	PENS	Assembly, Ball Point Pen,	BPP-100	~	30-EWS	200	000039	1
3 000041 1000 30-EWS W BPP-200 Assembly, Ball Point Pen, me, PENS 100 1000 0 4 000042 0 30-EWS W BPP-x300 Custom Ball Point Pen, Re, PENS 200 0 0 0 5 000053 0 30-EWS V 5-01 Spring, Metal .875 inch ENG cap 0.473. -0.47939999939. 6 000059 2900 30-EWS V R-01 Assembly, Barrel Blue SA1 100 0 2900 -2900 7 000089 0 30-EWS V R-01 Assembly, Barrel Blue SA1 100 0 2900 -2900 8 000090 4200 30-EWS Export Options - 4200 0 2900 2900 2900 2900 2900 2900 2900 2000 2900 2900 2000 2900 2000 0 2900 2000 2900 2000 2900 2000 2000 2000 2000 2000 2000 2000 2000 2000	0.00	0	1400	FEN-1	100	PENS	Assembly, Ball Point Pen,	BPP-100		30-EWS	1400	000040	2
4 000042 0 30-EWS V BPP-x300 Custom Ball Point Pen, Re. PENS 200 0 0 0 5 000053 0 30-EWS V S-01 Spring, Metal.875 inch ENG cap 0.479. -0.4793999999 6 000059 2900 30-EWS V R-01 Assemblu. Banel. Blue S-01 100 0 2900 7 000089 0 30-EWS V Export Options 2900 -2900 -2900 8 000090 4200 30-EWS Export To: Microsoft Excel V 4200 0 2900 9 000013 3995 40-NAW Count Quanti Count Quanti V atom SN/Lot Frozen Variance Quantity V 1 000033 1999 40-NAW V Count Quanti Variance Quantity Variance Quantity 17900 300 2 000034 18200 40-NAW Variance Quantity Variance Cost 10000 0 17900 300 5 000038 5210 </td <td>0.00</td> <td>0</td> <td>1000</td> <td></td> <td>100</td> <td>PENS</td> <td>Assembly, Ball Point Pen,</td> <td>BPP-200</td> <td></td> <td>30-EWS</td> <td>1000</td> <td>000041</td> <td>3</td>	0.00	0	1000		100	PENS	Assembly, Ball Point Pen,	BPP-200		30-EWS	1000	000041	3
5 000053 0 30-EWS V S-01 Spring, Metal. 875 inch ENG cap 0.479 -0.4799999999 6 000059 2900 30-EWS P B-01 Assemble Rarrel Rive S-1 100 0 2900 7 000089 0 30-EWS P Export Options 2900 -2900 -2900 8 000090 4200 30-EWS Export Options 2900 -2900 -2900 9 000091 2900 30-EWS Export Columns: Clear All Select All 4200 0 2900 1 000033 3999 40-NAW V Tag Number Variance Quantity V 3999 0 0 2900 -2900 2 000035 10000 40-NAW Variance Quantity Variance Quantity 10000 0 0 10000 0 0 10000 0 0 10000 0 0 10000 0 0 10000 0 0 10000 0 0 10000 0 0 <td>0.00</td> <td>0</td> <td>0</td> <td></td> <td>200</td> <td>PENS</td> <td>Custom Ball Point Pen, Re</td> <td>BPP-x300</td> <td>~</td> <td>30-EWS</td> <td>0</td> <td>000042</td> <td>4</td>	0.00	0	0		200	PENS	Custom Ball Point Pen, Re	BPP-x300	~	30-EWS	0	000042	4
6 000059 2900 30-EWS Fit R-01 Assemble Ratel Rive SA-1 100 0 2900<	-0.01	-0.47999999999	0.479		сар	ENG	Spring, Metal .875 inch	S-01	~	30-EWS	0	000053	5
7 000089 0 30-EWS Image: Export Options 2900 -2900 8 000090 4200 30-EWS Export To: Microsoft Excel 4200 0 9 000091 2900 30-EWS Export To: Microsoft Excel 0 2900 Counter: 40-NAW (7) tems) Export Columns: Clear All Select All Image: Count Quantity 0 2900 2900 1 000033 3999 40-NAW Image: Counter Image: Counter 0 2900 3999 0 2 000034 18200 40-NAW Image: Counter Counter 3999 0 3 000035 10000 40-NAW Image: Counter 10000 0 0 3999 0 4 000036 10000 40-NAW Image: Counter 10000 0	670.87	2900	0		100	SA-1	Assembly Barrel Blue	B-01		30-EWS	2900	000059	6
8 000090 4200 30-EWS Export To: Microsoft Excel 4200 0 9 000091 2900 30-EWS Export To: Microsoft Excel 0 2900 Counter: 40-NAW (7) tems) Export Columns: Clear All Select All Select All 400 2900 1 000033 3999 40-NAW Counter Counter 3999 0 2 000034 18200 40-NAW Counter Counter 3999 0 3 000035 10000 40-NAW Part Number Counter 10000 0 4 000036 10000 40-NAW Part Number Stockroom 10000 0 5 000037 8310 40-NAW Variance Quantity Stockroom 3310 0 0 6 000038 5210 40-NAW Variance Cost Variance Cost 15000 0 0 Variance Cost Variance Cost Variance Cost Variance Cost Variance Cost 0 0 0	-670.87	-2900	2900		×		5	port Option	🏶 Ex	30-EWS	0	000089	7
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□ Counter: 44KNM (8 items) □ Tag Number □ Count Quanti □<	0.00	0	15000				tity	/ariance Quant		40-NAW	15000	000045	7
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1 000045 7300 A4KNM Concol 0k 7324 -24	Variance Cost	Variance Quantity	Frozen	SN/Lot	ation					Counter 4	Count Quanti	g Number	T
	-0.24	-24	2324			<u>Ok</u>		Cancel		44-KNM	2300	000046	1
	0.32	32	4168		000	DAVA		111 00		44-KNM	4200	000047	2
3 UUU48 ZUU 44-KNM V IN-KUS Ink, special Gold HAW ZUU 200 0	0.00	0	200		200	HAW	Ink, Special Gold	IN-xU3	~	44-KNM	200	000048	3
4 UUUUU 3UUU 44-KNM V PL-I IUbe, Upper molded plasti. HAW 100 8999 1	0.04	1	8999		100	HAW	Tube, Upper molded plasti	PL-I		44-KNM	9000	000050	4
5 UUUU5 J JUUU 44-KNM V PL-2 JUB, Lover molded plast. HAW JUU 12999 1	0.04	1	12999		100	RAW	Tube, Lower molded plasti	PL-2		44-KNM	13000	000051	5
6 UUUU52 8UUU 44-KNM V PL-3 Plunger, Metal.500 inch RAW 100 7999 1	0.02 🗠	1	/999		100	HAW	Plunger, Metal .500 inch	PL-3	~	44-KNM	8000	000052	6

Click Ok, wait while the data is exported. The exported data will be displayed in the format indicated.

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	A	В	С	D	E	F	G
1	Tag Number	Count Quantity	Counter	Part Number	Part Description	Stockroom	Location
2	57	2900		B-01	Assembly, Barrel, Blue	SA-1	100
3	58	0		B-01	Assembly, Barrel, Blue	SA-1	100
4	39	200	30-EWS	BPP-100	Assembly, Ball Point Pen, Blue	PENS	100
5	40	1400	30-EWS	BPP-100	Assembly, Ball Point Pen, Blue	PENS	100
6	41	1000	30-EWS	BPP-200	Assembly, Ball Point Pen, Red	PENS	100
7	42	0	30-EWS	BPP-x300	Custom Ball Point Pen, Red, Stamped with Gold	PENS	200
8	53	0	30-EWS	S-01	Spring, Metal .875 inch	ENG	сар
9	59	2900	30-EWS	B-01	Assembly, Barrel, Blue	SA-1	100
10	89	0	30-EWS	B-01	Assembly, Barrel, Blue	SA-1	100
11	90	4200	30-EWS	B-02	Assembly, Barrel, Red	SA-1	100
12	91	2900	30-EWS	B-01	Assembly, Barrel, Blue	SA-1	100
13	33	3999	40-NAW	BP-1	Barrel, Top Half, Blue	RAW	100
14	34	18200	40-NAW	BP-2	Barrel, Bottom Half, Blue	RAW	100
15	35	10000	40-NAW	BP-3	Ring, Metal .250 diameter	RAW	100
16	36	10000	40-NAW	BP-4	Clip, Pocket Metal 1.5 inch	RAW	100
17	37	8310	40-NAW	BP-5	Barrel, Top Half, Red	RAW	100
18	38	5210	40-NAW	BP-6	Barrel, Bottom Half, Red	RAW	100
19	45	15000	40-NAW	CP-1	Ball Point	RAW	100
20	46	2300	44-KNM	IN-01	Ink, Blue	RAW	100
21	47	4200	44-KNM	IN-02	Ink, Red	RAW	100
22	48	200	44-KNM	IN-x03	Ink, Special Gold	RAW	200
23	50	9000	44-KNM	PL-1	Tube, Upper molded plastic, 1.750 inches long	RAW	100
24	51	13000	44-KNM	PL-2	Tube, Lower molded plastic, .375 inches long	RAW	100
25	52	8000	44-KNM	PL-3	Plunger, Metal .500 inch	RAW	100
26	54	2400	44-KNM	S-01	Spring, Metal .875 inch	RAW	100
27	56	2800	44-KNM	TR-01	Tubing, Clear Plastic, Full Roll	RAW	100
Ready	Y					NUM	

NOTE:

If you selected Clipboard, open the document you want to enter the data in and select Edit>Paste.

View Screen Buttons

Icons on the top of the view window give you options for working with the data.

	👪 🛅 💑 🌱 🍉
Δ	
	Edit Close

Group Group Click on this button or use CTRL + G to activate the column Grouping section of the view window.

🗳 Part Cross Refe	rence View - A	l					
Part Cross Reference	e View - All				<u>e</u> a	5 🛅 🛃 🐐	? 🍑
Drag a column hea	der here to group	by that column.					
Part Number	Cross Reference	Description	Supplier/Cu	Approved Source	Supplier Pric	Leadtime	

Filter Click on this button or use CTRL + F to insert a Filter row at the top of each column in the view.

🕫 Part Master View - All										
Part Master View - All					👸 📑 🕹 💡	-				
Part Number	Description	Rev	Stock UOM	UOM Description	Department Code	~				
	A	A	A	A	A					

Summary Summary Feature of the view window.

💣 Inventory Lo	ots View - All			
Inventory Lots View	ı - All			👪 🔝 🕹 🜱 🎐
Part Number	∑ Part Description	Σ Quantity Σ Stockroom	Σ Location Σ Cost	Σ SN/Lot Numbe Σ

Export ⁴³ Click on this button to activate the Export feature of the view window.

Print After you have sorted, grouped or filtered a view you may print the view by clicking the Print button.

Edit Select an item and click Edit to open a data entry form for the item.

Close Click Close to close the data view.

NOTE:

On Data Views, the double-click event always activates the highlighted (default) button, normally the Edit button. For custom views contact Account Management.

Data Entry Forms

All information is entered into the system via data entry forms. Whether you are working with products, customers, suppliers, sales orders, or other information, you will find a data entry form associated with the function you're using. Fields available on data entry forms differ, depending on the record and table you are maintaining. When you select an item from a data view or execute an Edit query from the menu, a data entry form opens.

Maintaining and Adding Data

As with data views, you can use the sidebar to "drill down" through data related to the item. For more detailed information about specific data entry forms, see the section related to the function of interest. There are two (2) Easy Entry forms in the system; one (1) each for Sales Orders and Purchase Orders, see the section related to each function for additional information on these forms.

Key fields are normally displayed at the top of the form. If the record contains many fields, the form may display related fields on separate tabs.

Data Entry Form Buttons

Buttons on the bottom of the edit form give you various options for working with the data. Default options are active depending on which data edit form you open. Each button is briefly described below.

Links Click Links (Links button is enabled only if sidebar is hidden) to view the Related Views, Related Edit Screens and Related Reports tabs.

OK Click OK to save any changes and close the data edit form.

Close Click Close to close the data form (if changes were made and not saved a warning will be displayed).

📽 Part Master			
Part Number	BPP-100	Revision	β
Description	Assembly, Ball Point Pen, Blue	Inactive	
Engineering Notes MRP	Planning Inventory Codes Part Costs Statistics		
Stock LIDM	FA Fach		
Density Code			
Weight	.058 lb		
Dimension	.375in x 5.375in		
Special Storage			
Shelf Life	0.00		
User Defined 1			
User Defined 2			
Graphic Path	C:\AMS\PEN\BPP100.BMP		Show Graphic
L			
			OK Close

Key Fields

Every record in a table must contain unique data in key fields. When entering a new record, if a key field is left blank, an "invalid" icon will appear next to the field. When you place the cursor over the icon, an error message will be displayed "Field cannot be empty" (Key fields are always required). Once valid data is entered, the invalid icon changes to a check mark, and if all other required information has been entered, the record can be saved.

Validated Fields

Many fields on the data entry forms are validated to ensure system integrity. The system will accept only valid data in these fields. An invalid icon appears next to the field and continues to display until you enter valid data. You will be unable to save a record until all validated fields contain valid data.

Invalid Red X icon. Indicates a field contains invalid information.

Green Check **V**icon. Indicates a field has been changed.

Hyperlink Stock UOM Click to select data from a table.

Optional Fields

All remaining fields are optional and may remain blank, if entered some may require validation (Codes). Any information you enter in optional fields will appear in windows and can print on reports. Optional data can also be sorted in views and some will be transferrable to accounting packages.

Saving a Record

When you click OK in a data entry form, your entry is saved, the record is added to the database, and the edit form closes. When you click the Save button on the Toolbar or use the Control + S keys, the record is saved and you can continue to work with the data entry form, entering optional information, selecting various tabs, or "drilling down" through various related **tables** Standardized information sets that uniformly describe and categorize data fields. For example, a stockroom table contains a list of stockrooms along with several fields of information that convey information about each stockroom. The type of information held is standard for each stockroom.

Canceling an Entry

Click Close before you click OK or Save to exit a data entry form without saving your entries. You will receive a warning message.

Detail Records

Some records (sales orders and purchase orders, for example) contain multiple detail records as line items. Line item One item on a customer order or purchase order, regardless of quantity. details are usually added in data entry forms via the Lines detail tab. From here you can review or edit any existing lines, delete lines or add new ones.

📽 Pur	chase	Order							
Purcha <u>Suppli</u>	ase Orde e <u>r ID</u>	er	P000080003 ASSMB Assembly Tech	Supplier Def h. Co., Inc. (ATC)	iaults Entere Closed	d By Flag	Easy Entry SUPERVISOR		
Order	Suppli	er Lines	Notes						
Add		PO Line	Part Number	Kit Part Flag	PO Unit Price	Quantity Ordered	Quantity Received	Quantity RTV	Required
	1	001	BP-1	No	\$0.05	4,000.00	4,000.00	0.00	8/31/200
Edit	2	002	BP-5	No	\$0.05	4,000.00	4,000.00	0.00	8/31/200
	3	003	BP-5	No	\$0.05	4,690.00	0.00	0.00	9/14/200
	4	004	BP-6	No	\$0.05	9,000.00	9,000.00	0.00	8/31/200
Delete	5	005	BP-1	No	\$0.05	4,504.00	0.00	0.00	9/14/200
	<	0)							>
PO Tot	al Amou	int	\$1	,309.70	PO R	emaining Amount	\$4	59.70	
								OK	Close

NOTE:

New line entries and line changes are saved when you return to and save the header.

Transaction Forms

Transaction Forms provide the means to record the movement of parts and materials in and out of inventory and between locations. For example, you will use these forms when you ship and receive materials, kit and complete work orders, etc. These forms have multiple tabs for recording and viewing information pertaining to transactions.

Transaction PO Receipt - PO Detail Tab

📽 PO Recei	pts							
PO Number P000080003 Receipt Date 11/2/2005 Image: Close Purchase Order				Entered By Tran Group	SUPERVIS	DR -1		
PO Details R	eceipts	Notes						
bbA		PO Line	Part Number	Remaining	Quantity Ordered	Quantity Received	Quantity RTV	Required
	1	001	BP-1	0.00	4,000.00	4,000.00	0.00	8/31/200
Edit	2	002	BP-5	0.00	4,000.00	4,000.00	0.00	8/31/200
Delete	3	003	BP-5	4,690.00	4,690.00	0.00	0.00	9/14/200
Delete	4	004	BP-6	0.00	9,000.00	9,000.00	0.00	8/31/200
All	5	005	BP-1	4,504.00	4,504.00	0.00	0.00	9/14/200
Receive Line	<]						>
							OK	Close

PO Receipt - Receipts Tab

📽 PO Receipts					
<u>PO Number</u> Receipt Date Close Purchase Order	P000080003		Entered By Tran Group	SUPER	VISOR -1
🖌 PO Details 🖌 Recei	ots Notes				
Add PO Line	Part Number	Quantity Received	Stockroom Code	Location Code	SN/Lot Number
	BP-5	4,690.00	RAW	100	Lot200500111
					>
					OK Close

After a line is selected and received a transaction edit form is displayed. You may add additional information about the transaction here.

Alliance/MFG User Guide

📽 Receipts			
PO Number <u>PO Line</u>	P000080003	Part Number Closed Flag	BP-5
Stockroom Code Location Code SN/Lot Number Job Number Quantity Received	RAW 100 ↓ Lot200500111 ↓ 4,690.00 SN/Lot Information	Raw Materials/Purchased Parts	
Tran Info	🖌 Package has slight damag	je	
			Close

You may also drill down to record additional data concerning the transaction such as transaction information/text or you may also click on the SN/Lot Information button to record additional SN/Lot data, such as notes, expiration date, warranty date, maintenance date, etc.

📽 SN/Lot Information		
Part Number	BP-5	
	Barrel, Top Half, Red	
SN/Lot Number	Lot200500111	
SN/Lot Information Notes		
Expiration Date	11/ 2 /2005 💌	
Maintenance Date	11/ 2 /2005 🔽	
Warranty Date	11/ 2 /2005 💌	
		Close

All data entered on a transaction form (shipping a sales order or receiving a purchase order) is also recorded in the Transaction Log. Alliance/MFG has twelve (12) transaction types. Detailed information about using each transaction type can be found in the help topics that describe each function (Demand, Supply, etc.) and also in the Inventory Control>Transactions section.

Other Controls and Functions

This section describes other types of controls and functions found within Alliance/MFG.

Date Calendars

You'll find drop-down calendar boxes on every window and dialog box in the system where dates must be entered or changed.

TIP

Use the date check box to indicate the date is active. Clear the check box to disable the date.

III/ 2 /2005 ✓ You can highlight and edit a date here, or . . . click the down arrow to access a drop down calendar box.

November 2005						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	1	0	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3
4	5	6	7	8	9	10
C) Today: 11/2/2005						

To change dates in a calendar box

- 1. Click the down arrow on a date box to open a calendar box.
- 2. Click the left or right arrows to scroll to the appropriate month.
- 3. The calendar defaults to "today's" date; you can select a different date.

The system will prompt you to enter both start and stop dates if required. If the date you enter has already passed, a caution icon will appear. If the date is still appropriate, you may go ahead and enter it.

NOTE:

The system will use 12 hour or 24 hour time keeping, depending on your windows regional settings.

Hyperlinks

On Edit Forms you can enter data directly into fields; or if the field is linked to a table, you can click the hyperlink to access and select data. When a field is linked to a table via a hyperlink, the field title is underlined. You can also place the cursor in a hyperlink field and press F3 to open the linked View. Right click the Hyperlink to open a drop-down list of predefined queries, or left-click to use the default query.

Hyperlinks

Part Number	B-01			Rev	ision	A
Description	Assembly, Ba	arrel, Blue		Inac	tive	
ngineering Notes M	IRP Planning Inv	ventory Co	odes Part Co:	sts Statistics		
		📽 Uni	it of Measur	e Codes View - All		
Charle LION	F A	Unit	of Measure Co	des View - All		
STOCK UUM	EA	иом с	ode	Description	Type Desc	UOM Conversion
Density Code		1	▶ BX	Box	Unit	100
Weight		2	DZ	Dozen	Unit	12
n oight		3	EA	Each	Unit	1
Dimension	9mm x 13	4	FO	Fluid Ounce (Volum	Volume	1
Special Storage		5	FT	Foot	Length	12
Shelf Life		6	GL	Gallon	Volume	128
		7	GR	Gross	Unit	144
User Defined 1		8	IN	Inch	Length	1
User Defined 2		9	LB	Pound	Weight	16
		10	OZ	Ounce (Weight)	Weight	1
Graphic Path		11	PK	Package	Unit	1000
		12	PR	Pair	Unit	2
		13	RL	500' Roll	Length	6000
		14	SQIN	Square Inch	Area	1

Submenu options

The system also provides a number of ways to access and enter data from a main menu function using submenu options. After selecting a function, select a menu item and then a submenu option. Supply>Work Orders>

Purchase Orders	•	
Suppliers	×	
Work Orders	•	New
Kitting	•	Edit
DeKitting	•	All
Receive a Purchase Order		By Department Code
Return a Purchase Order		By Job Number
Complete a Work Order		By Part Number
	_	By Required Date
Reports	•	By Planner/Scheduler
		By WO Number
		Firm Orders
		Released Orders
		Past Due Orders

Basic Queries

New

When you select New from a submenu, a blank data entry form opens for the item selected.

Edit

When you select Edit from a submenu, you will be prompted for the value of the record you wish to edit (Part Number, SO Number, Supplier ID, etc.).

All

All will display all table records in a data view. This may be slow if the table is large. Try to narrow your search by using the predefined queries.

Predefined Queries

With large databases, you can limit your query to a specific range of data. Depending on the menu item selected, a number of predefined queries will be available on the submenu. For example, to query sales orders by customer id, enter a Customer ID in the field and click Apply to view all sales orders for the customer ID selected. An asterisk icon next to the field indicates that you can use wild cards to locate a range of data.

🗳 Sales Orders View	- By Customer ID	
Queries	By Customer ID	~
Customer ID	k	
		Apply Close

Click on the down arrow to display a drop down list of available queries.

🗳 Sales Orders View	- By Customer ID	
Queries	By Customer ID	~
Customer ID ;	By Customer ID By Customer PO By Job Number By Order Date By Part Number	
	By Required Date By SO Number By Sales ierson	*

Using Wild Cards

If you don't know the exact information you need for a query, you can substitute wild cards for the unknowns, or to query a range of data. When an asterisk icon appears on a query window, hold the cursor over the icon to display valid wild cards. (Examples shown inside quote marks should be used without the quote marks.)

* Matches any number of characters. It can be used as the first or last character in the character string. You can use "wh*" to find: what, white, and why.

? Matches any single alphabetic character. "B?II" for example, would find ball, bell, and bill.

[] Matches any character within the brackets. For example, "B[a,e]II" finds ball and bell but not bill.

- Matches any one of a range of characters. You must specify the range in ascending order (A to Z, not Z to A). For example, "b[a-c]d" finds bad, bbd, and bcd, but not bmd.

! Matches any character not in the brackets. For example, "b[!ae]II" finds bill and bull but not bell.

Custom Queries

Alliance/MFG predefined queries were created by experienced manufacturing and materials planners, and at the requests and expressed needs of our customers. However, if you don't find a query that meets your needs, you can create your own. See the Technical Reference, Chapter 5: Reports & Queries, for information about creating custom queries.

Alliance/MFG Process Flow

Manufacturing Process Flow

The Alliance/MFG process flow chart below briefly summarizes the steps to enter an order and follow it through planning, purchasing components, manufacturing, and finally shipping. It assumes a basic bill of materials.

Part A - Make Part

Part B - Buy Part

Part C - Buy Part

Part D - Buy Part

From here you can reference the User Guide Chapters that discuss the various operations in each step.

Alliance/MFG PROCESS FLOW

STEP 1 Create and enter Part Master, Bills of Material and Inventory data for all of the parts. See Products, Part Master; and Inventory, Part Maintenance.

STEP 2 Enter demand on your system; in this case, a Customer Sales Order for part A. *See Demand, Customers, Entering Sales Orders.*

STEP 3 Run MRP that will recommend POs for buy parts B, C, and D, and a WO for make part A. Accept the suggestions and place the orders. *See Material Requirements Planning, Scheduling POs & WOs from MRP.*

STEP 4 Receive the material on the Purchase Orders, which will update your inventory quantities for buy parts B, C, and D. *See Supply, Receiving Purchase Orders.*

STEP 5 Release the Work Order for make part A to the shop floor using the Kitting function. This will update the quantities in stock for buy parts B, C, and D. See Supply, *Releasing & Kitting Work Orders.*

STEP 6 As the Work Order moves through the shop floor, direct labor can be applied to the work order through the Labor Distribution function. See Shop Floor Control, Labor Distribution.

STEP 7 When all work has been completed, complete the work order through the WO Completions function. This will update your inventory quantity for the final assembly , part A. See Supply, Work Order Completions.

STEP 8 Finally use the Shipping function, send the finished goods to your customer, and update the quantity of make part A you have in stock. See Demand, Shipments and *Returns.*

Setting Up Your Company



System Implementation

Create an Implementation Plan

This section describes how to set up and customize Alliance/MFG to perform according to your company's specific set of operating parameters. It is important to establish an implementation plan before you begin creating your company and entering data. If you have not yet created an Implementation Plan, see the Alliance/MFG Technical Reference, Implementing the System, or see your Alliance/MFG Getting Started booklet for additional resources to help you put together your plan.

NOTE:

Descriptions and procedures presented in this section assume familiarity with Alliance/MFG's Data View List and Data Entry forms, hyperlinks, and other system elements. These elements are discussed in detail in the section on Navigating Alliance/MFG. We recommend that you read the section on Navigating Alliance/MFG and understand the elements before beginning any procedures described in this section.

File Menu functions

The File menu gives you access to the features you'll use to create and access your company database. From here, you'll define your company preferences for elements such as sales order, purchase order, and work order number formats, date formats; and define your company codes tables such as department numbers, region codes, tax codes, and so on. The options on the File menu include the following functions.

Database - Select Database to log in and log out of databases in the system, set up security access for database users, create new databases, perform database utilities and import and export data to the system.

Company - Select Company to set up your company name and address information, holiday calendar, employee files, and define your company preferences.

Codes - Select Codes to set up all your company codes tables. (With a few exceptions noted in the appropriate sections, codes must be set up to facilitate setting up most other system functions.)

Print - Select Print to preview or print a selected Alliance report. From the Print option you may also select a different printer.

Exit - Select Exit to exit Alliance/MFG, all open windows will be closed. If data changes have been made and not saved, you will be warned.

All except *Exit* are described in detail in the following sections.

Database

A database is a collection of information associated with a specific entity, such as your company. Your manufacturing database will contain all the information about your company's products and product structures; customers, suppliers, and employees, and your inventory. Alliance/MFG supports multiple databases, each with a unique name (identifier) and unique information. The number of databases you maintain will depend on your company organization and its products. For example, if your company has different business segments with different customers and suppliers, you could create a second database for that segment.

To learn how to work with the system, you can first login to the sample Pen database that was supplied with your system. After you are familiar with how customers, suppliers, parts and other elements are added and managed in the system, you can create your own database using one of the start-up options described in the following section. (See Creating a New Database, later in this section, and be sure to review database information in your Alliance/MFG Technical Reference.)

Choosing a Database

The Alliance/MFG system offers one ready-to-use sample database (the Pen database) and two templates for creating your own databases. If you have already migrated your existing data you can also select that database to login to.

PEN Database

The Pen database contains sample company data that you can use to experiment with the system and familiarize yourself with its features. It represents a ball point pen manufacture and has sample sales orders, forecasts, purchase orders and inventory. You can add, edit, and delete data; perform transactions within this database, and practice working with MRP without fear of altering your own vital company information.

Default Database

The default database contains data commonly used in many of the codes tables, such as units of measure, shipping methods, and terms. You can use this database as a shortcut to help you set up your codes tables more quickly than if you were to start from a blank database. You can log in to this database, review the tables, and if the data is similar enough to require minor editing, you can save time by starting here.

Blank Database

The blank database template contains no data. You enter all the necessary information into all data tables. If the default database would require too much editing to fit your company's parameters, this is the place to start.

NOTE:

After you create either type of database, or migrate your data you must add the database through the Alliance Data Connection dialog box, prior to logging in.

Database Menu Options

Once you start Alliance/MFG and the main menu appears on your screen, you must log in to the database you want to work with from the Alliance Data Connection dialog box. If you installed the Pen database, it will appear in the Alliance Data Connection field when you select Login.

Login

To login to a database:

- 1. Select File>Database>Login. The Alliance Data Connection dialog box opens.
- 2. Select a database from the drop-down list.
- 3. Click Login. After a moment, the Alliance Data Connection dialog box closes and you can access the database from all the system menu options. This may take a while as the system loads. All system users must login. The number of concurrent users is controlled by the system license.

Alliance Data Connection	
Alliance Data Connection Pen Database C:\Program Files\Alliance\MFG\Sample Database\Pen.mdb	
User Name	SUPERVISOR
Password	
Login Add Access Connection Add SQL Connection Rename Connection Delete Connection Close	

Logout

Click Logout to exit this database, this does not close the application. Choose a valid database and login to resume.

Security

Access to functions, tables, and even specific fields on forms in the system can be enabled or disabled for individual users. If as a user you find that some menu items are dimmed, or that "padlock" icons appear next to fields on a data entry form or other dialog box, it means that you have not been given full access to those features.

Supervisor rights give you full access to all system elements. You can assign limited rights to different employees as necessary; the system can add or limit employee access to specific features, reports, and even specific fields on a window. Security allows None, Read Only, and Read/Write privileges.
📽 Security		
Employees Employee ID Employee Name 20-HCC Heather Confrey 30-EWS Elizabeth Sorense 40-NAW Nicolas Weitz 44-KNM Kyle Morgan 50-JDD Josef Dorovsky 55-JAT Julie Tierney 80-EMH Ellen Hailey 90-KEM Katya Marenko SUPERVISOR Created by MFG : Supervisor Security Rights Status	Security Alliance/MFG ABC Analysis Acknowledgement Report Backup Bill of Materials Report Blanket Order Detail Blanket Order Header Blanket Order Report Blanket Order Summary Blanket Order Summary BOM Assembly Description Assembly Revision BOM BO	
Password Copy Security		OK Close

System security access is usually controlled by the System Administrator or Supervisor. For more information about assigning access to individuals, see the Alliance/MFG Technical Reference.

Change MSDE Password

If you are using MSDE you may want to periodically change the server's password. The password should be known by your System Administrator and/or a Supervisor. It is important to remember the password and to make sure that it can be accessed even during personnel changes. If you loose or forget your password Alliance may not be able to help you access your data.

NOTE:

The MSDE instructions described here are for MSDE Databases only. Microsoft SQL Server 2000, SQL Server 2005 and SQL Express all come with there own Administration Tools.

Create a New Database

Databases are usually created by a System Administrator or Supervisor. Detailed information about creating a new database is presented in the Alliance/MFG Technical Reference. To create a new database you must first select the format, Blank or Default, then the database type, Access or MSDE/SQL Server.

To create a new Access database, you must give it a file name and supply the path to it. You can use the Database Path hyperlink to drill down and insure path accuracy.

To create a new MSDE/SQL Server database, click on the MSDE/SQL Server tab, enter the Server Admin Name, Password, the Server Name and the Database name.

Once it's created, it will be available to add to and select from the Alliance Data Connection dialog box.

📽 Create	database		
💿 Blank D	atabase	🔘 Default Database	
MS Access	MSDE / SQL Server		
Database F	Path		
			<u>_</u>
Create datat	base		Close

Compact MDB Database

It is important to maintain your database in its most compact form. Database management is usually performed by a System Administrator or Supervisor. Detailed information about database maintenance is presented in the Alliance/MFG Technical Reference.

Backup Database

Backing up is important to ensure the safety of your data. You should backup often and on a regular basis. Backups are usually created by a System Administrator or Supervisor on a daily basis and a copy may be taken off site weekly. Backups may be requested by Alliance Manufacturing Technical Support when troubleshooting a problem, they should be available. See the Alliance/MFG Technical Reference for detailed information.

Restore MSDE Database

You may need to restore a database if your server goes down or if you want to view history. Restoration is usually done by a System Administrator or Supervisor. See the Alliance/MFG Technical Reference for detailed information.

Delete MSDE Database

You should use extreme caution when deleting a database. Databases that have been restored to view history can be safely deleted. However, deleting your live database will result in permanent data loss. Deletions should only be performed by a System Administrator or Supervisor.

Verify MDB Structure

This feature is designed for use with Alliance Manufacturing Technical Support, and is typically only performed by a system administrator. For more information, see the Alliance/MFG Technical Reference, Chapter 3: System Administration.

Import/Export

You can import data into and export data out of Alliance/MFG for use in other programs. This procedure is normally performed by a System Administrator or Supervisor. Detailed information about importing and exporting data is presented in the Alliance/MFG Technical Reference.

NOTE:

The MSDE/SQL instructions described here are for MSDE Databases only. Microsoft SQL Server 2000, SQL Server 2005 and SQL Express all come with there own Administration Tools.

Company

Once you have logged in to the appropriate database, you are ready to begin entering Company information. Select the Company option on the main menu to enter data about your company, including name and address, holiday schedule, employee information, and preferences for various global company attributes such as the number of decimal places you wish to display, and whether you want the system to auto-generate numbers for sales orders, purchase orders, work orders, and invoices. We recommend setting up the system codes prior to setting up your Company>Preferences as the Preferences screen will require various default codes be established.

Company Menu Options

Name and Address - Add basic company information such as name and address, contact, phone, fax, and e-mail address.

Holiday Calendar - Schedule the days your company is closed; such as weekends, holidays, and plant shut downs. These closed days will be excluded from MRP planning.

Employees - Maintain information about employees that will be used in various functions throughout the system.

Reset Year-to-Date Usage - Use periodically to reset to Year-to-Date usage on inventory parts.

Preferences - Configure default values, formats, and codes; and Sales Order, Purchase Order, Work Order, and Invoice numbering conventions.

Each is described in detail in the following sections.

Company Name and Address

Enter your company's name, address, contact names, telephone numbers, fax number, and email address as you would like them to appear on any displays, reports, orders, invoices, or other documents that will be produced by your system. Multiple addresses are permitted. Your company's "Bill To" address may be different than your "Ship To" address.

Once this information is added, you can enter as many different address lines as you need to conduct business. Each address line will have a unique ID.

To enter your company name information:

- 1. Select File>Company>Name and Address to open the Company data entry form.
- 2. Enter your company name.

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🗳 Company				
Company Name	Alliance Pens, Int'l]
Company Company Addres	s			
Primary Contact	Katya E. Marenko]	
Phone 1	(805) 682-6632	Phone 2		
Secondary Contact	Sharon van Derven]	
Phone 3	(805) 682-6633	Phone 4		
Fax 1	(805) 682-7707	Fax 2		
E-Mail	alliance@alliance-pens.com			
Region Code	W			
VAT Registration Number				
VAT Branch ID]
				OK Close

Company Tab

- 1. Enter the name of the person you wish to appear on any documentation generated by the system for company contact.
- 2. Enter the phone numbers for the Primary Contact person.
- 3. Enter the name of a second contact person, if available.
- 4. Enter the phone numbers for the second contact person.
- 5. Enter the Fax number for your company as you want it to appear on any correspondence.
- 6. Enter your company's primary e-mail address as you want it to appear on any correspondence.
- 7. Enter a Region Code or click the hyperlink to select one from the Region Code View.
- 8. Enter your VAT Registration Number if you will use the *Intrastat Reporting Tracks Value* Added Tax payments and receipts.
- 9. Enter your VAT Branch ID if you will use the Intrastat Reporting feature.

Company Address Tab

Click the Company Address tab.

💣 Comp	oany									
Compar	Company Name Alliance Pens, Int'l									
Company	Cor	npany Addres	:5							
Add		Address ID	Ship To	Bill To	Address Line 1	Address Line 2	City	State	Zip Code	Country
	1	93101	No	Yes	1111 Manitou Rd.	Suite A-1	Santa Barbar	CA	93101	USA
Edit	2	93116	Yes	No	225 S. La Palma Dr.		Goleta	CA	93116	USA
Delete	< .)								>
									0	K Close

The Company Name displays at the top of the form. Any existing address lines display in the body. You can create as many address lines as you need to conduct business. For example, you may have different Bill To and Ship To addresses or you may have different warehouse locations.

To add a new address:

Click Add on the left side of the Company form. The Company Address form opens.

📽 Company Addres	S		
Address ID	8		
Address Line 1			
Address Line 2			
Address Line 3			
Address Line 4			
City			
<u>State</u>		Country	
Zip Code		Postal	
Ship To Flag		Tax Code	
Bill To Flag		Tax Rate	0.00
			Close

- 1. Enter a unique Address ID.
- 2. Enter up to four address lines for this Address ID. For example, you can enter a warehouse name, a block or suite number, and a person's name.
- 3. Enter the city, state and Zip code for this address ID. City, State, and Zip codes are hyperlinks to the Zip code table.

- 4. Select either Ship To or Bill To, or both, to identify this address ID as either the Bill to or Ship to address.
- 5. Enter the country name, if needed.
- 6. Enter a postal code, if needed.
- 7. Enter the tax code that applies to this address ID, or click the hyperlink to select one from the Tax Code table.
- 8. The Tax Rate will display for the Tax Code selected in the previous step.
- 9. Click Close to save your entries and return to the Company data entry from.
- 10. When you are finished entering company information, do one of the following:

Click Save to save your entries and leave the form open.

Click Add to add another company.

Click OK to save your entries and exit the form.

Click Close to exit the form without saving. (Saved entries will be saved.)

To edit a company address:

- 1. From the Company form, Address tab, select the Address ID line you wish to edit.
- 2. Click Edit on the left side of the form to open the Company Address data entry form.
- 3. Change information as needed.
- 4. Click Close to save your changes and return to the Company form, then click Save or OK to save.

To delete a company address:

- 1. From the Company form, Address tab, select the line you wish to delete.
- 2. Click Delete.

NOTE:

You cannot delete an address if it is in use on any PO's in the system. You must first change or delete it from the PO, then delete it from the Company Address list.

Creating a Holiday Calendar

Settings in the Holiday Calendar tell the system which days throughout the year your company will be closed. It is important to keep this calendar up to date because MRP does not schedule closed days when planning production requirements.

New holidays are added in the Holiday Calendar data entry form. Each holiday must have a unique description, start and end date.

🗳 Holiday Calenda	r	
Description	New Year's Day	
Start Date End Date	 ✓ 1 / 1 /2004 ▼ ✓ 1 / 1 /2004 ▼ 	
		OK Close

To add a new holiday:

- 1. Select File>Company>Holiday Calendar>New to open a blank Holiday Calendar data entry form.
- 2. Enter a description for the new holiday.
- 3. Select start and end dates from the date boxes. (The start and end dates can be the same if the holiday is a single day.)
- 4. Click Save to save the holiday, or click Add to continue adding holidays to the calendar.
- 5. When you have finished adding all holidays, click OK to save your entries and exit the form. The system will now consider these days as non-production days when planning.

NOTE:

If the Start and End dates of the holiday you select have already passed, a caution icon will appear next to the field. If the date is still acceptable to you, you may save the record.

Using the Calendar View:

The Holiday Calendar View lists all the holidays currently set up for your company. From here you can print the Holiday Calendar Report or edit existing holidays.

📽 Holida			
Holiday	Calendar View - All		🛃 🌱 🐌
Description	ı	Start Date	End Date
1	M.L.King Jr. Day	1/16/2003	1/16/2003
2	President's Day	2/20/2003	2/20/2003
3	Memorial Day	5/29/2003	5/29/2003
4	Independence Day	7/4/2003	7/4/2003
5	Labor Day	9/4/2003	9/4/2003
6	Veterans' Day	11/10/2003	11/10/2003
7	Thanksgiving Holiday	11/25/2003	11/25/2003
8	Christmas Holiday	12/25/2003	12/25/2003
9 🕨	New Year's Day	1/1/2004	1/1/2004
	(Edit	Close

To edit an existing holiday:

Select File>Company>Holiday Calendar>All. The Holiday Calendar view list opens. Select the holiday you wish to edit and click Edit or double-click to open the Holiday Calendar data entry form.

- 1. Select new Start and End dates.
- 2. Click OK to save your entries and close the form.

To delete a holiday:

- 1. Select File>Company>Holiday Calendar>All.
- 2. Select the holiday you wish to delete and click Delete.
- 3. Click Yes at the Warning to confirm the deletion.
- 4. Click Close to save your change and exit the data view.

Entering Employees

Alliance/MFG can store personal information about each employee who works for your company, such as address, phone, and social security number; however, its primary purpose is to define employee parameters such as department code, wage and commission rates, and in what system functions an employee's name will appear on selection lists.

Select File>Company>Employees>New to open a blank Employee data entry form.

🗳 Employees			
Employee ID Full Name	✓ 21 HCC ✓ Heather First Name	Active	
🖌 Address 🖌 Empl	oyee Detail		
Address Line 1 Address Line 2 <u>City</u> <u>State</u> Zip Phone 1 Fax 1 E-Mail	 25716 N. Theater Dr. Goleta CA 93117 (805) 562-9667 heather@alliance.pens.com 	Country Postal	
			OK Close

- 1. In the form header, enter the Employee ID. The Employee ID is a key field and cannot be left blank. Employee ID's are used throughout the system for user identification.
- 2. Select Active if this is a current employee who will be accessing Alliance/MFG.

Address Tab

The Address tab contains employee personal information. This information is optional and not used in any system calculations; however, you can print a comprehensive Employee Report that includes this information.

- 1. Enter employee address information. (Two lines available.)
- 2. Enter the first name, middle initial, and last name of the employee as you want it to appear in the system and on reports.
- 3. Enter the city, state, and Zip Code for the employee address.
- 4. Enter the Phone, FAX, E-mail, Country, and Postal information, if required.

TIP:

Alliance/MFG contains a comprehensive Zip Code table. To quickly enter the city, state and Zip, click the City hyperlink and enter a city in the By City dialog box. The Zip Code view list displays Zip Codes for only that city. Click the appropriate line and click Select to automatically fill in the City, State, and Zip code fields on the Address tab.

Employee Detail Tab

The Employee Detail tab contains settings that determine how the employee record is used throughout the system.

🗳 Employees				
Employee ID Full Name	20-HCC	Ac	tive	
	First Name	МІ	Last Name	
Address Employee Detail				
Department Code	MKT Sales/Marketing		Employee Functions Engineering Changes	
Social Security Number	842659113		Labor Operations	
Wage/Rate	14		Purchase Orders Sales Orders	
Commission Rate	0		Inventory Accuracy	
				OK Close

- 1. Enter a valid Department code or click the hyperlink to select one from the Department Codes View. The code description will display to the right of the field.
- 2. Enter the employee Social Security Number.
- 3. Enter the employee wage rate to be used in labor calculations.
- 4. Enter a commission rate, if applicable.

Employee Functions:

Select the Alliance/MFG functions this employee will perform. This will help narrow your search for employees when needed.

Engineering Changes - Select Engineering Changes if this employee will be involved in this activity. If selected, the Employee ID will be available from the Originator drop-down list on the Engineering Change Notice data entry form.

Labor Operations - Select Labor Operations if this employee's activity will be tracked via the Labor Distribution function. If selected, the Employee ID will be available from the Employee ID drop-down list on the Labor Distribution data entry form.

Purchase Orders - Select Purchase Orders if this employee is a buyer or purchasing agent. If selected, the Employee ID will be available from the Buyer Code list on Purchase Order data entry forms.

Sales Orders - Select Sales Orders if this employee is a salesperson. If selected, the Employee ID will be available from the Salesperson list on Sales Order data entry forms.

Inventory Accuracy - Select Inventory Accuracy if this employee will perform physical inventory counts. If selected, the Employee ID will appear on the Inventory Tags Counted-by list.

NOTE:

Do not confuse these settings with Security Access. See Security in the Alliance/MFG Technical Reference for information about assigning employee permissions.

Viewing Employee Records:

Once employee records have been entered into the system, they can be accessed from the Employees View list. Select File>Employees> All to open the entire list, or use a predefined query to locate a specific employee or group of employees.

o ^e Employees View - All							
Employees View - All							
Employ	ee ID	Department	Name	Phone 1	E-Mail	Active	
1	▶ 20-HCC	MKT	Confrey, Heather C	(805) 562-9667	heather@alliance.pens.com	V	
2	30-EWS	MFG	Sorensen, Elizabeth W	(805) 961-0789	elizabeth@alliance.pens.com		
3	40-NAW	MFG	Weitz, Nicolas A	(805) 653-0372	nicolas@alliance.pens.com		
4	44-KNM	MFG	Morgan, Kyle N	(805) 624-0153	kyle@alliance.pens.com		
5	50JDD	ENG	Dorovsky, Josef D	(805) 659-3188	josef@alliance.pens.com		
6	55-JAT	PURCH	Tierney, Julie A	(805) 562-9452	julie@alliance.pens.com		
7	80-EMH	PURCH	Hailey, Ellen M	(805) 927-0176	ellen@alliance.pens.com		
8	90-KEM	MKT	Marenko, Katya E	(805) 652-3492	katya@alliance.pens.com		
9	SUPERVISOR		Supervisor, Created by MFG				
					Edit	Close	

From here you can add, edit, or delete a record; or via the sidebar drill down or access related data; preview or print a report.

To edit an employee record:

- 1. Select an employee from the Employees View.
- 2. Click Edit or double-click to open the Employees data entry form.
- 3. Enter any changes.
- 4. Click Save or OK to save.
- 5. Click Preview to see the report on screen.
- 6. Click Print to print a hard copy of the report.

To print a single employee record:

1. From the Employee View or data entry form, select the employee record you would like to print and from the sidebar or link button click Reports.

- 2. Select Employee Information Report. The Employee List Report dialog box opens. The Employee ID field displays the ID for the employee selected.
- 3. Click Preview to see the report on screen.
- 4. Click Print to print a hard copy of the report.
- 5. When you are finished, click Close to return to the Employees View, or enter another Employee ID and preview or print another record.

Reset Year-to-Date Usage

Alliance/MFG tracks all issues and shipments from inventory throughout the year and displays that figure as the YTD Usage field on the Part Master>Statistics Tab. Companies typically reset this feature to zero annually. Select File>Reset Year-to-Date Usage to set all parts usage back to zero. Employee access to this function can be controlled through the security function.

Setting Your Company Preferences

Company preferences specify universally used settings for your company such as formats for displaying dates and numbers, whether or not to auto-generate sales order, purchase order, work order, or invoice numbers and what those number formats will be; define your default billing and shipping address; define default AP and COGS accounts, and other settings specific to your operation.

The settings in this window apply to all areas of the company database. You should select settings in the Preferences window according to your Implementation Plan.

Settings are accessed via five tabs: Accounting, Auto-Numbering, Base Units, Number, and Manufacturing.

Enter the information on each tab as described in the following sections. You can click Save as you work your way through the tabs to save your settings, or when you are done, click OK to save your settings and exit the Preferences window. Your settings will be applied throughout the system.

NOTE:

The Company Preferences data entry form offers selections from the data set up in the Codes feature. If you have not yet set up these codes and tables, no selections will be available. See Codes, for more information about setting up Codes.

Accounting Tab

This tab defines various default accounting information used throughout the system.

📽 Preferences		
Accounting Auto-Numbering B	ase Units Manufacturing Numbers	
<u>Default PO Bill To</u>	93101	
Default PO Ship To	93116	
Default AP Department	PURCH	
Default COGS Department	COGS	
Invoice Remit To Address	93101	
Cost Type	Standard Cost 💌	
Base Currency	US	
Default PO Tax Code	SB	
Require Intrastat		
Require Invoicing		
		OK Close

Enter your company's Default PO Bill To address as set up in your Company Address list. This address will default to new purchase orders. You can override this address on a purchase order at your discretion.

Enter your Default PO Ship To as set up in your Company Address list. This address will default to new purchase orders. You can override this address on a purchase order at your discretion. (The Bill To and Ship To address need not be the same.)

Enter a Default A/P Department. This account number will default to new purchase orders. You can override it on a purchase order at your discretion.

Enter a Default COGS Department. This department number will default to new sales orders. You can override it on a sales order at your discretion.

Enter an Invoice Remit To Address if your invoice address will be different from your billing and shipping address. This address will default to your invoices.

Select a Cost Type from the drop-down list. You can choose to maintain the average cost of your purchased parts (and standard costs on your manufactured parts), use standard costing for all parts, or maintain average costs for all parts (For more information about cost types, see Selecting a Cost Type below).

Enter your company's Base Currency code. You can use other currencies on purchase order and sales order reports. Alternate currencies will be converted to or from this currency for internal accounting transactions.

Select Require Intrastat if you do business in the European market and require Intrastat Reporting. This feature works in conjunction with ICN Codes, Intrastat Rates, and Region/Country codes. (See Inventory Control, for more information about setting up the Intrastat Reporting feature.)

Select Require Invoicing to enforce invoice creation from sales order shipments.

Selecting a Cost Type

There are three cost type options available in Alliance. This option should be discussed with your Owner, CFO (Chief Financial Officer), accountant or consultant. The value of your WIP (work in process) and on-hand (purchased and/or manufactured) inventory is dependent on the costing method chosen. After deciding which method is appropriate for your business you will need to set your cost type in System Preferences and establish your initial costs. See Inventory Control>Cost Maintenance for information on entering costs for new parts.

Standard Cost – All Parts

If you use the Standard Cost The normal expected costs of an operation, process, or product including labor, material, and overhead charges, computed on the basis of past performance costs, estimates, or work measurement method, you will need to establish initial standards based on current or historical costs, engineering or purchasing estimates and work measurements. Most manufacturers then record and measure any variances (Labor, PPV and MUV) against their established standards and perform a periodic cost revision to update those standards. Also see Cost Roll Up and Update Standard Cost in the Inventory Control section of the Help.

Average Cost – All Parts

If you use the Average Cost - All Parts method;

The average cost for manufactured parts will be recalculated and updated when you move material into a nettable stockroom (WO Completion/Backflush). You must complete your manufacturing work orders in one (1) transaction (no partial completions).

The following formula is used to calculate a new average cost. The existing quantity on hand multiplied by the current inventory cost plus the WO completed quantity multiplied by its cost (WO cost = The total of WIP Issues cost + labor cost + burden cost + setup cost).

(quantity on hand x current inventory cost) + (quantity completed x WO cost)

divided by

quantity on hand + quantity completed (or total quantity)

The average cost for purchased parts will be recalculated and updated when you move material (receive) into a nettable stockroom.

The following formula is used to calculate a new average cost. The existing quantity on hand multiplied by the current inventory cost plus the PO received quantity multiplied by its PO price. The existing inventory quantity includes purchased parts issued to work orders that are still in WIP.

(quantity on hand x current inventory cost) + (quantity received x PO cost)

divided by

quantity on hand + quantity received (or total quantity)

Average costing A system-calculated cost value based on the average price of received materials. recalculates the cost of your parts and displays this current average cost as the "Current Inventory Cost." You can view the Current Inventory Cost on the Part Cost tab of the Part Maintenance form. (Select Inventory>Part Maintenance and select a part from the list, click Edit, then select the Part Cost tab.)

The "Use Current Cost" checkbox must be checked when performing a cost roll up.

Average Cost - Purchased Parts Only

When you elect to Average Purchase Parts Only, Alliance will use an average cost when performing transactions involving purchased parts, such as PO Receipts, Work Order Kitting, Subcontract PO Kitting, Backflushing and any Shipments of purchased parts.

A standard cost will be used for manufactured parts when performing transactions such as Work Order Completions, Backflushing, and Shipments of manufactured parts.

Average costing recalculates cost of your purchased parts with every receipt, and displays this current average cost as the "Current Inventory Cost." You can view the Current Inventory Cost on the Part Cost tab of the Part Maintenance form. (Select Inventory>Part Maintenance and select a part from the list, click Edit, then select the Part Cost tab.)

The "Use Current Cost" checkbox must be checked when performing a cost roll up.

The following formula is used to calculate a new average cost. The existing quantity on hand multiplied by the current inventory cost plus the PO received quantity multiplied by its PO price. The existing inventory quantity includes purchased parts issued to work orders that are still in WIP.

(quantity on hand x current inventory cost) + (quantity received x PO cost)

divided by

quantity on hand + quantity received (or total quantity)

Example:

For this example you have zero items in stock. You then receive 100 from a Purchase Order at \$1.00 each. You now have 100 on hand, and the average cost field is set to \$1.00. Next you receive 100 more at \$1.50. Now you have 200 on hand and the average cost field is set to \$1.25:

 $[(100 \times \$1.00) + (100 \times \$1.50)]/200 = \$1.25$

Next you issue 50 of the part to a Work Order. You still have 200 at \$1.25 (150 on hand and 50 in WIP). Next, you receive 100 more at \$1.50 each. You now have 300 at \$1.33.

 $[(200 \times \$1.25) + (100 \times \$1.50)]/300 = \$1.33$

The average cost is not recalculated until the material is received to a nettable stockroom. If you receive into a non-nettable stockroom the material's value <u>will not</u> be included in the average cost until it is relocated into a nettable stockroom.

Auto Numbering Tab

You can set up the Alliance/MFG system to automatically generate Sales Order, Purchase Order, Work Order, Invoice or Quotation Numbers. We recommend that you use this feature. This way, the system will automatically keep track of system numbering for you. You can format the numbers any way you wish to meet your company requirements.

o [®] Preferences			
Accounting Auto-Numbering	Base U	Inits Manufacturing Numbers	8
Calas Orden		Number Format	Next Number
Auto-Generate SO		SO*Y*M####	1
Work Orders Auto-Generate WO		W0*Y*M####	4
Purchase Orders Auto-Generate PO		P0*Y*M####	11
Invoices Auto-Generate IV		1#########	3
Credit Memos Auto-Generate CM		CM*Y#####	0
Quotations Auto-Generate QT		QT*Y*M####	3
Blanket Orders Auto-Generate BO		B0*Y######	0
			OK Close

To set up auto-generated numbering:

- 1. Select the Auto-Generate boxes as appropriate to indicate if you would like the system to automatically generate numbers (this is recommended). This option will generate unique, sequential numbers in the desired format for your sales order, purchase order, work order, and invoice documents.
- 2. If you select Auto-Generate, you must enter a format to auto-generate. This can be any combination of letters and numbers up to 10 characters. Any part of a date (Month, Year, Day) may be included in the auto-generation by entering *M, *Y, or *D in any combination. Sequential numbering fills in the remaining numbers. For example, the sales order number SO00041547, would be the 47Th sales order automatically generated on April 15, 2000 in the format "SO*Y*M*D".
- 3. If you do not wish to use 10 characters, enter your preferred format, then insert "#" for the number of characters you wish to use. The system will increment those numbers. In the example, the system has been set up to create invoice numbers beginning with 1, then generate a five-digit number that increments by 1.
 - 4. You can set the starting number to any number you wish. Enter the number in the Start Number field.

NOTE:

You can select auto-generate for some or all of the functions; if you don't wish to use auto-generate, clear this checkbox.

Base Units Tab

📽 Preferences		
Accounting Auto-Numbering	Base Units Manufacturing	Numbers
Base Length UOM	Inch	×
Base Weight UOM	Ounce (Weight)	✓
Base Area UOM	Square Inch	v
Base Volume UOM	Fluid Ounce (Volume)	✓
Base Unit UOM	Each	✓
1		OK Close

You must define a base unit of measure (The smallest units of measure used for either/or length, weight volume, or units. The smallest length unit may be inches, feet, etc., while the smallest weight unit may be ounces, pounds, etc.) for each type you will use (length, weight, area, volume, and unit). These form the basis for converting all measurements in your system and should represent the smallest unit of measure used anywhere in your system. For example, you may purchase tubing by the foot, but if you use it by the inch in production, then your base unit of measure for length should be "inch." For more detailed information, see Working with Units of Measure at the end of this chapter.

NOTE:

You must define your UOM Codes before you can select them in this tab.

Manufacturing Tab

In the Manufacturing tab, define the days your company will be in production. MRP and CRP will consider this information when building schedules.

- 1. Under Scheduled Work Days, select the check boxes for the days of the week you want MRP and CRP to consider when planning.
- 2. Enter your daily Start and Stop times. You can use 12- or 24-hour formats. If you do not define work center shifts with individual start and stop times, CRP will use these times for all work centers.

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o [®] Preferences				
Accounting Auto-Numbering	Base Units	Manufacturing	Numbers	
Daily Start Time Daily StopTime	8 :00:00 AM	•		
CScheduled Work Days				
Sunday				
Monday				
Tuesday				
Wednesday				
Thursday				
Friday				
Saturday				
				OK Close

Numbers Tab

In the Numbers tab, enter the number of cost and quantity decimal places you wish to be displayed on Alliance/MFG forms and reports.

o [®] Preferences		
Accounting Auto-Numbering	Base Units Manufacturing Numbers	
Cost Decimals Quantity Decimals	2	
		OK Close

Codes

Codes Menu and Tables

Codes tables provide the means to standardize your system and apply these standards to your company and to all your customers, suppliers, parts, pricing and inventory control, as needed. How you create and apply these codes should be part of your Implementation Plan.

Creating well-defined codes tables will save you time when entering information, as well as ensure that the data entered is consistent; particularly if several different users enter information. Standardizing such information will help guarantee reliable database sorting and reporting.

For example, if you create a region codes table containing North, South, East, and West; they will be accessible via hyperlink from your customer and supplier forms. Only codes contained in this table will be considered valid. When users enter customers and suppliers, they can choose the appropriate region code from a hyperlink, or enter a valid code if they know it. However, if they attempt to enter an invalid code, such as Western or W, the system will display an invalid icon next to the Region Code field, and disables the OK and Apply buttons until the invalid entry is corrected. You can also add new records via the hyperlink. In this example, region code validation ensures that when you want to report or view all sales orders by the region code, you will get all the records.

If you created your database using the Default database, some of the codes tables will contain entries to help you get started.

🗳 Alliance/M	FG								
<u>Fi</u> le Edit <u>P</u> rod	lucts <u>D</u> emand	<u>S</u> upply	<u>M</u> RP	Inventory	⊆RP	Shop	F <u>a</u> vorites	<u>W</u> indow	<u>H</u> elp
Database 🕨	1								
Codes •	<u>⊂</u> lass Codes			E II					
Drink	C <u>o</u> mmodity C	odes							
Euro	Currency Co	des							
<u>E</u> ×it	Cu <u>s</u> tomer Dis	count Le	vel	•					
	<u>D</u> ensity Code	s							
	D <u>e</u> partment/:	Stockroo	m Code	es 🕨					
	<u>E</u> CN Class Co	odes							
	E.O.B. Codes	5							
	<u>I</u> CN Codes								
	I <u>n</u> trastat Rat	es							
	Operation Co	des							
	Price Break S	tructures	5						
	P <u>r</u> ice Discoun	t Codes							
	Pro <u>d</u> uct Disco	ount Cod	es						
	Produ <u>c</u> t Reve	enue Clas	55						
	Region/Coun	try Code	s						
	<u>S</u> hip Via Code	es							
	System Used	On Code	BS						
	<u>T</u> ax Codes/R	ates							
	Ter <u>m</u> s Codes								
	Unit of Measu	ure Code	s						
	ZIP Codes								

NOTE:

Code setup should proceed in a logical sequence; therefore, the following sections are presented in logical order, rather than in the order they appear on the Codes menu.

Access system codes tables from the Alliance/MFG File menu. For each code type, you can select New to open a blank data entry form, or select All to open a list of any existing codes. Additional menu queries available on submenus depend on the code you select. For example, the submenu queries for Commodity Codes are New, All, and By Buyer Planner; while the submenu queries for Department/Stockroom Codes are New, All, and By Account Number.

Creating and Editing Codes

With a few exceptions, creating codes is a simple matter of entering a code or meaningful abbreviation for the code, along with a description. Once the codes are defined, they will be available for general use within the system. For example, Currency Codes, once defined, will be selectable via hyperlink on the customer, supplier, part cross reference, sales order and purchase order data entry forms.

To add a new code:

- 1. Select File>Codes and from the submenu, the code type you want to create, then select New. A blank data entry form opens.
- 2. Enter a code and description for the new record.
- 3. Enter any additional information in the fields, depending on the code selected, then do one of the following:
- 4. Click OK, Add, Save, or Close as needed.

To edit an existing code:

- 1. Select File>Codes, the code type you wish to edit, then select All.
- 2. The data view list opens for the code type selected, for example, if you select Region Codes, the Region Codes View opens.
- 3. From the view list, select the code you wish to edit and click Edit to open the data entry form. The code will display in the key field at the top of the form. You can edit the description and any other available information.

NOTE:

You cannot edit a key field on a data entry form. Therefore, if the code is incorrect, you must delete the code from the codes list, then re-enter it in its corrected form.

When you are satisfied with your edits, do one of the following:

Click Save to save your changes and leave the form open.

Click Add to add another code.

Click OK to save your changes and return to the data view.

Click Close to exit the form without saving your changes.

If you don't wish to save your edits, and you have not yet applied your changes, you can click the Refresh button on the toolbar to restore the original entries.

The following sections describe how each code type applies throughout the system; the other tables the code is related to in the system; and what information to supply in the fields when creating a code.

System Codes

The following codes apply generally throughout the system. Unit of Measure and Discount codes are system codes but are presented separately and in more detail at the end of this section.

Class Codes

The Class code table is currently for use with the Alliance/MFG QuickBooks accounting link. See your QuickBooks User Guide for details.

Commodity Codes

Commodity codes are assigned to part numbers, assigning a commodity code helps categorize the inventory into buying and planning groups. Commodity codes may also be assigned to buyers and planners, they can be queried and are displayed on the MRP Action Parts screens and reports. For example, you may stock several different sizes of screws, nuts and bolts and though each one would have a separate part number, you may find it useful to categorize them also with a broad commodity code such as "hardware" or "HDW."

🗳 Commodity Code Up	📽 Commodity Code Update			
Commodity Code	HDW			
Description	Hardware, nuts, bolts and screws			
Buyer/Planner	90-KEM Marenko, Katya E			
		OK Close		

To add a commodity code:

- 1. Enter a code and description for the new commodity.
- 2. Enter the Buyer Planner's Employee ID. (To associate the Commodity Code with a Buyer/Planner, the employee must be set up as a Buyer in the Employee Functions box in the Employee's record. See Company, Employees.)
- 3. Click OK, Close, or Save as required to complete the record.

Viewing Commodity Codes

The records displayed in the Commodity Codes View depend on the query you select. In the following example, we selected "All." From here you can add, edit, or delete a code; drill down or via the sidebar, access related data; preview or print a report.

o ^o Comm	📽 Commodity Codes View - All								
Commo	Commodity Codes View - All 🕹 🌳 🍑								
Commodity	Code	Description	Last Name	Employee ID					
1	F/G	Finished Goods	Tierney	55-JAT					
2	HDW	Hardware, nuts, bolts and screws	Marenko	90-KEM					
3	MFG	Manufactured Parts	Tierney	55-JAT					
4	NON	Non-Inventory	Marenko	90-KEM					
5	PUR	Purchased Parts	Dorovsky	50JDD					
6	SPO	SPO Sub-Contracted Parts Marenko 90		90-KEM					
7 SUB Sub-Assembly Tierney 55-JAT									
			Edit	Close					

Currency Codes

If your company trades internationally, currency codes define exchange rates for each country you do business in. All exchanges will be compared to the base currency defined in your Company Preferences form.

If you specify a currency code in their respective records, exchange rates will print on the Sales Orders and Purchase Orders generated for customers and suppliers. (The codes and rates can also be edited in the Sales Order or Purchase Order data entry forms.)

📽 Currency Codes	
Currency Code	AU
Currency Symbol Exchange Rate	 1.29
Description EMU Member? Rate to one Euro	Australian Dollars
	OK Close

To add a currency code:

- 1. Enter a code and description for the Currency code.
- 2. Enter the appropriate Exchange Rate. This field is required and must be greater than zero.
- 3. Select EMU Member? If this currency is used by a member of the European Monetary Union. This flag will tell the system to calculate VAT accordingly (apply triangulation, or not).
- 4. Enter a Rate to one Euro if you are an EMU member. This will define the applicable conversion rate.

Viewing Currency Codes

The records displayed in the Currency Codes View depend on the query you select. In the following example, we selected "All."

📽 Currency Codes View - All							
Currenc	Currency Codes View - All 🕹 💎 🍉						
Currency C	Code	Rate to Base	Description	EMU Member	EURO Rate	Symbol	
1 🕨	AU	1.29	Australian Dollars		0		
2	CA	1.4	Canadian Dollars		0		
3	DG	1.94	Dutch Guilders		0		
4	FF	5.8	French Francs		0		
5	GM	1.73	German Marks		0		
6	GR	271.41	Greek Drachma		0		
7	НК	7.75	Hong Kong Dollars		0		
8	JY	125.83	Japanese Yen		0		
9	MX	7.89	Mexican Pesos		0		
10	NZ	1.46	New Zealand Dollars		0		
11	SF	1.47	Swiss Francs		0		
12	TW	27.6	Taiwan Dollars		0		
13	UK	0.62	Great Britian Pounds		0		
14	US	1	US Dollars		0		
	Edit Close						

From here you can add, edit, or delete a code, or via the sidebar you may drill down or access related data, preview or print a report.

NOTE:

The system will display all costs in your default currency; however, Sales Order and Purchase Order printouts will show units in the currency code entered for the customer or supplier for that order.

Department/Stockroom Codes

Departments are functional areas of your company, such as Purchasing, Engineering or Assembly (WIP). Alliance/MFG also uses departments to refer to accounting activities. Departments and stockrooms can have default account numbers assigned.

You must provide at least one "Department" and one "Stockroom" to represent an area that you will move stock/inventory into, out of, or through. You can create any number of Department and stockroom codes to meet your requirements.

If you are using an Alliance Accounting Link, the account numbers you set up in Alliance/MFG Department Codes must match account numbers in your accounting package.

Typical Manufacturing Department and Stockroom Codes

Purchasing - Reference an accounts payable account Subcontract WIP - Reference an inventory account Work in Process - Reference an inventory account Stockroom - Reference an inventory account (see stockroom flags below)

To add a Department/Stockroom Code:

The body of the Department Code data entry form contains two tabs: Department/Stockrooms and Location. Departments and stockrooms use the same data entry form, however, stockrooms require additional information such as Location and three (3) Inventory Flags. After you enter a code, tab down and enter the information in the tabs as described in the following sections. **Department/Stockroom Tab**

🗳 Department/Stockro	🇳 Department/Stockroom Codes				
Dept./Stockroom Code	PENS				
Department/Stockroom Lo	cations				
Description	Finished Goods - Pens				
Account Number	1310				
Inventory Flag	 (This Department maintains inventory) 				
Nettable Flag	 (Inventory is available to MRP) 				
Quarantine?					
		OK Close			

- 1. In the Department/Stockroom tab, enter a description for the department or stockroom.
- 2. Enter an Account Number. If you use an Alliance Accounting Link, this account must match the corresponding account in the Chart of Accounts of your accounting package.
- 3. Select the Inventory Flag box if this is a stockroom and it will maintain inventory.
- 4. Select the **Nettable** The designation given to a stockroom to indicate that the parts within are part of available inventory and are to be used by MRP in its calculations. Flag box if the inventory is to be considered in MRP calculations. If Engineering has a stockroom with inventory specifically for design and/or prototypes, that is not available for manufacturing to use, don't check this box.
- 5. Select the Quarantine box if the inventory is to be considered in MRP calculations but is not yet available for kitting and shipping. Use this check box for Incoming Inspection, burn-in, quarantine, etc.

NOTE:

All stockrooms must have at least one location assigned.

Locations Tab

You can have as many locations as you need per stockroom. The body of the tab displays any locations already defined.

o ^o Depa	rtme	nt/Stoc	kroom C	odes	
Dept./S	tockro	oom Code	PEN	S	
Departme	ent/St	ockroom	Location	s	
Add		Location	Code	Description	
	1	100		Default	
Edit	2	200		Special	
Delete					
<u> </u>					
					OK Close

To add a new location:

In the Location tab, click Add to open a blank Stock Locations form.

📽 Stock Locations			
Stockroom Code	INSP	Incoming Inspection	
Inventory Account ?	Yes		
Nettable ?	Yes		
Account Number	1330		
Location Code	QUAR		
Description	Quarantine		
			Close

- 1. The Stockroom Code, Inventory Flag, Nettable Flag and Account Number display at the top of the form.
- 2. Enter the new location code.
- 3. Enter a description for the new location.
- 4. Click Close. The new location is added to the list in the body of the Locations tab, and will now be available for selection when you receive or kit parts.
- 5. Click OK, Close, or Save as required.

Viewing Department Codes and Locations

The records displayed in the Department Codes View depend on the query you select. Codes are displayed along with a description, G/L account, and inventory, nettable and quarantine flags.

📽 Department/Stockroom Codes View - All							
Depart	ment/Stockroom Code	es View - All				🚽 🌳 🐌	
Departme	nt Code	Description	Account Number	Nettable ?	Inventory Account ?	Quarantine?	
1 ▶	ASSY	Pen Assembly - Work In Process	1800				
2	COGS	Cost of Goods Sold	5000				
3	ENG	Engineering	8000				
4	EST	Non Inventory - Estimate	7010				
5	FG-2	Finished Goods - Special	1310				
6	INSP	Incoming Inspection	1330				
7	MFG	Manufacturing	4000				
8	MKT	Sales/Marketing	7000				
9	NON-1	Non Inventory	7020				
10	PENS	Finished Goods - Pens	1310				
11	PROTO	Engineering Prototype Stockroom	1600				
12	PURCH	Purchasing - Accounts Payable	3000				
13	PVAR	Physical Inventory Variances	6000				
14	RAW	Raw Materials/Purchased Parts	1330				
15	SA-1	Sub-Assemblies	1300				
16	SA-2	Sub-Assemblies Subcontract	1330				
17	SUBCON	Sub Contractor - Work In Process	1850				
18	SUBS	Sub-Assemblies Work In Process	1850				
					Edit	Close	

From here, you can add, edit, or delete records; or via the sidebar you can access related data, preview or print reports; and, because department codes are related to every transaction in the system, you can drill down to nearly every function.

ECN Class Codes

When engineering changes are introduced, you can use a class code to advise users of the scope of the change. Once the codes are created, they can be accessed via hyperlink when employees create ECNs using the Engineering Change Notice feature.

ECN Class codes might include:

CL1 - Class 1 - Stop All Shipments/Production

- CL2 Class 2 Stop All Production
- CL3 Class 3 Phase-in Changes
- REL Product Release for Manufacturing

To add a new ECN Code:

📽 ECN Class Codes	;	
ECN Class Code	PRO	
Description	Prototype Product - Internal Use Only	
		OK Close

- 1. Enter an ECN Class Code and description.
- 2. Click OK, Close, or Save as required.

Viewing ECN Class Codes

The records displayed in the ECN Class Codes View depend on the query you select.

💣 ECN C	lass Codes View	/ - All 📃 🗖 🔀
ECN Class Codes View - All 🛛 😽 💡 🧃		
ECN Class	Code	Description
1 🕨	CL1	Class I - Stop all Shipments/Production
2	CL2	Class II - Stop All Production
3	CL3	Class III - Phase in Changes
4	PRO	Prototype Product - Internal Use Only
5	REL	Product Released for Manufacturing
		Edit Close

From here you can add, edit, or delete a record; or via the sidebar drill down or access related data; preview or print a report.

FOB Codes

Free On Board or Freight On Board (FOB) Codes assign responsibility and ownership during product delivery. For example, if the FOB point for a particular sales order is "shipping dock," the goods are your company's responsibility up until the order ships from your dock. At that point, ownership of the goods passes to the buyer. If the FOB for the sales order is "receiving dock," your company is responsible for the goods until they are received by your customer.

To add an FOB code:

📽 F.O.B. Codes		
F.O.B. Code	RD	
Description	Receiving Dock	
		OK Close

- 1. Enter a Code and description for the FOB Code
- 2. Click OK, Close, or Save as required.

Viewing FOB Codes

The records displayed in the F.O.B. Codes View depend on the query you select.

📽 F.O.B. Codes View - All			
F.O.B. Codes View - All		🛃 🌱 🍉	
F.O.B. Coo	F.O.B. Code Description		
1 🕨	RD	Receiving Dock	
2 SD Shipping Dock			
Edit Close			

From here you can add, edit, or delete a record; or via the sidebar drill down or access related data; preview or print a report.

Region/Country Codes

Enter Region/Country Codes to define geographical or other regions you would like to apply to your customers and suppliers. You may use this feature to group your sales orders by region and view sales volume by geographical areas.

If your business requires Intrastat Reporting, you can define Intrastat tax codes and rates. Region codes are used in conjunction with ICN codes, defined later in this section.

Once your region codes are created, they will be accessible via hyperlink from Customers, Suppliers, Sales Order, and Purchase Order data entry forms.

To add a Region/Country code:

🗳 Region Codes Update		
Region Code	UK	
Description	United Kingdom	
		OK Close

- 1. Enter a Region Code.
- 2. Enter a description.
- 3. Click OK, Close, or Save as required.

Viewing Region/Country Codes

The records displayed in the Region Codes View depend on the query you select.

📽 Region Codes View - All		
Region	Codes View - All	🕹 💡 🐌
Region Co	de	Description
1 🕨	AU	Australia
2	CA	Canada
3	E	Eastern US
4	EC	European Community
5	N	Northern US
6	NON	Int'l: Non-Vat Countries
7	S	Southern US
8	UK	United Kingdom
9	W	Western US
		Edit Close

From here you can add, edit, or delete a record; or via the sidebar drill down or access related data; preview or print a report.

Tax Codes/Rates

You can create tax codes and rates that can be applied to any taxable items. Once you create the codes and associated rates, they will be accessible via hyperlink from the Sales Order and Purchase Order Detail Line Items forms, Intrastat Rates, and Customer and Supplier Address data entry forms.

To add a Tax Code/Rate:

📽 Tax Codes/Rates		
Tax Code	CA	
Tax Rate	7.25	
Liability Account	7480.00	
		-
Description	CA Sales Tax (Non-SB County)	
		OK Close

- 1. Enter a Tax Code.
- 2. Enter the Tax Rate.

- 3. Enter a Liability Account number. This corresponds to your general ledger for sales tax payable.
- 4. Enter a description for the tax code.

Viewing Tax Code/Rates

The records displayed in the Tax Code/Rates View depend on the query you select.

🗳 Tax C	odes/Rates View	- All		
Tax Cod	es/Rates View - All			🕹 💡 🕭
Tax Code		Tax Rate	Description	Liability Account
1 🕨	CA	7.25	CA Sales Tax (non-SB County)	7480.00
2	NON	0	Non-Taxable	
3	SB	7.75	CA Sales Tax (In-SB County)	7480.00
4	UK1	13.5	Plastics United Kingdom	7200.01
5	UK2	17.5	Petroleum - United Kingdom	7200.02
Edit Close				

From here you can add, edit, or delete a record; or via the sidebar drill down or access related data; preview or print a report.

ICN (Intrastat) Codes

If you do business within the European Union, you can assign ICN codes to help you track valueadded tax payments and receipts for international customers. ICN codes and Region codes work together to compute tax codes and rates for Intrastat reporting. (Region codes are described later in this section.)

After you create ICN codes and Region codes, you assign tax codes and rates to them in the Intrastat Rates table.

TIP:

You can set up this table from the Intrastat codes data entry form as you enter ICN codes, or create all ICN and Region Codes, then select Intrastat Rates from the Codes submenu and apply tax codes and rates all at once.

ICN codes are assigned by commodity type to part numbers in the Part Maintenance function.

Once the ICN codes are created and rates assigned, they will be accessible by hyperlink from the Inventory tab on the Part Master. (For more information about setting up Intrastat Reporting, see the Inventory Control section.)

To add a new ICN Code:

🗳 ICN Codes		
ICN Code	Exmpt	
Description	Exempt	
		OK Close

- 1. Enter an ICN Code and Description
- 2. Click OK, Close, or Save as required.

Viewing ICN Codes

The records displayed in the ICN Codes View depend on the query you select.

📽 Intrastat Codes View - All 🛛 🔲 🔀			
Intrastat Codes View - All 🛛 🕹 💎 🍉			
ICN Code		Description	
1 🕨	Exmpt	Exempt	
2	Std	Standard Rate	
3	Zero	Zero Rated	
Edit Close			

From here you can add, edit, or delete a record; or via the sidebar drill down or access related data; preview or print a report.

Intrastat Rates

After you create Intrastat codes and Region codes (see Region codes later in this section), you assign tax codes and rates to them in the Intrastat Rates table.

To define a tax code and rate for an ICN Code:

Select Codes>Intrastat Rates to open the Intrastat Rates data entry form.

🗳 Intrastat Rates		
ICN Code	Std Standard Rate	
Region Code	UK United Kingdom	
Tax Code	UK1	13.50
	Plastics United Kingdom	
		OK Close

- 1. Enter an ICN Code.
- 2. Enter the Region Code that the rate will apply to.
- 3. Enter the Tax code to apply to the rate.

Operation Codes

Operation codes identify individual labor or machine operations performed on the shop floor. When accessed in the Labor Distribution feature, the operation code helps you track individual operations on a work order, including the actual time worked on a specific operation and the quantity completed. Operations codes are linked to work centers and displayed on Labor Routers and Work in Process detail.

To add an Operation Code:

📽 Operation Codes		
Operation Code	100-0001	
Description	Connect Upper Tube to Lower Tube	
		OK Close

- 1. Enter an Operations Code and Description.
- 2. Click OK, Close, or Save as required.

Viewing Operation Codes

The records displayed in the Operations Code View depend on the query selected. In the following example, we selected "All."

📽 Operation Codes View - All			
Operation Codes View - All 🛛 🕹 🌱 🍛			
Operation	Code	Description	
1 🕨	100-0001	Connect Upper Tube to Lower Tube	
2	100-0002	Kit Parts, Issue to Assembly	
3	100-0003	Kit Parts, Issue to Shipping	
4	200-0001	Attach PL-3 (Plunger, Metal)	
5	200-0002	Cut to 3.25inch pieces	
6	200-0003	Dis-assemble B-01	
7	200-0004	Dis-assemble B-02	
8	200-0005	Insert Point Assembly	
9	200-0006	Install Clip to Barrel Top	
10	300-0001	Inject Blue Ink into Tube	
11	300-0002	Inject Red Ink into Tube	
12	300-0003	Insert Plunger, Ink Cartridge	
13	300-0004	Insert Ring	
14	400-0001	Assemble Barrel	
15	400-0002	Receive from SubContractor	
16	400-0003	Test Ink Flow	
17	500-0001	Stamp Custom Logo	
18	500-0002	Test Ink Flow	
19	900	Transit to Stockroom	
	Edit Close		

From here you can add, edit, or delete a record; or via the sidebar drill down or access related data; preview or print a report.

Product Revenue Class

You can create product revenue classes to assign revenue and expense accounts to individual part numbers. When you assign a product revenue class to a part number, the revenue and expense accounts override the default COGS and department number on the sales order. If you use an Accounting Link, this information will be passed through the Link to your accounting package.

To add a Product Revenue Class:

📽 Product Class Code		
Product Class Code	BPP100	
Revenue Account	4010	
Expense Account	5010	
Description	100 Series	
		OK Close

- 1. Enter the new Product Revenue Class.
- 2. Enter the Revenue and Expense account numbers.
- 3. Enter a description for the Product Revenue Class.

Once your product revenue codes are created, they will be accessible via hyperlink from the Part Master data entry form.

Viewing Product Revenue Class Codes

The records displayed in the Product Revenue Classes View depend on the query you select.

💣 Product Revenue Classes View - All				
Product Revenue Classes View - All 🛛 🕹 💎 🍉				
Product Cl	ass	Revenue Account	Expense Account	Description
1 🕨	BPP100	4010	5010	100 Series
2	BPP200	4020	5020	200 Series
3	GOLD	4030	5030	Gold Series
4	MISC	4000	5000	Parts and Other Sales
				Edit Close

From here you can add, edit, or delete a record; or via the sidebar drill down or access related data; preview or print a report.

Ship Via Codes

You can enter Ship Via Codes to define shipping methods frequently used by your company, such as UPS, FEDEX, and so on. Once these codes are defined, they are accessible via hyperlink from Customers, Suppliers, Sales Order, and Purchase Order data entry forms.

To add a Ship Via Code:

📽 Ship Via Codes		
Ship Via Code	UP2	
Description	UPS Blue - 2nd Day	
		OK Close

- 1. Enter a Ship Via Code and description.
- 2. Click OK, Close, or Save as required.

Viewing Ship Via Codes

📽 Ship Via Codes View - All 📃 🗖 🔀			
Ship Via	🕹 💡 🐌	1	
Ship Via C	ode	Description	
1 🕨	1ST	First Class US Postal Svc	
2	3RD	Third Class US Postal Svc	
3	4TH	4th Class Freight US Postal Svc	
4	BA	Best Way Air	
5	BW	Best Way Surface	
6	FX	Fed-X Overnite	
7	FXP	Fed-X Priority	
8	UP1	UPS Red - Next Day	
9	UP2	UPS Blue - 2nd Day	
10	UPS	Ground	
		Edit Close)

From here you can add, edit, or delete a record; or via the sidebar drill down or access related data; preview or print a report.

System Used On Codes

You can apply codes to components or assemblies to associate them with product lines. For example, in the sample Pen Database, the component "red ink" may be used in only one product—a red pen—while several different products may use a "spring." You may want to give the red ink a code to identify its family, while the spring might be coded as mixed use. This code simply provides one more way to analyze inventory. Once your System Used On codes are created, they will be accessible by hyperlink from the Part Maintenance View.

To add a System Used On code:

🗳 System Used On Codes		
System Used On Code	BP	
Description	BLUE PENS	
		OK Close

- 1. Enter a System Used On Code and Description.
- 2. Click OK, Close, or Save as required.

Viewing System Used On Codes

The records displayed in the System Used On Codes View depend on the query you select.

📽 System Used On Codes View - All 🛛 🗐 🔀			
System Used On Codes View - All 🛛 😽 😵			
SUO Code		Description	
1 ▶	BP	BLUE PEN	
2	MXD	MIXED - Not unique to any product	
3	RP	RED PEN	
		Edit Close	

From here you can add, edit, or delete a record; or via the sidebar drill down or access related data; preview or print a report.

Terms Codes

You can define payment terms codes that will print on sales orders, invoices, or on purchase orders. Once you create the codes and descriptions, they will be accessible via hyperlink from the Customer sales order, Supplier, and purchase order forms.
To add a Terms code:

🗳 Terms Codes		
Terms Code	N30	
Description	Net Amt Due in 30 Days	
		OK Close

- 1. Enter a terms code for each payment type you will use.
- 2. Enter a description for the terms code.

Viewing Terms Codes

The records displayed in the Terms Code View depend on the query you select.

🗳 Terms Codes View - All 📃 🗖 🔀				
Terms C	odes View - All	🕹 🌳 🐌		
Terms Cod	le	Description		
1 🕨	210	2% in 10 Days, Net 30		
2	COD	Cash On Delivery		
3	N30	Net Amt Due in 30 Days		
4	N45	Net Amt Due in 45 Days		
5	i PPD Prepaid			
Edit Close				

From here you can add, edit, or delete a record; or via the sidebar drill down or access related data; preview or print a report.

ZIP Codes

If you set up your system using the Default database, the ZIP Codes table will be populated with current United States ZIP codes. These are accessible from all address windows in the system. You may need to enter a new ZIP code from time to time; however, it is more likely that you would use this feature as a lookup table.

To look up a Zip Code:

Select File>Codes>ZIP Codes.

📽 ZIP Codes View - By City		
Queries	By City	~
City 😽	; \$anta Barbara	
		Apply Close

- 1. Choose by City or by State and enter the city or state name in the dialog box.
- 2. Click Save. The ZIP Codes View list displays only the ZIP codes for the city or state entered.

🗳 ZIP C	🖇 ZIP Codes View - By City (Santa Barbara)						
ZIP Co	ZIP Codes View - By City (Santa Barbara) 🛃 🍧						🕹 💡 🦫
City		State	Zip Code	County	Area Code	Time from GMT	DST
1 ▶	Santa Barbara	CA	93101	SANTA BARBARA	805	4	
2	Santa Barbara	CA	93102	SANTA BARBARA	805	4	
3	Santa Barbara	CA	93103	SANTA BARBARA	805	4	
4	Santa Barbara	CA	93105	SANTA BARBARA	805	4	
5	Santa Barbara	CA	93106	SANTA BARBARA	805	4	
6	Santa Barbara	CA	93107	SANTA BARBARA	805	4	
7	Santa Barbara	CA	93108	SANTA BARBARA	805	4	
8	Santa Barbara	CA	93109	SANTA BARBARA	805	4	
9	Santa Barbara	CA	93110	SANTA BARBARA	805	4	
10	Santa Barbara	CA	93111	SANTA BARBARA	805	4	
11	Santa Barbara	CA	93120	SANTA BARBARA	805	4	
12	Santa Barbara	CA	93121	SANTA BARBARA	805	4	
13	Santa Barbara	CA	93130	SANTA BARBARA	805	4	
14	Santa Barbara	CA	93140	SANTA BARBARA	805	4	
15	Santa Barbara	CA	93150	SANTA BARBARA	805	4	
16	Santa Barbara	CA	93160	SANTA BARBARA	805	4	
17	Santa Barbara	CA	93190	SANTA BARBARA	805	4	
						Edit	Close

To enter a new Zip Code:

Select File>Codes>ZIP Codes>New (or select Edit>Add New from the Zip Codes View list) to open a blank ZIP Codes form.

📽 ZIP Codes			_ 🗆 🛛
Zip Code	93190		
City	Santa Ba	rbara	
State	CA		
County	SANTA B	ARBARA	
Area Code	805		
Time from GMT	4	Time from Greenwich Mean Ti	ime
DST		Daylight Savings Time	
			K Close

- 1. Enter the new ZIP code in the key field at the top of the form.
- 2. Enter the City, State, County, and (Phone) Area Code.
- 3. Time from GMT and DST information are optional.

Customer Discount Codes

Alliance/MFG offers both customer and product discount setup options. The following sections describe how to set up the codes that govern discounts and how they are applied in the system.

Customer Discount Types

Alliance/MFG gives you flexible customer discount options by offering three discount types:

None - Customer always gets list price, no discount applied (User can still edit the customers price)

Discount % - Flat Percent Discount applied on all orders

Quantity Discount - A combination of Product Discounts, Customer Discount Levels, and quantity ordered

After you set up the discount codes and structures described in the following sections, these options will be accessible from the Customers data entry forms. Each customer can be assigned a unique pricing type on the basis of either a Discount %, (flat percent rate) or the Quantity Discount (quantities and products) they buy. When customer orders are entered, the discount type and description will be displayed on the Sales Order, and the Sales Order Detail will calculate the actual discount applied to that particular line item based on this type.

The following sections describe how to setup each customer discount type.

None (No Discount)

No discount code needs to be set up to apply this type to a customer. Simply select None as the Discount Type on the Customers Discount Type Tab data entry form.

🕫 Customers			
Customer ID	TRIDA	Active Flag	
Customer Name	Tridata		
Customer Notes Default	Codes Discount Type	Addresses	
Price Discount Type	None None	~	
Price Code	Discount % Quantity Discounts	\$	
Customer Discount Leve	<u>ə</u>		
			OK Close

The customer will get the list price no matter what quantity or parts they purchase. Authorized users can still override the List Price when necessary.

Discount %

Price Discount Codes are used to assign a flat discount percentage to this specific customer type (Discount Percent). In the example below, the customer with a Price Discount Code of EDU would get a straight 10% discount no matter what parts or how many they buy.

To Set up Customers for Discount %

Step 1 - Set up your Price Discount Codes

To add a new Price Discount Percent Code:

🗳 Price Discount Codes		
Price Code	EDU	
Description	Basic Educational Discount	
Discount %	10	
		OK Close

- 1. Enter a Price code and description for the code.
- 2. Enter the Discount % for the code.
- 3. Click Save, OK, or Close, as required.

Once you set up the code, you can select it from the Price Discount Codes View.

📽 Price Discount Codes View - All 📃 🗖 🔀				
Price Dis	Price Discount Codes View - All 🛛 🕹 💎 🍉			
Price Code	•	Discount %	Description	
1 🕨	EDU	10	Basic Educational Discount	
2	GOV	10	Basic Government Discount	
3	ONE	1.5	First Tier Quantity Discount	
4	RET 0 Retail SalesNo Discount		Retail SalesNo Discount	
5	TRE	5 Third Tier Quantity Discount		
6	TWO	2.5 Second Tier Quantity Discount		
Edit Close				

From here you can add, edit, or delete a record; or via the sidebar drill down or access related data; preview or print a report.

You can enter as many Price Discount Codes (price types) as you need. These codes will then be accessible from the Customers Discount Type Tab data entry form.

Step 2 - Set up the Customer's Discount Type

When you enter the customer record, select Discount % as the Discount Type. The sales order entry function will automatically look up the Discount % for the Customer's Price Code, and apply the appropriate percentage discount each time you enter an order.

📽 Customers			
Customer ID	MCLAR	Active Flag	
Customer Name	McLaren Distributors		
Customer Notes Default	Codes Discount Type	Addresses	
Price Discount Type	Discount %	*	
Price Code	FDU	1	
	Basic Educational Di	J iscount	
Customer Discount Leve]	
			OK Close

Quantity Discount

This Customer Discount Type is based on a combination of the Customer Level and Product Type. You can define discount levels for each type of customer you do business with. For example, give a reseller or a distributor different pricing than your standard retail customers. Once you set up Customer Discount Level codes, you can use them in combination with Product Discount codes to create Price Break Structures on the basis of quantity ordered.

When you enter a sales order for a customer that has been assigned Quantity Discount as the Discount Type, the system will automatically look up the product type for the part they purchased, and then apply the appropriate percentage discount based on the quantity they purchased. (See Demand, Customers for more information on assigning Discount Levels.)

o [®] Customers			
Customer ID	BLUES	Active Flag	
Customer Name	Blue Star Supply		
Customer Notes Default C	Codes Discount Type	Addresses	
Price Discount Type	Quantity Discounts	*	
Price Code]	
Customer Discount Level	DISTR		
	Distributors w/Agree	ments	
			OK Close

To set up a customer for Quantity Discounts

Quantity Discounts are applied to customer sales orders depending on the **Customer Discount Level** assigned to the customer and the **Product Discount Code** for the parts they purchase.

Step 1 - Set up the Customer Discount Level Codes

To add a Customer Discount Level code:

📽 Customer Discount I		
Customer Discount Level	DISTR	
Discount Level Price Break	Structures	
Description	Distributors w/Agreements	
		OK Close

1. Enter a Customer Discount Level code, for example, RETAIL for retail customers, or DISTR for distributors.

- In the Discount Level tab, enter a Description for the code; for example, Volume Distributor. You can enter as many discount level (customer types) as you need. These levels will be accessible from the Customers data entry form
- After all your Customer Discount Levels and Product Discount Levels (described in the following section) are added, you can use the Price Break Structures tab to assign values to discount level and product combinations.

Once you set up a code, you can select it from the Customer Discount Level View.

📽 Customer Discount Level View - All 📃 🗖 🛃			
Customer Discount Level View - All		🕹 💡 🐌	
Customer [Discount Level	Description	
1	AMS-UK	Alliance Corporate Discount	
2 🕨	DISTR	Distributors w/Agreements	
3	RESLR	Resellers w/Agreements	
4 RETL		Retail Customers	
		Edit Close	

From here you can add, edit, or delete a record; or via the sidebar drill down or access related data; preview or print a report.

Step 2 - Set up the Product Discount Codes

🇳 Product Discount Co	o des 📃	
Product Price Code	BPP	
Product Discount Code Pri	ice Break Structures	
Description	Ball Point Pens	
	OK (Close

To add a Product Discount Code:

- 1. Enter a code for the Product Price code.
- 2. In the Product Discount Code tab, enter a Description for the code.
- 3. When you are finished, click OK to save your settings and exit the form.

The new code will be displayed in the Product Discount codes view.

o ^o Produ	iew - All	
Product	Discount Codes View - All	🗸 💡 🐌
Product Discount Code		Description
1 ▶	BPP	Ball Point Pens
2	PURCH	Purchased Parts
3	STMP	Custom Stamped Pens
		Edit Close

From here you can add, edit, or delete a record; or via the sidebar drill down or access related data; preview or print a report.

Step 3 - Set up a Price Break Structure

To create a Price Break Structure:

After you have set up Customer Discount Levels and Product Discount Codes, you can create a Price Break Structure to associate a discount with a customer, a part, and a quantity purchased.

To add a Price Break Structure:

Select File>Codes>Price Break Structures>New. A blank data entry form is displayed

- 1. Enter or select Customer Discount Level for this Price Break Structure
- 2. Enter or select Product Discount Code for this Price Break Structure
- 3. Enter a Price Break Quantity
- 4. Enter the discount for this customer level, product code and quantity purchased
- 5. Enter a Description for the discount if desired
- 6. When you are finished, Click OK, Close, or Save as required

📽 Price Break Structu	res		
<u>Customer Discount Level</u> <u>Product Discount Code</u> Price Break Quantity	DISTR BPP	Distributors w/Agreements Ball Point Pens 5,000.00	
Price Break Discount		20	
Description	Distributor Agree	ment Discount	OK Close

In the following Price Break Structure View, a customer assigned the **DISTR** Discount Level purchasing parts assigned Product Discount Code of **BPP** gets a 10% discount for quantities of 500 up to 999 and a 12% discount for purchasing quantities of 1000 up to 4999.

📽 Price Break Structures View - All						
Price Bre	Price Break Structures View - All 🛛 🛃 💎 🐌					
Discount L	evel	Product Type	Quantity	Discount %	Description	
1 🕨	AMS-UK	BPP	1.00	60	Corporate Discount	
2	AMS-UK	PURCH	1.00	60	Corporate Discount	
3	AMS-UK	STMP	1.00	60	Corporate Discount	
4	DISTR	BPP	500.00	10	Distributor Agreement Discount	
5	DISTR	BPP	1,000.00	12	Distributor Agreement Discount	
6	DISTR	BPP	5,000.00	20	Distributor Agreement Discount	
7	DISTR	STMP	1,000.00	10	Custom Stamped Pens Discount	
8	RESLR	BPP	250.00	6	Reseller Program Discount	
9	RESLR	BPP	500.00	8	Reseller Program Discount	
10	RESLR	BPP	1,000.00	10	Reseller Program Discount	
11	RETL	BPP	250.00	5	Quantity Break 1	
12	RETL	BPP	500.00	6.5	Quantity Break 2	
13	RETL	BPP	1,000.00	8	Quantity Break 3	
					Edit Close	

Once you create a Price Break Structure, you can access it from the Codes menu, and from the Customer Level and Product Discount Types Codes data entry forms.

Unit of Measure Conversions

You must define a stocking UOM for each part on the Part Master. Inventory transactions into and out of stockrooms will be converted to the stocking UOM. Once UOM codes are defined, you can access them from various data entry forms in the system; the conversion units displayed depend on what form you open. For example, the Part Master always displays inventory costs in the stocking unit of measure, while a Purchase Order form may display in the Purchase unit of measure, if different from stocking units of measure.

Base Units

Unit of measure conversions are calculated from and to five base units of measure. The five base codes are first set up in the Unit of Measure codes table and then selected as the Base Code in the Company Preferences window. (See Company Preferences, in this section, for more information.) The five base UOM codes are unit, length, weight, volume, and area.

📽 Unit of Measure Codes View - All						×
Unit of N	Aeasure Codes	View - All			- 🕹 💡	۲
UOM Code		Description	Type Desc	UOM Conversion	Base UOM	
1 🕨	BX	Вох	Unit	100		
2	DZ	Dozen	Unit	12		
3	EA	Each	Unit	1	 Image: A set of the set of the	
4	FO	Fluid Ounce (Volum	Volume	1	 Image: A set of the set of the	
5	FT	Foot	Length	12		
6	GL	Gallon	Volume	128		
7	GR	Gross	Unit	144		
8	IN	Inch	Length	1		
9	LB	Pound	Weight	16		
10	0Z	Ounce (Weight)	Weight	1		
11	PK	Package	Unit	1000		
12	PR	Pair	Unit	2		
13	RL	500' Roll	Length	6000		
14	SQIN	Square Inch	Area	1		
15	YD	Yard	Length	36		
		·		·		
				Edit	Close	

The far right column indicates "True" with a check mark if this code is a Base Unit of Measure.

Unit of Measure Codes

You can buy, build, and ship/sell a part in your stocking UOM, or define alternate UOM's as needed. If you create alternate UOM's, however, you must define a conversion rate back to stocking units. For example, if you purchase springs by the gross; but stock and issue by the unit each; a purchase order placed for a quantity of one (1) gross will show 144 each when received into stock. You would define a UOM conversion rate to inform the system as to the number of EACH units are in 1 GROSS.

Converting Between Like UOM Types - If the conversion is between UOM's of the same type (both are lengths, both are weights, and so on) the conversion is performed by the UOM codes table.

Converting Between Different UOM Types - If the conversion is between UOM's of different types, for example, you purchase a material by the "pound" but stock it by the "EA," for use in production, you must create a Density Code and then assign this density code in the Part Master record for that part. This conversion will be done by the Density Codes table. (See Density Code, in the following section.)

All Unit of Measure codes created for the system are displayed from the Unit of Measure Codes View list. Each entry defines how many Base units are associated for each UOM Code. If you used the Default database to set up your system, the five base units of measure will already be defined. You can enter additional definitions as required.

To enter a new Unit of Measure Code:

📽 UOM Codes			
UOM Code	EA	 BASE UOM>	
Description	Each		
Conversion Factor		1 EA	
UOM Type	Unit	~	
Is Base Unit			
			OK Close

- 1. Select File>Codes>Unit of Measures Codes>New (or click Edit>New Record from the Unit of Measure Codes View list) to open a blank Unit of Measure Codes form.
- 2. Enter a new UOM Code in the key field at the top of the form.
- 3. Enter a description for the code.
- 4. Enter a Conversion Factor from the Base Unit for the code.
- 5. Select a UOM type from the drop-down list.
- 6. Check the box if this is a Base Unit.
- 7. Click OK, Close, or Save as appropriate.

Density Codes

MRP considers stock on hand and on order to recommend POs and WOs as needed. This is a simple task when you purchase and use materials that can be calculated in like measures, such as feet-to-inches or pounds to ounces. (Like calculations are based on entries in your Units of Measure table.) If, however, you purchase material by the "pound" but use it in production by the "each," you must supply MRP a basis for conversion between different base measures.

If product manufacturing requires conversion between different measure types, you can use a density code to perform the conversion.

For example, you may purchase small screws by the pound, but stock them by the each for use on assemblies according to your bill of materials. If each pound contains a thousand screws, a representative unit for one screw would be .001. If your base unit of measure is "EA," then you would create a density code to compute: .001 = EA.

🗳 Density Codes	
Density Code	1/4 Screws
Base Unit	Each
Length per Unit	Inch
Weight per Unit	0.001 Ounce (Weight)
Area per Unit	1 Square Inch
Volume per Unit	1 Fluid Ounce (Volume)
Description	1/4" Screws per pound
	OK Close

To add a Density code:

- 1. Enter a Density code.
- 2. Enter the appropriate conversion per unit.
- 3. Enter a description for the code.

Viewing Density Codes

The records displayed in the Density Codes View depend on the query you select.

📌 D	🕈 Density Codes View - All						
Der	Density Codes View - All 🕹 💡 🍉						
Dens	ity Code	Description	Density Length Conversion	Density Weight Conversion	Density Volume Conversion		
1	▶ 1/4 Screws	1/4" Screws per pound	1	0.001	1		
2	RING1	RING Type 1, 1200EA per Pound	1	0.0008334	1		
3	TUBE	Pre-Cut Tubing	3.25	1	1		
<					>		
					Edit Close		

From here you can add, edit, or delete a record; or via the sidebar drill down or access related data; preview or print a report.

NOTE:

You must enter your base UOM codes before you can enter UOM conversion ratios in the UOM codes table. Remember: Changing your base UOM will alter the conversion ratio of all UOM's of the same type.

Using Unit of Measure and Density Codes

Following are two UOM setup scenarios that will help you understand how to use this feature. Remember: for conversion of same types (length-to-length), use UOM. For conversions of different types (weight-to-length), use Density. **EXAMPLE 1:** You purchase screws by the pound, but stock them by the each. There are 100 screws per pound:

UOM Table - Setup pounds (weight) and each (unit), if needed.

Set 1 LB = 16 OZ.

Base UOM - Setup EA as your base unit, and OZ as your base weight.

Density Table - Create a new density called "SCREWS." Fill out the table as follows:

Each screw equals:

Weight: 0.16000 ounces (weight) *

Sample math: 100 EA = 1 LB = 16 OZ, solve for 1 EA (divide by 100):

100/100 EA = 1/100 LB = 16/100 OZ

1 EA = .01 LB = .16 OZ

* Because the base unit for weight is ounce, you must convert pounds to ounces first.

After all tables are set up as shown, you can assign UOM values on the Part and Inventory masters as follows:

Part Master (ENG Tab - Enter EA as the UOM and SCREW as the density.

Part Master (Inventory Codes Tab) - Enter LB as the UOM Purchase.

EXAMPLE 2: You purchase carbon rods by the pound, but stock them by the inch. Each rod weighs 6 OZ and is 12 inches long:

UOM Table: Set up ounces (weight) and inches (length), if needed.

Base UOM: Set up OZ as your base weight, and IN as your base length.

Density Table: Create a new density called "RODS". Fill out the table as follows:

NOTE:

Because you must fill in a length, weight, and volume for each density, you may consider using the number "1" for any unneeded values (as used in the following example). Multiplying or dividing by 1 will not change the value of the number.

Each ROD equals:

Length: 12.00000 Inches

Weight: 6.00000 Ounces (Weight)

Volume: 1.00000 Fluid Ounces

Enter IN as the UOM on the Part Master Engineering tab, RODS as the density, and on the Part Master (Inventory Codes Tab) - Enter LB as the UOM Purchase.

Variable or Catch Weights

If your products are stocked and sold/shipped in boxes, but each box could be a different weight and your products are priced by the weight of the box, you probably want to create and use a Catch Weight. A catch weight can be set up and maintained in the Part Master for each product you sell (See the Part Maintenance, Inventory Control Tab section for more information on assigning Catch Weights).

Print

Printing Reports in Alliance/MFG

Alliance/MFG provides a number of standard reports for each function, they are listed at the end of each section. Once you have queried and displayed an Alliance Report, the Print menu selection is enabled.

To preview a Bill of Materials Report from the sample Pen Database:

If you are not already in the Pen Database, login now. Select Products>Reports>Bill of Materials. The Bill of Materials Query dialog box opens.

🗳 Bill of Materi	ials Report - By Assembly	
Queries	By Assembly	~
Assembly	* BPP-100	
		Apply Close

- 1. Enter an assembly, for example, BPP-100.
- 2. Click Apply. The Report Preview window displays the report.
- 3. From here you can resize the report display, page through the report, export the report, search the report text, or apply an additional filter to the report.

NOTE:

The dialog box opens with the default query setup by Alliance. To view additional queries or create a custom query, click on the drop down box.

In the following example, the Bill of Materials report lists the Assembly, Description, Rev., number, and Stock UOM in the header. The body of the report lists each component by item number in the BOM, along with a description, Rev. Number, Qty Per, UOM, Obsolete and Effective dates and the ISC Code.

Bill of Materials

<u>Asse</u> BPP-1	mbly <u>Description</u> 00 Assembly, Ball	<u>Description</u> Assembly, Ball Point Pen, Blue				Rev B		Stock UOM EA	
ltem	Component and Description	Rev	Qty Per	UOM	Obs. Date	Eff. Date	ISC	Order Quantity	
10	B-01 Assembly, Barrel, Blue	A	1.00	EA			М	1.00	
20	C-01 Assembly, Cartridge, Blue Ink	c	1.00	EA.			s	5,000.00	
30	PL-01 Assembly, Plunger	A	1.00	EA			P	1.00	
40	S-01 Spring, Metal .875 Inch	A	1.00	EA.			Б	10,000.00	

To print to the default printer click on the Print button on the bottom of the window. To change printers click on File>Print to display the printer dialog box. Click on Close to exit.

For more information about using Alliance/MFG standard reports, See the Alliance/MFG Technical Reference.

Setting Up Your Products



Products Menu Functions

This section describes how to enter part information into your Part Master; how to create and maintain your Bill of Materials and product structures, and how to manage related documentation, engineering change notices, and part cross references. All of the parts you use to create your assemblies and components are maintained in the Part Master, accessed from the Products selection on the Alliance/MFG Main Menu.

Part Master

The Part Master is a file of all your parts. Everything you need to know about every part in the system is entered and stored in the Part Master. Whether you are in engineering and design, planning and scheduling, sales, cost accounting, or just about any other company function, you will find information in the Part Master that you can use to efficiently perform your tasks.

Tasks described in this section assume familiarity with the basic use of Alliance/MFG data lists, data entry forms, dialog boxes, queries, and finding and sorting features. If you need more information about how to use these features, review the System Overview section.

Creating New Part Information

This sections describes how to manually enter parts into your part master; however, several options are available to import existing part numbers into the system. See the Alliance/MFG Technical Reference additional data entry options.

Engineering Tab

You must define "at a minimum" a part number, description, and stocking unit of measure for each part. Alliance/MFG provides many additional fields that you can use to add detailed notes, revision numbers, weight, dimensions, special storage and shelf life and other optional information. One record is required for each unique part that you make, buy, sell, or stock; whether it is a component, a subassembly, or the finished product.

Adding new parts to the Part Master:

From the main menu, select Product>Part Master>New. A blank Part Master data entry form opens at the Engineering tab.

🗳 Part Master		
Part Number 😣	Revision	
Description	Inactive	
S Engineering Notes MRP Planning Inventory Codes Part Costs Statistics		
Stock UDM Density Code Weight Dimension Special Storage Shelf Life 0.00 User Defined 1 User Defined 2 Graphic Path		Show Graphic
		OK Close

- 1. Enter a unique Part Number, according to your numbering conventions.
- 2. Enter a Revision indicator, if needed.
- 3. Enter a Description for the part.
- 4. If this part is for engineering purposes only at this time, check the Inactive box.
- 5. Enter a weight for one stocking unit of this part, if needed.
- 6. Enter the Dimensions for one stocking unit of this part, if needed.
- 7. Select Special Storage, if required.
- 8. Enter the Shelf Life in days, if required.
- 9. In the User Defined fields, you can enter up to ten digits of your choice. You can use these fields in custom queries and reports.
- 10. Enter the path to any graphic you have stored in the system for this part. If you know the path, type it in; or click the Graphic Path hyperlink to browse for the path. You can then click Show Graphic to display the image.
- 11. When you have finished adding a part or block of parts, do one of the following:

Click Save to save your settings and leave the form open.

Click Add to open another blank Part Master data entry form.

Click OK to save your entries and exit the form.

Click Close to exit the form without saving.

TIP:

ENTER MINIMAL INFORMATION UNTIL YOUR CONFIGURATION IS LOCKED DOWN

Your engineering department might go through a number of iterations before designs are validated and parts are approved. It makes sense to enter just the "bare bones" until the design is locked down. As long as there are no invalid icons on the Part Master data entry form, you have entered the minimum amount of data to create a valid record. You can add MRP, Inventory, and Costing data later. The Inactive flag will prevent the part from appearing on queries for "All" parts, you must use the query button and select the "Obsolete Only" query.

Notes Tab

Click the Notes tab to add any additional information about the part. You can add unlimited text here, including text cut and pasted from other Windows programs or text files.

MRP Planning, Inventory Codes, Part Costs and Statistics Tabs

Information used for MRP Planning, Inventory, Part Costs, and Statistics is not normally entered or used until the Bill of Materials and Product structures have been finalized.

You'll find detailed information about entering information in these tabs in the Inventory Control>Part Maintenance section.

Accessing Part Master data

After parts are added to the system, Alliance/MFG gives you a number of ways to access the data.

From the Products Menu

The main menu is the first access level. From here you can go straight to a blank form to enter new parts, edit existing part records, or use predefined queries to locate specific records.



From the Part Master View

Once parts are entered into the system, you can use the Part Master View to access all product related data in every other table in the system that contains a part. Just highlight a record in the view and click on the related record in the sidebar.

📽 Part i	📽 Part Master View - All						
Part Ma	ster View - All				ê	8 📑 🕹 💎	۲
Part Numb	per	Description	Rev	Stock UOM	UOM Description	Density Code	
1 🕨	B-01	Assembly, Barrel, Blue	A	EA	Each		
2	B-02	Assembly, Barrel, Red	A	EA	Each		1
3	BP-1	Barrel, Top Half, Blue	Α	EA	Each		
4	BP-2	Barrel, Bottom Half, Blue	Α	EA	Each		
5	BP-3	Ring, Metal .250 diameter	Α	EA	Each	RING1	1_
6	BP-4	Clip, Pocket Metal 1.5 inch	В	EA	Each		
7	BP-5	Barrel, Top Half, Red	Α	EA	Each		
8	BP-6	Barrel, Bottom Half, Red	A	EA	Each		1
9	BPP-100	Assembly, Ball Point Pen, Blue	В	EA	Each		
10	BPP-200	Assembly, Ball Point Pen, Red	В	EA	Each		
11	BPP-x300	Custom Ball Point Pen, Red, Stamped with	В	EA	Each		
12	C-01	Assembly, Cartridge, Blue Ink	С	EA	Each		
13	C-02	Assembly, Cartridge, Red Ink	С	EA	Each		
14	CP-1	Ball Point	В	EA	Each		
15	IN-01	Ink, Blue	В	FO	Fluid Ounce (Volu		
16	IN-02	Ink, Red	В	FO	Fluid Ounce (Volu		
17	IN-x03	Ink, Special Gold	В	FO	Fluid Ounce (Volu		
18	PL-01	Assembly, Plunger	A	EA	Each		1
19	PL-1	Tube, Upper molded plastic, 1.750 inches Io	В	EA	Each		1
20	PL-2	Tube, Lower molded plastic, .375 inches long	В	EA	Each		~
<						>	j
					Edit	Close	,

From here you can directly access all Part Cross References, ECN's, Documents, and Inventory Quantities for the selected part. If the part is a component, you can display all occurrences of this part in all assemblies (Where-Used View). If the part is an assembly or subassembly, you can display all of its components (Product Structure/BOM View).

After MRP, Inventory, and Costing data has been added to the Part Master record, you can access additional tables via the sidebar. (See the Inventory Control, Part Maintenance section for more information.)

Documents

You can associate any number of documents to a part number. For example, you may have a schematic, design drawing, specification, manufacturers product information sheets—any number of documents related to parts in your system. Alliance/MFG gives you a place to organize this information, assign a Document ID, note the current location and revision numbers, and record effective dates. At a minimum, you must enter a Part Number and Document ID to create a valid record.

Creating New document information

Documents Tab

🗳 Part Documents				×
Part Number	8	Revision	Stock UOM	
Document ID	8			
Document Notes				
Document Path Description			Show Document	
Document Location		ECN Number Effective Date		
Document Size		Obsolete Date	11/ 9 /2005 💌	
				se

Select Products>Documents>New to open a blank Part Documents data entry form.

- 1. Enter a part number. The Revision and Stock UOM will display for the part selected.
- 2. Enter a Document ID. This can be any combination of up to 15 characters.
- 3. Enter Optional information as required:
- 4. Click the Document Path hyperlink to define a document location.

You can open the document in its native program if the program is installed on your computer. Click Show Document to open the file.

Description - Enter a description of the document.

Document Location - Enter the document storage/retrieval location.

Document Revision - Enter a Document Revision number.

Document Size - Enter the drawing size, or create a size code that users can readily recognize.

Job Number - If the part is associated with a particular job, you can attach the job number to the document record. Enter the number or click the Job Number hyperlink to select one from the Job Number list.

ECN Number – Documents are often generated or revised as part of the ECN process. Enter the appropriate ECN number or click the ECN Number hyperlink to choose one for the ECN List.

Effective and Obsolete Dates – Use the calendar boxes to enter Effective and Obsolete dates for the document.

Notes Tab

Click the Notes tab to add any additional information about the part. You can add unlimited text here, including text cut and pasted from other Windows programs or text files.

When you are finished, do one of the following:

Click Save to save your settings and leave the form open.

Click Add to open another blank data entry form.

Click OK to save your entries and exit the form.

Click Close to exit the form without saving.

To edit a Part Document record:

Select Products>Documents>Edit and enter the Document ID to open the Part Document data entry form for the document selected. Change the information in the fields as required, and click OK, Save, or Close as needed.

Accessing Part Documentation Data

Once you create part document records, Alliance/MFG gives you several ways to access the data.

From the Products Menu

The main menu is the first access level. From here you can go straight to a blank Documents data entry form to enter new document information, edit existing document information, or use a predefined **query** A function that can be customized to search for and extract records from a database to create a subset of records that match specific criteria. and wild cards to locate a specific record.



From the Documents View

The records displayed in the Part Documents View depend on the query you select.

🕫 Part Documents View - All										
Part Do	cuments View - All							4	🖇 📑 🕹 🌱	۵
Part Numb	per	Document ID	Description	Rev	Location	Size	ECN Number	Effective Date	Obsolete Date	
1 🕨	B-01	B-01A-S	Schematic B-01, rev A	A	Dr.1	A				
2	B-02	B-02A-S	Schematic B-02, rev A	A	Dr.1	A]
3	BP-1	BP-1A-S	Schematic BP-1, rev A	A	Dr.1	A				
4	BP-2	BP-2A-S	Schematic BP-2, rev A	Α	Dr.1	Α				1
5	BP-3	BP-3A-S	Schematic BP-3, rev A	Α	Dr.1	A				
6	BP-4	BP-4A-S	Schematic BP-4, rev A	A	Dr.2	A	ECN9701		3/1/2002	1
7	BP-4	BP-4B-S	Schematic BP-4, rev B	В	Dr.1	A	ECN9701	3/1/2002		1
8	BP-5	BP-5A-S	Schematic BP-5, rev A	Α	Dr.1	A				1
9	BP-6	BP-6A-S	Schematic BP-6, rev A	Α	Dr.1	A				1
10	BPP-100	BPP-100A-S	Schematic BPP-100, rev A	A	Dr.4	D	ECN9804		4/13/2003	1
11	BPP-100	BPP-100B-S	Schematic BPP-100, rev B	В	Dr.3	D	ECN9804	4/13/2003		1
12	BPP-200	BPP-200A-S	Schematic BPP-200, rev A	A	Dr.4	D	ECN9805		4/13/2003	1
13	BPP-200	BPP-200B-S	Schematic BPP-200, rev B	В	Dr.3	D	ECN9804	4/13/2003		1
14	C-01	C-01B-S	Schematic C-01, rev B	В	Dr.2	A	ECN9803		4/13/2003	1
15	C-01	C-01C-S	Schematic C-01, rev C	С	Dr.1	A	ECN9803	4/13/2003		~
<			Ш]	>	1
								Edi	it Close	9

From here you can add, edit, or delete a record; or via the sidebar you can drill down or access related data; preview or print a report.

Engineering Change Notices (ECN)

Maintaining precise records of engineering process and design modifications is important to preserving the integrity of your parts database and the quality of your finished product. Because manufacturing involves constant flux—product designs are changed, suppliers discontinue lines or go out of business, components are refined, materials are substituted—a means of tracking these changes is an essential part of an efficient manufacturing system.

With the ECN feature, you can record the progress of parts through the normal design-tomanufacturing release, as well as track modifications to design specifications, assemblies, or components in your database. Additionally, you could identify parts in which defects have been discovered and stop production or shipments, or both.

Creating New ECN information

Select Products>Engineering Change Notice>New (or Click Add>New Record) to open a blank Engineering Change Notice data entry form. Enter an ECN Number or Name.

📽 Engineering Change	Notice	
ECN Number	ECN9701	
ECN Notes ECN Parts		
ECN Class Code ECN Date <u>Originator</u>	CL3 Class III - Phase in Changes 2 /28/2005 90-KEM Marenko, Katya E	
		OK Close

ECN Tab

- 1. Enter an ECN Classification Code.
- The ECN Date will default to "today." You can use the calendar box to assign another date, if needed.
- 3. Enter the Employee ID for the ECN originator.

Notes Tab

1. Enter any notes related to the ECN. These will print on any reports generated for the ECN. Notes could include modification or rework instructions, release notes, or specifications.

ECN Parts Tab

The ECN Parts tab displays Parts defined in the ECN. From here you can add, edit, or delete ECN Part information.

🗳 Engineeri	ng Change No	otice	
ECN Number	E	CN9701	
ECN Notes	ECN Parts		
Add	Part Number	ECN Description	
1	BP-4	Change in metal composition (i	
Delete			
			OK Close

1. Click Add to open the ECN Parts data entry form. The ECN number continues to display at the top of the form.

💣 ECN Parts			
ECN Number	ECN9701	Revision	Stock UOM
Part Number	BP-4	В	Each
	Clip, Pocket Metal 1.5 inch		
ECN Action	Change in metal composition (rev. B)		
Notes	The metal comp		
			Close

- 1. Enter the part number or click the hyperlink to select one from the Part Master View.
- 2. Enter a phrase describing the change or action required.
- 3. Add additional text describing the details of the change or background information.
- 4. Click OK. The new part is added to the body of the Engineering Change Notice form.
- 5. When you are finished, do one of the following:

Click Save to save your entries and leave the form open.

Click Add to open another new ECN Parts data entry form.

Click OK to save your entries and exit the Engineering Change Notice form.

Click Close to exit without saving.

To edit an ECN Number

- 1. Select Products>Engineering Change Notice>Edit and enter an ECN number to open the ECN Notice data entry form for that record.
- 2. Edit the information in the fields as required, then click Save, OK, or Close as required.

Accessing ECN Data

Once you have enter ECN's records into the system, Alliance/MFG gives you a number of ways to access the data.

From the Products Menu

The main menu is the first access level. From here you can go straight to a blank Documents data entry form to enter new document information, edit existing document information, or use a predefined query and wild cards to locate a specific record.



From the Engineering Change Notice View

Records displayed in the Engineering Change Notice View depend on the query you select.

📽 Engin	eering Chang	e Notice View -	All		
Engineering Change Notice View - All 🛛 😽 🔚 🕹 💎 🍛					
ECN Numb	ber	ECN Class Code	ECN Date	Originator Last Name	Originator ID
1	ECN9701	CL3	2/28/2005	Marenko	90-KEM
2	ECN9801	PRO	4/9/2005	Dorovsky	50JDD
3	ECN9802	CL3	4/9/2005	Dorovsky	50JDD
4	ECN9803	REL	4/12/2005	Marenko	90-KEM
5	ECN9804	CL3	4/12/2005	Marenko	90-KEM
6	ECN9805	REL	4/12/2005	Dorovsky	50JDD
				Edit	Close

From here you can add, edit, or delete a record; or via the sidebar you can drill down or access related data; preview or print a report.

GUI BOM

Graphical User Interface

After you have entered all parts into the Part Master you can use them to create your product structures (Bills of Materials), that is, an assembly made up of components and/or subassemblies. You can select parts from the Part Master and assign them to an assembly using the Product Structure data entry form, or you can drag-and-drop parts into a graphical structure using the GUI BOM. Once you have created a product structure, you can view it either from the GUI BOM or the Product Structure View list. Each method is described in the following sections.

NOTE:

The GUI BOM work area is a place to drag and drop parts from a part master list or view to create your Product Structures, rather than by manually entering the parts into a data entry screen to create your Product Structures.

ALSO NOTE:

A BOM is Bill of Materials, a Product Structure is a Bill of Materials, an assembly that has components is a Bill of Materials.

Creating a new Bill of Materials using the GUI BOM

The Graphical User Interface Bill of Materials (GUI BOM) is a single-paned window (work area) where you can view, create and modify a bill of materials. You can add parts to a structure, edit quantities, maintain effective or obsolete dates and other information. The work area is drag and drop.

Select Products>GUI BOM to open a blank GUI BOM work area window.



Select Products > Part Master, then select ALL, or use a query to narrow the parts list You may drag a part number to the GUI BOM work area from any view containing part numbers.

📽 Part Master View - All 📃 🗖 🔀							
Part Ma	ster View - All				e	8 📑 🕹 🌱	۵
Part Numb	ber	Description	Rev	Stock UOM	UOM Description	Density Code	-
1 🕨	B-01	Assembly, Barrel, Blue	A	EA	Each		
2	B-02	Assembly, Barrel, Red	A	EA	Each		
3	BP-1	Barrel, Top Half, Blue	A	EA	Each		
4	BP-2	Barrel, Bottom Half, Blue	A	EA	Each		
5	BP-3	Ring, Metal .250 diameter	A	EA	Each	RING1	
6	BP-4	Clip, Pocket Metal 1.5 inch	В	EA	Each		1=
7	BP-5	Barrel, Top Half, Red	A	EA	Each		1
8	BP-6	Barrel, Bottom Half, Red	A	EA	Each		1
9	BPP-100	Assembly, Ball Point Pen, Blue	В	EA	Each		1
10	BPP-200	Assembly, Ball Point Pen, Red	В	EA	Each		
11	BPP-x300	Custom Ball Point Pen, Red, Stamped with	В	EA	Each		1
12	C-01	Assembly, Cartridge, Blue Ink	С	EA	Each		1
13	C-02	Assembly, Cartridge, Red Ink	С	EA	Each		1
14	CP-1	Ball Point	В	EA	Each		1
15	IN-01	Ink, Blue	В	FO	Fluid Ounce (Volu		1
16	IN-02	Ink, Red	В	FO	Fluid Ounce (Volu		1
17	IN-x03	Ink, Special Gold	В	FO	Fluid Ounce (Volu		1
18	PL-01	Assembly, Plunger	A	EA	Each		1
19	PL-1	Tube, Upper molded plastic, 1.750 inches Io	В	EA	Each		1
20	PL-2	Tube, Lower molded plastic, .375 inches long	В	EA	Each		~
<	-	· 				>	
					Edit	Close	

- 1. Highlight the part number you want to drag to the work area. The part can be an assembly or a component.
- 2. Using the mouse, drag the part number to the open work area. It will display at the top of the work area.

Alliance/MFG User Guide

🗳 GUI ВОМ						
BPP-100 - Assembly ■ 10: B-01(1.00) - ■ 20: C-01(1.00) ■ 30: PL-01(1.00) 40: S-01(1.00) -	, Ball Poir Assembly Assembly - Assembly Spring, M	it Pen, Blue), Barrel, Blue), Cartridge, Blue Ink Jy, Plunger Aetal .875 inch rt Master View -	All			
	Part	Master View - All			63	1 3 9 3
	Part Nu	umber	Description	Rev	Stock UOM	
	1	B-01	Assembly, Barrel, Blue	A	EA	Each
	2	B-02	Assembly, Barrel, Red	A	EA	Each
	3	BP-1	Barrel, Top Half, Blue	A	EA	Each
	4	BP-2	Barrel, Bottom Half, Blue	A	EA	Each
	5	BP-3	Ring, Metal .250 diameter	A	EA	Each
1	6	BP-4	Clip, Pocket Metal 1.5 inch	В	EA	Each
1	7	BP-5	Barrel, Top Half, Red	A	EA	Each
	No	BP-6	Barrel, Bottom Half, Red	A	EA	Each
	À	▶ BPP-100	Assembly, Ball Point Pen, Blue	В	EA	Each
	10	BPP-200	Assembly, Ball Point Pen, Red	В	EA	Each
	11	BPP-x300	Custom Ball Point Pen, Red, Stamped with	В	EA	Each
	12	C-01	Assembly, Cartridge, Blue Ink	С	EA	Each
	13	C-02	Assembly, Cartridge, Red Ink	С	EA	Each
	14	CP-1	Ball Point	В	EA	Each
	15	IN-01	Ink, Blue	В	FO	Fluid Ounce (
	16	IN-02	Ink, Red	В	FO	Fluid Ounce (
]<	W 00		In I	1 50	
					Edit	Close

If the part is an assembly, its components will be displayed. A plus sign will indicate additional levels of subassemblies or components.

Click on the plus sign to expand the structure and display these elements.

Click on the minus sign to collapse the structure.

🗳 GUI BOM	
 BPP-100 - Assembly, Ball Point Pen, Blue 10 : B-01(1.00) - Assembly, Barrel, Blue 10 : BP-1(1.00) - Barrel, Top Half, Blue 20 : BP-2(1.00) - Barrel, Bottom Half, Blue 30 : BP-3(1.00) - Ring, Metal .250 diameter 40 : BP-4(1.00) - Clip, Pocket Metal 1.5 inch 20 : C-01(1.00) - Assembly, Cartridge, Blue Ink 10 : CP-1(1.00) - Ball Point 20 : T-01(1.00) - Tube, Plastic clear 3.25 inch 30 : IN-01(0.50) - Ink, Blue 30 : PL-01(1.00) - Assembly, Plunger 10 : PL-1(1.00) - Tube, Upper molded plastic, 1.750 inches long 20 : PL-2(1.00) - Tube, Lower molded plastic, .375 inches long 30 : PL-3(1.00) - Plunger, Metal .500 inch 40 : S-01(1.00) - Spring, Metal .875 inch 	
Clear	Edit Close

You can drag additional parts or subassemblies into the structure until you have the entire structure defined. Do not drag a part off of the work area, to remove a component, highlight the component in the product structure and click on the Delete Button.

To Edit a Product Structure Record from the GUI BOM

In the work area, highlight a component of an assembly and click on the Edit Button to open the BOM Edit window. All existing field values will be displayed in the Component Tab.

e ^e BOM				
Assembly	B-01	Revision A	Stock UOM Each	
	Assembly, Barrel, Blue			
Component	BP-1	А	Each	
	Barrel, Top Half, Blue			
Component Notes Ref D	esignators			
Item Sequence	10			
0 0 D				
Quantity Per				
Effective Date	11/ 9 /2005 💌			
Obsolete Date	11/ 9 /2005 💌			
BOM UOM Code				
				OK Close

- 1. The assembly the part belongs to and the component part number display at the top of the window along with their revisions.
- 2. Enter/change the Item Sequence.
- 3. Enter/change the quantity (per) of this part needed to complete one assembly.
- 4. Enter/change the BOM UOM code, if different from the Stock UOM.
- 5. Enter/change the Effective Date (the date you want the system to begin planning for this part).
- 6. Enter an Obsolete if needed. (The date you want the system to discontinue planning for this part.)
- 7. Click on the Notes Tab to enter any notes you want associated with the part.
- 8. When you are satisfied with the structure you have created, click Save to save your structure.
- 9. Click on the Ref Designators Tab to enter any reference designators or notes you want associated with the component. This is normally used to identify like parts on a drawing or BOM when more than one (1) per is used on an assembly.

Assembly B-01 Revision Stock UOM Assembly, Barrel, Blue A Each Component BP-1 A Each Barrel, Top Half, Blue A Each Component Notes Ref Designators Add Ref Designator Description I B-01 Test Ref Des Copy		e ^e BOM
Assembly, Barrel, Blue Component BP-1 A Each Barrel, Top Half, Blue Component Notes Ref Designators Add Ref Designator Description Image: Copy i	Revision Stock UOM A Each	Assembly B
Component BP-1 A Each Barrel, Top Half, Blue Component Notes Ref Designators Add Ref Designator Description Edit Test Ref Des Copy	arrel, Blue	As
Barrel, Top Half, Blue Component Notes Ref Designators Add Ref Designator Description I B-01 Test Ref Des Copy Edit	A Each	Component
Component Notes Ref Designators Add Ref Designator Description Edit Test Ref Des Copy	Half, Blue	Ba
Add Ref Designator Description Edit 1 B-01 Test Ref Des Copy		Component Notes Ref Desi
Delete	ription Ref Des Copy	Add Ref Designator
OK (OK Close	

CAUTION

If you add, modify or delete a component of an assembly, that change becomes permanent to the assembly and also applies wherever that assembly is used within all product structures.

Product Structure

After you have entered all parts into the Part Master you can use them to create your product structures (Bills of Materials), that is, an assembly made up of components and/or subassemblies. You can select parts from the Part Master and assign them to an assembly using the Product Structure data entry form, or you can drag-and-drop parts into a graphical structure using the GUI BOM. Once you have created a product structure, you can view it either from the GUI BOM or the Product Structure View list. Each method is described in the following sections.

NOTE:

The GUI BOM work area is a place to drag and drop parts from a part master list or view to create your Product Structures, rather than by manually entering the parts into a data entry screen to create your Product Structures.

ALSO NOTE:

A BOM is Bill of Materials, a Product Structure is a Bill of Materials, an assembly that has components is a Bill of Materials.

Creating a New Bill of Materials Using the Product Structure

One approach to creating a product structure begins with the lowest level subassemblies and builds to the top level assembly. The following instructions use this model. If all part numbers for raw materials, subassemblies and assemblies have been entered in your Part Master, you are ready to begin.

Define all sub-assemblies and components in the structure

Select Products>Product Structure>New, to open a blank BOM data entry form. At a minimum, you must enter an Assembly, a Component and a Quantity Per to create a valid BOM record.

🗳 BOM				
Assembly 🖸		Revision	Stock UOM	
Component 🛛 🚫				
Component Notes Ref Des	signators			
Item Sequence				
Quantity Per	1			
Effective Date				
Ubsolete Date	<u>III17972005</u>			
BOM UOM Code				
				DK Close

- 1. Enter the Assembly part number. The parts description will display below the part number.
- 2. Enter a component part number. The parts description will display below the part number field.

Components Tab

- 1. Enter an item sequence number for this component. It is a good idea to enter component numbers that allow you some capability to add/insert additional items later. For example, use item numbers such as 10, 20, and 30 rather than 1, 2, and 3.
- 2. Enter the quantity of this component used in creating one of this assembly.
- 3. Enter the effective date to begin planning for this part in MRP (optional). MRP will plan immediately if this field is left blank.
- 4. If you are phasing in a new part with a different number, you can specify an obsolete date for the old part to exclude it from planning on a specific date.
- 5. Enter the BOM UOM Code for this part used in manufacturing this assembly if it differs from the parts stocking UOM. Enter a code or click the BOM UOM hyperlink to select one from the UOM Code table. If you leave this field blank, the stock UOM will be used.

NOTE:

The system won't allow you to enter a duplicate part in a product structure, or use a subassembly within itself. If you enter a duplicate number by mistake, the green arrows will change to red icons and the error message "Record already exists" will display in the tool tip (to display tool tip error messages, hold the mouse cursor over the red icon).

Note Tab

Enter unlimited notes relevant to this part in this assembly.

Ref Designators Tab

A reference designator where a component is located on a drawing or in assembly instructions, and can be used for material preparation, insertion, and/or lead forming information.

You can create virtually unlimited reference designators for every component/assembly relationship in your product structure. For example, if you create a circuit board that calls out three of switch "A" and three of switch "B"; the reference designator for switch "A" could be S1, S2, and S4, as positions on the circuit board; the reference designator for switch "B" could be positions S3, S5, and S6. Or, you could enter unlimited text instructions in the Notes field such as, "all leads must be tinned before insertion."

Adding a Reference Designator to a component record

Click the Ref Designator tab. A list of any reference designators created for the component displays.

📽 Ref Designators			
		Revision	Stock UOM
Assembly	B-01	А	Each
	Assembly, Barrel, Blue		
Component	BP-1	А	Each
	Barrel, Top Half, Blue		
Ref Designator 🗧	3		
Description			
Notes			
			Close

- 1. Click Add to open a blank Reference Designator dialog box.
- 2. Enter a code or drawing reference designator.
- 3. Enter a description of the reference designator, if needed.
- 4. In the Notes area, enter a detailed instruction for the reference designator, if needed. The code, description and notes will print in the BOM with References Report.

5. Click Close to exit the Reference Designator tab and return to the BOM data entry form, then do one of the following:

Click Save to save your entries and leave the form open.

Click Add to add another assembly/component.

Click OK to save your entries and exit the form.

Click Close to exit without saving. (Previously saved entries will be saved.)

Accessing Product Structure data

After parts are entered in the Product Structure forms, either from Product Structure or GUI BOM, Alliance/MFG gives you a number of options for accessing the data.

From the Products Menu

The main menu is the first access level. From here you can go straight to a blank Product Structure data entry form, edit existing product structures, or see a list of all product structures. You can copy a BOM, globally replace a component, or execute a Where Used search by using a predefined query.

<u>P</u> art Master Documents Engineering Change Notice GUI BOM	* * *	
P <u>r</u> oduct Structure	•	New
P <u>a</u> rt Cross Reference <u>R</u> eports		Edit
		<u>C</u> opy BOM Delete BOM <u>R</u> eplace Component
		<u>A</u> ll <u>B</u> ill Of Materials (By Assembly) <u>W</u> here Used (By Component)

From the Product Structure (BOM) View

The records displayed in the Product Structure (BOM) View depend on the query you select.
📽 Produ	📽 Product Structure (BOM) View - All								
Product Structure (BOM) View - All 😽 🖥 🕹 💎 🖓									
Item		Component	Quantity Per	BOM UOM Code	Component Description	Assembly	Assembly Description 🚽		
1 🕨	10	BP-1	1.00	EA	Barrel, Top Half, Blue	B-01	Assembly, Barrel, Blue		
2	20	BP-2	1.00	EA	Barrel, Bottom Half, Blue	B-01	Assembly, Barrel, Blue		
3	30	BP-3	1.00	EA	Ring, Metal .250 diameter	B-01	Assembly, Barrel, Blue		
4	40	BP-4	1.00	EA	Clip, Pocket Metal 1.5 inch	B-01	Assembly, Barrel, Blue		
5	10	BP-5	1.00	EA	Barrel, Top Half, Red	B-02	Assembly, Barrel, Red		
6	20	BP-6	1.00	EA	Barrel, Bottom Half, Red	B-02	Assembly, Barrel, Red		
7	30	BP-3	1.00	EA	Ring, Metal .250 diameter	B-02	Assembly, Barrel, Red		
8	40	BP-4	1.00	EA	Clip, Pocket Metal 1.5 inch	B-02	Assembly, Barrel, Red		
9	10	B-01	1.00	EA	Assembly, Barrel, Blue	BPP-100	Assembly, Ball Point Pen, Blue		
10	20	C-01	1.00	EA	Assembly, Cartridge, Blue Ink	BPP-100	Assembly, Ball Point Pen, Blue		
11	30	PL-01	1.00	EA	Assembly, Plunger	BPP-100	Assembly, Ball Point Pen, Blue		
12	40	S-01	1.00	EA	Spring, Metal .875 inch	BPP-100	Assembly, Ball Point Pen, Blue		
13	10	B-02	1.00	EA	Assembly, Barrel, Red	BPP-200	Assembly, Ball Point Pen, Red		
14	20	C-02	1.00	EA	Assembly, Cartridge, Red Ink	BPP-200	Assembly, Ball Point Pen, Red		
15	30	PL-01	1.00	EA	Assembly, Plunger	BPP-200	Assembly, Ball Point Pen, Red 🛛 💌		
<u> </u>									
							Edit Close		

From here you can add, edit, or delete records; or via the sidebar you can drill down or access all data related to assemblies and components (part numbers) in the system; preview or print any BOM related reports.

Сору ВОМ

Often components in one BOM are similar to components in another. You can copy components from one assembly to another using the Copy BOM Query. Once the items are copied, you can then edit the BOM for minor differences before saving.

To Copy Components from one BOM to another

Select Products>Product Structure>Copy BOM. The Copy Product Structure query opens.

📽 Copy BOM	
<u>From</u>	
To	
	<u>⊻</u>
Сору	Close

- 1. In the From field, enter a part number to copy.
- 2. In the To field, enter a part number to copy to.
- 3. Click Copy.

Replace Component

You may have occasion to replace a component in all BOM's. Use the Replace Component query to select the component to replace and the part to replace it with.

To Replace Components in a BOM

Select Products>Product Structure>Replace Component. The Replace Product Structure query opens.

* Replace Co	mponent	
Replace		
<u>With</u>		
		<
Replace		Close

- 1. In the Replace field, enter a component to replace.
- 2. In the With field, enter a component to replace it with.
- 3. Click Replace. Note: Always use this feature with caution; once the replace button is clicked the action cannot be stopped until completed.

Viewing a sample Product Structure

Using examples from the Pen Database, you can look at the product structure for BPP-100, Assembly, Barrel, Blue.

	duct Stru	cture (BOM)	View - Asser	nbly (BP	P-100)						
rodu	uct Structur	e (BOM) View -	Assembly (BPP-	100)						👪 📑 🕹 🜱 🎐	
		Component	Quantity Per	BOM UO	M Code	Compon	ent Description	Assembly	Assemb	bly Description	
	10	B-01	1.00	EA		Assemb	ly, Barrel, Blue	BPP-100	Assem	bly, Ball Point Pen, Blue	
_	20	C-01	1.00	EA	1	Assemb	ly, Cartridge, Blue Ink	BPP-100	Assem	bly, Ball Point Pen, Blue	
_	30	PL-01	1.00	EA		Assemb	ly, Plunger	BPP-100	Assem	bly, Ball Point Pen, Blue	
_	40	S-01	1.00	EA		Spring,	Metal .875 inch	BPP-100	Assem	bly, Ball Point Pen, Blue	
				1						>	
	📽 Prodi	ict Structur	e (BOM) View	/ - Assem	nbly (B-0'	1)					
	Product	t Structure (BO	M) View - Assem	ibly (B-01)						👸 🖪 🕹 🗧	23
	Item	Co	mponent Qua	ntity Per	ВОМ ИОМ	l Code	Component Description	n	Assembly	Assembly Description	
	1	10 BF	21	1.00	EA		Barrel, Top Half, Blue	Barrel, Top Half, Blue B		Assembly, Barrel, Blue	
	2	20 BF	² -2	1.00	EA		Barrel, Bottom Half, Bl	ue	B-01	Assembly, Barrel, Blue	
	3	30 BF	v.3	1.00	EA		Ring, Metal .250 diam	eter	B-01	Assembly, Barrel, Blue	
	4	40 BF	.4	1.00	EA		Clip, Pocket Metal 1.5	inch	B-01	Assembly, Barrel, Blue	_
	<			100							Į.
										Edit Clo	se

- In the Part Master View list, select BPP-100, then via the sidebar, click Product Structure (BOM) View. The Product Structure (BOM) View list shows the parts and subassemblies that make up Assembly BPP-100 (a finished product). This view tells you that there are four items in the assembly and how many of each item is used in the assembly.
- 2. Click on Item Sequence 10, component B-01, then via the sidebar select Component BOM View, to drill down or view the components for that subassembly, you may continue to drill down through all levels of a product structure. In this example, all second level components are raw materials, and no additional drill down is necessary.

CAUTION !

If you add, modify or delete a component of an assembly, that change becomes permanent to the assembly and also applies wherever that assembly is used within all product structures.

Part Cross Reference

You can relate your part numbers to OEM, customer, and supplier part numbers. You can also attach helpful purchasing information such as Supplier Prices, Supplier Currency, Priority, Supplier Lead Times, and check whether or not the supplier is an approved source. Every part can have an unlimited number of cross reference part numbers and descriptions. Customer and Supplier cross references can be printed on Purchase Orders and Sales Orders.

Creating a new Cross Reference

Select Product>Part Cross Reference>New from the main menu, or click Add New from the Cross Reference View. A blank Part X-Reference data entry form opens.

🗳 Part X-Reference				
Part Number	BP-1 Barrel, Top Half, Blue	Revision A	Stock UOM Each	
Part Cross Reference	AVI564			
Supplier/Customer ID	ASSMB			
Description Approved Source Supplier Leadtime Price <u>Currency Code</u>	Pantone 286C, Top Barrel	Supplier Rating User Defined 1 User Defined 2		1.00
				OK Close

- 1. Enter a part number or click the hyperlink to choose one from the Part Master View. The Revision and Stock UOM display from the Part Master record for the part.
- 2. Enter a Part Cross Reference to your part. This can be any combination of numbers or characters.
- 3. Enter the Supplier ID for the Part Cross Reference number.
- 4. In the lower half of the window, enter a description for the cross reference.
- 5. Select Approved Source if this supplier has been approved for this part.
- 6. Enter a Supplier Lead Time.
- 7. Enter the suppliers Price.
- Enter or select the suppliers Currency Code. The Purchase Order currency is defaulted from the Suppliers Currency Code. If the Part Cross Reference currency code entered here is different from the purchase orders Currency Code, the PO line item price will be set to zero (0).

- 9. Enter a Supplier Rating, if desired.
- 10. Enter any additional codes or references in the User Defined fields.
- 11. When you have completed your entries, do one of the following:

Click Save to save your entries and leave the form open.

Click Add to continue to add new cross references.

Click OK to save your entries and exit the window.

Click Close to exit the window without saving.

Accessing Part Cross Reference Data

Once your part cross references are created, Alliance/MFG gives you a number of options for accessing the data.

From the Products Menu

The main menu is the first access level. From here you can go straight to a blank Cross Reference data entry form, edit an existing cross reference, or use a predefined to locate specific records.

From the Part Cross Reference View

The records displayed in the Part Cross Reference View depend on the query you select.

📽 Part (📽 Part Cross Reference View - All								
Part Cro	Part Cross Reference View - All 👸 📓 💐 🖓 🍉								
Part Numb	er	Cross Reference	Description	Supplier/Custo	Approved Source	Supplier Price	Leadtime	Currency Code	
1 🕨	BP-1	AVI564	Pantone 286C, Top Barrel	ASSMB	~	\$0.05	4	US	
2	BP-1	KIJ86HJ	Top Barrel	CASTL		\$0.06	7	US	
3	BP-1	PL05-286	Top Barrel	OASIS		\$0.06	5		
4	BP-2	AVI563	Pantone 286C, Bottom Barrel	ASSMB		\$0.05	4	US	
5	BP-2	MIJ86BJ	Bottom Barrel	CASTL		\$0.06	7		
6	BP-2	PL15-286	Bottom Barrel	OASIS		\$0.06	5	US	
7	BP-3	25674	Ring	PSLNO		\$0.02	4		
8	BP-3	S1064L3	Ring	REBDN		\$0.02	5		
9	BP-4	25705	Ring	PSLNO		\$0.02	4		
10	BP-4	S2946B4	Ring	REBDN		\$0.03	5		
11	BP-5	AVI572	Pantone 186C, Top Barrel	ASSMB		\$0.05	4	US	
12	BP-5	KII86HJ	Barrel Top	CASTL		\$0.06	7		
13	BP-5	PL08-186	Top Barrel	OASIS		\$0.06	5		
14	BP-6	AVI571	Pantone 186C, Bottom Barrel	ASSMB		\$0.00	4	US	
15	BP-6	MII86BJ		CASTL		\$0.00	7		
16	BP-6	PL18-186		OASIS		\$0.00	5		
17	BPP-100	1-UNR-AA		FENCO		\$0.00	0		
18	BPP-x300	300MC800	McLaren Part Number	MCLAR		\$0.00	0	US	
19	C-01	1WQ676		BLAIR		\$0.00	7		
20	C-01	778JUN3		MRKPH		\$0.00	10		~
	Edit Close								

From here you can add, edit, or delete a record; or via the sidebar you can drill down or access related data; preview or print a report.

Products Reports

The following reports are available from the Products menu. You can preview or print a report from a predefined query, or create a custom query to display specific information in an Alliance/MFG standard format. For more information about Alliance/MFG reports, see the Technical Reference.

Bill of Materials BOM with References Costed BOM – Pending Costs Costed BOM – Standard Costs Engineering Change Notice Indented BOM Indented Costed BOM Parallel Indented Costed BOM Part Master List Part Cross References Where Used

Working with Demand



Demand Menu Functions

This section describes how to maintain your customers and contacts, create and maintain forecasts, create, maintain and *release The authorization to produce or ship material that has already been ordered.* blanket/contract orders, enter and ship sales orders, invoice customers for shipments; and how to track discrete costs through the system using the *Job Master Maintains a Job Number and description for each job being tracked as a discrete cost entity throughout the system and lets you view details associated with that job.*

Creating Demand in your System

Alliance/MFG is designed around the concept of "Supply and Demand." The customer orders and forecasts you create are the "demand" that, through the action of running and responding to MRP, generate purchase orders and work orders (the supply) in the system.

Tasks described in this section assume familiarity with the basic use of Alliance/MFG data lists, data entry forms, dialog boxes, queries, and finding and sorting features. If you need more information about how to use these features, review the System Overview section.

Customers

Alliance/MFG gives you a variety of fields to use when creating your customer records. In addition to basic information such as billing and shipping address, terms, and contact information; you can assign credit limits, hold shipments, and apply three different sales discount types. You can access sales order, invoice, and shipment activity for a customer, and drill down from any of these to get more detail.

Creating New Customer Information

Enter a customer record for each customer you sell to. If you have not yet defined codes related to customers; such as FOB, Region, Terms, Discounts, Ship Via, and Currency Codes; you should complete this task before entering customer records (Review the Setting Up Your Company section if you need more information.)

Adding a Customer record

Select Demand>Customers>New from the main menu to open a blank

📽 Customers		
Customer ID	AASIC Active Flag	
Customer Name	AASI Co., Inc.	
Customer Notes Default C	odes Discount Type Addresses	
Date Added	2 /26/2003	
Credit Limit	\$0.00	
Ship Hold Flag	No No	
Salesperson ID	20-HCC Confrey, Heather C	
User Defined 1		
VAT Registration Number	VAT Branch ID	
Web Page		Open

At a minimum, you must enter a Customer ID and Customer Name to create a valid record.

LINK NOTE:

If you use an Alliance Accounting Link, this code and name may need to match the record in your accounting package.

Customer Tab

1. Enter a date. The system will default to the current date; however, you can use the calendar box to select a different date.

- 2. Enter a Credit Limit, if needed. This entry is optional and for information only. If you track this information, you could apply ship holds as necessary.
- 3. Select the Ship Hold Flag to prevent a sales order shipment for a customer. This flag will override the "Sales Order" Ship Hold flag on an individual sales order for the customer. (A Ship Hold applied on an individual Sales Order for a customer without a "customer" Ship Hold will only prevent shipment of that order.) Once a customer Ship Hold is applied, all sales orders placed for that customer will automatically be on Ship Hold Status.
- 4. Enter the Salespersons ID. All sales orders generated for this customer will be linked to this Salesperson ID. You can override this setting from the Sales Order data entry form.
- 5. You can enter a up to 10-characters in the User Defined field for any additional code, number, or item you wish the system to display. You can query on this field, or include it on Customer Reports.
- 6. Enter a VAT Registration Number if you're part of the European Economic Community. This number is used in Intrastat Reporting to track Value Added Tax payments and receipts.
- 7. Enter a VAT Branch ID.
- 8. Enter the URL of the customer's website or a path to a document or contract you want to associate with this customer.

NOTE:

For more information about setting up Intrastat Reporting, see the Setting Up Your Company (ICN Codes, ICN Rates, Region/Country Codes), and the Inventory Control, Intrastat Reporting sections.

Notes Tab

Enter unlimited notes into the customer record. Type into the body or copy/paste from another Windows program or text file.

Default Codes Tab

Enter the customer's default codes. These codes will default values to new customer sales orders.

- 1. Enter an FOB code. (This field will default to the FOB Code field on the Sales Order data entry form.) The code name will display next to the field.
- Enter a Region code. (This field will default to the Region code field on the Sales Order data entry form.) This information is also used with Intrastat Reporting. The code name will display next to the field.
- 3. Enter a Terms code. (This field will default to the Terms Code field on the Sales Order data entry form.) The code name will display next to the field.
- 4. Enter a Ship Via code. (This field will default to the Ship Via Code field on the Sales Order data entry form.) The code name will display next to the field.
- 5. Enter a Currency code. (This field will default to the Currency Code field on the Sales Order data entry form.) The code name will display next to the field.

Discount Type Tab

You can assign a customer one of three price discount types; None, Discount %, or Quantity Discounts. This discount will be automatically calculated and applied to all new customer sales orders. You can override this discount if you wish. The discount is applied after the quantity field is entered on the sales order line item. Discount % and Customer Discount Levels must exist in your codes tables so you can enter or select them here. For more information about creating and applying these codes, see the <u>Codes</u> section, and Setting up Customer Discounts.

📽 Customers			
Customer ID	AASIC	Active Flag	
Customer Name	AASI Co., Inc.		
L			
Customer Notes Default C	odes Discount Type	Addresses	
Price Discount Type	Quantity Discount	s 💙	
Price Code			
Customer Discount Level	RESLR		
	Hesellers w/Agree	ments	
			OK Close

- Select a Price Discount Type from the drop-down list. The Price Code or Customer Discount Level fields are enabled depending on your selection. If you select None, you are finished with this tab. If you select Discount %, the Price Code field is enabled; see Step 2. If you select Quantity Discounts, the Customer Discount Level field is enabled; see Step 3.
- 2. Discount % Enter the discount code in the field or select from the Price Code hyperlink.
- 3. Quantity Discounts Enter the customer level in the field or select from the Customer Discount Levels hyperlink.

Addresses Tab

You will enter customer address information via the Addresses tab. You can assign as many customer bill to and ship to addresses as needed. If you only define one (1) Ship To Address and one (1) Bill To Address these values will default to new sales orders for that customer.

📽 Custor	mer	5					
Customer ID			AASIC	Active Flag			
Customer	Nam	e	AASI Co., Inc.				
Customer	Not	es Default C	odes Discount	Type Addresse	s		
Add		Address ID	Bill To Flag	Ship To Flag	City	State	Zip Cod
	1	000001	Yes	Yes	Deerfield Bea	FL	33442
Delete							
	<]					>
						OK	Close

Adding an Address ID

In the Addresses tab, click Add to open a blank Customer Address data entry form.

📽 Customer Address			
Customer ID	AASIC	Bill To Flag	
Address ID	000001	Ship To Flag	
Addresses Contacts			
Address Line 1	19923 Lamolita		
Address Line 2			
Address Line 3			
Address Line 4			
<u>City</u>	Deerfield Beach		
<u>State</u>	FL	Zip Code	33442
Country	USA	Postal	
<u>Tax Code</u>	NON	0.00 Non-Taxable	
			Close

- 1. Enter an Address ID at the top of the form. You could use "Ship To" or "Bill To", an abbreviated city or location, or a store # or ID.
- 2. Both the Ship To and Bill To flags default as checked, if this is OK move to the Address Tab, or uncheck if incorrect.
- 3. Enter up to four address lines for this ID.
- 4. Enter the City, State, Zip Code, Country, and Postal code, as needed.
- 5. Enter a Tax Code. This will be the default tax rate for taxable items on sales orders with this address.
- 6. When you are finished, do one of the following:

Click the Contacts tab to add contact information for this address.

Click Close. The Address is added to the body of the Customers Addresses tab.

Click Add to enter additional addresses as required.

Adding Contact Information

Click the Contacts tab.

🗳 Custo	omer	Address					
Customer ID Address ID		[AASIC 000001		Bill To Fla Ship To Fl	ag	V
Addresse	s Co	ontacts					
Add		Address ID	Contact ID	Name	Phone 1	Fax 1	Email Address
	1	000001	00001	Tullio Merolla	(954) 956-1574	(954) 497-4641	
Edit	2	000001	00002	Caroline Totarc		(954) 497-4641	
Delete							
							Close

- 1. Click the Add button to open a blank enter form.
- Enter a Contact ID at the top of the form. This could be the contact's initials, first name, or simply a number. If you define a single ShipTo Address with a single Ship To Contact, and a single Bill To Address with a single Bill To Contact, these values will default to new sales orders for that customer.

- 3. Enter the Contact Name, Phone and Fax numbers, and e-mail address, if applicable.
- 4. Click the Notes tab to enter any additional information you wish to store in the system about the contact.
- 5. Click close to return to the Customer form and click OK or Save to save your entries.

Accessing Customer Data

Once customers are added to the system, Alliance/MFG gives you a number of ways to access the data.

From the Demand Menu

Select Demand>Customers from the main menu. From here you can use the submenus to go straight to a blank data entry form to enter new customer records, edit existing records; or use predefined queries and wild cards to locate specific records.

From the Customer View

🗳 Custo	🕈 Customers View - All										
Custome	Customers View - All 😫 📓 🕹 🌱 🍉										
Customer I	D	Customer Name	Region Code	Active	Ship Hold?	Discount Level	Salesperson				
1 🕨	AASIC	AASI Co., Inc.	S			RESLR	20-HCC				
2	AMS-UK	Alliance Pens Ltd	UK			DISTR	20-HCC				
3	BLUES	Blue Star Supply	W			DISTR	55-JAT				
4	FENCO	Fenco Ltd.	S			DISTR	20-HCC				
5	HANFD	Hanford's Stationery	E			RESLR	90-KEM				
6	HAYES	Hayes Inc.	N			RESLR	90-KEM				
7	MCLAR	McLaren Distributors	AU			DISTR	20-HCC				
8	OFFMX	Office Max	W				55-JAT				
9	PAPRB	Paper Barn	W			RETL	55-JAT				
10	SOLED	Soledad Office Products	W			RETL	55-JAT				
11	TRIDA	Tridata	E				90-KEM				
	Edit Close										

The records displayed in the Customer View depend on the query you select.

From here you can add, edit, or delete a record; or via the sidebar you can drill down or access related data; preview or print a report.

Forecasts

Forecasting is a powerful production management tool that projects expected demand over a predetermined planning period. With forecasting, you can create a demand on the manufacturing process based on anticipated seasonal orders. For example, if you know from experience that December is an exceptionally large month and you have had trouble meeting orders in the past because of inadequate supplies, you may want to enter a "holiday forecast" to help prepare for the anticipated surge in demand.

Overview

MRP recommendations based on forecasted demand represent an accurate picture of what you can expect and what you must purchase or manufacture to meet your anticipated demand.

You can prepare multiple "what if" forecast scenarios and analyze their impact on the system. For example, you could create three forecasts for a product, each for a different quantity, all with the same dates. Run MRP three times, each time with a different forecast included in the calculation. From the results, you can easily see where the process is compromised, select the forecast that best suits your needs, and proceed.

This section gives you the basic ground rules for forecasting, briefly describes the use of time fences in forecasting, and tells you how to create and maintain forecasts in Alliance/MFG.

Ground Rules for Forecasting

- Forecasts within the time fence parameter are ignored
- All past due forecasts are ignored
- All open sales orders lines that have scheduled ship dates within the forecast period will consume the forecast
- If sales order quantities exceed forecast quantities within the forecast period, the system plans for the greater quantity

Using a Time Fence

A **time fence** A date or period of time that indicates to MRP that forecasts within this period should be ignored and only actual sales orders should be planned. For example, if you forecast 100 of part A for the 6th, with a time fence of 3, on and after the third, MRP will ignore the forecast. defines a time boundary inside which the forecast will be ignored and only actual sales orders will be used for planning. The boundary is set based on the forecast period end date. By accurately defining your time fence, you can reallocate inventory planned for, but not consumed.

Creating and Maintaining Forecasts

Forecasts affect MRP the same way sales orders affect MRP, except that no customer information is entered. Parts entered in forecasts are normally finished products, spare parts, or repair items. When you enter a forecast, you can choose to include it or exclude it from an MRP calculation.

To create a forecast:

Select Demand>Forecasts>New from the main menu to open a blank Forecast data entry form.

- 1. Enter a Forecast ID.
- 2. Enter the forecast information in the tabs as described in the following paragraphs.

📽 Forecast			
Forecast ID	3rdQtr2000		
Forecast Notes Forecast	Parts		
Employee ID	20-HCC	Confrey, Heather C	
Origination Date	10/21/2005		
Include in MRP Calculations	No No		
			OK Close

Forecast Tab

- 1. Enter an Employee ID.
- 2. Select an Origination date from the Calendar box.
- 3. Select Include in MRP Calculation if you wish your forecast to be considered in MRP planning. (The space bar toggles this selection on and off.)

Notes Tab

Enter unlimited notes about the forecast.

Forecast Parts Tab

Click the Part Numbers tab to open the Forecast Parts data entry form.

📽 Fore	ast	
Forecas	t ID 3n	dQtr2000
Forecast	Notes Forecast Pa	ts
Add	Part Number	Actual Sales Time Fence
	1 BPP-100	30
Edit	2 BPP-200	30
Delete		
Delete		
		OK Close

- 1. The Forecast ID displays at the top of the form.
- 2. Click Add to enter a part number and time fence. The Forecast Parts data entry form opens.
- 3. In the Sales Horizon tab, enter the number of days from the end of the forecast period the forecast should be ignored

💣 Forecast Parts		
Forecast ID <u>Part Number</u>	3rdQtr2000 BPP-100 Assembly, Ball Point Pen, Blue	
Sales Horizon Forecast Qu	antity	
Actual Sales Time Fence	30	
		Close

Example: For your September Forecast, starting on the 1st and ending on the 30th, you forecast sales of 50 units. In your business you estimate that if sales haven't been booked by the 20th of the month, they will probably not happen that month. Set your time fence at 10 days. When MRP is run on the 20th (or after), if you have only booked 40 sales the system will ignore the forecast and free up that inventory to be used somewhere else.

Forecast Quantity Tab

📽 Fore	cast l	Parts					
Forecas	:t ID	3	BrdQtr2000				
Part Nu	<u>mber</u>	E	3PP-100				
		A	ssembly, Ball Point Pen,	Blue			
Sales Ho	rizon	Forecast Quan	tity				
Add		Quantity ID	Forecast Start Date	Forecast End Dat	e Forecast Quantity		
	1	1	11/30/2005	12/25/2005	10,000.00		
Edit	2	2	12/28/2005	1/29/2006	11,000.00		
	3	3	2/1/2006	2/26/2006	12,000.00		
Delete	Delete						
	<u> </u>						
						Close	

1. In the Forecast Quantity tab, click Add to open the Forecast Quantity data entry form.

- 2. Enter Start and End dates for the forecast. The forecast demand for inventory will be planned for the start date.
- 3. Enter a Forecast Quantity. The forecast quantity will be consumed (reduced by) all sales order lines with scheduled ship dates that fall within the date range.
- 4. When you are finished, do one of the following:

Click Close to save your entries and return to the Forecasts Parts form.

Click Add to open a blank Forecast Parts data entry form and create forecasts for a different part number, repeating the previous steps.

Accessing Forecast Data

Once forecasts are added to the system, Alliance/MFG gives you a number of ways to access the data.

From the Demand Menu

The main menu is the first access level. From here you can go straight to a blank data entry form to create a new forecast, edit existing forecasts, or use a predefined and wild cards to locate a specific record.

From the Forecast View

The records displayed in the Forecast View depend on the query you select.

📽 Forecasts View - All							
Forecasts View - All 🛛 👸 📓 🕹 💎 🍉							
Forecast II	D	Originator	Origination Date	MRP	Employee ID		
1 🕨	3rdQtr2000	Confrey	10/21/2005		20-HCC		
2	JanSpecial	Confrey	10/21/2005		20-HCC		
Edit Close							

From here, you can add, edit, or delete a record; or via the sidebar you can drill down or access related data; preview or print a report.

Quotations

The Quotations function allows you to create and maintain unlimited quotes for a customer or prospective customer. Enter as much or as little information as you need. When and if the order is awarded, you may convert the quotation into an actual customer order to be included in the MRP calculation as demand for a product or service. Quotations will require a valid part number and customer when converted to a sales order, until then you may keep related information in a notes field, if desired. If the quote is for a prospective customer and you don't wish to enter all prospects into your customer file, just keep the information in the quotes Notes field and only add the prospect if you actually get the order.

Creating a Quote

Select Demand>Quotations>New, to open a blank Quotation data entry form.

Entering Quotation Information

The Quote data entry form opens at the Order tab. Header information will remain in view as you work your way through the tabs. As quotation line items are entered, the Quote Total amount value will display at the bottom of the form.

* Quotation			
Quote Number <u>Customer ID</u>	1:[Auto Nu Customer E	Defaults	Create Sales Order Scheduled Ship Date 12/27/2005 - Create
Order Lines Notes			
Expiration Date	12/27/2005	Bill To A	ddress
Salesperson	SUPERVISOR		
Currency Code	Supervisor, Created by MFG	Bill To U	ontact
Currency Rate	1	<u>Ship To</u>	Address
User Field 1		Ship To	Contact
Price Discount Type			
Quote Total Amount	\$0.00		
			OK Close

Header Information

- 1. If you specified auto numbering in your Company Preferences, the next incremental quotation number will be entered automatically when you save the order, otherwise you must enter a unique quotation number.
- 2. Enter a Customer ID. The customer name displays below the field.

3. Customer Defaults Button - When you select a Customer ID, default customer information such as Currency Code, Salesperson ID, Bill To and Ship To Address values are defaulted from the Customer record to the new quote. You may change the default values as needed. If you make changes, then decide to return to defaults, simply click the Customer Defaults button to refresh.

Order Tab

- 1. Enter a quote Expiration Date, this date will determine if the quote is open or closed. If the date is less than today the quote will be considered closed.
- 2. Enter the Employee ID of the salesperson to be referenced with the order. The employee name displays below the field. This value will default if set up on the customer record otherwise the login user id will be defaulted.
- 3. Enter a valid currency code. The exchange rate will be displayed.
- If there is only one customer Bill To, Ship To, Bill To Contact and Ship To Contact these values will default from the customer record. If there is no customer record, do not enter these fields.

* Quotation					
Quote Number Customer ID	QT05120001 AASIC AASI Co., Inc.	Customer Defaults	ם (Create Sales Scheduled Sł	Drder nip Date 12/27/2005 - Create
Order Lines Notes					
Expiration Date Salesperson Currency Code Currency Rate User Field 1	 ✓ 1 /31/2006 ▼ 20-HCC Confrey, Heather C US US Dollars 1 		<u>Bill To Ac</u> Deerfiel <u>Bill To Cc</u> Tullio M <u>Ship To A</u> Ship To C	tdress d Beach erolla Address d Beach Contact	000001 FL 00001 (954) 956-1574 000001 FL 00002
Price Discount Type	2 - Quantity Discount	RESLR	Caroline	e Totaro	
Quote Total Amount	\$0.	00			OK Close

Lines Tab

The lines tab gives you access to line item detail including line number, cross reference, part number, quantity, price and tax information. From here you can edit existing line items or add new ones. The Quote Detail data entry form contains two tabs, line and notes. The form opens at the Line tab, and displays the Quotation Number, Customer ID, Customer Discount Type and Line Number in the header. Here you may enter detailed information about the part quoted; including the quantity, price, discount given and any tax information. At a minimum you must enter a part number and quantity to create a valid line record. If there is no part number, you may use the Line Notes Tab to enter a description of the item being quoted and any additional required information.

- CALL	otat	ion						
Quote N <u>Custom</u> e	lumbe <u>er ID</u>	r	QT05120001 AASIC AASI Co., Inc.	Customer	Defaults	Create Sale: Scheduled S	s Order Ship Date	2/27/2005 • Create
Order	Lines	Notes						
[bbA		Line Number	Part Number	Quantity	Price	Extended Amount	Sales UOM	
	1	001	BPP-100	100.00	\$1.25	\$125.00	EA	
Edit	2	002	BPP-100	500.00	\$1.15	\$575.00	EA	
	3	003	BPP-100	1,000.00	\$1.13	\$1,125.00	EA	
	4	004	BPP-100	2,500.00	\$1.05	\$2,625.00	EA	
Delete								
Quote	Total A	Amount	\$4,	450.00				

Click the Add button on the left side of the form to open the Quotation Detail data entry form.

📽 Quote Detail					
Quote Number	QT05120001		Line Number	001	DECLD
	AASIC		Price Discount Type	2 - Quantity Discount	RESLR
Line Notes					
<u>PartXReference</u>					
Part Number	BPP-100	Asse	embly, Ball Point Pen, Blue		
Quantity		100.00	Discount %		0.00
Price		\$1.25	List Price		\$1.25
Taxable Flag		<u>Tax Code</u>	NON		0.00
Sales UOM	EA		Stock UOM	EA	
User Defined 1			Extended Price		\$125.00
User Defined 2			Base Tax		\$0.00
			Line Subtotal		\$125.00
					\$120.00
					Close

- 1. Enter a cross-reference to the customer's part number if required. If only one (1) customer cross reference exists for the part number entered and it is checked as an Approved Source, the cross reference field will be defaulted. (Optional field)
- 2. Enter the part number. The part number will default if you entered a Part Cross Reference above.
- 3. Enter the quantity ordered for this line item.
- 4. Enter the unit price. If the customer record is set up for a discount, that discount will be applied automatically, or you can manually enter the customer price. The list price for the part will be displayed for information only.
- 5. If this line item is taxable, select the **Taxable Flag** A check box used to turn sales tax on or off. If the part taxable flag is set up in the Part Master this flag will be defaulted to True. Enter a Tax Code. If the part taxable flag and tax code are set up in the Part Master this value will be defaulted.
- 6. If the Sales UOM is different than the Stocking UOM, enter the sales UOM code.
- 7. The Line Amounts box displays the line item price multiplied by the quantity as the Line Amount, adds any Base Tax applied, then computes the Line Subtotal.

Line Notes Tab

The line notes tab can be used in lieu of entering a part number or to hold additional information about that line.

NOTE:

All data in both the header and the line notes fields print on the Quotation Report. DO NOT enter sensitive data or data not meant to be viewed by your customers. If you need to enter sensitive data, first modify the Quotation Report to disable the printing of these fields.

📽 Quote Detail				
Quote Number	QT05120001	Line Number	001	
Customer ID	AASIC	Price Discount Type	2 - Quantity Discount	RESLR
Line Notes				
Blue Ball Point Pens Quantity	1 - 100 \$1.25 Each, Quantity 101-	500 \$1.15 Each, Quantity 50	1 - 1,000 \$1.10	
				Close

Notes Tab

If you do not intend to create line items and/or part numbers you may use the notes tab on the quotation header to define the quote details. Nothing else is needed until you are awarded the quote and intend to convert it to a customer sales order.

Sales Orders

Sales orders are the primary demand that drives the system. Once sales orders are entered into the system, MRP will use the part numbers, quantities, required dates, and planning codes to plan material requirements and create planned orders. (Planned sales orders, closed sales orders and sales order line items marked "closed" do not generate demand.) The system also uses customer and sales order data to create reports, shipping documents and invoices.

Sales order entry, blanket orders, customers, shipments, invoices, and returns are all maintained through the Demand menu.

If you have not yet defined customers and codes related to customers such as FOB, Region, Terms, Ship Via, and Currency Codes; you should complete this task before to entering sales orders.

Creating a sales order

There are two methods for maintaining and entering sales orders in Alliance/MFG, *Advanced* and *Easy Entry*. The *Advanced* method gives you more capabilities and additional field selections without having to toggle between screens to enter alternative data or change default values. On the other hand, if your customers can be set up with standard default values and only basic data is required, the *Easy Entry* method might save you entry time and efforts. You can toggle from the *Advanced* method to the *Easy Entry* method by clicking on the <u>Easy Entry</u> hyperlink in the upper right hand corner of the entry screen, you may also toggle back to the *Advanced* screen using the <u>Advanced</u> hyperlink.

Select Demand>Sales Orders>New, to open a blank Sales Order data entry form. The last type of entry screen (Advanced or Easy Entry) used will open. The Advanced method is detailed below and the Easy Entry method will be described at the end of this section. Blanket or Contract Orders, which can also be used to create sales orders, are discussed later in this section.

o [®] Sales Orders				
Sales Order	S000080001	Status	Firm 💌	Easy Entry
Customer ID	TRIDA	Closed	Ship Hold?	
Customer Defaults	Tridata			

The Advanced Sales Order data entry form opens at the Order tab. **Header** A record containing common, constant, or identifying information for a group of records which follows. information will remain in view as you work your way through the tabs. As sales order line items are entered, the Sales Order Total amount and the Total Remaining value display at the bottom of the form.

Sales Order Header

- 1. If you specified auto numbering in your Company Preferences, the next incremental sales order number will be entered automatically when you save the order, otherwise you must enter a unique sales order number.
- 2. Enter a Customer ID. The customer name displays below the field.

- 3. Customer Defaults Button When you select a Customer ID, default information such as Terms, Ship Via and FOB values are defaulted from the Customer record. If you make changes, then decide to return to defaults, simply click the Customer Defaults button to refresh.
- 4. The Status is automatically defaulted to Firm when creating a new sales order. If the sales order is created from a Blanket Order the status will be defaulted to Planned. Caution, Planned sales orders are considered in MRP calculations but CANNOT be shipped until changed to Firm. See Blanket Orders later in this chapter.
- 5. When entering a new sales order, the Closed box should be unchecked. You can return to select the Closed check box when the order is shipped or close it automatically from the Shipping transaction form.
- 6. Select the Ship Hold box to prevent this order from shipping. If Ship Hold? has been applied on the customer record, the customer record status will override this entry.

* Sales Orders					
Sales Order <u>Customer ID</u> Customer Defaults Order Customer Lines	S000080001 TRIDA Tridata	Status Closed	Firm	♥ Ship Hold?	Easy Entry
Order Date Date Required Date Promised Department Code Salesperson Job Number Class Code	Image: 10/26/2005 ▼ Image: 2 /25/2006 ▼ Image: 2 /25/2005 ▼ Image: 2 /25/200]	Ordered By Customer PO Attention <u>Blanket Order Numb</u> Quote Number Order Type User Field 1 Entered By	Bill P0990020 Bill FAX	
SO Total Amount	\$808.	13	SO Remaining Amou	nt	\$808.13 OK Close

Order Tab

- 1. Order Date The Order Date defaults to "today's" date, or you can use the calendar box to specify a different date.
- Date Required The Date Required defaults to "today's" date, or you can use the calendar box to specify a different date. This is the date MRP will plan to ship the order on. Activate the date by checking the checkbox.
- 3. Date Promised The Date Promised defaults to "today's" date, or you can use the calendar box to specify a different date. This is the date you promised the customer to deliver on. This date in for information only, it is NOT used by MRP.

- Department Code The Department Code value will default if set up in Company Preferences or you may enter a Department Code. The department account number displays below the code field. This should be the department associated with the GL account for this order (normally COGS).
- Salesperson Enter the Employee ID of the salesperson to be referenced with the order. The employee name displays below the field. This value will default if set up on the customer record.
- 6. Job Number If you wish to use the Job Tracking feature, enter the job number. The Job Number description displays below the field.
- 7. Class Code The Class Code is for QuickBooks accounting link use See your QuickBooks accounting link Help File or Users Guide.
- 8. Ordered By You may enter the name of the customer contact or the person placing the order.
- 9. Customer PO You may enter the Customer PO number. This information is optional; however, if you use it, you can access sales orders for this customer PO using the predefined queries on the Sales Orders submenu.
- 10. Attention An entry in the Attention field will be printed on the Alliance/MFG shipping documents.
- 11. Blanket Order You may enter a Blanket Order number. If this SO was created from a Blanket/Contract Order this field will be defaulted.
- 12. Quote Number Enter a quote number, if applicable.
- 13. Order Type Enter Phone, FAX, EDI, or another method to denote how the order was placed.
- 14. Entered By The Entered By field value will default to the user login id.
- 15. SO Total Amount and SO Remaining Amount are system calculated values.

Customer Tab

When you select a customer in the SO Header, the system defaults the customer's code data. You may change the data if required. Code descriptions display below the fields.

* Sales Orders			
Sales Order <u>Customer ID</u> Customer Defaults	S000080001 Status TRIDA Closed Tridata	Firm	Easy Entry Hold?
Order Customer Lines	Notes		
<u>Terms Code</u> <u>Region Code</u> <u>F.O.B. Code</u> <u>Ship Via Code</u> <u>Currency Code</u> Currency Rate	N30 Net Amt Due in 30 Days E Eastern US SD Shipping Dock UP1 UPS Red - Next Day US US Dollars 1	Bill To Address Pittsburgh Bill To Contact Michael Lallen Ship To Address Pittsburgh Ship To Contact Sarah Ben	000001 PA 00001 (412) 462-4515 000001 Upd. Tax PA b0002
Price Discount Type	0 - No Discount	Document Path	Open
SO Total Amount	\$808.13	SO Remaining Amount	\$808.13 OK Close

- 1. Enter a Terms code or accept this customers default entry.
- 2. Enter a Region code or accept this customers default entry.
- 3. Enter an F.O.B. code or accept this customers default entry.
- 4. Enter a Ship Via code or accept this customers default entry.
- 5. Enter the Currency Code or accept this customers default entry. This currency and exchange rate will be displayed when you print the sales order report. The Conversion Rate will display based on the rate entered in the Currency Code Table.
- 6. Enter a Bill To Address ID or accept this customers default entry.
- 7. Enter a Bill To Contact or accept this customers default entry.
- 8. Enter a Ship To Address ID or accept this customers default entry.
- 9. Enter a Ship To Contact or accept this customers default entry.
- 10. Enter a Document Path if you are referencing a drawing, contract or other document (This field is for internal use only and will not print on the sales order).

NOTE:

If the Ship To Address or shipping method has changed you may update the SO line items tax code by pressing the Update Tax (Upd.Tax) button.

Lines tab

The sales order lines tab gives you access to line item detail on the sales order including line number, part, quantity, and tax information.

° Sale	es C	orders								
Sales O	Irder		SO00080001	Statu	s Fir	m 💌	Easy Entry			
Custom	mer ID TRIDA Closed Ship Hold?									
Custom	istomer Defaults Tridata									
Order	Custon	ner Lines	Notes							
Add		SO Line	Closed Flag	Part Number	Scheduled Ship Date	Quantity Ordered	Sales UOM	Quantity Shipped		
	1	001	No	BPP-100	2/25/2006	200.00		0.00		
Edit	2	002	No	BPP-100	3/28/2006	200.00		0.00		
	3	003	No	BPP-100	4/28/2006	200.00		0.00		
Delete) < "	н						3		
SO Tol	tal Amo	ount		\$808.13	SO Remaining Am	ount	\$808.13			
								OK Close		

From here you can edit existing line items or add line items.

Click the Add button on the left side of the form to open the Sales Order Detail data entry form.

NOTE:

The New and Copy New buttons on the toolbar are for creating another sales order, not adding a line item.

- The SO Detail data entry form contains two tabs. The form opens at the Line tab, and displays the SO Number, Customer ID, and SO Line in the header. Enter detailed information about the part ordered; including the quantity, scheduled ship date, and tax information. At a minimum you must enter a part number and quantity to create a valid record.
- 2. Enter a cross-reference to the customer's part number if required. If only one (1) customer cross reference exists for the part number entered and it is checked as an Approved Source, the cross reference field will be defaulted. (Optional)
- 3. Enter the part number. The part number will default if you entered a Part Cross Reference above.

📽 Sales Order De	etail				
SO Number	S000080001	SO Line	001	Price Discount Type	
Customer ID	TRIDA	<u>Blanket Order Li</u>	ne		
Line More Notes					
PartXReference			Customer L	ine	
Part Number	BPP-100	Assem	bly, Ball Point Pen, Blue		
Quantity Ordered	2	200.00	Discount %	0.00	
Customer Price		\$1.25	List Price	\$1.25	
				_	
Taxable Flag	V	Tax Code	SB	7.75	
Sales UOM			Stock UOM	EA	
Scheduled Ship Date	2 /25/2006 💌		Extended Price	\$250.00	
Closed Flag			Base Tax	\$19.38	
			Line Subtotal	\$269.38	
				(Close

- 1. Enter the quantity ordered for this line item and sales UOM.
- 2. The customer price will default from the customer part cross-reference.

NOTE:

If the part cross reference currency code does not match the sales order currency code the price will be set to zero (0).

If no part cross reference exists for this customer the price will default from the part master List Price. If the customer record is set up for a discount, that discount will be applied automatically, or you can manually enter the customer's price. The list price for the part will be displayed for information only.

NOTE:

If the customer's currency code is different from your base currency code and the exchange rate is greater than 1.0, the Exchange Price field will be displayed. You may enter a fixed exchange price and Alliance will convert this amount to your base currency using the currency exchange rate table.

- 1. If this line item is taxable, select the Taxable Flag. If the part taxable flag is set up in the Part Master this flag will be defaulted to True.
- 2. If you select Taxable, enter a Tax Code. If the part taxable flag and tax code are set up in the Part Master this value will be defaulted.
- 3. If the Required Date was entered on the sales order header that value will be defaulted to the Scheduled Ship Date; however, you can override it on a line item basis if you wish. Use the calendar box to select a different date.

- 4. Check the Closed? box if this line item is closed. MRP will only plan open line items. Closing an order on the Sales Order header will automatically close all line items, regardless of whether this box is checked.
- 5. The Line Amounts box displays the line item value multiplied by the quantity as the Line Amount, adds any Base Tax applied, then computes the Line Subtotal.

More Tab

Click the More tab to enter additional line information such as Product Class Code and any multitiered tax values.

📽 Sales Order D	etail			
SO Number Customer ID	S000080001 S0 Lir TRIDA Blanke	ne 001 et Order Line	Price Discount Type	
Line More Notes				
Product Class Code Class Code				
Tax on Tax 2	Tax Code 2		0.00	
Tax on Tax 3	Tax Code 3		0.00	
Line Amounts Base Tax Subtotal 2nd Tax 3rd Tax	\$19.38 \$269.38 \$0.00 \$0.00	User Defined 2 User Defined 1 Last Ship Date		
Line Total	\$269.38	Quantity Shipped Quantity Returned		0.00 0.00
				Close

The system will apply the Base Tax rate by default. However, you can enter 2nd and 3rd Tax Rates in the appropriate fields to apply multi-tiered (compound) tax rates. To apply these taxes, do one or both of the following:

NOTE:

You must select the Taxable Flag in the Line Tab to enable the multi-tier tax fields on the More Tab.

Select the *Tax on Tax 2* checkbox to apply a second tax amount to the original subtotal (quantity x price plus tax), enter the second Tax Code you wish to apply.

Or leave the *Tax on Tax 2* checkbox empty to apply a second tax amount to the original quantity x price only (the no tax on tax option).

Select the *Tax on Tax 3* checkbox to apply a third tax amount to the original subtotal (quantity x price plus tax), enter the third Tax Code you wish to apply.

Or leave the *Tax on Tax 3* checkbox empty to apply a third tax amount to the original quantity x price only (again the no tax on tax option).

The Line Amounts box will display the Base Tax from the previous tab, compute a subtotal, then compute and add a 2nd and 3rd tax as applicable to compute the Extended price for this line item.

- 1. Last Ship Date Displays the last ship date for this line item.
- 2. Quantity Shipped Displays all quantity shipped against this line item.
- 3. Quantity Returned Displays all quantity returned for this line item.
- 4. When you have finished entering or editing line items, do one of the following:

Click Save to save all entries and leave the form open.

Click OK to save all entries and exit the Sales Orders data entry form.

Click Close to exit the form without saving any entries not saved previously.

Using the Easy Entry Sales Order method

There are two methods for maintaining and entering sales orders in Alliance/MFG, *Advanced* and *Easy Entry*. If your customers can be set up with standard default values and most of the time only basic data is required, the *Easy Entry* method might save you entry time and efforts.

Select Demand>Sales Orders>New, to open a blank Sales Order data entry form. The last type of entry screen (Advanced or Easy Entry) used will open. You can toggle from the Advanced method to the Easy Entry method by clicking on the Easy Entry hyperlink in the upper right hand corner of the entry screen, you can also toggle to the Advanced screen using the Advanced hyperlink. The Easy Entry method is detailed below and the Advanced method is described at the beginning of this section.

* Sales	Orders							
			Sa	les O	Advanced			
Exal			Sales C SOOO	Sales Order Number Or S000080001				Customer ID TRIDA
<u>Bill To:</u>	Tridata 121 Market Pittsburgh, F	Ave. PA 15222		<u>Ship To:</u>	Tric 121 Pitt	lata Market Ave. sburgh, PA 15	222	
<u>Contact</u>	Michael Lall	en (412) 462-4515		<u>Contact</u>	Sar	ah Ben		
Notes								
Closed		<u>Terms</u> Net Amt Due in 30 Days	Ship Via <u>FOB</u> UPS Red - Next Day Shipping Dock				lock	US
Custon P0990020	ner PO	Sales Person 20-HCC		Quote Number		Job Num	ber	Required Date
Line	Part Number	Description		Quantity	UOM	Regd Date	Price	Ext Price
	1			1		1		
	SO Total An	nount \$0.00		SO Re	maining	g Amount	\$0.00	
								OK Close

The Easy Entry Sales Order data entry form opens. All information entered will remain in view as you work your way through the form. As sales order line items are entered, the Sales Order Total amount and the Total Remaining value display at the bottom of the form.

Entering Sales Order Header Information

- 1. If you specified auto numbering in your Company Preferences, the next incremental sales order number will be entered automatically when you save the order, otherwise you must enter a unique sales order number.
- 2. The Order Date defaults to "today's" date, or you can use the calendar box to specify a different date.
- 3. Enter a Customer ID or click on the Customer ID hyperlink to select from your customer table. When you enter a Customer ID, default customer information such as Terms, Ship Via and FOB codes are defaulted from the customer record to the sales order, additionally, if you defined a single ShipTo Address with a single Ship To Contact, and a single Bill To Address with a single Bill To Contact, these values will also default to a new sales order. If the values did not default click on the hyperlink to select them from their appropriate tables.
- 4. To enter sales order notes click on the Notes hyperlink, enter your notes and click the Close button. The first line of the notes will be visible on the sales order.
- 5. When entering a new sales order, the Closed box will normally be clear. You can return to select this box when the order is shipped or you may close it from the Shipping transaction form.
- 6. Enter a Terms code or accept this customer's default entry.

- 7. Enter an F.O.B. code or accept this customer's default entry.
- 8. Enter a Ship Via code or accept this customer's default entry.
- 9. Enter the Currency Code or accept this customer's default entry. When you print the sales order report, this currency and exchange rate will be displayed. The Currency Rate will calculate and display based on the conversion rate between your base company currency code and the customer currency code.
- 10. Enter the Customer PO number. This information is optional; however, if you use it, you can access sales orders for this customer using the predefined queries on the Sales Order submenu.
- 11. Enter the Employee ID of the salesperson associated with the order. This value will default if set up on the customer record.
- 12. Enter a quote number, if applicable. If you are creating a quote, mark the order Closed to prevent it from creating demand until it is a firm sales order.
- 13. If you wish to use the Job Tracking feature, enter the Job Number or click on the Job Number hyperlink to select from your Job table.
- 14. Enter the date the customer requests the completed order. The Required Date defaults to "today's" date, or you can use the calendar box to specify a different date. If you enter a date here it will automatically default to all line items.

NOTE:

If you make changes to defaulted fields, then decide to return to default values, simply click the Advanced hyperlink, click the Customer Defaults button to refresh the default values, then click the Easy Entry hyperlink to return to this form.

Adding a new Sales Order Line item

📽 Sales 🛛	Orders									
			;	Sal	es O	rd	er		A	dvanced
Exact				Sales Order Number Ord S000080001			Order Da 10/26/20	ate 105 💌	TF	Customer ID RIDA
Bill To: Tridata 121 Market Ave. Pittsburgh, PA 15222					<u>Ship To:</u>	Tric 121 Pitt	lata Market Ave. sburgh, PA 152	222		
<u>Contact</u>	Contact Michael Lallen (412) 462-4515				<u>Contact</u>	Sar	ah Ben			
Closed Closed Net Amt Due in 30 Days			<u>Ship Via</u> UPS Red - Next Day		зу	FOB Shipping Dock		Currency US		
Custom P09900201	ier PO	20-H	<u>Sales Person</u> ICC	Quote Number					2 /25/2006 -	
Line	Part Number		Description	iw.	Quantity	UOM	Regd Date	Price		Ext Price
▼ 001	BPP-100		Assembly, Ball Poi	nt Pen, B	200.00		2/25/2006		\$1.25	\$269.38
▼ 002	BPP-100		Assembly, Ball Poi	nt Pen, B	200.00		3/28/2006		\$1.25	\$269.38
▼ 003	BPP-100		Assembly, Ball Poi	nt Pen, B	200.00		4/28/2006	6	\$1.25	\$269.38
Notes			\$808.13		SO Rei	mainin	<u>l</u> g Amount	\$808.	13	
Advance	d									OK Close
Delete										
MRP Det Inventor	tail y Summary	,								

- 1. Tab into or click in the Part Number field, enter a part number or click on the elispse button to select one from the part master table. The part description will default from the Part Master table.
- 2. Enter the quantity ordered for this line item in the sales UOM. As soon as you leave the quantity field the customer's price will be calculated based on the customers part cross-reference and/or discount codes if applicable.
- 3. If the Sales UOM is different than the Stocking UOM, enter the sales UOM code.
- 4. Enter the date the customer requests the completed order. The Required Date defaults to "today's" date, or you can use the calendar box to specify a different date. If you entered a date in the sales order header it will automatically default to all line items.
- 5. The Extended Price field is automatically calculated by multiplying the line item price by the quantity then adding any base tax applied.
- 6. If you have correctly entered your line items a green "+" will be displayed in the Line field (the green plus sign will change to a line number when the record is saved. If any field is invalid a red "X" will be displayed in the Line field and the invalid field will display a red background, the Save and OK buttons will be disabled.

7. Click on the down arrow in the Line field to add notes to that line item, toggle to the Advanced Line Item entry form for that line item, delete that line item or to view the MRP Action screen or Inventory Lots screen for that part number.

Click Save to save all entries and leave the form open.

Click OK to save all entries and exit the Sales Orders data entry form.

Click Close to exit the form without saving any entries not saved previously.

NOTE:

The fields shown below are part of the complete sales order record even though they are not displayed on the Easy Entry form. Some of these fields may default from related tables. They can be viewed, entered and edited by clicking on one of the Advanced hyperlink toggles. If one of these fields is invalid the Save and OK buttons will be disabled and the record cannot be saved.

Advanced Sales Order fields not displayed

Sales Order Header

- 1. Department code, the departments account number will display below this field. This should be the department associated with the GL account for this order (usually COGS). This value will default if set up in Company Preferences.
- 2. Ordered By, the name of the customer contact or the person placing the order. (Optional)
- 3. Attention, an entry in this field will be printed on the shipping documents. (Optional)
- 4. Order Type, enter Phone, FAX, EDI, Blanket, or another method to indicate the order type. (Optional)
- 5. User Field 1, (Optional)
- 6. Ship Hold, select the Ship Hold box to prevent this order from shipping. If Ship Hold? has been applied on the customer record, the customer record entry will override this entry.
- 7. Class Code, the Class Code is for QuickBooks accounting link use. See your QuickBooks accounting link Help File or Users Guide.
- 8. Document Path, you may enter a Document Path if you are referencing a drawing, contract or other document (This field is for internal use only and will not print on the sales order).

Sales Order Line Item

- Part X Reference, enter a cross-reference to the customer's part number if needed. If only one (1) customer cross reference exists for the part number entered and it is checked as an Approved Source, the cross reference field will be defaulted.(Optional)
- 2. Part number, the part number will default if you entered a Part Cross Reference above.
- Taxable Flag, if the part taxable flag is set up in the Part Master this flag will be defaulted to True. The Tax Code can be defaulted from either the customers ship to address record or the part master record.
- 4. Closed? Check the box if this line item is closed. MRP will only plan open line items. Closing an order on the Sales Order header will automatically close all line items, regardless of whether this box is checked.

Sales Order Line More Tab

- 5. The system will apply the Base Tax rate by default. However, you can enter 2nd and 3rd Tax Rates in the appropriate fields to apply multi-tiered (compound) tax rates. To apply these taxes, do one or both of the following:
- 6. Select the Tax on Tax 2 checkbox to apply a second tax amount to the original subtotal (quantity x price plus tax), enter the second Tax Code you wish to apply. Or leave the Tax on Tax 2 checkbox empty to apply a second tax amount to the original quantity x price only (the no tax on tax option).
- 7. Select the Tax on Tax 3 checkbox to apply a third tax amount to the original subtotal (quantity x price plus tax), enter the third Tax Code you wish to apply. Or leave the Tax on Tax 3 checkbox empty to apply a third tax amount to the original quantity x price only (again the no tax on tax option).

Click Save to save all entries and leave the form open.

Click OK to save all entries and exit the Sales Orders data entry form.

Click Close to exit the form without saving any entries not saved previously.

Accessing Sales Order Data

Once sales orders are added to the system, Alliance/MFG gives you a number of ways to access the data.

From the Demand Menu

Select Demand>Sales Orders from the main menu. From here you can go straight to a new, blank Sales Order data entry form, edit an existing sales order, or use predefined queries and wild cards to locate specific records.

From the Sales Order View

The records displayed in the Sales Order View depend on the query you select.

📽 Sales Orders View - All											
Sales Orders View - All 👸 📓 🕹 🌱 🍉											
Sales Ord	er	Closed Flag	Customer ID	Ship Hold?	Required Date	Customer PO	Order Date	Job Number	Sales Person		
1 🕨	SO00080001		TRIDA		2/25/2006	P09900201	10/26/2005		20-HCC		
2	SO00080002		SOLED		12/13/2005		10/26/2005		20-HCC		
3	SO00080003		PAPRB		10/26/2005	Verbal	10/26/2005	M2000	90-KEM		
4	SO00080004		MCLAR		11/13/2005		10/26/2005		20-HCC		
5	SO00080005		MCLAR		12/13/2005		10/26/2005		20-HCC		
6	SO00080006		BLUES		1/18/2006		10/26/2005		20-HCC		
7	SO00080007		OFFMX		2/7/2006	99876543	10/26/2005	M2000	90-KEM		
8	SO00080008		FENCO		12/30/2005		10/26/2005	FEN-105	20-HCC		
9	SO00080009		HANFD		11/29/2005	Verbal	10/26/2005		90-KEM		
10	SO05110001		FENCO		12/9/2005	20059984	11/7/2005		20-HCC		
11	SO05110002		OFFMX		11/25/2005	P00599372	11/7/2005		20-HCC		
<											
								Edit	Close		

From here you can add, edit, or delete a record; or via the sidebar you can drill down or access related data; preview or print a report.

Blanket Orders

The Alliance/MFG Blanket Order feature provides the tools for managing quantities and scheduling shipments originating from a contract. The Blanket order defines the contracted quantity and rests atop the Sales Order, effectively controlling the "Firming" and "Release" of the scheduled shipments. The shipping schedule may or may not be agreed to in advance (Firm), it may be updated as the dates move in on the planning horizon and additional information about actual requirements is known. The existing sales order in Alliance essentially stays the same, with a few additional fields required by the blanket order. Customer defaults, contract pricing and billing information will automatically default from the blanket order to each sales order created. You may enter different Ship To information for each firm release (sales order) as needed. You can create both planned and firm shipment schedules (sales orders), the only difference is you cannot ship a planned shipment (sales order). Planned sales orders created from blanket orders are not ignored by MRP. If you want to plan material for the entire contract quantity, you must create either Firm or Planned Shipments (sales orders) for the entire blanket order quantity. As you manage the blanket order shipment quantities and dates, MRP will manage the material plan accordingly. The blanket order will contain summary information for quantity, price, firm orders, planned orders, shipped, past due, returned and allocations remaining.

Creating a Blanket or Contract Order

Select Demand>Blanket Orders>New, to open a blank Blanket Order data entry form. When creating a blanket or contract order you will normally go through the same steps as when creating a sales order.

The Blanket Order data entry form opens at the Order tab. Header information will remain in view as you work your way through the tabs. As order line items are entered additional summary information will display at the bottom of the form.

📽 Blanket Orde	r Header				
Blanket Order Number	B005000001			Closed	
Customer ID	AASIC Customer Defaults	AASI Co., Inc.			
Order Customer Lines	Notes				
Order Total		\$0.00	Firm Total		\$0.00
					OK Close

Blanket Order Header

- 1. If you specified auto numbering in your Company Preferences, the next incremental blanket order number will be entered automatically when you save the order, otherwise you must enter a unique blanket order number.
- 2. Enter a Customer ID. The customer name displays below the field.
- 3. Customer Defaults Button When you select a Customer ID, default information such as Terms, Ship Via and FOB values are defaulted from the Customer record. If you make changes, then decide to return to defaults, simply click the Customer Defaults button to refresh.
4. When entering a new blanket order, the Closed box should be unchecked. You can return to select this box when the entire contract order is shipped.

Order Tab

- 1. The Order Date defaults to "today's" date, or you can use the calendar box to specify a different date.
- 2. Enter the name of the customer contact or the person placing the order.
- Enter the Customer PO number. This information is optional; however, if you use it, you can
 access sales orders for this customer PO using the predefined queries on the Blanket Orders
 submenu.
- 4. Enter the Employee ID of the salesperson to be referenced with the order. The employee name displays below the field. This value will default if maintained in the customer record.
- 5. If you wish to use the Job Tracking feature, enter the job number. The Job Number description displays below the field.
- 6. The Date Required defaults to "today's" date, or you can use the calendar box to specify a different date. This is the date MRP will plan to ship the order on. Activate the date by checking the checkbox.
- 7. Enter a Ship Via code or accept this customers default entry.
- 8. Enter a Ship To Address ID or accept this customers default entry. This field will only default if a single Ship To address is maintained for this customer. Right click to view All ship to addresses for this customer.
- Enter a Ship To Contact or accept this customers default entry. This field will only default if a single Ship To Contact is set up for this address. Right click to view All ship to contacts for this ship to address.
- 10. An entry in the Attention field will be printed on the shipping documents.
- 11. The Create Sales Order check box is used to create Planned and Firm sales orders. The use of this Create button will be discussed as the final step of the Blanket Order section.

📽 Blanket Orde	r Header			K
Blanket Order Number	B005000001		Closed	
Customer ID	AASIC AASI Co., Ir	nc.		
	Customer Defaults			
Order Customer Lines	Notes			
		Create Sales Order		
Order Date	I2/27/2005 ▼	Date Required	12/27/2005	
Ordered By	Caroline	Ship To Address	000001	
		Deerfield Beach	FL	
Customer PO	P02006891	Ship To Contact	00002	
		Laroline I otaro		
<u>Salesperson</u>	20-HCC Confrey Heather C	Ship Via Code	UPS	
Job Number		Attention	Caroline	
<u>JOD Wander</u>		Adendon	Caroline	
			Create	
Order Total	\$0.00	Firm Total	\$0.00	
			OK Close]

Customer Tab

When you select a customer in the Blanket Order Header, the system defaults customer's data. You may change the data if required. The code descriptions display below the code fields.

📽 Blanket Orde	r Header		
Blanket Order Number <u>Customer ID</u>	B005000001 AASIC AASI Co., Inc Customer Defaults	Closed 🗌	
Order Customer Lines	Notes		
Terms Code	N 30 Net Amt Due in 30 Days	<u>Bill To Address</u> Deerfield Beach	000001 FL
Region Code	S Southern US	<u>Bill To Contact</u> Tullio Merolla	00001 (954) 956-1574
F.O.B. Code	SD Shipping Dock	Department Code	COGS 5000
Currency Code	US US Dollars	User Field 1	
Currency Rate	1	Entered By	SUPERVISOR
Price Discount Type	2 - Quantity Discount RESLR		
Order Total	\$0.00	Firm Total	\$0.00
			OK Close

- 1. Enter a Terms code or accept this customer's default entry.
- 2. Enter a Region code or accept this customer's default entry.
- 3. Enter an F.O.B. code or accept this customer's default entry.
- 4. Enter the Currency Code or accept this customer's default entry. This currency and exchange rate will be displayed when you print the sales order report. The Conversion Rate will display based on the rate entered in the Currency Code Table.
- 5. Enter a Bill To Address ID or accept this customers default entry.
- 6. Enter a Bill To Contact or accept this customers default entry.
- This should be the department associated with the GL account for this order (usually COGS). This value will default if set up in Company Preferences or you may enter a Department Code. The department account number displays below the field.
- 8. Entered By will default to the user login id.

Lines tab

The blanket order lines tab gives you access to line item detail including line number, part, quantity, and tax information. From here you can edit existing line items or add line items.

Click the Add button on the left side of the form to open the Blanket Order Detail data entry form.

The BO Detail data entry form contains three tabs. The form opens at the Line tab, and displays the BO Number, Customer ID, and BO Line in the header. Enter detailed information about the part ordered; including the quantity, scheduled ship date, and tax information. At a minimum you must enter a part number and quantity to create a valid record.

📽 Blanket Order	Detail		
Blanket Order Number	B005000001	Blanket Order Line	001
Customer ID	AASIC	Price Discount Type	2 - Quantity Discount RESLR
Line More Notes			
PartXReference		Customer L	ine
Part Number	BPP-100	Assembly, Ball Point Pen, Blue	
Quantity Ordered	100,000.00	Discount %	0.10
Customer Price	\$1.13	List Price	\$1.25
Taxable Flag <u>Sales UOM</u>	EA	Code NON Stock UOM	0.00 EA
Closed Flag		Extended Price	\$112,500.00
		Base Tax	\$0.00
		Line Subtotal	\$112,500.00
			Close

- 1. Enter a cross-reference to the customer's part number if required. If only one (1) customer cross reference exists for the part number entered and it is checked as an Approved Source, the cross reference field will be defaulted. (Optional)
- 2. Enter the part number. The part number will default if you entered a Part Cross Reference above.
- 3. If the Sales UOM is different than the Stocking UOM, enter the sales UOM code.
- 4. Enter the contract quantity ordered for this line item and sales UOM.
- 5. The customer price will default from the customer part cross-reference. If the customer record is set up for a discount, that discount will be applied automatically, or you can manually enter the customer price. The list price for the part will be displayed for information only.
- 6. If this line item is taxable, select the Taxable Flag. If the part taxable flag is set up in the Part Master this flag will be defaulted to True.
- 7. If you select Taxable, enter a Tax Code. If the part taxable flag and tax code are set up in the Part Master this value will be defaulted.
- Enter a Sales UOM Code if different from the Stocking UOM Code. The stocking UOM is also displayed.

- Check the Closed Flag box if this line item is closed. Closing an order from the Blanket Order header will automatically close all blanket order line items, regardless of whether this box is checked. This flag will NOT affect sales orders created from this blanket order, sales orders must be closed separately.
- 10. Enter a customer line number if desired.
- 11. The Line Amounts box displays the line item value multiplied by the quantity as the Line Amount, adds any Base Tax applied, then computes the Line Subtotal.

NOTE:

If the customer's currency code is different from your base currency code and the exchange rate is not 1.0, the Exchange Price field will be displayed. You may enter a fixed exchange price and Alliance will convert this amount to your base currency using the currency exchange rate table.

More Tab

Click the More tab to enter additional line information such as Product Class Code and any multitiered tax values.

📽 Blanket Orde	r Detail			
Blanket Order Number Customer ID	8005000001 AASIC	Blanket Order Line Price Discount Type	001 2 - Quantity Discount RES	SLR
Line More Notes				
Product Class Code User Defined 1 User Defined 2 Blanket Order Summary Last Ship Date Planned Shipments Past Due Total Shipped Total Returned Total Firmed	BPP100 100 Series 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Tax on Tax 2 <u>Tax Code 2</u> Tax on Tax 3 <u>Tax Code 3</u> Line Amounts Base Tax Subtotal 2nd Tax 3rd Tax	\$0.00 \$112,500.00 \$0.00 \$0.00	0.00
Allocations Remaining	100,000.00	Line Total	\$112,500.00	Close

NOTE:

You must select the Taxable Flag in the Line Tab to enable the multi-tier tax fields on the More Tab.

You can enter 2nd and 3rd Tax Rates in the appropriate fields to apply multi-tiered (compound) tax rates. To apply these taxes, do one or both of the following:

Select the Tax on Tax 2 checkbox to apply a second tax amount to the original subtotal (quantity x price plus tax), enter the second Tax Code you wish to apply.

Or leave the Tax on Tax 2 checkbox empty to apply a second tax amount to the original quantity x price only (the no tax on tax option).

Select the Tax on Tax 3 checkbox to apply a third tax amount to the original subtotal (quantity x price plus tax), enter the third Tax Code you wish to apply.

Or leave the Tax on Tax 3 checkbox empty to apply a third tax amount to the original quantity x price only (again the no tax on tax option).

- 1. The Line Amounts box will display the Base Tax from the previous tab, compute a subtotal, then compute and add a 2nd and 3rd tax as applicable to compute the Extended price for this line item.
- 2. The Blanket Order Summary box will display the current status of this line for this blanket order.
- 3. Last Ship Date Displays the last ship date for this line item.
- Past Due Displays Total Quantity Remaining for open Firm sales orders with past due Required Dates
- 5. Total Shipped Displays the total quantity shipped against this BO line item.
- 6. Total Returned Displays the total quantity returned for this BO line item.
- 7. Planned Shipments Displays the Total Quantity Ordered for Planned sales orders plus the Total Firmed for all Firm sales orders
- 8. Total Firmed Displays the Total Order Quantity for open Firm sales orders or net Quantity Shipped for closed Firm sales orders
- Allocations Remaining Balance of the contract order not planned or firmed (Ignored by MRP)
- 10. When you have finished entering or editing line items, do one of the following:

Click the Save button on the toolbar to save all entries and leave the form open.

Click Close to exit the line item form and return to Blanket Order form, then either

Click OK to save all entries and exit the Blanket Orders data entry form.

Click Close to exit the form without saving any entries not saved previously.

Creating Scheduled Shipments (Sales Orders) from Blanket Orders

You may create as many scheduled shipments (sales orders) as required to consume the entire contract order quantity. If the quantities and required dates are known, create Firm Sales Orders, if the required dates, quantities or ship to locations are not known, but you want to plan materials, create Planned Sales Orders (you will have to establish via your "Best Guess" or a tentative shipping schedule, both the required date and quantity for MRP to plan with).

From the Demand Menu

Select Demand>Blanket Orders from the main menu. From here you can go straight to a new blank Blanket Order data entry form, edit an existing blanket order, view open blanket orders, or use predefined queries and wild cards to locate specific blanket orders.

Example:

- 1. In our example below the quantities and required dates are known for the next quarter only, the balance is subject to minor changes. We will create three (3) Firm sales orders and the balance as quarterly Planned sales orders.
- 2. Select the blanket order you wish to schedule.
- 3. Review the BO Order Tab to insure the Required Date is set for the first Sales Order Ship Date and that the Ship To Address is correct (You may ship to multiple locations, warehouses, etc.). Click the Create Sales Order check box at the top right side of the form, then click the Create button.
- 4. The system will automatically create a Planned Sales Order and default the majority of information from the blanket order.
- 5. If a Promised Date exists, check the box and enter it (informational only). This is normally the required date (Ship Date) plus any transit time. For Firm orders change the Status from Planned to Firm.

& Blanket Order	Header				
Blanket Order Number	B005000001			Closed	
📽 Sales Order	S				
Sales Order Customer ID Customer Defaults	1:[Auto Nu AASIC AASI Co., Inc.	Status Closed	✓ Plann	ned 💽	Easy Entry
Order Date Date Required Date Promised	 ✓ 12/27/2005 ▼ ✓ 1 /13/2006 ▼ ✓ 1 /13/2006 ▼ 		Ordered By Customer PO Attention	✓ Caroline ✓ P0200689 ✓ Caroline	1
Department Code Salesperson	COGS 5000 20-HCC Confrey, Heather C		Blanket Order Numb Quote Number Order Type	B0050000	01
<u>Class Code</u>]	User Field 1 Entered By	SUPERVIS	OR
SO Total Amount	\$0.	00	SO Remaining Amou	nt	\$0.00

6. Verify the information in both the Order Tab and Customer Tab is accurate.

Click on the Line Tab and enter the first shipment quantity. Verify the rest of the information on the Lines Tab is accurate. Click on the More Tab to enter additional taxes or the Notes Tab to enter Notes (Notes will not be automatically defaulted or copied by the system). Click on the Close button, Click on the OK button to save the sales order.

* Sales Order De	etail					
SO Number	S005120001	SO Line		001	Price Discount Type	
Customer ID	AASIC	Blanket Orde	e <u>r Line</u>	001	2 - Quantity Discount	RESLR
Line More Notes						
PartXReference				Customer L	ine	
Part Number	BPP-100	As	sembly, Ball P	oint Pen, Blue		
Quantity Ordered	10,	000.00	Discou			0.10
Customer Price		\$1.13		List Price		\$1.25
Taxable Flag		Tax Code		NON		0.00
Sales UOM	EA		Line Are	Stock UOM	EA	
Scheduled Ship Date	1 /13/2006 💌		Exten	ded Price	\$11	.250.00
Closed Flag			Base	Tax	•	\$0.00
			Line S	ubtotal	\$11	,250.00
						Close

The system will return you to the Blanket Order you started from, continue to create additional firm and planned orders as required. Remember to change the Required Date and Ship To Address as needed before pushing the Create button and the Promise Date and Status before saving the order.

To review the orders you have created and view the current status of the contract/blanket order, click on the Lines Tab, Edit and then the More Tab.

📽 Blanket Orde	r Detail			×
Blanket Order Number Customer ID	8005000001 AASIC	Blanket Order Line Price Discount Type	001 2 - Quantity Discount RESLR	
Line More Notes				
Product Class Code User Defined 1 User Defined 2 Blanket Order Summary Last Ship Date Planned Shipments Past Due Total Shipped Total Shipped Total Returned Total Firmed Allocations Remaining	BPP100 100 Series	Tax on Tax 2 <u>Tax Code 2</u> Tax on Tax 3 <u>Tax Code 3</u> Line Amounts Base Tax Subtotal 2nd Tax 3rd Tax Line Total	0.0 0.0 0.0 0.0 0.0 \$0.00 \$0.00 \$0.00 \$112,500.00	00
			Clos	se

To view a list of all the sales orders created from this blanket order, click on Sales Orders (All) in the Related Views section of the Sidebar.

📽 Sa	ar Sales Orders View - By Blanket Order (B005000001)										
Sale	Sales Orders View - By Blanket Order (BO05000001) 🍪 🗒 💐 🖓 🖗										
Sales O	rder	Closed Flag	Customer ID	Ship Hold?	Required Date	Customer PO	Order Date	Job Number	Sales Person	Salesperson	
1	S005120002		AASIC		2/17/2006	P02006891	12/27/2005		20-HCC	Confrey	
2	SO05120003		AASIC		3/17/2006	P02006891	12/27/2005		20-HCC	Confrey	
3	SO05120004		AASIC		4/14/2006	P02006891	12/27/2005		20-HCC	Confrey	
4	SO05120005		AASIC		7/14/2006	P02006891	12/27/2005		20-HCC	Confrey	
5	SO05120006		AASIC		10/13/2006	P02006891	12/27/2005		20-HCC	Confrey	
6	SO05120001		AASIC		1/13/2006	P02006891	12/27/2005		20-HCC	Confrey	
<											
									Edit	Close	

You may also print the Blanket Order Summary Report, linked in the Sidebar or from the Demand>Reports menu.

1 97%			1 of	1			8 B. M			
			Bla	nket Or	der Su	um	marv			
Blanket Order N B005000001	umber	CI	osed No	Custon	ner ID IC		Order Da 12/27/20	ite 05	Required 10/13/20	Date 06
Line 001	Custor	n er Line	9	Close	d No		Quant	ity Ordered	10	0,000.00
Part Number Part Description	BP As:	P -100 sem bly,	Ball Point	Pen, Blue			Custo List Pr	m er Price rice	- 1	\$1.13 \$1.25
Quantity P rice	ء 100 \$112	Plannec ,000.00 ,500.00	l Shij	pped R 0.00 \$0.00	eturned 0.00 \$0.00		Past Due 0.00 \$0.00	Firm 30,000.00 \$33,750.00	Last S	hip Date
ales Order # Line 005120001 001 005120002 001 005120003 001	Status Firm Firm Firm	Closed No No No	Order Qty 10,000.00 10,000.00 10,000.00	Shipped Qty 0.00 0.00 0.00	Returned	i Qty 0.00 0.00 0.00	Scheduled 1/13/2 2/17/2 3/17/2	Ship Date La: 006 006	st Ship Date	SO Price \$1.13 \$1.13 \$1.13
005120004 001 005120005 001 005120006 001	Planned Planned Planned	INO NO INO	30,000.00 30,000.00 10,000.00	0.00 00.00 00.00	1	00.00 00.00 00.0	4/14/2 7/14/2 10/13/3	:006 :006 2006		\$1.13 \$1.13 \$1.13

Shipments and Returns

Sales Order Shipments

The Alliance/MFG shipments feature is flexible and easy to use. You can ship all lines or a single line item on a sales order, and you can invoice a customer for the sales order shipment. Mark the order closed or leave it open, depending on how much of the order is shipped. Once a sales order is shipped, you can also return individual line items from a customer and issue credit memo's. If you created sales orders from Blanket Orders, you can only ship Firm Sales Orders, not Planned Orders.

Shipping a Sales Order

Select Demand>Sales Order Shipments to open a SO Shipments transaction form. You can ship detail line items from this form. For a new shipment, the lines in the Header of this screen will be empty. As you fill in the sales order number and ship from this sales order, the shipment information displays in the body of the Shipments Tab.

📽 SO Shipn	nents		
SO Number	8	Entered By Tran Group	SUPERVISOR
Ship Date	12/28/2005 💌		
IV Number	🔀 1:[Auto Nu	New Edit Remove	,
Sales Order Detail	Shipments Notes		
Add			
Edit		Ma ana anda ƙasan d	
All		No records round	
Ship Line			
			OK Close

Creating a Sales Order Shipment

- 1. Enter a Sales Order number or right click on the SO Number hyperlink for predefined queries.
- The Ship Date will default to "today's" date. You can use the calendar box to change it if required. Both the entered Ship Date and the actual transaction date will be recorded in the Transaction Log.
- 3. The Entered By field defaults from the system Login. The system also generates a Transaction Group number for each shipment transaction to identify record specific transactions.

4. You can assign this shipment to a new invoice number or add it to an existing one. (See Invoicing a Customer later in this section for more information.) If you selected Invoice Required in your Company Preferences, you must complete the header portion of the invoice prior to shipping the order.

e SO Sh	nipr	nents								
SO Number	<u>[</u>	1	SO 00080001		Entered By			SUPERVISOR		
			TRIDA		Tran Gro	up			-1	
Ship Date		1	12/28/2005	•						
IV Number		[1:[Auto Nu		New	Edit Re	move			
Sales Order I	Detail	Shipment	s Notes							
Add		SO Line	Part Number	Scheduled	Remaining	Shipped	Ordered	Returned	PartXReference	
	1	001	BPP-100	2/25/2006	200.00	0.00	200.00	0.00		
Edit	2	002	BPP-100	3/28/2006	200.00	0.00	200.00	0.00	-	
Delete	3	003	BPP-100	4/28/2006	200.00	0.00	200.00	0.00		
All										
Ship Line										
									OK Close	

Selecting Items for Shipment

All sales order line items are displayed on the SO Detail Tab. You can ship all lines or select a line item for shipment.

- 1. To ship all lines on the sales order, click the All button on the left side of the form. The available inventory for all line items will display in the Quantity Shipped column. The Remaining column will show any balances that were not available for shipment.
- 2. To ship individual line items, highlight the line item you wish to ship, and click Ship Line button. All available stock for the line item selected will display in the Quantity Shipped column. The Remaining column will show any balance not available for shipment.

NOTE:

An invalid icon may appear on the Shipments tab to remind you that you must perform an additional action to complete the shipment; for example, if you have specified Require Invoices in Company Preferences, you must create an invoice before you can complete the transaction.

You can continue to select lines and ship them. When you are finished, click on the Shipments tab. The body of the form will show the quantities shipped and the stockrooms and locations the stock came from.

* SO	📽 SO Shipments 📃 🗆 🔀										
SO Nun	<u>nber</u>	-	S00008000)1	Entered B	ly	SUPERVISOR				
			TRIDA		Tran Grou	τp		-1			
Ship Da	ate		12/28/2	005 💌				_			
IV Num	ber		1:[Auto Nu		New	Edit Remove]				
🖌 Sales	s Orde	r Detail 🛛 🖌	Shipments	Notes							
Add		SO Line	Quantity	Part Number	Stockroom Code	Location Code	SN/Lot Number				
	d 1	001	200.00	BPP-100	PENS	100	FEN-105				
Edit	2	002	200.00	BPP-100	PENS	100	FEN-105				
	- 1 3	003	200.00	BPP-100	PENS	100	FEN-105				
Delete											
								OK Close			

At this point, you can create the invoice, fill in the Bill of Lading, Carrier, and so on. (See Creating and Editing an Invoice, later in this section for more information.)

You can also edit the quantities, stockroom, and location at your discretion; click Apply, and then print shipping documents.

Editing the Shipment

You can edit the quantity shipped and the stockroom and location on a line item in the SO Shipments data entry form.

In the Shipments tab, select the line you wish to edit and click Edit. The Shipments data entry form opens for the line item selected.

* Shipments		
SO Number <u>SO Line</u> Part Number	S000080001 1001 Closed Flag 🔽 BPP-100	
Stockroom Code Location Code SN/Lot Number Job Number Quantity Actual Catch Weight Tran Info	PENS Finished Goods - Pens 100	
		Close

- You can edit the Stockroom, Location, and quantity; add an SN/Lot Number or Job Number; or enter up to 60 characters of your choice in the Tran Info field. If the part master Require SN/Lot Number field is checked you will be required to enter a lot or serial number. Additionally, if the part master record contains a Catch Weight and Catch Weight UOM, you will be required to weigh the shipment.
- 2. When you are satisfied with your shipment, click Close to save your entries and return to the Sales Order Shipments tab.
- 3. When you are satisfied with the line items in the shipments data entry form, you are ready to create an invoice. (See Invoicing a Customer, for more information.)
- 4. When you have finished adding shipments and creating invoices from the Shipment form, do one of the following:

Click Apply so save your entries and leave the form open.

Click OK to save your entries and exit the form.

Click Close to exit the form without saving any entries not applied or saved.

RETURNING A CUSTOMER ORDER

The Alliance/MFG returns feature is flexible and easy to fit to your particular needs. You can return all lines or a single line item on a sales order, and you can issue a credit memo to a customer for all or a single line item or quantity of the sales order. If the sales order has been marked "closed," you must open it to receive returns, and issue a credit memo against it.

Creating a Sales Order Return

Select Demand>Sales Orders>Return a Customer Order to open the Returns data entry form. For a new shipment, the lines in the Header of this screen will be empty. As you fill in the sales order number and return from this sales order, the return information displays in the body of the SO Returns Tab.

& Returns		
S0 Number SI Return Date 12/28/2005 Credit Memo Number SI	Entered By Tran Group New Edit R	SUPERVISOR -1 emove
Sales Order Detail SO Returns Notes Add Edit Delete No records fou All Return Line	nd	
		OK Close

To Create the Sales Order Return

- 1. Enter the Sales Order Number for the item you wish to return.
- 2. The Return Date will default to "today's" date. You can use the calendar box to change it at your discretion.
- 3. The Entered By defaults to the workstation Login ID.
- 4. Enter the Credit Memo Number by clicking on the New Button.

You can assign this return to a new credit memo number or add it to an existing one. (See Creating a Credit Memo for a Customer later in this section for more information.)

Selecting Items for Return

- 1. All sales order line items are displayed on the SO Detail Tab. You can return all lines or select one line item for shipment.
- 2. Click the All button on the left side of the form. The returned quantities will display in the Quantity Returned column.

or

- 3. Select the item you wish to return, and click the Return Line button on the left side of the form. The returned quantity will display in the Quantity Returned column.
- 4. You can continue to select and return lines. When you are finished, click the SO Returns tab. The body of the tab will show the quantities returned and the stockrooms and locations the stock will be returned to.

NOTE:

You can return a partial quantity on a line item. See Editing the Return in the following section.

📽 Returns						
<u>SO Number</u> Return Date <u>Credit Memo Number</u>	S00008000	01 005 💌 nber]	Ent Tra	ered By n Group ew Edit Rem	SUPERVISOR	-1
🖌 Sales Order Detail 🖪	SO Returns	Notes				
Add SO Line	Quantity	Part Number	Stockroom Code	Location Code	SN/Lot Number	
Edit	200.00	BPP-100	PENS	100		
Delete						
					OK	Close

At this point, you can create the credit memo, and exit the returns transaction form. You can return later to fill in the Bill of Lading, Carrier, and other optional information. (See Creating a Customer Credit Memo later in this section for more information.)

Editing a Returned Line

You can edit the quantity returned and the stockroom and location on a line item in the Returns data entry form.

In the SO Returns tab, select the line you wish to edit and click the Edit button on the left side of the form. The SO Returns data entry form opens for the line item selected.

* SO Returns				
SO Number <u>SO Line</u>	S000080001 001	Closed Flag Part Number	☑ BPP-100	
Stockroom Code Location Code SN/Lot Number	PENS Finishe	ed Goods - Pens		
Job Number Quantity Actual Catch Weight	200.00			
Tran Info				2
				Close

- 1. The SO number, SO line item, and Part Number display in the SO Returns header.
- 2. You can edit the Stockroom, Location, and quantity; add an SN/Lot Number or Job Number; or enter up to 60 characters of your choice in the Tran Info field. If the part master Require SN/Lot Number field is checked you will be required to enter a SN/Lot number. Additionally, if the part master record contains a Catch Weight and Catch Weight UOM, you will be required to weigh the return.
- 3. When you are satisfied with your edits, click Close to save your entries and return to the Sales Order Returns tab.
- 4. When you are satisfied with the line items in the Returns transaction form, you are ready to create a credit memo, if required. (See Issuing a Customer Credit Memo, for additional Information.)
- 5. When you have finished adding returns and creating credit memos from the sales order, do one of the following:

Click Apply to save your entries and leave the form open.

Click OK to save your entries and exit the data entry form.

Click Close to exit the data entry form without saving any entries not applied or saved.

Invoicing and Credit Memos

INVOICING A CUSTOMER

Invoices can be created and printed when the shipment transaction is performed. You can add Bill of Lading, Carrier and Tracking number information as required.

If you wish to enforce invoice creation at each shipment transaction, you must specify Require Invoices in your company Preferences setup. (See Chapter 3: Setting Up Your Company, Preferences.)

Creating and Editing an Invoice

You can create a new invoice from the main menu at any time, or you can create an invoice at the time of shipment from the Shipment transaction form.

Create an Invoice from the SO Shipments Transaction Form

In the SO Shipments Header, click the Edit button next to the Invoice field to add information to a new invoice for the line items selected. If you specified auto numbering in your Company Preferences, the system will apply the next sequential invoice numbers according to your numbering format. If not, enter a unique invoice number in the field.

If you wish to add this shipment to an existing invoice, click the IVNumber Hyperlink to select an existing invoice. The Invoice Number and current invoice amount will display in the header, along with the SO number and Customer ID.

Logistics Tab

The Invoice data entry form opens at the Logistics tab where you can add the Bill of Lading, Carrier, Tracking number and Freight amount. Two User fields are also available to add more detail, and you can click the Notes tab to enter any additional information. If the bill of lading and carrier information is not available at the time the shipment transaction is performed, you can open this invoice later and add the information. Click Close to return to the Invoice form.

📽 Invoice				
Invoice Number	100000002	Invoice Amount		\$808.13
<u>SO Number</u>	S000080001	Customer ID	TRIDA	
Logistics Notes Invoice D	etail			
Shipment Date	12/28/2005			
Bill of Lading				
Carrier	FEDEX			
Tracking Number	FX1233998700)P88TC		
Freight Amount		\$19.95		
User Defined 1				
User Defined 2				
Number of Pieces		3		
Weight	2 lbs			
			[DK Close

Invoice Detail tab

Click the Invoice Shipment tab to add or edit line items on the invoice.

📽 Invo	oice	2					
Invoice	Numb	er [100000002	Invoice Amo	unt		\$808.13
<u>SO Num</u>	<u>nber</u>	[SO00080001	Customer ID		TRIDA	
Logistics	Note	es Invoice D	etail				
bbA		Invoice Line	Part Number	Quantity	Price	Line Total	
	1	001	BPP-100	200.00	\$1.25	\$269.38	
Edit	2	002	BPP-100	200.00	\$1.25	\$269.38	
	3	003	BPP-100	200.00	\$1.25	\$269.38	
Delete							
							OK Close

Click Close to save your entries and return to the Sales Order Shipments data entry form.

Accessing Invoice Information

Once invoices are created, Alliance/MFG gives you several ways to access the data.

From the Demand Menu

Select Demand>Invoices to access the Invoices submenu. From here you can go straight to a blank invoices data entry form to create a new invoice, or use a predefined query and wild cards to find the invoice you want.

From the Invoices View

The records displayed in the Invoices View depend on the query you select.

📽 Invo	oices View	- All					_		X
Invoices	s View - All				(8	1	5	2 🏷
Invoice Nu	umber	Customer ID	SO Number	Shipment Date	Tracking Number				
1	100000001	HANFD	SO00080009	11/7/2005					
2	100000002	TRIDA	SO00080001	12/28/2005					
3	100002	PAPRB	SO00080003	10/29/2005					
					Ed	lit		Clo)se

From here you can add, edit or delete a record; drill down or access related data; preview or print a report.

Issuing a Customer Credit Memo

To Issue a Credit Memo:

Enter the information in the tabs as described in the following sections.

Sales Order Detail Tab

On a SO Return, click the New button next to the Credit Memo field to add a new credit memo. The Credit Memo data entry form opens at the Logistics Tab.

- 1. In the header, enter a unique number for the credit memo.
- 2. The Customer ID will display for the line item selected.
- 3. Enter the sales order number you wish to issue the credit memo for.
- 4. Enter an invoice number.
- 5. The Return date defaults to "today," however, you can change it at your discretion.
- 6. Optional Fields Enter the Bill of Lading, Carrier, Tracking Number, any user define information, Freight Amount, and number pieces in the shipment, as required.

📽 Credit Memo	
Credit Memo Number	CM05000001 Credit Memo Total \$250.00
Logistics Credit Memo Deta	il Notes
Invoice Number	100000002
<u>Customer ID</u> SO Number	S000080001
Return Date	12/28/2005 💌
Bill of Lading	
Carrier	FEDEX
Tracking Number	FX78990UJYY098744345J
User Field 1	
User Field 2	
Freight Amount	\$9.95
Number of Pieces	1
	OK Close

Credit Memo Detail Tab

The line item detail from the return displays in the Credit Memo Detail tab.

📽 Cre	dit Memo						
Credit M	emo Number CM05	000001 Credit	Memo Total		\$250.00		
Logistics	Credit Memo Detail Not	es					
Add	Credit Memo Line	Part Number	Quantity	Price	Line Total	SO Number	SO Line
	1 001	BPP-100	200.00	\$1.25	\$250.00	SO00080001	001
Delete							
							OK Close

You can accept the information as is, or you can add or edit from here. For example, you may want to adjust the quantity or price of the credit being issued.

Click Add or Edit as required to open the Credit Memo Detail data entry form.

📽 Credit Memo	Detail		
Credit Memo Number Credit Memo Line	CM05000001	Line Total	\$250.00
Credit Memo Detail Tax Co	odes/Rates		
Part Number	BPP-100		
	Assembly, Ball Point Pen, Blue		
SO Line	001		
Sales UOM	EA		
Quantity	200.00		
Actual Catch Weight	0.00		
Catch Weight UOM			
Price	\$1.25		
			Close

The Credit Memo Detail header displays the credit memo number and line in the header. The Credit Memo Detail tab displays the Part Number and description along with the original sales order line item and quantity.

Tax Codes and Rates Tab

Click the Tax Codes/Rates tab to review tax information. The Tax Summary displays the calculated results.

* Credit Memo	Detail		
Credit Memo Number Credit Memo Line	CM05000001 001	Line Total	\$269.38
Credit Memo Detail Tax Co	ides/Rates		
Taxable Flag		Tax Summary	
Base Tax Code	SB		
Base Tax Rate	7.75	Base Tax	\$19.38
Tax Flag 2		Subtotal	\$269.38
Tax Code 2			
Tax Rate 2	0	Tax Second Tier	\$0.00
Tax Flag 3			
Tax Code 3			
Tax Rate 3	0	Tax Third Tier	\$0.00
			Close

Completing the Credit Memo

When you have completed your entries, click Close to return to the Credit Memo data entry form, and do one of the following:

Click Apply to save your entries and leave the form open.

Click Add to enter additional Credit Memo lines.

Click Close to exit the data entry form without saving your entries (no credit memo will be created).

Click OK to save your entries and exit the data entry form.

JOB MASTER

When you enter a specific job number on a sales order, MRP will order discrete purchases and plan discrete work orders for that job number. As the parts required to complete the sales order move through the system, all costs for parts with the assigned job number will be tracked and totaled.

If you apply Job Tracking to products with complicated, multilevel BOM's, or to a large number of orders, MRP Action Parts could easily generate an overwhelming number of discrete orders that may be difficult for a small manufacturer's staff to process.

Job Master Tracking setup involves other functions

- 1. Create Job Numbers using the Job Master feature.
- 2. Assign the Order Method Code to the parts you wish to track in the Part Maintenance, MRP tab: Job Tracking, Plan by Job.
- 3. Enter the Job Number on the Sales Orders you wish to track.
- 4. Run MRP.

When you view MRP Action Parts, you can select Job Tracking to display only those jobs that have tracking numbers assigned.

You can apply job tracking in a number of ways:

- Track costs for a unique order or part.
- Run a periodic job tracking to compare actual costs to your cost estimates.
- Track accumulated costs for parts ordered on a specific contract.

Once Job numbers are created, parts coded OMC "J" and Sales Orders with Job Numbers will be tracked. For example, when you place multiple sales orders totaling 100 for a part number that has been assigned the OMC "J," all 100 of the requirements are considered in MRP planning; however, if 20 of those requirements have also been associated with a specific job number, MRP will break the 20 job-ordered units into separate purchase orders and work orders. All the costs associated with that job number can then be tracked through the Job Master feature.

Creating Job Numbers in the Job Master

You can create unlimited job numbers in the system. You must first create a job number and then in the Part Master, MRP tab, assign "Job Tracking, plan by job" as the Order Method Code.

When you enter a sales order for an item you want tracked by job number, enter the job number on the Maintain Sales Order data entry form, Order button tab. Alliance/MFG will now discreetly track all costs associated with that job number.

Once sales orders, purchase orders, or work orders are created with the job number, the Job Master shows the progressive costs.

Viewing Accumulated Costs in the Job Master

Select Demand>Job Master to open the Job Master View. Select a Job Number and click Edit to open the Job Master for Job Number selected.

The Job Master displays the job number and description (as entered in the Job Master data entry form). You can enter information in two User Defined fields and also indicate if this particular job number is closed.

lob Number Description Jser Defined 1	FEN-105 Fenco Custom Job	, ,			
Jser Defined 2 Closed Flag					
Sales Orders		Purchase Orders		Work Orders	
Total Ordered	\$11,250.00	Total Ordered	\$0.00	Total Issues	\$0.00
Total Shipped	\$3,300.00	Total Receipts	\$0.00	Non-Job Issues	\$0.00
Total Returned	\$0.00	Total Returns	\$0.00	Total Labor	\$0.00
SO Net Amount	\$3,300.00	PO Net Amount	\$0.00	Value Added	\$0.00
		Total Issues	\$0.00		
		NonJob Issues	\$0.00		

The Job Master is divided into three sections: Sales Orders, Purchase Orders, and Work Orders.

The Sales Order column displays the dollar values of Total Ordered, Total Shipped, Total Returned, and Sales Order Net Amount for any parts in the system assigned to the selected job number. The Purchase Order and Work Order columns will remain empty until actual purchase orders and work orders have been created.

As purchase orders and work orders are created, their associated costs display in the appropriate column. When a purchase order is created, the dollar amount will display under Total Ordered. When the purchase order is received, costs will be reflected under Total Receipts (dollar value received), Total Returns (dollar value returned to vendors), and Purchase Order Net Amount (dollar value of what you received, less any return value). In the preceding sample, you can see the value of sales orders assigned to this job number; only \$10 worth of parts assigned to this job number have been orders and received on POs; no work orders have yet been created or completed against this job number.

From here via the sidebar you can drill down or access related data; preview or print a report.

Demand Reports

The following reports are available from the Demand menu. You can preview or print a report from a predefined query, or create a custom query to display specific information in an Alliance/MFG standard format. For more information about Alliance/MFG reports, see the Technical Reference.

Acknowledgment **Past Due Shipments Bookings Report** Blanket Order **Blanket Order Summary Contact List Customer List** Forecast Invoice **Job Summary Shipments By Date Pick List** Quotation Sales Order SO List by Customer SO List by Part Number

Working with Supply



Supply Menu functions

Alliance/MFG is designed around the concept of "Supply and Demand." Purchase Orders and Work Orders become the "supply" that MRP recommends based on sales orders and forecasts that are the "demand" in the system. This chapter describes how to maintain your suppliers and any part cross references to your supplier's parts. Additionally, you will learn how to enter and receive purchase orders, return a purchase order; and enter and complete work orders and perform backflushing.

Suppliers

Alliance/MFG gives you a wide variety of options to create your supplier records. You can enter basic information such as your company account number with this vendor; their address and contact information; terms, ship via, FOB, Region, and Currency codes; and supply a VAT ID and Registration number, if doing business in Europe. You can also enter any part cross references to the supplier's parts. Once added to the system, you can access supplier information from the main menu and submenus, or from the Supplier View list. From here you can access purchase order and shipment activity for a supplier, see what POs are past due, and drill down from any of these to get more detail.

Tasks described in this chapter assume familiarity with the basic use of Alliance/MFG data lists, data entry forms, dialog boxes, queries, and finding and sorting features. If you need more information about how to use these features, review Chapter 2: System Overview.

Entering New Supplier Information

Enter a record for every supplier you purchase from. If you have not yet defined codes related to suppliers such as FOB, Region, Terms, Ship Via, and Currency, you should complete this task before beginning to enter supplier records.

📽 Suppliers			
Supplier ID	ASSMB	Active Flag	
Supplier Name	Assembly Tech. Co., Inc. (ATC)		
Suppliers Notes Default	Codes Supplier Address		
Date Added	2 /26/2003 💌		
Company Account	97451		
VAT Branch ID			
VAT Registration Number			
Web Page			Open
			OK Close

Select Supply>Suppliers>New to open a blank Supplier data entry form.

To enter a new supplier:

- 1. Enter a Supplier ID.
- 2. Enter the Supplier Name.
- 3. Select the Active Flag box if this is a current supplier.
- 4. Enter the information in the tabs as described in the following sections.

Supplier Tab

- 1. The system will default to today's date; however, you can use the calendar box to select a different date.
- 2. If you're part of the European Economic Community, enter the VAT Branch ID. This is used in Intrastat Reporting to track Value Added Tax payments and receipts.
- 3. Enter the VAT Registration number. This is used in Intrastat Reporting to track Value Added Tax payments and receipts.
- 4. Enter the URL of the supplier's website or a path to a document or contract you want to associate with this supplier.

NOTE:

For more information about setting up Intrastat Reporting, see Chapter 3: Setting Up Your Company (ICN Codes, ICN Rates, Region/Country Codes), and Chapter 8: Inventory Control, Intrastat Reporting.

Notes Tab

Enter unlimited notes into the supplier record. Type in the body or copy/paste from another windows program or text file.

Default Codes Tab

These are the codes that will default to purchase orders created for this supplier, they can be changed or over ridden.

* Suppliers				
Supplier ID Supplier Name	ASSMB Assembly Tech	. Co., Inc. (ATC)	Active Flag	V
Suppliers Notes C	efault Codes Supplier	Address		
<u>Terms Code</u> Ship Via Code AP Hold Flag <u>FOB Code</u> <u>Region Code</u> <u>Currency Code</u>	210 FX SD W US	Exchange Rate		1.00
User Defined				
				OK Close

1. Enter a Terms code. This code will default to the Terms Code field on the Purchase Order form. The code description will display next to the field.

- 2. Enter a Ship Via code . This code will default to the Ship Via Code field on the Purchase Order form. The code description will display next to the field.
- 3. Select the Active Flag box if this is a current supplier. This is information only.
- 4. Enter an FOB code. This code will default to the FOB Code field on the Purchase Order form. The code description will display next to the field.
- Enter a Region code. This code will default to the Region code field on the Purchase Order form. This information is also used with Intrastat Reporting. The code description will display next to the field.
- 6. Enter a Currency code . This code will default to the Currency Code field on the Purchase Order form. The code description will display next to the field.
- 7. You can enter up to10-characters in the User Defined field for any additional code, number or item you wish the system to display on Supplier Reports, Purchase Orders, and Receipts from this supplier.

Supplier Address Tab

All supplier address information is displayed in the Supplier Address tab. From here you can Add, Edit, or Delete supplier address information. You may enter as many supplier addresses as are required.

🕈 Sup	pliers						
Supplier Supplier	ID Name	ASSMB Assembly Tech. Co., Inc. (A	Act	ive Flag	l	v	
Suppliers	Notes Default C	odes Supplier Address					
Add	Address ID	Address Line 1	Address Line 2	City	State	Zip Code	Postal
	1 000001	12708 Foothill		Panorama City	CA	91412	
Edit	2 000002	4570 University City Blvc		San bernadino	CA	95302	
Delete	< .						>
						0	Close

To enter address lines:

- 1. In the Supplier Addresses tab, click Add on the left side of the form to open a blank Supplier Address data entry form.
- 2. Here you will enter an Address ID and any contacts you wish to identify for this address. The Supplier Address form opens at the Addresses tab.

3. Enter an Address ID at the top of the form. This might be "INV" for the invoice address, or a store number or ID for example.

📽 Supplier Addr	ess		
Supplier ID	ASSMB	Address ID	000001
Addresses Contacts			
Address Line 1	12708 Foothill		
Address Line 2			
Address Line 3			
Address Line 4			
<u>City</u>	Panorama City	State	CA
Zip Code	91412		
Country		Postal	
Tax Code	CA	7.25	
			Close

Addresses Tab

- 1. Enter up to four address lines for this ID.
- 2. Enter the City, State, Zip Code, Country, and Postal code if required.
- 3. Enter a Tax Code or click the hyperlink to choose from the Tax Code list.
- 4. Click Close. The Address is added to the body of the Suppliers Addresses tab.
- 5. Continue to click Add and enter additional Address IDs and addresses, as required.
- 6. Select a line and click Edit to change the information on a **line item** One item on a customer order or purchase order, regardless of quantity.
- 7. Select a line and click Delete to delete an address ID.

Contacts Tab

In the Supplier Address form, click the Contacts tab. Any existing contacts will display in the body of the tab.

📽 Sup	pli	er Addr	ess						
Supplier	r ID		ASSMB		Address ID		000001		
Addresse	s Co	ontacts							
Add		Supplier ID	Contact ID	Name	Phone 1	Phone 2	Fax 1	Fax 2	E-Mail
Edit	1	ASSMB	Contact_AGBIP_1	Rick Garloch	(818) 706-0999				garloch@atc.tech
Delete	<	ш)							>
									Close

- 1. Click Add. The Supplier Contacts data entry form opens at the Contacts tab.
- 2. In the Contacts tab, enter the Contact ID, Name, Phone and Fax (either formatted or not formatted), and enter an e-mail address, if available.
- 3. Click the Notes tab to enter any additional information about the contact you wish to store in the system.
- 4. Click Close to exit the form and return to the Supplier Address data entry form.
- 5. You can continue to add as many Contacts as required.

Supplier Cont	acts			
Supplier ID	ASSMB	Contact ID	8	
Contacts Notes				
Address ID	000001			
Name				
Phone 1				
Phone 2				
Fax 1				
Fax 2				
E-Mail				
				Close

When you are finished, do one of the following:

Select a line and click Edit to change the information on a line item.

Select a line and click Delete to delete a contact ID.

Click Close to return to the Suppliers data entry form. Saving changes to the supplier will save your address and contact data.

Accessing Supplier data

Once suppliers are added to the system, Alliance/MFG gives you a number of ways to access the data.

From the Supply Menu

Select Supply>Suppliers from the main menu. From here you can go straight to a blank data entry form to enter new supplier records, edit existing records; or user predefined queries and wild cards to locate specific records.

From the Supplier View

Records displayed in the Supplier View depend on the record you select.

📽 Suppliers View - All									
Suppliers View - All 👸 📓 🕹 💡 🤅									5 💡 🍉
Supplier ID)	Active	Supplier Name	Our Account No.	Region Code	AP Hold Flag	Notes		
1 🕨	ASSMB	V	Assembly Tech. Co., Inc. (ATC)	97451	W				
2	BLAIR		Blair and Sons	357	W				
3	CASTL		Castle Processing	009755124	E				
4	GOLDS		Gold's Ink	ALLPENLTD	W				
5	MRKPH		Market Phase	APL-5671	N				
6	NORTN		Norton Manufacturing	612-7814	W				
7	OASIS		Oasis Plastics	52223-APL	W				
8	OFFMAX		Office Max	93101	W		This is a note		
9	PSLNO		PSLNO, Inc.	4871	E				
10	REBDN		Rebdon	1726	E				
11	TRIPH		Triphase Products	1270-920	E				
							E	dit	Close

From here you can add, edit, or delete a record, or via the sidebar you can drill down or access related data; preview or print a report.

Purchase Orders

You can enter purchase orders in the system as desired, or you can run MRP and respond to Planned Orders based on demand. Alliance/MFG also provides a means to create a purchase order to send to a supplier for a subcontracted service; either on a regular basis, or to handle a temporary production overload. All purchase orders in the system can be entered or accessed from the Supply>Purchase Order menu.

Entering a New Purchase Order

There are two methods for maintaining and entering purchase orders in Alliance/MFG, Advanced and Easy Entry. The Advanced method gives you more capabilities and field selections. On the other hand, if your suppliers can be set up with standard default values and only basic data is required, the Easy Entry method might save you entry time and efforts. You can toggle from the Advanced method to the Easy Entry method by clicking on the Easy Entry hyperlink in the upper right hand corner of the entry screen, you may also toggle back to the Advanced screen using the Advanced hyperlink.

Select Supply>Purchase Orders>New, to open a blank Purchase Order data entry form. The last type of entry screen (Advanced or Easy Entry) used will open. The Advanced method is detailed below and the Easy Entry method will be described at the end of this section. The form opens at the Order tab, where you'll enter general information. When the PO is complete, the total value will display at the bottom of the form.

🗳 Purchase Order			
Purchase Order <u>Supplier ID</u>	P000080002 ASSMB Supplier Default Assembly Tech. Co., Inc. (ATC)	s Entered By Closed Flag	Easy Entry SUPERVISOR
Order Supplier Lines	Notes		
Order Date Required Date	 ✓ 8 /28/2003 ▼ ✓ 8 /11/2003 ▼ 	Order Type Requisition Number	
Department Code	PURCH 3000	PO Placed With	
Requested By	SUPERVISOR Supervisor, Created by MEG	User Defined	
Buyer Code	55-JAT Tierney, Julie A	AP Hold Flag Currency Code	US US Dollars
Class Code		Exchange Rate	1
PO Total Amount	\$9,200.00	PO Remaining Amo	ount \$4,600.00
			OK Close

Advanced Method

To Complete the Purchase Order Header:

- 1. If you specified Auto-Generate in your Company Preferences settings, the new PO number will display once you have entered and saved the information, otherwise you can enter a unique Purchase Order number here.
- 2. Enter or select a Supplier ID.
- 3. If you make changes to Supplier default information, you can click Supplier Defaults to restore the defaults.
- 4. The Entered By field defaults from the systems Login ID.
- 5. When entering a new order, the Closed Flag should be clear. You can select it later when the PO is received.

Order Tab

- 1. The Order Date will default to "today's date," or you can use the calendar box to select a date.
- 2. Enter the Required Date (the delivery date). This is the date MRP will use in planning, the parts leadtime should include transit and receiving times and the supplier should plan the shipment in time to satisfy this date.
- 3. Enter the Department account to which the purchase order is assigned.
- 4. Enter the part requesters Employee ID.
- 5. Enter the buyer's Employee ID. The employee's ID will appear on the hyperlink list only if "Purchase Orders" was selected in their Employee Record.
- 6. The Class Code field is for future use by QuickBooks accounting links.
- 7. Enter an Order Type: Phone, Fax, blanket, EDI, or other, at your discretion.
- 8. Enter a requisition number, if used.
- 9. Enter the name of the person with whom you placed the order.
- 10. Enter up to 10 characters in the User-Defined field, as required. This information will be displayed on the Purchase Order and can be used in custom queries.
- 11. Enter a Currency Code for the order or accept the Suppliers default entry.
- 12. Exchange Rate defaults based on the Currency Code entry (previous step).
- 13. Once all part information is entered, the PO Total Amount will display at the bottom of the form.
- 14. When you have completed the information, do one of the following:

Click OK to save your header and entries and exit the form.

Click Save on the toolbar to save your entries and move to another tab or leave the form open.

Click Close to exit the window without saving your entries.

LINK NOTE:

If you use an Alliance/MFG Accounting Link, you should choose the department associated with Accounts Payable. (The department code will default from the AP Account you specified in your Company Preferences.)

Supplier Tab

Enter general information such as supplier payment terms, region, ship via, and FOB in the Supplier tab.

🗳 Purchase Order				
Purchase Order <u>Supplier ID</u>	P000080002 ASSMB Supplier Defaults Assembly Tech. Co., Inc. (ATC)	Entered By Closed Flag	Easy En SUPERVISOR	μy
Order Supplier Lines N	Notes			
Terms Code	210 2% in 10 Days, Net 30	<u>Bill To Address</u> Santa Barbara	93101 CA USA	
Region Code	W Western US	<u>Ship To Address</u> Goleta	93116 CA USA	
F.O.B. Code	SD Shipping Dock	Supplier Address	000001	
<u>Ship Via Code</u>	FX Fed-X Overnite	Panorama City Supplier Contact	CA	
Document Path	<open></open>			
PO Total Amount	\$9,200.00	PO Remaining Amount		\$4,600.00
				IK Close

- 1. The Payment Terms default from the Supplier record. You can select or enter a different code to override the default.
- 2. The Region code defaults from the Supplier record. You can select or enter a different region to override the default.
- 3. The FOB code defaults from the Supplier record. You can select or enter a different FOB code to override the default.
- 4. Enter a Ship Via code to indicate the shipment method.
- 5. Enter a Document Path if you are referencing a drawing, contract or other document (This field is for internal use only and will not print on the purchase order).
- 6. The billing address will default to the one entered in Company Name/Address and indicated in Preferences. You can enter a different address if you wish.

- 7. The delivery address will default to the one entered in Company Name/Address and indicated in Preferences. You can enter a different address if you wish. The default shipping address is the one entered in Company Name/Address and indicated in Preferences.
- 8. Enter a Supplier Address ID.
- The Currency Code defaults from the Currency Code list, but can be overridden. (All costs on a purchase order will be entered in your base currency; this exchange rate is used for report printouts only.)
- 10. Select the A/P Hold box to indicate the supplier is on payment hold. (This field is information only.)
- 11. When you have completed the information, do one of the following:

Click Save on the toolbar to save your settings and leave the form open.

Click OK to save your entries and exit the form.

Click Close to exit the window without saving.

Lines Tab

Once line items are added to the PO, the line item detail is displayed in the Lines tab. Columns display the Required Date, Quantity Received, Job Number, Quantity Ordered, Part Number, PO Price, and Kit Part Flag. From here you can Add, Edit, or Delete line items using the buttons on the left of the form. (The Add button on the toolbar opens a new PO data entry form.)

* Purchase Ord	ler						
Purchase Order	P000080002]			Easy Entry		
Supplier ID	ASSMB	Supplier Defa	aults Entere	ed By	SUPERVISOR		
	Assembly Tech.	Co., Inc. (ATC)	Closed	l Flag			
Order Supplier Lines	Notes						
Add PO Line	Part Number	Kit Part Flag	PO Unit Price	Quantity Ordered	Quantity Received	Quantity RTV	Required Date
1 001	CP-1	No	\$0.23	20,000.00	20,000.00	0.00	10/9/2005
< <u> </u>							>
PO Total Amount	\$4,6	600.00	PO R	emaining Amount	:	\$0.00	
							OK Close

Adding Purchase Order Details

You can add or edit individual items on the Purchase Order. Select a line and click the Add or Edit buttons on the left side of the Purchase Order data entry form to access the Purchase Order Detail form. In the Line tab of the PO Detail form, you can edit required dates, part numbers, supplier cross references, quantities, tax information or assign a job number; and in the More tab, you can enter any additional tax information and see the cumulative quantities received, returned, or released for this PO.

To add a PO line item:

From the Purchase Order Lines tab, click Add on the left of the form. The Purchase Order Detail form opens at the Line tab. Enter the details as described in the following paragraphs.

💣 Purchase Order Det	tail			
PO Number	P005110004			
PO Line	003	Closed Flag		
Line More Notes				
PartXReference		Required Date	11/28/2005 💌	
Part Number	CP-1	Ball Point		
Quantity Ordered	20,000.00	Purchase UOM	EA	
		Stock UOM	EA Each	
PO Unit Price	\$0.03	Use as default price]	
	_	Base Tax Code	SB 7.75	
Taxable Flag		Revision	В	
		Job Number		
CSubcontract PO Item		- Line Amounts		
Kit Part Flag		Non Tax Total	\$600.00	
Start Date	7 /18/2006 🔽	Base Tax	\$0.00	
Start Quantity	0.00	Subtotal	\$600.00	
				Close

Line Tab

The header displays the current PO number and the PO Line field displays the next line item available.

- The Part Cross-Reference (PartXReference) is the number used by your supplier or OEM to refer to the part. Enter the cross reference, if the cross reference is associated with a part, your part number will be defaulted by the system. The suppliers price associated with the X-Reference will also default. If you enter your part number first, click the Part X-Reference hyperlink to query the X-Reference View for existing cross references to that part.
- 2. Enter a part number or use the hyperlink to select a part from the Part Master View. These parts must have an Inventory Source Code of "Buy part," "Subcontract", "Free/bulk," or "Non-stock," and have a valid department code. The part description will display beneath the part number field.
- 3. The required date defaults from the PO Header; however, you can change it if needed. User the calendar box to select a different date.
- 4. Enter a quantity.
- The default unit price is the price from the supplier cross-reference above. If no supplier cross-reference exists the Default PO Cost from the Inventory Record Part Costs Tab will be used.
If the line item is a subcontract part and you supply the components, select the Kit Part Flag. This flag indicates component material will be sent to the subcontractor for assembly or service. See Subcontract PO Kitting in the Kitting and Dekitting chapter for information on kitting.

NOTE:

If the part cross reference currency code does not match the purchase order currency code the price will be set to zero (0).

- 7. If the supplier currency code is different from your base currency code and the exchange rate is greater than 1.0 the Exchange Price field will be displayed. You may enter a fixed exchange price and Alliance will convert this amount to your base currency using the currency exchange rate table.
- 8. Select the Taxable flag
- 9. If you select the Taxable Flag, the Base Tax Code field is enabled. Enter a Base Tax Code or click the hyperlink to select one from the Base Tax Code View.
- 10. Enter the purchase unit of measure for the part or use the hyperlink to choose from the Unit of Measure View. The Purchase UOM may be different from the Stocking UOM. If a Purchase UOM Code is entered in the Part Master, it will automatically default here.
- 11. The Part Revision number defaults from the Part Master record.
- 12. The unit of measure used to stock the part defaults from the Part Master record.
- 13. If you use Job Tracking, enter a Job Number. Parts must have been assigned an OMC of "Job Tracking" to use this feature.
- 14. The Line Amounts box summarizes the Non-Tax Total, Base Tax, and Subtotal for this line item.
- 15. When you have completed the information, do one of the following:

Click Save on the toolbar to save your settings and move to the next tab.

Click OK to save your entries and exit the form.

Click Close to exit the window without saving.

NOTE:

You must select the Taxable Flag in the Line tab to enable multi-tier tax fields on the

More tab.

More Tab

Click the More tab to enter options for multi-tiered taxing and alternative accounts.

* Purchase Ord	ler Detail			
PO Number	P000080002	PO Line	001	
Line More Notes				
DepartmentCode	PROTO 1600			
Class Code				
Tax on Tax 2		Tax Code 2	0.00	
Tax on Tax 3		Tax Code 3	0.00	
User Defined 1		User Defined 2		
Extended Price		Transaction Summary		
Non Tax Total	\$4,600.00	Last Receipt Date		
Base Tax	\$0.00			
Subtotal	\$4,600.00	Quantity Received	20,000.00	
2nd Tax	\$0.00	Quantity RTV	0.00	
3rd Tax	\$0.00	Quantity Released	0.00	
Line Total	\$4,600.00			
		<u></u>		
				Close
				Close

NOTE:

To use this function, you must set up a non-inventory stockroom and locations in your Stockroom table.

- 16. You can specify a receiving department code separately from that specified in the Inventory record. For example, you may want to specify a separate department/account for non-inventory items. When this item is received, it will bypass the default stockroom and transact to the department indicated here.
- 17. Select the Taxable Flag if you need to apply multi-tiered or compound taxes. The default tax applied on the line tab will be the Base Rate. However, by entering 2nd and 3rd Rates, you can apply multi-tiered taxing. Checking the Tax on tax 2 or Tax on tax 3 check boxes will determine whether to apply the additional tax to the lines original Non-Tax Total (quantity x price) or to the lines original Subtotal (quantity x price + base tax)
- 18. On the Line Tab you entered a Base Tax code or used the hyperlink to select from the Tax Code table. The Base Tax amount is calculated based on the tax rate (Displayed next to the base tax code).
- 19. Select the Tax on Tax 2 checkbox to apply a second Tax Rate to the original subtotal (quantity x price plus taxes). Select the second Tax Code you wish to apply. Leave the Tax on Tax 2 checkbox empty to apply a second tax rate to the original non-tax total (quantity x price).
- 20. Select the Tax on Tax 3 checkbox to apply a third Tax Rate to the original subtotal (quantity x price plus taxes). Select the third Tax Code you wish to apply. Leave the Tax on Tax 3 checkbox empty to apply a third tax rate to the original non-tax total (quantity x price).

- 21. Enter up to10-characters in the User-defined fields. This information will be displayed on the Purchase Order detail and can be used in custom queries.
- 22. The Line Amounts box summarizes and displays the Non-tax Total, Base Tax, Subtotal; the 2nd and 3rd taxes, and the Extended Price.
- 23. The Quantity Received, Last Receipt Date, Quantity RTV (returned to vendor), and any Quantity Released are displayed in the right side of the tab. These provide a cumulative transaction history for the line item.

NOTE:

These multi-tiered and compound tax rates will not apply to most US businesses; they are intended for use in countries with multiple taxes, such as Canada's GST.

PURCHASING NON-INVENTORY PARTS

You may wish to use Alliance/MFG to track non-inventory parts purchases, such as tools, office supplies, and miscellaneous items that you may not want on your Part and Inventory Masters. Here's one way to do it:

Create a part number such as "NON-INV," in your part and inventory masters with an ISC of "Non-stock" and an OMC of "Manual". Create a non nettable Stockroom for non-stock items. One for each category of parts (i.e. office supplies, services, etc.).

When you write a purchase order for a non-inventory part, use this part number in the part number field. Enter the item you are actually purchasing in the X-Reference part or memo field.

Fill in the quantity and price. The printed purchase order will show both the part "NON-INV" and your X-Reference descriptive information. You don't need to set up the part in the X-Reference table but you can.

On the line item More tab, enter the non-inventory stockroom. When received, the PO will be transferred directly to that department, bypassing the inventory default stockroom.

Accessing Purchase Order data

Once purchase orders are added to the system, Alliance/MFG gives you a number of ways to access the data.

From the Supply Menu

The main menu is the first access level. From here you can go straight to a blank data entry form to enter new purchase orders, edit existing POs, or use a predefined query and wild cards to locate specific records.

From the Purchase Order View

The records displayed in the Purchase Order View depend on the query you select.

📽 Pui	🕫 Purchase Orders View - All										
Purcha	Purchase Orders View - All 👸 🖥 🕹 🌱 🎐										
Purchase	e Order	Closed	Buyer	Buyer Code	Order Date	Required Date	Supplier ID	Requested By	Requisition Number		
1	P000080001		Tierney	55-JAT	10/26/2005	10/23/2005	MRKPH	SUPERVISOR	MRP		
2	P000080002		Tierney	55-JAT	10/26/2005	10/9/2005	ASSMB	SUPERVISOR			
3	P000080003		Tierney	55-JAT	10/28/2005	10/29/2005	ASSMB	20-HCC	MRP		
4	P000080004		Marenko	90-KEM	10/28/2005	10/29/2005	GOLDS	20-HCC	MRP		
5	P000080005		Hailey	80-EMH	10/29/2005	10/29/2005	REBDN	55-JAT	MRP		
6	P000080006		Hailey	80-EMH	10/29/2005	11/12/2005	PSLNO	55-JAT	MRP		
7	P000080008		Marenko	90-KEM	10/29/2005	11/13/2005	TRIPH	80-EMH	MRP		
8	P000080009		Hailey	80-EMH	10/29/2005	11/13/2005	PSLNO	80-EMH			
9	P000080010		Hailey	80-EMH	10/29/2005	11/10/2005	CASTL	80-EMH			
10	P000080011				10/29/2005	11/26/2005	MRKPH				
11	P005110001				11/7/2005	11/29/2005	GOLDS				
12	P005110002		Tierney	55-JAT	11/7/2005	11/28/2005	NORTN	50-JDD			
13	P005110003		Tierney	55-JAT	11/7/2005	11/28/2005	BLAIR	50-JDD			
14	P005110004		Tierney	55-JAT	11/7/2005	11/28/2005	NORTN	SUPERVISOR			
1<					ш				>		
								E	dit Close		

From here you can add, edit, or delete a record; or via the sidebar you can drill down or access related data; preview or print a report.

Easy Entry Purchase Order Method

There are two methods for maintaining and entering purchase orders in Alliance/MFG, Advanced and Easy Entry. If your suppliers can be set up with standard default values and most of the time only basic data is required, the Easy Entry method might save you entry time and efforts.

Select Supply>Purchase Orders>New, to open a blank Purchase Order data entry form. The last type of entry screen (Advanced or Easy Entry) used will open. You can toggle from the Advanced method to the Easy Entry method by clicking on the Easy Entry hyperlink in the upper right hand corner of the entry screen, you can also toggle to the Advanced screen using the Advanced hyperlink. The Easy Entry method is detailed below and the Advanced method is described at the beginning of this section.

* Purch	ase Ord	er									X
			F	⊃ _{ur}	rchas	se	Orde	r	<u>A</u>	dvanced	
Exac	t			P0 Nun P0000	nber 80003		Order Da	ate 105 💌	AS	<u>Supplier ID</u> SMB	
<u>Supplier</u> Address	Assembly Te 12708 Footh Panorama C	ech, Co., iill ity, CA 9	, Inc. (ATC))1412	-	<u>Ship To:</u>	Allia 225 Gol	ance Pens, Int'l 5 S. La Palma D leta, CA 93116)r.			
<u>Contact</u> <u>Notes</u>	Rick Garloc	h (818) 7	706-0999								
Closed		2% ir	<u>Terms</u> n 10 Days, Net 30	F	<u>Ship Via</u> ed-X Overnite		<u>FOB</u> Shipping Da	ock		Currency US	1
Request 20-HCC	ed By	55-J	<u>Buyer Code</u> AT	Verba	Order Type al		Requisition N MRP	umber	F	Required Date 10/29/2005 <mark>-</mark>	-
Line	Part Number		Description		Quantity	UOM	Regd Date	Price		Ext Price	
▼ 001	BP-1		Barrel, Top Half, Blu	ue	4,000.00		10/29/2005		\$0.05	\$200.00	1
▼ 002	BP-5		Barrel, Top Half, Re	ed	4,000.00		10/29/2005	\$	\$0.05	\$200.00	
▼ 004	BP-6		Barrel, Bottom Half,	Red	9,000.00		10/29/2005		\$0.05	\$450.00	
▼ 005	BP-1		Barrel, Top Half, Blu	ue	4,504.00		11/8/2005		\$0.05	\$225.20	
▼ 006	BP-5		Barrel, Top Half, Re	ed	4,000.00		10/21/2005	\$	\$0.05	\$200.00	
▼ 007	BP-5		Barrel, Top Half, Re	ed .	4,000.00		11/29/2005	\$	\$0.05	\$200.00	
▼ 008	BP-6		Barrel, Bottom Half,	. Hed	4,000.00		11/29/2005		\$U.05	\$200.00	
▼ 009	BP-2		Barrel, Bottom Halt,	Blue	4,000.00	Dν	12/5/2005		0.05	\$200.00	
· 010 ▼ 011	07-1 80-1				10.00 PK		11/29/2005	\$	00.00	\$300.00	
▼ (New)	01-1		Danci, ropridii, bil	ue	0,001.00		11/23/2003		0.00	φυ40.00	
P0 Total Amount \$2,515.25 P0 Remaining Amount \$1,240.05											
										OK C	lose

The Easy Entry Purchase Order data entry form opens. All information entered will remain in view as you work your way through the form. As purchase order line items are entered, the Purchase Order Total amount and the Total Remaining value display at the bottom of the form.

To enter Purchase Order Header Information:

- 24. If you specified auto numbering in your Company Preferences, the next incremental purchase order number will be entered automatically when you save the order, otherwise you must enter a unique purchase order number.
- 25. The Order Date defaults to "today's" date, or you can use the calendar box to specify a different date.
- 26. Enter a Supplier ID or click on the Supplier ID hyperlink to select from your supplier table. When you enter a Supplier ID, default supplier information such as Terms, Ship Via and FOB codes are defaulted from the supplier record to the purchase order, additionally, if you defined a single Supplier Address with a single Supplier Contact, these values will also default to a new purchase order. If the values did not default click on the hyperlink to select them from their appropriate tables.
- 27. To enter purchase order notes click on the Notes hyperlink, enter your notes and click the Close button. The first line of the notes will be visible on the purchase order form.

- 28. When entering a new purchase order, the Closed box will normally be clear. You can return to select this box when the order is received or you may close it from the Receiving transaction form.
- 29. Enter a Terms code or accept this supplier default entry.
- 30. Enter an F.O.B. code or accept this supplier default entry.
- 31. Enter a Ship Via code or accept this supplier default entry.
- 32. Enter the Currency Code or accept this supplier default entry. When you print the purchase order report, this currency and exchange rate will be displayed. The Currency Rate will calculate and display based on the conversion rate between your base company currency code and the supplier currency code.
- 33. Enter the Employee ID of the person requesting the order.
- 34. Enter the Employee ID of the buyer associated with the order.
- 35. Order Type, enter Phone, FAX, EDI, Blanket, or another method to indicate the order type.
- 36. If you wish to assign a requisition number enter it here.
- 37. Check the box and enter the Required Date (the delivery date). This is the date MRP will use in planning, the parts leadtime should include transit and receiving times and the supplier should plan the shipment in time to satisfy this date. If you enter a date here it will automatically default to all line items.

NOTE:

If you make changes to defaulted fields, then decide to return to default values, simply click the Advanced hyperlink, click the Customer Defaults button to refresh the default values, then click the Easy Entry hyperlink to return to this form.

Closed		2% ir	Terms (in 10 Days, Net 30		<u>Ship Via</u> Fed-X Overnite		FOB Shipping Dock			US		
Request 20-HCC	ed By	55-J	Buyer Code Order Type jJAT Verbal		[Requisition N MRP	umber	F	Required Date			
Line	Part Number		Description		Quantity	UON	4	Regd Date	Price		Ext Price	
▼ 001	BP-1		Barrel, Top Half, Bl	ue	4,000.00			10/29/2005		\$0.05	\$200.00	
▼ 002	BP-5		Barrel, Top Half, Re	ed	4,000.00			10/29/2005		\$0.05	\$200.00	
▼ 004	BP-6		Barrel, Bottom Half,	Red	9,000.00			10/29/2005		\$0.05	\$450.00	
▼ 005	BP-1		Barrel, Top Half, Bl	ue	4,504.00			11/8/2005		\$0.05	\$225.20	
▼ 006	BP-5		Barrel, Top Half, Re	ed	4,000.00			10/21/2005		\$0.05	\$200.00	
▼ 007	BP-5		Barrel, Top Half, Re	ed	4,000.00			11/29/2005		\$0.05	\$200.00	
▼ 008	BP-6		Barrel, Bottom Half,	Red	4,000.00			11/29/2005		\$0.05	\$200.00	10
▼ 009	BP-2		Barrel, Bottom Half,	Blue	4,000.00			12/5/2005		\$0.05	\$200.00	
▼ 010	CP-1		Ball Point		10.00	ΡK		12/5/2005	\$	30.00	\$300.00	
▼ 011	BP-1		Barrel, Top Half, Bl	ue	6,801.00			11/29/2005		\$0.05	\$340.05	
▼ <new></new>												
Notes			\$2,515.25		PO Re	mainii	ng	g Amount	\$1,24	0.05		7
Advance	d										ОК СІ	ose
- Delete												
MRP Det	ail											

To add a new purchase order line item:

Inventory Summary

- 1. Tab into or click in the Part Number field, enter a part number or click on the elispse button to select one from the part master table. The part description will default from the Part Master table.
- 2. Enter the quantity required for this line item in the purchase UOM. As soon as you leave the quantity field the price will be defaulted based on the Part Master Default PO Cost.
- 3. If the Purchase UOM is different than the Stocking UOM, enter the purchase UOM code.
- 4. Enter the Required Date (the delivery date). This is the date MRP will use in planning, the parts leadtime should include transit and receiving times and the supplier should plan the shipment in time to satisfy this date. If you entered a date in the purchase order header it will automatically default to all line items.
- 5. The Extended Price field is automatically calculated by multiplying the line item price by the quantity then adding any base tax applied.

If you have correctly entered your line items a green "+" will be displayed in the Line field (the green plus sign will change to a line number when the record is saved. If any field is invalid a red "X" will be displayed in the Line field and the invalid field will display a red background, the Save and OK buttons will be disabled.

Click on the down arrow in the Line field to add notes to that line item, toggle to the Advanced Line Item entry form for that line item, delete that line item or to view the MRP Action screen or Inventory Lots screen for that part number.

When you have finished entering the line items do one of the following;

Click Save to save all entries and leave the form open.

Click OK to save all entries and exit the Purchase Order data entry form.

Click Close to exit the form without saving any entries not saved previously.

NOTE:

The fields shown below are part of the complete purchase order record even though they are not displayed on the Easy Entry form. Some of these fields may default from related tables. They can be viewed, entered and edited by clicking on one of the Advanced hyperlink toggles. If one of these fields is invalid the Save and OK buttons will be disabled and the record cannot be saved.

Advanced Purchase Order fields not displayed on the Purchase Order Header

- 1. Department code, the departments account number will display below this field. This should be the department associated with the GL account for this order (usually AP). This value will default if set up in Company Preferences.
- 2. PO Placed With, the name of the supplier contact or the person taking the order. (Optional)
- 3. User Defined (Optional)
- 4. Order Type, enter Phone, FAX, EDI, Blanket, or another method to indicate the order type. (Optional)
- 5. User Field 1, (Optional)

Advanced Purchase Order fields not displayed on the Purchase Order Line Item

- 1. Sub-Contract Kit Part Flag, Start Quantity, and Start Date.
- Part X Reference, enter a cross-reference to the supplier's part number if needed. If only one (1) supplier cross reference exists for the part number entered and it is checked as an Approved Source, the cross reference field will be defaulted.(Optional)
- 3. Part number, the part number will default if you entered a Part Cross Reference above.
- 4. Taxable Flag, if the part taxable flag is set up in the Part Master this flag will be defaulted to True. The Tax Code can be defaulted from the Company>Preferences default PO Tax Code.

Advanced Purchase Order fields not displayed on the Purchase Order Line Item More Tab

- 1. The More tab is used to enter additional line information such as alternate Department Code or any multi-tiered tax values.
- 2. The system will apply the Base Tax rate by default, if the part is checked Taxable in the Part Master. However, you can enter 2nd and 3rd Tax Rates in the appropriate fields to apply multi-tiered (compound) tax rates. To apply these taxes, do one or both of the following:

Select the Tax on Tax 2 checkbox to apply a second tax amount to the original subtotal (quantity x price plus tax), enter the second Tax Code you wish to apply.

Or leave the Tax on Tax 2 checkbox empty to apply a second tax amount to the original quantity x price only (the no tax on tax option).

Select the Tax on Tax 3 checkbox to apply a third tax amount to the original subtotal (quantity x price plus tax), enter the third Tax Code you wish to apply.

Or leave the Tax on Tax 3 checkbox empty to apply a third tax amount to the original quantity x price only (again the no tax on tax option).

Purchase Order Receipts

Receiving Purchase Orders

Once purchase orders are entered in the system, you have several options for accessing a purchase order, and viewing purchase order information such as receipt history, past due orders, and all POs not received.

You can receive all lines or a single line item on a purchase. Mark the order "closed" or leave it open, depending on how much of the order is received. Once a purchase order is received, you can also return items received from a supplier. (If the purchase order has been marked "closed," you must open it to return parts to a supplier.)

Purchase Order Receipts

Select Supply>Receive a Purchase Order. A blank form is displayed.

PO Receipts		
PO Number S Receipt Date 12/29/2005 Close Purchase Order	Entered By Tran Group	SUPERVISOR -1
PO Details Receipts Notes		
Add Edit Delete	No records found	
All Receive Line		
		OK Close

Enter a PO number. The Purchase Order receipts entry form opens at the PO Details tab. From here you can receive detail lines or optionally Edit a line item on the purchase order. If any line items have been received on this purchase order, the receipt information will display in the body of this tab.

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🕫 PO Receipts 📃 🗆 🔀											
PO Number PO00000003 Entered By SUPERVISOR Receipt Date 12/29/2005 Tran Group -1 Close Purchase Order - -											
PO Details Rec	ceipts Notes										
Add	PO Line	Part Number	Remaining	Quantity Ordered	Quantity Received	Quantity RTV	Required Date	PartXReference			
- Add	1 001	BP-1	0.00	4,000.00	4,000.00	0.00	10/29/2005	AVI564			
Edit	2 002	BP-5	0.00	4,000.00	4,000.00	0.00	10/29/2005	AVI572			
	3 004	BP-6	0.00	9,000.00	9,000.00	0.00	10/29/2005	AVI571			
Delete	4 007	BP-5	4,000.00	4,000.00	0.00	0.00	11/29/2005	AVI572			
-	5 008	BP-6	4,000.00	4,000.00	0.00	0.00	11/29/2005	AVI571			
	6 009	BP-2	4,000.00	4,000.00	0.00	0.00	12/5/2005	AVI563			
	7 010	CP-1	10.00	10.00	0.00	0.00	12/5/2005				
Receive Line	8 011	BP-1	6,801.00	6,801.00	0.00	0.00	11/29/2005	AVI564			
		20									
								UK Close			

Creating and printing a PO Receipt:

- 1. After you enter a PO number the Entered By defaults from the user Login.
- 2. The Receipt Date will default to "today's" date. You can use the calendar box to change it. Both receipt date and transaction date will be saved as part of the transaction.
- 3. You may either receive each line separately or All Lines. If you receive a line the following screen will be displayed. You may change the Stockroom, Location, Job Number, or quantity. You may also add a Lot or Serial Number.
- 4. In the case below two "Caution" triangle displayed, if you hold the mouse cursor over the triangle the message will be displayed Ex. "Total receipt quantity is more than the order quantity".
- 5. Click the Close button to receive another line.

P0 Number P000080003 Part Number BP-2 P0 Line 003 Closed Flag ✓ Stockroom Code RAW Raw Materials/Purchased Parts Location Code 100 SN/Lot Number Job Number Quantity Received 5,000.00 Tran Info	📽 Receipts			
Stockroom Code RAW Raw Materials/Purchased Parts Location Code 100 SN/Lot Number	PO Number PO Line	P000080003	Part Number Closed Flag	BP-2 ✓
Chara	Stockroom Code Location Code SN/Lot Number Job Number Quantity Received Total Receipt quantity is n Tran Info	RAW 100 5,000.00	Raw Materials/Purchased Parts	

When you are finished receiving items, click Save on the toolbar, a Transaction Group is system generated and includes all items selected for this receipt, you may now print a PO receipt by selecting PO Receipts from the Related Reports section of the sidebar.

* Pur	cha	se Ord	er							
Purchase Order P000080003 Easy Entry Supplier ID ASSMB Supplier Defaults Entered By SUPERVISOR Assembly Tech. Co., Inc. (ATC) Closed Flag										
Order	Supplie	er Lines	Notes							
6dd		PO Line	Part Number	Kit Part Flag	PO Unit Price	Quantity Ordered	Quantity Received	Quantity RTV	Required Date	
	1	001	BP-1	No	\$0.05	4,000.00	4,000.00	0.00	10/29/2005	
Edit	2	002	BP-5	No	\$0.05	4,000.00	4,000.00	0.00	10/29/2005	
	3	004	BP-6	No	\$0.05	9,000.00	9,000.00	0.00	10/29/2005	
	4	005	BP-1	No	\$0.05	4,504.00	4,504.00	0.00	11/8/2005	
	5	006	BP-5	No	\$0.05	4,000.00	4,000.00	0.00	10/21/2005	
	6	007	BP-5	No	\$0.05	4,000.00	4,000.00	0.00	11/29/2005	
	7	008	BP-6	No	\$0.05	4,000.00	0.00	0.00	11/29/2005	
	8	009	BP-2	No	\$0.05	4,000.00	0.00	0.00	12/5/2005	
	9	010	CP-1	No	\$30.00	10.00	0.00	0.00	12/5/2005	
	10	011	BP-1	No	\$0.05	6,801.00	0.00	0.00	11/29/2005	
Delete										
PO Total	PO Total Amount \$2,515.25 PO Remaining Amount \$1,040.05									
									OK Close	

Reviewing PO Receipts on the PO Detail Tab

All purchase order line items are displayed in the body of the tab by PO Line, Part Number, Quantity Received (if any), and Quantity Ordered. Any quantity returned against the purchase order will also be displayed. You can receive all lines or select one line item for receipt.

To Receive All Lines on a Purchase Order

- In the PO Details tab, click All on the left side of the form. Check marks will appear next to all lines to indicate lines that have changed, for example, a quantity has been entered in the Quantity Received column. You can also edit the quantities, and stockroom and location at your discretion. (See Editing PO Receipts for Receive All)
- 2. You may change information on the original purchase order, if needed. In the PO Details tab, select a line item and click Edit on the left side of the window. The Purchase Order data entry form opens, from here, you can edit the information you wish, click Closed to return to the PO Receipts form. Check the Close PO box if you consider this PO complete.
- 3. If you click Save on the toolbar, a Transaction Group is system generated and includes all items selected for receipt, you may now print a PO receipt by selecting PO Receipts from the Related Reports section of the sidebar.
- 4. Click OK, Save, or Close as required.

To Receive a single line on a Purchase Order:

1. In the PO Details tab, select a line item and click Receive Line. You can edit the quantities, job #, serial/lot #, stockroom and location at your discretion. A check mark appears next to the line to indicate a change has occurred.

- 2. Continue to receive individual lines, as needed. Check the Close PO box if you consider this PO complete.
- 3. When you are finished, click Save on the toolbar, a Transaction Group is system generated and includes all items selected for receipt, you may now print a PO receipt by selecting PO Receipts from the Related Reports section of the sidebar.

Editing the PO Receipts for Receive All transactions

In the Receipts tab, select the line you wish to edit and click Edit on the left side of the form. The Receipts transaction form opens for the line item selected.

* Receipts				
PO Number <u>PO Line</u>	P000080003	Part Number Closed Flag	BP-5	
Stockroom Code Location Code SN/Lot Number Job Number Quantity Received	RAW 100 4,000.00 SN/Lot Information	Raw Materials/Purchased Parts		
Tran Info				
				Close

- 1. The PO number, PO line item, and Part Number display in the PO Receipts **header** A record containing common, constant, or identifying information for a group of records which follows.
- 2. You can edit the Stockroom Location, and quantity; add an SN/Lot Number or Job Number; or enter up to 60 characters of Tran Info; at your discretion.
- 3. When you are satisfied with your edits, click Close to save your entries and return to the Purchase Order Receipts tab.
- 4. When you have finished receiving shipments, do one of the following:

Click Save on the toolbar, a Transaction Group is system generated and includes all items selected for receipt, you may now print a PO receipt by selecting PO Receipts from the Related Reports section of the sidebar.

Click OK to save your entries and exit the form.

Click Close to exit the form without saving any entries not applied or saved.

Purchase Order Returns

Returning Purchase Orders

You may have occasion to return parts to a supplier after they have been received. Alliance/MFG gives you several ways to access purchase orders for return. You can select Supply>Return a Purchase Order from the main menu and use the hyperlink to select a PO. You can also select PO Return from the Purchase Order View. You have the option to edit PO line items before returning them, and once you tag a line for return, you can edit the stockroom, location, SN/Lot number or quantity for the items returned.

Creating a Purchase Order Return

Select Supply>Return a Purchase Order from the main menu, or select a PO line in the Purchase Order View and click PO Returns in Related Edit on the sidebar to open the return transaction form for that PO. The Purchase Order Return form opens at the PO Details tab.

📽 PO Re	turr	าร					
<u>PO Number</u> Return Date		PO	00080003	-	Entered By SUPERVISOR		
🖌 PO Details	4	PO Returns	Notes				
Add	-	PO Line	Part Number	Remaining	Quantity RTV	Quantity Ordered	Quantity Received
1100	11	001	BP-1	0.00	4,000.00	4,000.00	4,000.00
Edit	2	002	BP-5	4,000.00	0.00	4,000.00	4,000.00
	3	004	BP-6	9,000.00	0.00	9,000.00	9,000.00
-	4	005	BP-1	4,504.00	0.00	4,504.00	4,504.00
Delete	5	006	BP-5	4,000.00	0.00	4,000.00	4,000.00
	6	007	BP-5	4,000.00	0.00	4,000.00	4,000.00
	7	008	BP-6	0.00	0.00	4,000.00	0.00
	8	009	BP-2	0.00	0.00	4,000.00	0.00
Return Line	9	010	CP-1	0.00	0.00	10.00	0.00
1	10	011	BP-1	0.00	0.00	6,801.00	0.00
	< (9		**	20. 20 2		49	
							OK Close

If you access PO Returns from main menu, the body of the tab is empty. You can select a PO by entering the number if you know it; or use the hyperlink to select one from the predefined queries. If you access the form from the Purchase Order View, line items for the selected PO display in the body of the tab.

The PO Returns header displays the PO Line, Part Number, Quantity Remaining, Quantity Returned to Vendor, the total Quantity Ordered, and the total Quantity Received to date.

- 1. Enter the PO number you want to return. (If you opened this form from the PO View, the selected PO number will display.
- 2. The part number displays from the PO Header.
- 3. The Return Date defaults to "today's" date. You can use the calendar box to change it, at your discretion.

4. A Transaction Group is system generated for all items selected for return when you click Save or OK.

To return all items on a purchase order:

Click All on the left side of the form to return all lines. Check marks indicate items selected for return. You can edit individual line items as needed from the PO Returns tab.

Editing PO Returns

From the PO Returns tab, you can Add, Edit or Delete individual line items.

Select a line and click Edit to open the PO Returns form.

* PO Returns						
<u>P0 Number</u> Return Date	P000080003]	Entered B Tran Grou	y) Ab	SUPERVISOR -1	
🖌 PO Details 🖌 PO Re	eturns Notes					
Add PO Line	Quantity Returned 1,000.00	Part Number	Stockroom Code RAW	Location Code	SN/Lot Number	
Delete						

- 1. From here, you can edit the Stockroom, Location, and quantity; or add an SN/Lot Number or Job Number at your discretion.
- 2. Click Add on the toolbar to open a blank Returns form and enter the information required.

To return a line item on a PO:

Click Return Line. The Returns form automatically opens for the line items selected.

📽 Returns					
PO Number	P000080003	Part Numb	er	BP-1	
PO Line	001	Closed Flag	J		
Stockroom Code Location Code SN/Lot Number	RAW 100	Raw Materials/Purchased F	Parts		
Job Number					
Quantity Returned Tran Info		1,000.00			
					Close

- 1. Click Close to accept the return as is, or edit the fields as required, then click Close. Remember to uncheck the Closed Flag if you intend to receive the item again.
- 2. You can continue to select items to return and edit as required. No actions will take affect until you click Save or OK.
- 3. When you are satisfied with your selections, click OK to complete the transactions and return to the Purchase Order Returns tab.
- 4. When you have finished returning items, do one of the following:

Click Save on the toolbar to save your entries and leave the form open.

Click OK to save your entries and exit the form.

Click Close to exit the form without saving any entries not applied or saved.

Work Orders

Work orders are an internal authorization to manufacture parts on the shop floor. Alliance/MFG gives you the tools you need to create, kit, relieve shortages, and add, edit, or delete items from work order kits as required, and complete work orders. You can run MRP and create work orders in response to Planned Orders based on actual demand; or you can enter work orders into the system manually.

Creating Work orders

Determine that you need to manufacture a given part. Either run MRP and respond to planned orders, or create work orders manually as they are required.

- 5. Schedule a work order and create a work order traveler. A WO traveler is a report listing the steps and routing required to assemble or produce the scheduled item. Labor Routers are maintained in CRP>Labor Routers. Scheduling a MRP Planned Order or creating a manual WO change the WO status to a "Firm" work order.
- Release The authorization to produce or ship material that has already been ordered. and kit the work order. This will "move" the required components from stockroom inventory to Work in Process (WIP). Print a pick list first, if desired.
- 7. If a required component has insufficient inventory available, the system will automatically create a shortage (shortages are displayed on the Required Tab of the WO Kits transaction form and are written to the Shortages file). When short components are received into stock, a notice will be displayed prompting you to relieve (issue) the shortages to the WO.
- 8. After all work on the Work Order is finished, complete the work order and move the finished assembly quantity into stock. There are three methods for completing work orders; Standard, Serialized and Backflushing.

Status Code - Firm vs. Released

A *Firm* Order is a planned order that has been converted to a firm work order, "locking in" dates and quantities. The order may have been scheduled manually or as a result of an MRP run; however, it has not yet been kitted or released to the shop floor for production. The MRP calculation considers these work orders and explodes their component requirements where necessary. These orders will appear on the Work Orders View list; the released quantities will be "0."

A *Released* Order is a work order that is ready to build, has had parts issued to it (kitted), and has been sent to production. After the work order is released, the MRP calculation will no longer plan to order components for that work order. After the work order is kitted, the quantity released will display in the Released column of the Work Order View. When all quantities for the work order have been kitted, (no shortages remain) the Released quantity and the Required quantity will be the same.

For more information about how MRP creates Planned Orders for components on work orders, see the Material Requirements Planning section.

Entering New Work Orders

Select Supply>Work Orders>New to open a blank Work Order data entry form. Enter the information in the WO header, and continue to fill in the tab information as described in the following sections. The header information will continue to display as your work your way through the tabs.

📽 Work Order	S			
Work Order Number Entered By	1:[Auto Nu SUPERVISOR Supervisor, C	Created by MFG	Closed Flag	
S Detail Notes				
Part Number	8	Job Number		
Quantity To Start Quantity Required Quantity Released	 ○ ○	Start Date Required Date Released Date	 12/29/2005 ★ 12/29/2005]
Quantity Completed	0.00	Standard Hours	0.00	D
Work Order UOM		Total WIP Issues	\$0.0	0
Stock UOM		Total Scrap	\$0.0	0
Priority		🔽 🛛 Total Labor	\$0.0	0
User Defined 1				
			0	K Close

To Complete the Work Order Header:

- 1. If you specified Auto-Generate in your Company Preferences settings, the new WO number will display once you have entered and saved the information, otherwise you can enter a unique work order number.
- 2. The Entered by defaults from the Login ID.
- 3. Leave the Closed Flag blank when entering a new work order. (MRP will not plan for the order after it is closed.)

Detail Tab

- 4. Enter a part number. The part must have been entered in Inventory Maintenance and coded with an Inventory Source Code of "Make Part" or "Phantom Part" and have a valid manufacturing department.
- 5. Enter the quantity needed at start to yield the quantity required. When MRP plans a work order, this will be the required quantity multiplied by the yield factor for the part, indicated on the Part Master. If the work order is scheduled via the MRP Action Parts form, the Start Quantity will be generated by the system from on the order method code setting specified for this part in the Part Maintenance function. (See Chapter 8: Part Maintenance for more information about Order Method Codes.)

- 6. Enter the quantity required to meet planning requirements.
- 7. The quantity released is generated by the system when items are kitted.
- 8. The total number of completed items on the work order is displayed as generated by the system.
- 9. Displayed from the Part Master record. You can override it, at your discretion.
- 10. Displayed from the Part Master record.
- 11. Enter a priority code, at your discretion. (Reference only, based on priority code policies you determine.)
- 12. You can enter up to 10 characters in the User-Defined field. No calculations will be based on information in this field; however, the information will be printed on Work Order Travelers.
- 13. If you use Job Tracking, enter a job number.

* Work Orders					
Work Order Number Entered By	W005110005 SUPERVISOR	Supervisor, Create	d by MFG	Closed Flag	
Detail Notes					
Part Number	B-01		Job Number		
	Assembly, Barrel	, Blue			
Quantity To Start		9,800.00	Start Date	11/30/2005 💌]
Quantity Required		9,800.00	Required Date	12/13/2005 💌]
Quantity Released		0.00	Released Date		
Quantity Completed		0.00	Standard Hours	98.00	I
Work Order UOM	EA	Each	Total WIP Issues	\$0.00)
Stock UOM	EA	Each	Total Scrap	\$0.00)
Priority	Normal order	~	Total Labor	\$0.00)
User Defined 1					
				0	Close

- 14. The Start Date is generated by the system. (Date on which component items were planned.)
- 15. The Required Date is generated by the system. (Date on which the work order is required.)
- 16. The Release Date is displayed by the system. (Date on which component items were released/kitted.)
- 17. Standard Hours are displayed based on labor hours required to produce the part (specified in the Part Master).

- 18. Total WIP Issues, Total Scrap, and Total Labor applied to this work order display in the lower right corner of the form. These provide work order history for the work order.
- 19. When you have completed entering the information, do one of the following:

Click OK to save your entries and exit the Work Orders form.

Click Save on the toolbar to save your entries and continue adding work orders.

Click Add on the toolbar to create another work order.

Click Close to exit the work order form without saving.

Notes Tab

Enter any notes you would like to include about this work order. These will print on any work order documents.

Accessing Work Order Data

Once work orders are added to the system, Alliance/MFG gives you a number of ways to access the data.

From the Supply Menu

Select Supply>Work Orders from the main menu. From here you can go straight to a blank data entry form to enter a new work order, edit existing records; or use predefined queries and wild cards to locate specific records.

From the Work Orders View

The records displayed in the Work Orders View depend on the query selected.

e Wo	* Work Orders View - All											
Work	Orders View - A	JI							23	3 🕹 💡 🐌		
W0 Nur	mber	Closed Flag	Part Number	Quantity To Start	Quantity Released	Quantity Required	Quantity Completed	Start Date	Required Date	Released Date		
1	▶ W000080002		B-01	5,100.00	5,100.00	5,100.00	0.00	10/21/2005	11/7/2005	10/29/2005		
2	W000080003		B-02	10,000.00	10,000.00	10,000.00	3,000.00	10/24/2005	11/8/2005	11/18/2005		
3	W000080004		T-01	10,000.00	10,000.00	10,000.00	10,000.00	10/27/2005	10/28/2005	10/29/2005		
4	W005110001		B-01	2,000.00	2,000.00	2,000.00	0.00	11/8/2005	11/22/2005	11/18/2005		
5	W005110002		BPP-100	5,000.00	5,000.00	5,000.00	0.00	11/8/2005	11/22/2005	11/22/2005		
6	W005110003		BPP-200	5,000.00	0.00	5,000.00	0.00	11/9/2005	11/22/2005			
7	W005110004		B-02	3,790.00	0.00	3,790.00	0.00	11/30/2005	12/13/2005			
8	W005110005		B-01	9,800.00	0.00	9,800.00	0.00	11/30/2005	12/13/2005			
< > > >												
Edit Close												

From here you can add, edit or delete a work order; or via the sidebar you can drill down or access related data; preview or print a report.

Work Order Release Manager

The Work Order Release Manager is a decision-assistant tool that allows users to dynamically test pick open work orders and selectively release them to production based on the feedback provided by the Release Manager. As orders are included/excluded and release quantities are increased/decreased the impact on inventory, customer requirements and potential short falls can be displayed, reviewed and adjusted to maximize potential production quantities and customer satisfaction. You can now answer the question "What can I produce NOW - TODAY ?"

Determining Work Order Release Quantities

Select Supply>Work Order Release Manager to display the Work Order Release Manager View.

Work Order Tab

All "Open" work orders; Firm MRP work orders that have not yet been released, or released work orders that have been only partially released, will be displayed.

🗳 Work Or	der Release Mana	ager								
Work Orders	Affected Parts									
All Open Work	Orders								🛃 🔚 🛃	💡 🐌
Status	W0 Number	Part Number	Include?	Max Build	Qty To Rele	ease QI	ty Remaining	Start Date	Required Date	
1	W006070005	BPP-100			4		5000 👸	11/23/2005	12/8/2005	
2	W006070008	BPP-200			40	0	5000 👸	11/29/2005	12/12/2005	
3	W005110005	B-01			(2)	0	9800 🔅	11/30/2005	12/13/2005	
4	W006070001	B-01			(2)	0	200 👸	11/30/2005	12/13/2005	
5	W006070010	T-01			(2)	0	10000 🚳	12/2/2005	12/5/2005	
ę	W006070002	B-01			673	0	2500 🙈	12/6/2005	12/19/2005	~
<			Ш							>
Kit list for sele	cted work order								🔍 🏭 📑 🕹	💡 🐌
Status	Pa	rt Number D	escription	Qty Required Q	ty On Hand	Qty Rem	naining Stock	UOM		

The default sort order is by the Work Order Start Date. If the WO Start Date is your main priority for scheduling production then you can start the test picking process by clicking the *Qty*

Remaining 🖾 button for a Work Order.

The Qty Remaining column is the total quantity remaining to be released for the work order selected. Clicking this button will automatically check the "Include?" checkbox and also copy and enter the Qty Remaining amount into the *Qty To Release* column.

Test Picking Component Parts

If you do this by Start Date, for each work order in the list, the Release Manager will also calculate and display the *Max Build* quantity for each work order and display a "Flag" in the Status field (the column to the left of the WO Number in the view). A **Green Check** indicates all parts required to kit the work order *Max Build* quantity are available. The kit list for the work order highlighted in the top half of the view is displayed in the bottom half of the view. The current on-hand inventory position of the component parts is displayed.

📽 Work Ord	a ^d Work Order Release Manager									
Work Orders	Affected Parts									
All Open Wor	'k Orders							🕹 🌳 🕹		
Status	W0 Number	Part Number	Include? M	ax Build	Qty To Release	Qty Remaining	Start Date 🛛 🗠	Required Date		
1 📀	W000080003	B-02	2	210 🎲	2210	2210 🔅	10/24/2005	11/8/2005		
2 🕨 🧭	W005110001	B-01	20	000 🙀	2000	2000 🎇	11/8/2005	11/22/2005		
3	W005110002	BPP-100		(i)		5000	11/8/2005	11/22/2005		
4	W005110003	BPP-200		9	0	5000 💿	11/9/2005	11/22/2005		
<								>		
Kit list for se	lected work order							🛃 🌳 🐌 🔍		
Status 🗠	Part Number	Description	Qty Required	Qty On Hand	Qty Remaining	Stock UOM				
1 🕨 🕗	BP-1	Barrel, Top Half,	200	0 4999	2999	EA				
2 📀	BP-2	Barrel, Bottom H	200	0 12900	10900	EA				
3 📀	BP-3	Ring, Metal .250	200	0 10000	5790	EA				
4 🥥	BP-4	Clip, Pocket Met	200	0 10000	5790	EA				

Affected Parts Tab

Click on the Affected Parts Tab to display a combined list of all parts required for all "Included" work orders. The complete current on-hand inventory position of the component parts is displayed.

📽 Work Order Release Manager 📃 🗖 🗙									
Work Orde	rs Affected Parts								
Parts rec	quired by selected or	ders						🛃 🌳 🐌	
Status	A Part Number	Part Description	Qty On Hand	Qty Expected	Qty Remaining	Total Qty Required	Stock UOM	Total Issues	
1 🕨	🥑 BP-3	Ring, Metal .250	10000	0	5790	4210	EA	4210	
2	🥝 BP-4	Clip, Pocket Met	10000	0	5790	4210	EA	4210	
3	🥝 BP-5	Barrel, Top Half,	4310	0	2100	2210	EA	2210	
4	BP-6	Barrel, Bottom H	5210	0	3000	2210	EA	2210	
5	🥝 BP-1	Barrel, Top Half,	4999	0	2999	2000	EA	2000	
6	🥑 BP-2	Barrel, Bottom H	12900	0	10900	2000	EA	2000	
<								>	
Work O	rders that will kit the	selected part						🛃 💡 🐌 🔍	
W0 Numb	er	Assembly St.	art Date I:	ssue Qty					
1	W000080003	B-02 10	/24/2005	2210					
2	W005110001	B-01 11	/8/2005	2000					
		11							

Click on the Work Orders Tab to return to the Release Manager.

Release Manager indicates sufficient quantities available 🥝 (All Green checks)

In this example: WO00080003 for part B-02 has Qty Remaining of 2210. Clicking the button in the Qty Remaining column will enter 2210 in the Qty To Release, it will also check the Include? box and calculate the Max Build quantity (reviews the current on-hand balances for all required BOM components), which in this case is 2210. Next, WO05110001 for part B-01 has Qty Remaining of 2000. Clicking the button in the Qty Remaining column will enter 2000 in the Qty To Release, check the Include? box and calculate the Max Build quantity. The Release manager again reviews the current on-hand balances for all required BOM components on all "Included?" work orders.

Green checks indicate all required parts are available for all included work orders, you can release and build both of these work orders now, today!

If you have completed the work order test pick function and want to release the work order(s), click on the Save button in the Toolbar. Clicking the Save button does several things.

- 1. Validate the Qty To Release does not exceed the Max Build quantity for all Included Work Orders
- 2. Create a Planned Issues list (allocation or shortage list) for each work order released
- 3. Releases the "Included" Work Orders

You may now print Pick Lists and WO Travelers and Kit the released work orders.

NOTE:

Additionally the Alliance/MFG RDC Kitting transaction will allocate the Planned Issues lists created by the Release Manager to Hand Held Devices used for Remote Data Collection. Contact Account Management or visit the Exact Alliance Customer Portal for additional details on Alliance/MFG Remote Data Collection.

Release Manager indicates insufficient quantities available 🚨 (at least one Red box)

If the release manager has displayed a Red X (actually a red box with a white X) on a selected work order, it indicates there are insufficient component inventories to satisfy the full Qty To Release. When this occurs the Max Build quantity will be calculated and displayed. The kit list for the highlighted work order is displayed in the bottom half of the Release Manager window.

📽 Work	📽 Work Order Release Manager 📃 🗖 🔀										
Work Orde	ers	Affected Parts									
All Open	Wo	'k Orders								- 🕹 💡	٩
Status		W0 Number	Part Number	Include?	Max	Build	Qty To Release	Qty Remaining		Start Date	
1		W005110002	BPP-100	V	240	0 💮	5000	5000	ŝ,	11/8/2005	
2		W005110003	BPP-200			(i)	0	5000	ŝ	11/9/2005	
3		W005110005	B-01				0	9800 4	ŝ	11/30/2005	
4		W005110004	B-02			(2)	0	3790	Ş,	11/30/2005	
<			Ш								>
Kit list fo	or se	lected work order								🕹 🌱 🦫	۹
Status		Part Number	Description	Qty Require	d	Qty On Hand	Qty Remaining	Stock UOM			
1 🕨		B-01	Assembly, Barre	5	5000	2900	-2100	EA			
2	0	C-01	Assembly, Cartri	Ę	5000	15000	10000	EA			
3	0	PL-1	Tube, Upper mol	Ę	5000	8999	3999	EA			
4	0	PL-2	Tube, Lower mol	5	5000	8999	3999	EA			
5	0	PL-3	Plunger, Metal	5	5000	7999	2999	EA			
6		S-01	Spring, Metal .8	5	5000	2400	-2600	EA			

In this example there are two parts with insufficient inventory on-hand to build the work order quantity of 5,000. B-01 has 2900 parts in stock available to be pulled and S-01 has 2400 available. The Max Build quantity is calculated and displayed as 2400 in the top half of the Release Manager window.

If you decide that the entire quantity of 5000 is still required to satisfy a requirement (customer order or other internal priority) you can investigate further.

Highlight component part B-01, the Sidebar displays a link to the Component MRP, click on that Related View link. The MRP Detail for part B-01 is displayed.

📽 MRP Deta	ail View	- By Part a	nd Job (B-01	.)					_ 🗆 🛛
Part Num	iber	B-01	Assem	bly, Barrel, Blue					
Job Numb	ber			ISC I	vi	OMC P			
Quanity C)n Hand	2	,900.00	Order M	fultiple	1.00			
Safety Sti	ock		0.00	Yield Fa	actor	100			
Order Qty	,		1.00	Lead T	ime	10			
A	Action	Start Date	Date Required	Reference	Start Quantity	Quantity Required	Balance	Post Type	Pegging
1		10/21/2005	11/7/2005	W000080002	5,100.00	5,100.00	8,000.00	Firm W0	
2			11/8/2005	W005110002		-5,000.00	3,000.00	Planned Kit	BPP-100
3		11/8/2005	11/22/2005	W005110001	2,000.00	2,000.00	5,000.00	Firm W0	
4			11/23/2005	0000000001		-5,000.00	0.00	Planned Kit	BPP-100
5		11/30/2005	12/13/2005	W005110005	9,800.00	9,800.00	9,800.00	Firm W0	
6			12/14/2005	0000000006		-4,800.00	5,000.00	Planned Kit	BPP-x300
7			12/14/2005	0000000002		-5,000.00	0.00	Planned Kit	BPP-100
8 C	Create	12/6/2005	12/19/2005	0000000010	2,500.00	2,500.00	2,500.00	Planned WO	
9			12/20/2005	0000000007		-2,500.00	0.00	Planned Kit	BPP-x300
10 C	Create	12/29/2005	1/12/2006	0000000011	1,000.00	1,000.00	1,000.00	Planned WO	
11			1/13/2006	000000008		-1,000.00	0.00	Planned Kit	BPP-x300
12 C	Create	3/31/2006	4/13/2006	0000000012	5,000.00	5,000.00	5,000.00	Planned WO	
13			4/14/2006	000000003		-5,000.00	0.00	Planned Kit	BPP-100
<									>
Schedule									Close

The first row lists a past due work order for a quantity of 5100, after checking with either the planner or foreman for that department they indicate that a quantity of 2500 will be completed into stock today. Close the MRP Detail View for B-01.

Click on the Affected Parts Tab of the Release Manager, enter 2500 in the Qty Expected column for part B-01.

Highlight part S-01, the Sidebar displays a link to the Component MRP, click on that Related View link. The MRP Detail for part S-01 is displayed. The first row lists a past due PO for a quantity of 15,600 with a reschedule action of Move In displayed (this indicates that MRP notified the buyer/planner to expedite this PO). A quick check with buyer indicates the entire 15,600 parts are in receiving and will be available soon. Close the MRP Detail View for S-01. Enter 15,600 in the Qty Expected column for part S-01 in the Release Manager.

o [®] Work	📽 Work Order Release Manager 📃 🗖 🔀									
Work Ord	ers	Affected Parts								
Parts re	quire	d by selected or	ders						- 🕹 🂡	è 🍑
Status		Part Number	Part Description	n Qt	y On Hand	Qty Expected	Qty Remaining	Total Qty Required	Stock UO	м
1		B-01	Assembly, Ba	arre	2900	2500	400	5000	EA	
2	0	C-01	Assembly, Ca	artri	15000) 0	10000	5000	EA	
3	0	PL-1	Tube, Upper	mol	8999	0	3999	5000	EA	
4	0	PL-2	Tube, Lower	mol	8999	0	3999	5000	EA	
5	0	PL-3	Plunger, Meta	ıl	7999	0	2999	5000	EA	
6 🕨	▲	S-01	Spring, Metal	.8	2400	15600	13000	5000	EA	
<u> </u>					Ш					>
Work C	Order	s that will kit the	selected part					4	5 💡 🍉	i 🔍
W0 Num	ber		Assembly	Start D	ate I	ssue Qty				
1	W	005110002	BPP-100	11/8/3	2005	5000				

The red check boxes displayed on parts B-01 and S-01 are replaced with Yellow caution icons

This indicates you are "Expecting" these parts and are planning to release the work order for BPP-100 at the full quantity of 5,000.

Click on the Work Orders Tab. The Max Build quantity for BPP-100 is now displayed as 5,000 and the inventory status for the two component parts have been updated.

📽 Work	av Work Order Release Manager										
Work Ord	ers	Affected Parts									
All Oper	n Wor	rk Orders								- 🛃 두	2 🍛
Status		W0 Number	Part Number	Include?	Max	Build	Qty To Release	Qty Remaining		Start Date	
1	▲	W005110002	BPP-100	~	500	0 🌍	5000	5000	\$	11/8/2005	
2		W005110003	BPP-200			٢	0	5000	\$	11/9/2005	
3		W005110005	B-01			(i)	0	9800	1	11/30/2005	5
4		W005110004	B-02			(2)	0	3790	0	11/30/2005	j
Kit list f	or se	lected work order								🕹 💡 🕃	>
Status	_	Part Number	Description	Qty Require	d	Qty On Hand	Qty Remaining	Stock UOM			
1	▲	B-01	Assembly, Barre	5	5000	2900) 400	EA			
2	0	C-01	Assembly, Cartri	5	5000	15000	10000	EA			
3	0	PL-1	Tube, Upper mol	5	5000	8999	3999	EA			
4	0	PL-2	Tube, Lower mol	5	5000	8999	3999	EA			
5	0	PL-3	Plunger, Metal	5	5000	7999	2999	EA			
6		S-01	Spring, Metal .8	5	5000	2400	13000	EA			

NOTE:

The actual inventory balance has NOT been altered, the Qty Expected is only reflected and utilized in the Release Manager. The actual transactions, a Work Order Completion for B-01 and a Purchase Order Receipt for S-01will update the stockroom on-hand balance when the transactions are actually performed.

If you finished test picking orders, click the Save button in the Toolbar. Clicking the Save button does several things.

- 1. Validate the Qty To Release does not exceed the Max Build quantity for all Included Work Orders
- 2. Create a Planned Issues list (allocation or shortage list) for each work order released
- 3. Releases the "Included" Work Orders

You may now print Pick Lists and WO Travelers and Kit the released work orders.

NOTE:

Additionally the Alliance/MFG RDC Kitting transaction will allocate the Planned Issues lists created by the Release Manager to Hand Held Devices used for Remote Data Collection. Contact Account Management or visit the Exact Alliance Customer Portal for additional details on Alliance/MFG Remote Data Collection.

Kitting and Dekitting

Alliance/MFG gives you complete control over work order and sub-contract purchase order kitting. Each is described in detail in the following sections.

Work Order Releasing and Kitting

Component on-hand inventory is calculated with each work order released, which gives you the option to "test pick" multiple work orders until the inventory is consumed. Test picking can be done here or by using the Release Manager. You can release and kit one component line or all lines exactly as displayed; you can release and kit a partial quantity, or you can release more than the required quantity.

You can add work orders, change release quantities, and make any adjustments you wish until you are satisfied with the results, then click Save or OK to save your entries and release the work orders to WIP (production).

Select Supply>Kitting from the main menu. From here, you have the option to kit or test pick a work order or a subcontract PO.

To Kit a Work Order:

Select Supply>Kitting>Work Order to open a blank WO Kits transaction form.

a WO Kits				
WO Number		Entered By Tran Group	SUPERVISOR	.1
Assembly				
Quantity Released				
Quantity To Start		Start Date		
Quantity Required		Required Date		
Qty to Release	0.00	Kit Date	12/29/2005 💌	
Required/Short WIP Issues	otes			
Add				
Edit				
Delete	No reco	rds found		
All				
Kit Line				
			[οκ] (Close
Quantity Required Quantity To Start Quantity Required Qty to Release	0.00 otes	Start Date Required Date Kit Date rds found	12/29/2005 ▼	Close

Required/Short Tab

The WO Kits transaction form opens at the Required/Short tab. If you accessed this form from the Work Order View, the selected WO displays in the WO Number field; otherwise, enter the work order you wish to kit.

Once you select a work order, the Assembly, Description and any quantity already released display in the header, along with the Quantity To Start, Quantity Required, and the Start and Required dates. The Kit Date defaults to "today's" date. You can use the calendar box to select a different date if you wish. The system will explode the current BOM to list the parts needed to complete the work order.

You can kit the entire quantity released or change it, kit all lines on the work order, or just kit one line, as needed.

Enter a quantity to release. The system will explode the current BOM to list the parts needed to complete the work order. You can add, edit and delete requirements/shortages to the WO if needed. The system will adjust quantities as you kit. The actual kitting won't be applied until you click Save on the toolbar or the OK button. This allows you to "test pick" different orders until you are satisfied.

📽 WO Kits					
W0 Number	✓ W005110003		Entered By	SUPERVISOR	
Assembly	BPP-200		Assembly, Ball Point Pen, Red		
Quantity Released	1	5,000.00			
Quantity To Start		5,000.00	Start Date	11/9/2005	
Quantity Required		5,000.00	Required Date	11/22/2005	
Qty to Release	1	5000	Kit Date	12/29/2005 💌	
✔ Required/Short N	wIP Issues Notes				
Add Part N	Jumber Quantity	UOM Code			
🚽 1 B-02	5,000.00	EA			
Edit 2 C-02	5,000.00	EA			
Delete B 3 PL-1	5,000.00	EA			
4 PL-2	5,000.00	EA			
All de 5 PL-3	5,000.00	EA			
Kit Line	5,000.00	EA			
				OK Close	

To Kit All Lines:

- Click All to kit the entire work order. Quantities kitted complete will change to "0" on the Required/Short Tab and the issued quantities will be listed on the WIP Issues Tab, the default stockroom and locations will be relieved first, if insufficient inventory is available in the default stockroom and location, the system will continue to pick from other "Nettable" stockrooms and locations until the entire requirement is satisfied.
- 2. When you change a quantity, a check mark indicates a change has occurred. If you add to the release quantity from the WO header, additional components may be added to the required list. A plus sign next to the line indicates the system added these components.
- 3. When you have finished kitting, do one of the following:

Click the WIP Issues tab to review the stockrooms and locations, or change quantities, stockrooms, or locations.

Click the Add button on the left side of the tab to add a part/**shortage** An amount by which an order is deficient. . (See Adding to Shortages in the next section.)

Click OK to accept the kit and exit the WO Kits data entry form.

Click Save on the toolbar to kit this work order and leave the form open.

Click Add on the toolbar to kit another work order.

To kit a single line:

1. Select the line you wish to kit. You can kit a partial quantity, or modify the release quantity as described earlier. Click on the Kit Line button. A pop-up window will display the stockroom and location being relieved.

WO Number	W005110003	
Part Number	B-02	
UOM Code	EA	
SN/Lot Number		
Quantity	4,210.00 Each	
Tran Info		

You may change the stockroom and/or location if required. Quantities kitted complete will change to "0" on the Required/Short Tab and the issued quantities will be listed on the WIP Issues Tab.

When you have finished kitting, do one of the following:

Click the WIP Issues tab to review or edit the stockrooms, locations, or change quantities.

Click OK, Add, Save as needed.

NOTE:

CURRENT BILL OF MATERIALS

Because bills of materials change from time to time, the system recognizes the Current Bill of Materials at the time of the kitting transaction. If you kit a WO on Monday, add a part to the BOM on Tuesday, then DeKit the work order on Wednesday, the system will DeKit according to the BOM configuration when the kitting transaction took place.

WIP Issues Tab

After you select items to kit, click WIP Issues to see what departments and stockrooms the system will issue the components from. You can add more items if you have a new requirement, or select a line and click Edit to change a quantity, stockroom, or location.

* WO	Kits							
W0 Number V005110003				Er	Entered By SU		SUPERVISOR	
				Tr	an Group		-1	
Assembly	BF	PP-200		Assembly, Ball Point Pen, Red				
Quantity F	Released 🚽	,	5,000.00					
Quantity [*]	ToStart		5,000.00	Start Date	1	1/9/2005		
Quantity F	Required		5,000.00	Required D	Bequired Date 11/22/2			
Qty to Re	elease 🖌		5,000.00	Kit Date				
			-0				0	
🖌 Requir	ed/Short VIP Is	ssues Notes						
Add	Part Number	Quantity	UOM Code	Stockroom Code	Location Code	SN/Lot Number	Job Number	
	🔁 1 🛛 🖧 🔁	4,210.00	EA	SA-1	100			
Edit	2 C-02	5,000.00	EA	SA-2	100			
d	3 PL-1	5,000.00	EA	RAW	100			
d	4 PL-2	5,000.00	EA	RAW	100			
i i i i i i i i i i i i i i i i i i i	5 PL-3	5,000.00	EA	RAW	100	0	Ĵ.	
Delete	6 S-01	2,400.00	EA	RAW	100			
							OK Close	

When you click Save or OK, the system generates a Transaction Group number to associate with the kitting transactions completed.

Adding to or Editing Shortages

You may have occasion to add or edit a shortage to a work order kit. You can do this quickly from the WO Kits, Required/Short tab data entry form.

2. Click the Add or Edit button on the left side of the Required/Short tab. The Work Order Shortages data entry form opens.

& Work Orde	er Shortages	
WO Number	W005110003	
Part Number	S-01	
Transaction Date Quantity <u>UOM Code</u>	✓ 12/29/200 ✓ 2,600.00 ✓ EA Each	
		Close

- 3. The WO Number and component part number display as selected in the WO Kits form. The Transaction date defaults to "today," however, you can change it if required.
- 4. To create a new shortage enter the component part number required.
- 5. Enter a quantity for the total new or edited shortage.
- 6. Click Close to save the entry and return to the Required/Short tab. The quantity is added. Click OK, Add, Save as needed.

NOTE:

If some parts are unavailable, the amount remaining unreleased will continue to appear in the Required/Short tab as a shortage. MRP will continue to consider these quantities in planning, and they will appear on the shortage report against the work order.

Work Order Dekitting

It may become necessary to remove components from a kit; for example, you may discover that a batch of components parts is defective. You can dekit them to a scrap stockroom and create a shortage so MRP will re-plan their requirements. Or, you may decide to reduce or cancel (Un-Release) the work order, dekit the components and return them to inventory. If you have kitted a work order but have not yet clicked Save or OK you are free to change quantities and dekit at your discretion. However, if you have already accepted the kit (clicked Save or OK), you must dekit as a separate transaction.

Select Supply>Dekitting. From here you have the option to dekit a subcontract PO item, or a work order. The Dekit window will open to the WIP Issues tab, access any items that have been kitted to the work order, and perform a dekit as described in the following sections.

To Dekit a work order:

Select Supply>Dekitting>Work Order. The WO Dekit transaction form opens.

📽 WO DeKits										
W0 Number W005110003 Entered By SUPERVISOR Reduce release qty by 0.00 Un-Release 0rder Quantity Released 5,000.00 Dekit Date 12/29/2005 ▼										
WIP Issues	W0 C	eKits Sh	ortages Notes			-				
All		Issue ID	Part Number	Release Qty	Scrapped	UOM Code	SN/Lot Number	Job Number	Stockroom	Location Code
	1		1 B-02	4,210.00	0.00	EA			SA-1	100
Dekit Line	2	1	2 C-02	5,000.00	0.00	EA			SA-2	100
	3	1	3 PL-1	5,000.00	0.00	EA			RAW	100
	4		4 PL-2	5,000.00	0.00	EA	0	Ĵ	RAW	100
	5		5 PL-3	5,000.00	0.00	EA	12		RAW	100
	6		6 S-01	2,400.00	0.00	EA	8	2	RAW	100
								·	·	
										OK Close

- 1. Enter a work order number. The Quantity Released to the work order will display on the header.
- 2. You can dekit any amount of the Released quantity that has not been received or completed to inventory. Enter a quantity in the Reduce Release Quantity By field. The Quantity Released will change accordingly.

Using the Un-Release Order button

The Un-Release Order button acts differently, depending on the quantity entered in the Release Quantity By field and the original work order quantity released.

Adjusted work order quantity equals zero - When the quantity entered in the Reduce Release Quantity By field equals the original work order released quantity, this action will remove ALL issues and ALL shortages. The only exception would be issues that contain scrapped parts; which must be retained to preserve the scrap cost on the work order.

Adjusted work order quantity is greater than zero - When the work order quantity released is greater than zero after being adjusted by the value entered in the Reduce Release Quantity By field, this action will use the current exploded bill of materials to get a list of requirements for the Reduce Quantity By value. First, it will remove any shortages up to the amount required by the exploded bill. After shortages are removed, issues will be dekitted.

For example: You enter a "Reduce release qty by" for 100 units of a part that has component C1. Component C1 has a shortage of 75 units and an issued line of 200 units. The shortage of 75 units will be marked for deletion and 25 units of the issued line will be dekitted, leaving 175 units issued.

WIP Issues Tab

In the WIP Issues tab, click All to dekit all lines, or select a line and click Dekit Line to dekit one line at a time.

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🗳 WO DeKits							
W0 Number	W005110003		Ente	ered By	SUPERVI	SOR	
Reduce release o		0.00 Ur	n-Release Orde	r			
Quantity Release	d	!	5,000.00				
Dekit Date 7 /24/2006 💌							
VIP Issues	🖌 WO Dek	(its 🖌 Shortage	s Notes				
	Issue ID	Part Number	Release Qty	Scrapped	UOM Code	SN/Lot Number	Job Numbe 🔨
		1 B-02	0.00	0.00	EA		
Dekit Line 😭 2		2 S-01	0.00	0.00	EA		
🗑 3	:	3 C-02	0.00	0.00	EA		
🗑 4	· ·	4 PL-1	0.00	0.00	EA		
🗑 5		5 PL-2	0.00	0.00	EA		
🗑 6		6 PL-3	0.00	0.00	EA		×
< 1							>
						(OK Close

WO Dekit Tab

In the WO Dekit tab, you can review, change, or delete the quantity, stockroom, location, SN/Lot Number or Scrap the part. Each dekit is assigned a unique Issue ID number to track issues that would otherwise be identical.

To Edit lines in the dekit:

- 3. In the WO Dekit tab, select the line you wish to edit.
- 4. Click Edit on the left side of the tab to open the WO Dekit form. From here, you can edit the Stockroom, Location, SN/Lot Number, Job Number, enter up to 60 characters of Tran Info; or Quantity; tag the dekit for a shortage or to scrap.
- 5. Select Create Shortage if you want MRP to plan to replace the dekitted parts. It is not necessary to use this feature when you use the Un-Release button on the WO Dekit form (see the next section).

📽 WO DeKits				
WO Number Issue ID	₩005110003	Part Number	B-02	
Stockroom Code Location Code SN/Lot Number Job Number Quantity Create Shortage? Scrap Part? Tran Info	SA-1 100 Sub-Assemblies ↓ 5,000.00 Each ↓ ↓			
				Close

- 1. Select Scrap Part to flag the system to associate the cost of the scrapped part to this particular work order. You can dekit a part to scrap and specify a location without checking this box; however, the cost of scrap will not be tracked to this particular work order.
- Click Close to accept the dekit and return to the WO Dekit tab. Click OK, Add, Save as needed.

Dekitting Parts to Scrap

You have the ability to dekit components to scrap and create replacement requirements (shortages). For example, if you know a particular component is defective, you can dekit the affected work order assigning the components to a stockroom designated for scrap and create shortages to replace the components.

To dekit a part to scrap:

- 1. In the WO Dekit tab, select a line and click Edit.
- 2. The WO Dekit form opens for the Issue ID selected in the tab.
- 3. Select the Stockroom location for scrapped items.
- 4. Select the Location for the scrapped item.
- 5. Edit the quantity if needed. From here, you can edit the Stockroom, Location, SN/Lot Number, Job Number, or Quantity.
- Select Create Shortage if you want MRP to plan to replace the dekitted parts. It is not necessary to use this feature when you use the Un-release button on the WO Dekit form (see the following section).
- 7. Select Scrap Part to flag the system to associate the cost of the scrapped part to this particular work order. You can dekit a part to scrap and specify a location without checking this box; however, the cost of scrap will not be tracked to this particular work order.

8. Click Close to accept the dekit and return to the WO Dekit tab. Click OK, Add, Save as needed.

Working with Sub-contract Purchase Orders

Alliance/MFG gives you control over sub-contract purchase order kitting. If you supply parts to your suppliers this section will explain sub-contract PO kitting. The PO line item to be kitted must have an ISC of Subcontract Part and should have a department with a subcontract WIP account number assigned. You can kit one line or all lines exactly as displayed; you can also kit or release a partial quantity. A temporary on-hand inventory quantity is calculated with each order released, which gives you the option to "test pick" multiple orders until all inventory is consumed. You can add orders, change released quantities, and make any adjustments you wish until you are satisfied with the results, then click Save or OK to save your entries and issue the parts to the sub-contract PO (SC WIP).

When components are available to be sent to the supplier, you are ready to kit the work order. Select Supply>Kitting from the main menu. From here, you have the option to kit a subcontract PO or a work order.

To Kit a Subcontract PO:

Select Kitting>Subcontract PO Item to open a blank PO Kits transaction form.

🗳 PO Kits			
PO Number		Entered By	SUPERVISOR
PO Line		Tran Group	-1
Assembly			
Quantity Released			
Start Quantity		Start Date	
Quantity Required		Required Date	
Qty to Release	0.00	Kit Date	7 /18/2006 💌
Required/Short PIP Issues	Notes		
Add			
Edit			
Delete	No re	cords found	
AI			
			OK Close

Required/Short Tab

The PO Kits transaction form opens at the Required/Short tab. If you accessed this form from the Purchase Order View, the selected PO displays in the PO Number field; otherwise, enter the purchase order number you wish to kit. Enter the PO Line Item you wish to kit.

Once you select a PO and Line, the Assembly, Description and any quantity previously released display in the header, along with the Start Quantity, Quantity Required, and the Start and Required dates. The Kit Date defaults to "today's" date. You can use the calendar box to select a different date if you wish. The system will explode the current BOM to list the parts needed to complete the work order.

🗳 PO Kits				
PO Number	P005110004		Entered By	SUPERVISOR
PO Line	004		Tran Group	-1
Assembly	C-01		Assembly, Cartridge, Blue Ink	
Quantity Released	1	110.00		
Start Quantity		110.00	Start Date	7/18/2005
Quantity Required		100.00	Required Date	11/28/2005
Qty to Release 🛛 🗸	•	110.00	Kit Date	7 /18/2006 💌
✓ Required/Short PIP Iss	ues Notes			
Add Part Number	r Quantity	UOM Code		
Edit 7-01	110.00	D EA		
Delete				
				OK Close

You can kit the entire quantity released or change it, kit all components on the line, or just kit selected items to the line, as needed. When you click Save or OK, the system generates a Transaction Group number to associate with the multiple kitting transactions completed.

To Kit All components to the Line:

- Enter a quantity to release. The system will explode the current BOM to list the parts needed to complete the kit. You can add, edit and delete requirements/shortages to the PO if needed. The system will adjust quantities as you kit. The actual kitting won't be applied until you click Save on the toolbar or the OK button. This allows you to "test pick" different orders.
- 2. Click All to kit the entire quantity of all components. Quantities kitted complete will change to "0" on the Required/Short Tab and the issued quantities will be listed on the PIP Issues Tab, the default stockroom and locations will be relieved first, if insufficient inventory is available in the default stockroom and location, the system will continue to pick from other "Nettable" stockrooms and locations until the entire requirement is satisfied.
- 3. When you change a quantity, a check mark indicates a change has occurred. If you add to the release quantity from the PO line item, additional components may be added to the required list. A plus sign next to the line indicates the system added these components.

To kit a single component to the line:

1. In the PO Kits transaction form, enter a PO Number to kit.

 Select the line you wish to kit. You can kit a partial quantity, or modify the release quantity as described earlier. Click Kit Line. A pop-up window will display the stockroom and location being relieved. You may change the stockroom and/or location if required. Quantities kitted complete will change to "0" on the Required/Short Tab and the issued quantities will be listed on the PIP Issues Tab.

PIP Issues Tab

After you select items to kit, click PIP Issues to see what departments and stockrooms the system will issue the stock from. From here, you can add more items if needed, or select a line and click Edit to change a quantity, stockroom, or location.

💣 PO Kits	;						
P0 Number P005110004		05110004		Entered By			
PO Line		004		Tran Gr	oup		-1
Assembly		C-01		Assembly, Cartrid	dge, Blue Ink		
Quantity R	eleased	1	110.00				
Start Quan	tity	`	110.00	Start Da	ate	7/18/2005	
Quantity R	equired		100.00	Require	ed Date	11/28/2005	
Qty to Rele	ease 🖌		110.00	Kit Date		7 /18/2006 🔻	
🖌 Require	d/Short 🖌 PIF	Issues Notes					
Add	Part Number	Quantity	UOM Code	Stockroom Code	Location Code	SN/Lot Number	Job Number
	■ 1 CP-1	110.00	EA	RAW	100		
	2 T-01	110.00	EA	SA-1	100		
Delete							
							OK Close

When you have finished kitting, do one of the following:

Click the Add button on the left side of the tab to add a part or create a shortage. (See Creating Shortages in the next section.)

Click OK to accept the kit and exit the PO Kits data entry form.

Click Save on the toolbar to kit this order and leave the form open.

Click Add on the toolbar to kit another purchase order.

NOTE:

CURRENT BILL OF MATERIALS

Because bills of materials change from time to time, the system recognizes the Current Bill of Materials at the time of the kitting transaction. If you kit a WO on Monday, add a part to the BOM on Tuesday, then DeKit the work order on Wednesday, the system will DeKit according to the BOM configuration when the kitting transaction took place.
Creating Shortages

You may have occasion to create or add a shortage to a purchase order kit. You can do this quickly from the PO Kits, Required/Short tab data entry form.

Click the Add button on the left side of the Required/Short tab. The PO Shortages entry form opens.

📽 PO Shortages	
PO Number	P005110004
Line Number	004
Part Number	✓ S-01
	Spring, Metal .875 inch
Transaction Date	7 /18/2006
Quantity	100.00
UOM Code	EA Each
	Close

- 1. The PO Number, Line Number default from the PO Kit screen. The Transaction date defaults to "today," however, you can change it.
- 2. Enter a Part number, quantity and UOM for the shortage.
- 3. Click Close to save the entry and return to the Required/Short tab. The shortage is added. Click OK, Add, Save as needed.

NOTE:

If some parts are unavailable, the amount remaining unreleased will continue to appear in the Required/Short tab as a shortage. MRP will continue to consider these quantities in planning, and they will appear on the shortage report against the work order.

Dekitting Sub-contract Purchase Orders

It may become necessary to remove components from a kit; for example, you may discover that a batch of components parts are defective. You can dekit them to a scrap stockroom and create a shortage so MRP will plan their requirements. Or, you may decide to dekit components and return them to inventory. If you have kitted a purchase order but have not yet clicked Save or OK you are free to change quantities and dekit at your discretion. However, if you have already accepted the kit (clicked on Save or OK), you must dekit as a separate transaction.

Select Supply>Dekitting. From here you have the option to dekit a subcontract PO item, or a work order. The PO Dekit window will open to the PIP Issues tab, access any items that have been kitted to the order, and perform a dekit as described in the following sections.

To dekit a Purchase order line:

Select Supply>Dekitting>Sub-contract PO Item. The PO Dekit transaction form opens.

🗳 PO Dekits				
PO Number			Entered By	SUPERVISOR
PO Line			Tran Group	-1
Reduce release qty by		0.00 Partia	l Dekit	
Quantity Released				
Dekit Date	7 /24/2006 💌			
PIP Issues PO Dekits Sh All Dekit Line	ortages Notes	No records fo	und	
				OK Close

- 1. Enter a purchase order and line number. The Quantity Released to the order will display.
- 2. You can dekit any amount of the Released quantity that has not been received or completed to inventory. Enter a quantity in the Reduce Release Quantity By field. The Quantity Released will change accordingly.

Using the Un-Release Order button

The Un-Release Order button acts differently, depending on the quantity entered in the Release Quantity By field and the original order quantity released.

Adjusted order quantity equals zero - When the quantity entered in the Reduce Release Quantity By field equals the original order released quantity, this action will remove ALL issues and ALL shortages. The only exception would be issues that contain scrapped parts; which must be retained to preserve the scrap cost on the order.

Adjusted order quantity is greater than zero - When the order quantity released is greater than zero after being adjusted by the value entered in the Reduce Release Quantity By field, this action will use the current exploded bill of materials to get a list of requirements for the Reduce Quantity By value. First, it will remove any shortages up to the amount required by the exploded bill. After shortages are removed, issues will be dekitted.

PIP Issues Tab

In the PIP Issues tab, click All to dekit all components, or select a component and click Dekit Line to dekit one item at a time.

🗳 PO Dekits							
PO Number	P005110004		Entered By	r.	SUPERVISOR		
PO Line	002		Tran Group		-1		
Reduce release qty by		0.00 Part	ial Dekit				
Quantity Released		110.00					
Dekit Date	7 /24/2006	-					
PIP Issues PO Dekits Sho	ortages Notes						
	Part Number	Release Qty	Scrapped	UOM Code	SN/Lot Number	Job Number	Department Code
1	1 CP-1	110.00	0.00	EA			RAW
Dekit Line 2	2 T-01	110.00	0.00	EA			SA-1
<							>
							OK Close

PO Dekits Tab

In the PO Dekits tab, you can review, change, or delete the quantity, stockroom, location, SN/Lot Number or Scrap the part. Each dekit is assigned a unique Issue ID number to track issues that would otherwise be identical.

To Edit lines in the dekit:

📽 PO Dekits			
P0 Number P0 Line	P005110004 002	Part Number	T-01
Issue ID	✓	E	
Stockroom Code	SA-1		
Location Code	100	Sub-Assemblie	15
SN/Lot Number			
Job Number			
Quantity	11	0.00 Each	
Create Shortage?	\checkmark		
Scrap Part?			
Tran Info			
			Close

In the PO Dekits tab, select the component you wish to edit.

1. Click Edit on the left side of the tab to open the PO Dekits form. From here, you can edit the Stockroom, Location, SN/Lot Number, Job Number, or Quantity; tag the dekit for a shortage or to scrap.

- 2. Select Create Shortage if you want MRP to plan to replace the dekitted parts. It is not necessary to use this feature when you use the Un-Release button on the PO Dekits form (see the next section).
- 3. Select Scrap Part to flag the system to associate the cost of the scrapped part to this particular order. You can dekit a part to scrap and specify a location without checking this box; however, the cost of scrap will not be tracked to this particular purchase order.
- 4. Click Close to accept the dekit and return to the PO Dekits tab. Click OK, Add, Save as needed.

Dekitting Parts to Scrap

You have the ability to dekit components to scrap and create replacement requirements (shortages). For example, if you are notified that a component is defective, you can dekit the affected sub-contract order assigning the component to a stockroom designated for scrap and create shortages to replace the components.

To dekit a part to scrap:

- 1. In the PO Dekits tab, select a component and click Edit.
- 2. The PO Dekits form opens for the Issue ID selected in the tab.
- 3. Select the Stockroom location for scrapped items.
- 4. Select the Location for the scrapped item.
- 5. Edit the quantity if needed. From here, you can edit the Stockroom, Location, SN/Lot Number, Job Number, or Quantity.
- 6. Select Create Shortage if you want MRP to plan to replace the dekitted parts. It is not necessary to use this feature when you use the Un-release button on the PO Dekits form.
- 7. Select Scrap Part to flag the system to associate the cost of the scrapped part to this particular purchase order. You can dekit a part to scrap and specify a location without checking this box; however, the cost of scrap will not be tracked to this particular work order.
- 8. Click Close to accept the dekit and return to the PO Dekits tab. Click OK, Add, Save as needed.

Processing Scrap

There are four basic ways to handle WO and SCPO scrap. They can be used to handle different situations.

- 1. Dekit components to a scrap stockroom. Optionally, relocate inventory from the scrap department to an expense account upon disposal. By dekitting the components you will remove them from WIP. By relocating to an expense account you can make the corresponding adjustment to your accounting package.
- 2. Dekit components to a scrap stockroom and choose the "Scrap Part" checkbox on the dekit detail screen. This will work like option #1 but will continue to track the cost of scrapped components to the work order.
- Complete finished goods to a scrap stockroom (later moving this inventory to an expense account). By completing units to a scrap stockroom you will reduce WIP and still be able to track the scrap expense.

4. Only complete finished goods (without scrap). This will leave all scrap expenses in WIP. You can periodically print the WIP report to get the current cost of WIP. You can then make an accounting journal entry to balance the WIP. The difference between the Alliance/MFG WIP and the accounting package WIP can be moved to a Material Usage Variance Account (expense account).

Options 1 and 2 will track scrap at Component Cost only, while options 3 and 4 will include labor and burden. Some consideration to how far along in the manufacturing process the scrap is occurring is useful.

Choosing the best options really depends on your situation. The following questions may help you determine the best route:

- Will you re-issue material to replace scrapped components? If so then you should choose options 1 or 2.
- Are components being scrapped? Or are fully built assemblies (containing all components) being scrapped? If only components are being scrapped then options 1 or 2 should be used. For assemblies you should use 3 or 4.
- Do you need to track the costs of scrapped components (e.g. Job Costing)? If so you should choose option 2.
- Are variable quantities used? (e.g. mixing variable amounts of chemicals). If so then option 4 will probably work best.

A variance adjustment is probably needed for any situation where: 1) a dekit has occurred but no material has been issued to replace it, and the order is completed at the full quantity, OR 2) a Kit was made for the full amount, but the Completion was made for a partial amount of the released quantity (and the WO has been closed).

Work Order Completions

There are three (3) methods for performing work order completions within Alliance/MFG. Standard and Serialized method of completions are described in this section. Work Order <u>Backflushing</u> methods are described in the following section.

Standard Work Order Completions

To Complete a Work Order using the Standard method:

You can perform either a full or a partial **completion** A transaction that is used to record the number of items completed against a specific work order and that are now available to inventory. Of a work order. You may only perform completions against a work order that has been Released to production. Releasing a work order involves the act of **kitting** The process of removing components of an assembly from the stock room and sending them to the assembly floor as a kit of parts to make a work order's demanded assembly. This action may take place automatically whenever a full set of parts is available and/or it may be done only upon authorization by a designated person. /issuing components to the manufacturing department of the work order.

Select Supply>Complete a Work Order to open a WO Completions form (opens at the Completed tab).

* WO Completions				
WO Number Part Number Close Order	W000080003 B-02]	Entered By Tran Group Date Completed	SUPERVISOR -1 7 /24/2006
Completed Notes				
Quantity Required	10,000.0	0 <u>Sto</u>	<u>ckroom</u>	SA-1
Quantity Released	10,000.0	0 <u>Loc</u>	ation Code	100
Total Qty. Completed	✓ 5,000.0	SN 0 <u>Job</u>	/Lot Number <u>Number</u>	
Qty Completed	1000	EA		
Tran Info				SN/Lot Information
				OK Close

- 5. Enter a WO Number or select one using the WO Number hyperlink. When you enter a WO, the part number displays in the header along with the Quantity Required, Quantity Released, and Default Stockroom and location, SN/Lot and Job Number, if applicable.
- 6. In the Completions tab, enter a valid Quantity completed; that is, the quantity cannot be greater than was released.
- 7. The completion transaction will now be listed when you select WO Completions View.
- 8. You can change the stockroom and location, if needed.
- 9. Click the Notes tab to enter any additional information.

10. When you are finished, do one of the following:

Click Save on the toolbar to save your entries and leave the form open.

Click Add on the toolbar to complete another work order.

Click OK to save your entries and exit the form.

Click Close to exit the form without saving any entries not applied or saved.

Serialized Work Order Completions

To Complete a Work Order using the Serialized method:

If Finished Goods or Sub-assemblies manufactured in-house are serialized (unique Serial Numbers assigned to each Quantity of One completed), the "Serialize Work Order Completions" process can be used. This will allow you to generate individual Work Order completions for a quantity of one (1) and to automatically generate and assign Serial Numbers to those individual completions.

NOTE:

Average Costing methodology does not allow for Partial Completions against a Work Order. Because the "Serialize Work Order Completions" function is by its nature generating multiple Partial Completions, it cannot be used when Average Costing is selected in Preferences. The screen will be available, but results will not be able to be saved. Additionally, Unit of Measure conversion will not work with the Serialize WO Completions function. At the time "Save" or "OK" is pressed, any UOM conversions will cause the transaction to error out with the message "UOM Conversions Exist".

To insure that all transactions for a part number include a Serial/Lot number go to the Part Master>Inventory Codes tab.

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📽 Part Master				
Part Number	BPP-200		Revision	В
Description	Assembly, Ball Point	Pen, Red	Inactive	
Engineering Notes MRP	Planning 🖌 Invent	tory Codes Part Cos	sts Statistics	
Commodity Code	F/G	Finished Goods	Require SN/Lot	
Pur/Mfg UOM	EA	Each	SN Format	
Product Class Code	BPP200	200 Series	Average Catch Weight	0.00
System Used On Code	RP	RED PEN	Catch Weight UOM	
Product Discount Code	BPP	Ball Point Pens		
ICN Code				
ABC	A - Highest Rela	tive Value 🛛 🚩	Standard Hours	0.01
				OK Close

- 11. Check the Require SN/Lot checkbox.
- 12. You may also specify the SN/Lot Format. This can be any combination of letters and numbers up to 10 characters. Any part of a date (Month, Year, Day) may be included in the auto-generation by entering *M, *Y, or *D in any combination. Sequential numbering fills in the remaining numbers. For example, the serial number SN03091847, would be the 47Th serial number automatically generated on September18, 2003 in the format "SN*Y*M*D".
- 13. If you do not wish to use 10 characters, enter your preferred format, then insert "#" for the number of characters you wish to use. The system will increment those numbers. In the example, the system has been set up to create serial numbers with a four-digit number that increments by 1.

Select Supply>Serialize Work Order Completions

The screen contains three sections. The top section displays the work order and selected work order information; the middle section defines the quantity to complete, the serial number format, default SN/Lot Information and other common work order completion fields; the bottom section will display the serialized results in a list format, with buttons along the left side of the screen to add, edit or delete the records in the view, (much as other Transaction detail screens).

📽 WO SN Completions			
WO Number S Close Order Part Number		Quantity Required Quantity Released Total Oty, Completed	
Quantity	0		
SN Format		First Serial Number	
Starting Number <u>Stockroom</u>	0	Last Serial Number	Default SN/Lot Info
Location		Date Completed Generate	7 /24/2006 💌
Add Edit Delete	No record:	s found	
			OK Close

Work Order Section

- Enter a WO Number or select one using the WO Number hyperlink. When you enter a WO, the part number displays in the header along with the Quantity Required, Quantity Released.
- 15. Click the Close Order checkbox if you wish to close the order with the completion. The work order selected for generating completions will be automatically closed if the completed quantity is equal to or greater than the required quantity.

NOTE:

The total quantity being completed will be validated at the time the transaction is "Saved" to allow for generating additional serial numbers. Many companies keep track of their serial numbers in a Log Book or spreadsheet (highly recommended). When serial numbers from this Log are used, they are marked off in the log book. If a serial number becomes unusable due to a damaged tag or another reason, then the next sequential serial number can be assigned. Alliance/MFG allows you to generate more serial numbers than are needed, and only validates the total quantity to complete at the time the transaction is applied, to allow you a method of handling this situation.

💣 WO SN Completi	ons			
W0 Number	NW005110003		Quantity Required	5,000.00
Close Order			Quantity Released	5,000.00
Part Number	BPP-200		Total Qty. Completed	0.00
Quantity	1	20		
SN Format	SN06######		First Serial Number	SN06000121
Starting Number	1	121	Last Serial Number	SN06000140
Stockroom	PENS			Default SN/Lot Info
Location	100		Date Completed	7 /24/2006
Job Number			Generate	e Completions
Add Edit Delete		No records f	pund	
				OK Close

Generate Completions Section

The Default Stockroom, Location, and Job Number, are displayed in the Generate Completions section, you may override these fields if needed.

- 16. Enter the number of serial numbers to generate in the Quantity field. No validation to the released or required quantities will exist here to allow you to generate serial numbers for more than the completed quantity, perhaps as a result of damaged serial number tags. The value of this field will reset to zero (0) after the "Generate Completions" button is pressed. At the time the Completion is saved, the quantity being completed will be validated, as mentioned above.
- 17. The SN Format field defaults to the Serial Number Format on the Part Master record for the Part Number on the Work Order. You can override this if needed.
- 18. Enter the Starting Number. Must be greater than zero (0). The value of this field will increment itself by one (1) after the "Generate Completions" button is pressed. As soon as at least one completion line is created (either manually or by pressing the "Generate Completions" button), the Work Order Number field will become disabled.
- 19. Date Completed, defaults to "Today's Date". You can override the date if needed.
- 20. The First Serial Number and Last Serial Number will be displayed.
- 21. Click on the Default SN/Lot Info button to open the SN/Lot Information screen. You can default an Expiration Date, Warranty Date, Maintenance Date or Notes for each of the SN/Lot Numbers to be generated. This step must be performed prior to step 7 below for any notes or dates to be included with the SN/Lot records. When you are finished click Close.

🔊 WO	SN Completions			
	SN/Lot Information	חת		5,000.00
Close 0 Part Nu	Part Number	BPP-200	ter	5,000.00 d 0.00
Quantity	SN/Lot Number	Assembly, Ball Point Pen, Red Auto Assign		
SN Forr Starting	SN/Lot Information	Notes		SN06000121 SN06000140
<u>Stockrc</u>	Expiration Date	7 /24/2006 💌		Default SN/Lot Info
Locatio Job Nui	Maintenance Date Warranty Date	✓ 🖓 🚺 /24/2006 💌	her	ate Completions
Add				
Delet			Close	
				OK Close

Click on the Generate Completions button to generate new Work Order Completion records for a quantity of one (1) each, up to the total number of completions entered in the quantity field above. In this example we entered "25" and pressed the "Generate Completions" button, 25 separate records are created and listed in the serialized results section, appearing much like line items or other types of detail records. After the completions list is built, the "Quantity" field, will reset to zero (0) and the "Start Number" field will increment itself by one (1) greater than the ending serial number.

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📽 WO SN Cor	npletions	;					
W0 Number	•	W0051	10003		Quantity Required		5,000.00
Close Order	_				Quantity Released		5,000.00
Part Number	,		I		Total Otu, Complete	ad 🌶	20.00
i ar i tamber		511 200			rotariaty, complete	~	20.00
Quantitu				0			
Quantity							
SN Format		SN06#	#####		First Serial Number		
Starting Number				141	Last Serial Number		
Stockroom		PENS				🗸 🚺 Default SN/Lo	t Info
Location		100			Date Completed	7 /24/2006	•
Job Number					Gene	rate Completions	
			1				
Add	SN/Lot Nur	nber	Stockroom	Location Code	Job Number		<u>^</u>
Edit Edit	SN060001	21	PENS	100			
	SN060001	22	PENS	100			
G 3	SN060001	23	PENS	100			
G 4	SN060001	24	PENS	100			
G 5	SN060001	25	PENS	100			
G 6	SN060001	26	PENS	100			
F 7	SN060001	27	PENS	100			
F 8	SN060001	28	PENS	100			
Delete	SN060001	29	PENS	100			
	SN060001	30	PENS	100			~
						[DK Close

Serialized Results Section

If a serialized completion needs to be added, changed or deleted the three buttons on the left side of the Serialized Results section are enabled as needed.

The **Add** button, will create a new serialized completion with the Work Order Number field ("WO Number") disabled and un-editable. In all other ways it functions the same as the standard Work Order Completions screen.

The **Edit** button, will open the selected serialized completion in the standard Work Order Completion transaction screen. It functions the same as the standard Work Order Completions screen.

The **Delete** button, will delete the selected serialized completion record from the list.

If you are not sure one of the steps above was performed correctly, click on the Close button to discard the results and start over.

When you are finished, do one of the following:

Click Save on the toolbar to save your entries and leave the form open. If you did not generate serial numbers for the entire quantity completed, you may continue by starting again at step 1 above.

Click Add on the toolbar to perform serialized completions for another work order.

Click OK to save your entries and exit the form.

Click Close to exit the form without saving any entries not applied or saved.

Processing Scrap

There are four basic ways to handle WO and SCPO scrap. They can be used to handle different situations.

- 22. Dekit components to a scrap stockroom. Optionally, relocate inventory from the scrap department to an expense account upon disposal. By dekitting the components you will remove them from WIP. By relocating to an expense account you can make the corresponding adjustment to your accounting package.
- 23. Dekit components to a scrap stockroom and choose the "Scrap Part" checkbox on the dekit detail screen. This will work like option #1 but will continue to track the cost of scrapped components to the work order.
- 24. Complete finished goods to a scrap stockroom (later moving this inventory to an expense account). By completing units to a scrap stockroom you will reduce WIP and still be able to track the scrap expense.
- 25. Only complete finished goods (without scrap). This will leave all scrap expenses in WIP. You can periodically print the WIP report to get the current cost of WIP. You can then make an accounting journal entry to balance the WIP. The difference between the Alliance/MFG WIP and the accounting package WIP can be moved to a Material Usage Variance Account (expense account).

Options 1 and 2 will track scrap at Component Cost only, while options 3 and 4 will include labor and burden. Some consideration to how far along in the manufacturing process the scrap is occurring is useful.

Choosing the best options really depends on your situation. The following questions may help you determine the best route:

- 26. Will you re-issue material to replace scrapped components? If so then you should choose options 1 or 2.
- 27. Are components being scrapped? Or are fully built assemblies (containing all components) being scrapped? If only components are being scrapped then options 1 or 2 should be used. For assemblies you should use 3 or 4.
- 28. Do you need to track the costs of scrapped components (e.g. Job Costing)? If so you should choose option 2.
- 29. Are variable quantities used? (e.g. mixing variable amounts of chemicals). If so then option 4 will probably work best.

A variance adjustment is probably needed for any situation where: 1) a dekit has occurred but no material has been issued to replace it, and the order is completed at the full quantity, OR 2) a Kit was made for the full amount, but the Completion was made for a partial amount of the released quantity (and the WO has been closed).

NOTE:

When you are completing a work order in either of the methods described above, you will receive a warning if an open shortage exists for that work order. This is a reminder to resolve any shortages prior to completing the work order.

Backflushing

Backflushing differs from standard WO completions in that you do not need to create, release and kit a work order prior to the backflushing step. Backflushing provides a method for quickly and easily consuming component inventory at the time completions for the assembly are performed. Only the quantity of components required to complete a specific number of an assembly are consumed out of Inventory On Hand.

Backflushing Work Order Completions

Backflushing is performed through Supply>Backflush Work Order Completions. This option will open a window that will manage all the processes required for backflushing, including the creation of the Work Order, Kitting the Work Order, and Completing the Work Order. The screen is divided into three sections. At each stage of the process, you have the option to edit the details for that step, should you need to, or simply allow each step to be processed without alteration. Backflushing will automatically create the two (2) separate transactions (KIT, CMP) and write them to the Alliance Transaction Log for processing through your accounting link.

NOTE:

If your company creates and uses work orders but you wish to Backflush rather than releasing, kitting and completing your work orders, you may select a work order via the Work Order Number hyperlink. See the Work Order Number paragraph below for details. You will not be able to take advantage of the Backflush Save All button.

The Work Order

When the backflush screen is opened a new blank work order will be created in the background. If you don't have security rights to update the WO Required Date, WO Part Number, or WO Quantity fields you won't be able to create a work order or perform the backflush function.

🔑 Backflush Work O	rder Completions	
Work Order Number	1:[Auto Nu	
Part Number	9 1	
Quantity Completed	0	Backflush (Save All)
Edit Work Order	Save Work Order	8
Edit Kit List	Save Kit List	
E dit Completion	Save Completion	
		Close

Work Order Number

When Auto-Numbering WO is on, but the work order has not been saved the typical "1: Auto Nu" will be displayed in the Work Order Number field. When auto-numbering is off you will be required to enter a new WO number.

Once the work order has been saved the work order number currently being completed will be displayed.

The hyperlink can be used to select an existing work order. By default the hyperlink will open the Work Order View using the "By Firm WOs" query. Right mouse click will also offer the "All" and "By Part Number" queries. Selecting an existing work order via the hyperlink will also act like the work order has been saved and the backflush button will be disabled (see saving a work order below).

Part Number

If a work order has not been saved or selected you can enter or change the part number.

The hyperlink will open the Part Master View using the "Is Makeable" query by default. Right mouse click will offer the following additional queries: All, By Part Number, By Description.

Quantity Completed

Values entered into this field will be automatically entered into the Quantity To Start field on the Work Order created in the background. All field values entered into this screen will be automatically entered into the Work Order screen. Likewise, entering a value into the work order screen created above will update the backflush screen. The WO screen is available to view or edit from the Edit Work Order button.

🥬 Backflush Work	Order Completions	
Work Order Number	1:[Auto Nu	
Part Number	✔ B-01	Assembly, Barrel, Blue
Quantity Completed	100	Backflush (Save All)
Edit Work Order	Save Work Order	
Edit Kit List	Save Kit List	
Edit Completion	Save Completion	
		Close

Once you have entered valid data in these fields you may either click on the Backflush (Save All) button or perform each step manually. The manual option allows you to edit the individual steps if necessary.

To manually backflush a Work Order

Backflush Screen

The backflush screen has three sections; the Work Order section, the Kit List section and the Completion section. Each section allows you to view, edit and save the changes prior to the next step. If you did not select an existing WO via the hyperlink or do not need to edit any section use the Backflush Save All button to save steps.

Edit Work Order

Prior to saving, kitting and completing the work order you can edit the work order. This can be handy when extra information needs to be added (e.g. Job Number or Notes). Click the Edit Work Order button to open the Work Order Header screen. After the work order has been saved, the button text will change to View Work Order.

Vork Order Number	1:[Auto Nu					
ari Number	@ Work Orders					
uantity Completed	Work Brder Number	1:[Auto Nu			Dozed Flag	
Edil Work Dider	Entered By	SUPERVIS	OR Supervisor, Crae	ted by MFG		
Edit Kit List	🖌 Detai Notes					
	- Part Number	V 8-01		Job Number	🖌 M2000	
Edit Completion		Aszembly, B	lanel, Blue			
	Quantity To Start	1	100.00	Start Date	阿 9 /12/2003 👻	
	Quantity Required		100.00	Required Date	🖌 🕅 9 Л 2/2003 💌	
	Quantity Released		0.00	Released Date		
	Quantity Completed		0.00	Standard Hours	1.00	
	Work Brider UOM	EA	Each	Total WIP Issues	\$0.0D	
	Stock UDM	EA.	Each	Total Scrap	\$1.00	
	Priority			Total Labor	\$0.0D	
	User Dafined 1					
	14					

Save Work Order

The Save Work Order button saves the work order, all existing Alliance/MFG work order validation will apply.

If the save fails, a message will be displayed stating the error condition. A red X icon will appear next to the button indicating there is a problem. Hold the mouse cursor over the icon to view the error. Once successfully saved the Save Work Order button will be disabled. The text "Created Successfully" will be displayed in the Work Order section. If an attempted save work order fails the text "Update failed" will appear.

🦻 Backflush Work Order Completions							
Work Order Number	W003090016						
Part Number	B-01	Assembly, Barrel, Blue					
Quantity Completed	100	Backflush (Save All)					
View Work Order	Save Work Order	Created Successfully					
Edit Kit List	Save Kit List	0					
Edit Completion	Save Completion						
		Close					

Building the kit list

When you successfully save a Work Order or when an existing work order is selected via the WO Number hyperlink, a WO Kit List will be created and automatically kitted in the background.

NOTE:

Backflushing does not use the existing Alliance/MFG Work Order Kit All algorithm. The existing Work Order "Kit All" algorithm will search all nettable stockrooms to find available inventory. If insufficient inventory is found, the Kit All routine will create a shortage. This is not done under the backflushing routine. The backflush procedure assumes that if you are backflushing, you have sufficient component inventory to pull and if not it is an exception and needs to be reviewed. The backflush routine will automatically kit all lines, pulling inventory from the components default stockroom/location only. If insufficient inventory exists in the default location a red X will be displayed in the Kit List section. You will not be able to proceed. You will need to click on the Edit Kit List button and manually pull inventory from another location for all component items indicated with a red X next to that line. You may delete a component line, but deleting a component with insufficient inventory will create a shortage.

Edit Kit List

The Edit Kit List button will be enabled whenever a work order has been saved or an existing work order has been selected via the hyperlink. Click on the Edit Kit List button to open the normal Alliance/MFG kitting screen. You can modify the issue list by adding new components, placing parts on short, or pulling inventory from an alternate location. Once a kit has been successfully saved the button caption will change to View Kit List.

Work Order Number	With the second		نوات نوا ا			
Part Number	8-01	Assembly, Barrel, Blue	Assembly, Banel, Blue			
Quantity Completed	100	Backflush (Save	(IA)			
View Work Dider	Save Work Order	Completed successfully	ampleted successfully			
EditKitter	A WO Kills				-02	
	WD Number 🗸 🖗	A003030009	Enlered By	SUPERVISOR		
Edi Completion	Accembly B-	σ	Tran Group Accambly, Banal, Blue		-1	
	Quantily Rolested y Quantily To Slott	00.00 مەرەمە 100.00	Stari Date	9/12/2009		
	Duantily Required	100.00	Required Date Kit Date	9/12/2003		
	A Required/Short O WPI	asues Notes				
	Add Peri Number	Guantity UDM Code				
	Dalete da 4 8P-4	0.00 EA				
	Al Kitline	192				
					Close	

Modifying the Kit List

WE NO	imber	1	4003090009		Er	Entered By		
					Ti	an Group		
Assemb	bly	B	-01		Assembly, I	Barrel, Blue		
Quantiț	y Relea	aed 🚽	1	100.0D				
Quantiț	y Ta Sti	ari		100.0D	Start Dale	\$	9/12/2003	
Ou antit				402.00				
of a start of a	у кери	red		100.00	Required L	yate :	371272003	
Qty Io F	y nequi Release			100.00	Kit Data	Jake :	9/12/2003	
Qty Io F	y nequi Release uired/SI	hart 🔕 WIP	Iszues Note:	100.00	Kit Date	Jace :	9/12/2003 ▼ 9/12/2003 ▼	j
Qty Io F Req Add	y Hequi Release uired/SI	hait OWP	Issues Notes Quantity	100.00 100.00	Kit Data	Location Code	SN/Lot Number	
Qty Io F Req Add	y Hequi Release uired/SI	hart OWP Part Number BP-1	Issues Note: Cuentity 100.00	100.00 100.00	Kit Data Kit Data Stockroom Code	Location Code	SNA.ct Number	-
Qty Io F Req Add Edit	vired/SI	hart O WIP Part Number BP-1 BP-2	Stues Notes Cuentity 100.00 100.00	100.00 100.00 LICMI Code EA EA	Kit Date Kit Date Stockroom Code RAVV	Location Code	SN/Lot Number	
Qty Io F Req Add Edit	uired/Si elease uired/Si uired/Si	hart O WIP Part Number BP-1 BP-2 BP-3	Stues Notes Cuantity 100.00 100.00 100.00	100.00 100.00 LICMICOde EA EA EA	Kit Date Kit Date Stockroom Code RAVV RAVV	Location Code 100 100	SN/Lot Number	-
Qty Io F Rem Add Edit	ured/Si Peleaxe	hart 😧 WIP Part Number BP-1 BP-2 BP-3 D5-4	Issues Notes Guentity 100.00 100.00 100.00	100.00 100.00 LCMICode EA EA EA EA	Required L Kit Date Stockroom Code RAVV RAVV RAVV	Location Code 100 100 100	SN/Lot Number	

Pulling inventory from an alternate location.

🔎 Kitting	
W0 Number	W003090009
Part Number	✓ BP-4
UOM Code	✓ EA
Stockroom Code	RAW Raw Materials/Purchased Parts
Location Code	✓ 200
SN/Lot Number	
Job Number	
Quantity	✓ 100.00 Each
Tran Info	

Save Kit List

The Save Kit Kist will attempt to save the existing kit all existing Alliance/MFG work order kitting validation will apply. If the kit list is very large a status bar will display indicating the progress.

If the save kit list is successful then the button will be disabled and the message "Kitted Successfully" will be displayed in the Kit List section. If the attempted save fails the message "Update failed" will appear along with a message box stating the problem.

Building the Completion

After the kit has been saved the work order completion will be created in the background.

/ Backflush Work Order Completions						
Work Order Number	W003090017					
Part Number	B-01	Assembly, Barrel, Blue				
Quantity Completed	100	Backflush (Save All)				
View Work Order	Save Work Order	Created Successfully				
View Kit List	Save Kit List	Kitted Successfully				
Edit Completion	Save Completion					
		Close				

Edit Completion

The Edit Completion button will be enabled after the work order kit has been successfully saved. Click the Edit Completion button to open the normal Alliance/MFG completion screen. You can add additional information to the completion (e.g. Job Number, Stockroom, Location, Lot Number or Notes), or change the completion quantity before saving if necessary.

NOTE:

If you change the completion quantity to less than the Backflush Quantity Completed it is assumed you did not complete all of the units previously kitted. The excess material kitted will be left in WIP.

Once a completion has been successfully saved the button caption will change to View Completion.

Save Completion

The Save Completion button will attempt to save the existing completion. If the save is successful then the button will be disabled and the message "Completed Successfully" will appear. If the save fails the message "Update failed" will appear along with a message box stating the problem.

🖗 Backflush Work Order Completions							
Work Order Number	W003090017						
Part Number	B-01	Assembly, Barrel, Blue					
Quantity Completed	100	Backflush (Save All)					
View Work Order	Save Work Order	Created Successfully					
View Kit List	Save Kit List	Kitted Successfully					
View Completion	Save Completion	Completed Successfully					
		Close					

NOTE:

By default the work order will be closed by the backflush completion screen since the user is fully completing the order. Partial completions are not allowed in backflushing.

Backflush (Save All)

Clicking the Backflush (Save All) button will automatically perform each step: Create and Save the Work Order, Create and Save the Kit List and then Create and Save the Completion.

When Auto-Numbering WO is on, but the work order has not been saved the typical "1: Auto Nu" will be displayed in the Work Order Number field. When auto-numbering is off you will be required to enter a new WO number. Enter a valid part number (ISC = Make or Phantom) or click on the part number hyperlink to select one. Enter the quantity being completed. The WO required date will be defaulted to the current system date.

If any one of the three Save updates fail, the backflush process will stop. You will have to make corrections and manually continue the process. An error message will be displayed indicating any invalid condition.

🖉 Backflush Work O	/P Backflush Work Order Completions								
Work Order Number	W003090017								
Part Number	B-01	Assembly, Barrel, Blue							
Quantity Completed	100	Backflush (Save All)							
View Work Order	Save Work Order	Created Successfully							
View Kit List	Save Kit List	Kitted Successfully							
View Completion	Save Completion	Completed Successfully							
		Close							

Supply Reports

The following reports are available from the Supply menu. Predefined queries are available on submenus (indicated by arrows). You can preview or print a report from a predefined query, or create a custom query to display specific information in an Alliance/MFG standard format. For more information about Alliance/MFG reports, see the Technical Reference.

Open PO Line Items

Past Due PO Receipts PO List by Part PO List by Supplier PO Totals Graph Purchase Commitment Purchase Order Part Cross Reference Production Schedule Pick List Subcontract PO Issues Supplier List WO Traveler

Material Requirements Planning



MRP Menu functions

This chapter explains how to use the Alliance/MFG Material Requirements Planning (MRP) function. Once you have set up and entered all of your parts, BOM's, suppliers and customers, verified your inventory accuracy and entered forecasts or customer orders, you will want to know what you need to order and build to meet your customers' demands. The MRP function will help you achieve this goal.

Calculating MRP

MRP Overview

Material Requirements Planning provides your company with a time-phased material plan. MRP examines information from many sources as it undertakes the complex calculations to deliver your planning solutions.

First, MRP analyzes what is required and when (Demand). It considers all existing independent demands (sales orders, forecasts, safety stocks) and dependent demands (work order and subcontract PO component requirements, together with any existing shortages.)

Next, it takes a detailed look at your current inventory and on order position (Supply) by reviewing all nettable stockroom inventories, existing purchase open orders, work-in-process, and the quantities and due dates associated with these parts. MRP also considers the ordering "rules" attached to these parts. (Ordering rules are maintained in the Part Master for each part in the system.)

Using this information, MRP calculates how long it will take to:

Receive components

Manufacture subassemblies

Build the finished products

After you run MRP, the MRP Action Parts list includes suggested actions based on existing and planned orders. Planned orders are "suggested" orders generated by the MRP calculation. Planned orders are created dynamically each time you run MRP. MRP will also suggest scheduling changes for existing orders if the delivery dates are out of phase. Each time you create firm/released work orders and schedule POs, the next MRP run will again recommend makes, buys and reschedules, level-by-level, based on the current information.

NOTE:

The Alliance/MFG MRP calculation is always a total regeneration of the plan based on the current information in the system. It is not a "net change" since the last run of the calculation program.

MRP is at a minimum a four-step process:

1 CALCULATE MRP – Run the MRP calculation for all product structure levels or top level products only.

2 MRP ACTION PARTS - Review the items that require action as a result of running the MRP calculation.

3 SCHEDULE – Create new orders or reschedule existing orders based on MRP recommendations.

4 CALCULATE MRP AGAIN – Run the MRP calculation again to reflect the impact of your changes to the system and make any adjustments.

Calculating MRP

You have two options when you run MRP: Run a full MRP on all product structure levels throughout the system, or Run a top-level MRP for finished products only. The top-level option can provide a quick overview of your current production's ability to deliver existing customer order requirements. MRP will assign priority codes for you to act upon based on established time fences, part master ordering rules and requirement due dates. You can then review and process your MRP Action Parts list by priority code and schedule or change dates as required, addressing the highest priority first (most critical is actually lowest value). (See Reviewing MRP Results and Priority Codes later in this section.)

Running MRP

MRP is a static system: When you create POs and WOs, or reschedule existing orders, you must rerun the MRP calculation to reflect the impact of your changes. Each calculation is completely regenerative; it considers all transactions, not simply the net changes since the last MRP run.

To Calculate MRP:

o [®] MRP Planning	
⊙ Run Full MRP	◯ Run Top Level Only
Normal Priority Time Fence Minimum number of days for resche	🖾 8 / 1 /2006 💌 dules 🗸 5
Calculating MRP Requirements Update live data Completed Successfully	
	Calculate MRP Close

Select MRP>Calculate MRP to open the MRP Planning dialog box.

Select *Full MRP* to calculate all product structure levels; or select *Top Level Only* to calculate MRP for finished products only.

Establish the Normal Priority Time Fence - MRP output is categorized into units of work to be done on the basis of priority. The Normal Priority Time Fence is a limiting date that defines the end of a time period for current planning. This time fence is based on the start date of the order (start in current period vs. start in a future period). MRP suggested orders with a planned start date between the day you calculate MRP and this "Normal" date will be given a priority code of "3". These orders are considered to be "within the current time fence," and are candidates for conversion to Firm PO's or Firm WO's (a PO placed with a supplier or a WO scheduled to start in production). All planned orders with a start date greater than this date (future orders) will be given a Priority Code of "6". See Priority Codes later in the MRP Action Parts section for more information about priority codes.

The system default date for the normal priority fence is one week (7 days) ahead. You may want to establish your normal priority fence differently, depending on how frequently you calculate MRP, or according to other factors that influence your production schedule.

Minimum number of days to reschedule - This parameter establishes the minimum number days that MRP will use to generate Reschedule messages (Priority = 4). This will help reduce the erroneous "move it in 1 day, then move it out 1 day" messages and will also aid in limiting your rescheduling efforts with suppliers and production. For example, if you set the minimum number of work days for reschedule to "5," there will be no reschedules messages of less than five work days generated. An exception to this is late orders, if an order will be late (could impact production schedules or customer shipments), MRP will generate an Expedite notice (Priority = 5).

CAUTION!

When MRP recommends rescheduling a firm Work Order, it will continue to plan the components on the current WO start date until you reschedule the order, including both start and complete dates, and subsequently rerun MRP.

MRP Action Parts

After you run MRP, the MRP Action Parts list includes suggested actions based on existing and planned orders. Planned orders are "suggested" orders generated by the MRP calculation. Planned orders are created dynamically each time you run MRP. MRP will also suggest scheduling changes for existing orders if the delivery dates are out of phase. Each time you create firm/released work orders and schedule POs, the next MRP run will again recommend makes, buys and reschedules, level-by-level, based on the current information.

After you calculate MRP, Alliance/MFG gives you several options to access the results. Select MRP>MRP Action Parts to review MRP recommendations.

PI	Ilian	ce/MF	G								
File	Edit	View	Products	Demand	Supply	MRP	Inventory	CRP	Shop	Window	Help
1						Ca	lculate MRP				
						ME	MRP Action Parts 🕨			rent Action	Parts
						Re	ports	•	All		
						de s			By	Buyer/Plani	ner
									By	Priority Cod	le
									By	Job Numbe	r 🚽
									By	Part Numbe	er 👘
Loca	pen ·	C:\Allia	ance32\Per	n.mdb							

Reviewing MRP Action Parts

The records displayed in the MRP Action Parts View depend on the query you select. Select MRP>MRP Action Parts>Current Action Parts (only those with current or past due action recommendations), or MRP Action Parts>All (all parts regardless of action), or By Part Number, or By Buyer/Planner, or By Job Number or use a predefined query and wild cards to locate specific action parts. In the following example, we selected the MRP Action Parts All query to open the list.

o MRP -	All						
MRP - All							👸 📓 🕹 💡 🍉
Priority		Part Number	ISC	OMC	Employee ID	Last Name	Description
1	3	TR-01	В	Р	50JDD	Dorovsky	Tubing, Clear Plastic, Full Roll
2	4	B-01	М	P	55-JAT	Tierney	Assembly, Barrel, Blue
3	4	S-01	В	Р	50JDD	Dorovsky	Spring, Metal .875 inch
4	6	B-02	М	Р	55-JAT	Tierney	Assembly, Barrel, Red
5	6	BP-1	В	Р	50JDD	Dorovsky	Barrel, Top Half, Blue
6	6	BP-2	В	Р	50JDD	Dorovsky	Barrel, Bottom Half, Blue
7	6	BP-3	В	Р	50JDD	Dorovsky	Ring, Metal .250 diameter
8	6	BP-4	В	Р	50JDD	Dorovsky	Clip, Pocket Metal 1.5 inch
9	6	BPP-100	м	Р	55-JAT	Tierney	Assembly, Ball Point Pen, Blue
10	6	BPP-200	М	Р	55-JAT	Tierney	Assembly, Ball Point Pen, Red
11	6	BPP-x300	М	J	55-JAT	Tierney	Custom Ball Point Pen, Red, Stamped with G
12	6	C-01	S	Р	90-KEM	Marenko	Assembly, Cartridge, Blue Ink
<				Ш			
							Edit Close

The MRP Action Parts View displays the following information:

Priority - Displays the MRP Priority Code for the line item (Priority Codes 1-7). MRP Action Parts lists are displayed in Priority Code sequence by default; however, you can click on column headers to change the sort order.

Part Number - Part number of item requiring MRP action.

ISC - Inventory Source Code (Make or Buy from the Part Master).

OMC - Order Method Code (How to order/build from the Part Master).

Employee ID – The Buyer/Planner Employee ID.

Last Name - Name of employee responsible for make/buy decisions for this part (A buyer/planner can be associated with a commodity code which can be assigned to individual or groups of parts in the Part Master).

Description - Part Master description of the part.

Department Code – Part Master department number associated with the part.

Stockroom Code - Part Master default stockroom assigned to the part.

Commodity Code - Part Master commodity code assigned to the part.

Priority Codes Definitions

If more than one (1) MRP Action item is generated for a given part number, the priority code displayed in the action parts list is the highest priority (lowest number = most critical) generated during the MRP calculation for that part.

NOTE:

Priority Codes 1 and 2 are the most urgent; however, it is possible for additional priority codes (other actions) to exist for part numbers assigned priority codes 1, 2, or 3. Be sure to review all MRP suggestions for each part.

1 = **Past Due** - The completion date for a recommended order is prior to the MRP run date (urgent, this part should have already been received into inventory).

2 = **Past Due** - The start date for a recommended order is prior to the MRP run date (urgent, this part should have already been started in production or ordered from a supplier).

3 = Within Normal Fence - The start date for the recommended order is normal or current (within the MRP "Normal Time Fence" you established above). You should be scheduling these orders to start in the current scheduling period.

4 = **Reschedule** - This order is out of phase and requires rescheduling: either a move-in, a move-out, or a delete. You may limit the number of reschedule messages (Priority = 4) generated by establishing a Minimum number of days to Reschedule during MRP.

5 = **Expedite** - This order's required date is within the parameter for skipping a reschedule (minimum number of days to reschedule), but the order will be late and should be expedited.

6 = **Future** - Start date is beyond the current period (future start) and no action need be taken at this time.

7 = No Action Required - No action required at this time. The part has no MRP activity in the current schedule, the part's existing schedule is in phase, the recommended action is to skip a minor reschedule, or lastly the part has an OMC of Manual (Do not plan in MRP). Note: Do not plan in MRP does NOT mean do not review, requirements may exist for this part.

MRP Action Details

Highlight a part in the MRP Action Parts View then press the Enter key or double click to open the MRP Detail View.

In addition to the information displayed on the MRP Detail View, the header displays part inventory information including the Job Number (if any), quantity on hand when MRP was run, any safety stock defined for the part, any specific order quantity and/or order multiple, scrap or yield factor, and the manufacturing or procurement lead time.

Note:

The safety stock for parts with the Inactive flag set will appear and be treated as zero (0) by the MRP calculation.

🗳 MRP Detail V	'iew - By Part a	nd Job (B-01	,)						×
Part Number	B-01	Assem	bly, Barrel, Blue						
Job Number			ISC I	м	OMC P				
Quanity On Ha	and 2	2,900.00	Order M	lultiple	1.00				
Safetu Stock			Yield Ea	etor	100				
Order Oby		1.00	Lood T		10				
Ulder Q(y		1.00	Lead I	me	10				
L									
Action	i Start Date	Date Required	Reference	Start Quantity	Quantity Required	Balance	Post Type	Pegging	^
1 Move	In 10/24/2005	11/8/2005	W000080002	5,100.00	5,100.00	8,000.00	Firm W0		
2		11/8/2005	W005110002		-5,000.00	3,000.00	Planned Kit	BPP-100	
3	11/8/2005	11/22/2005	W005110001	2,000.00	2,000.00	5,000.00	Firm W0		
4		11/23/2005	0000000001		-5,000.00	0.00	Planned Kit	BPP-100	
5 Create	e 11/30/2005	12/13/2005	000000009	9,800.00	9,800.00	9,800.00	Planned WO		
6		12/14/2005	000000006		-4,800.00	5,000.00	Planned Kit	BPP-x300	
7		12/14/2005	0000000002		-5,000.00	0.00	Planned Kit	BPP-100	
8 Create	e 12/6/2005	12/19/2005	0000000010	2,500.00	2,500.00	2,500.00	Planned WO	1	
9		12/20/2005	0000000007		-2,500.00	0.00	Planned Kit	BPP-x300	
10 Create	e 12/29/2005	1/12/2006	0000000011	1,000.00	1,000.00	1,000.00	Planned WO		
11		1/13/2006	000000008		-1,000.00	0.00	Planned Kit	BPP-x300]
12 Create	e 3/31/2006	4/13/2006	0000000012	5,000.00	5,000.00	5,000.00	Planned WO	1	1
13		4/14/2006	000000003		-5,000.00	0.00	Planned Kit	BPP-100	~
								>	
Schedule								Clos	æ

The MRP Detail View grid contains information in the following columns:

Action - There are five (5) types of MRP Action:

- 1. Blank No action required
- 2. Delete The current MRP plan does not require this order
- 3. **Create** MRP recommends a new PO or WO should be created. Examine the Start Date to see when; the Schedule button will be activated if the item is highlighted. See Scheduling purchase orders and work orders from MRP, later in this chapter
- 4. **Move In** MRP recommends a reschedule, the recommended move in to date will appear in the Move Date column; the Schedule button will be activated if the item is highlighted. See Scheduling purchase orders and work orders from MRP, later in this chapter

5. **Move Out** - MRP recommends a reschedule, the recommended move out to date will appear in the Move Date column; the Schedule button will be activated f the item is highlighted. See Scheduling purchase orders and work orders from MRP, later in this chapter

Start Date - Date on which order is scheduled to begin (based on lead time offset from required date, and on your company's Holiday Schedule). On Demand grid lines that subtract material from inventory, such as kitting a Work Order or shipping a Sales Order, this field will be blank.

Required Date - Date that the order is required by or scheduled to be completed by based on MRP.

Move To – The date MRP recommends an order be rescheduled to.

Reference/Reference Line - Work Order, Sales Order, Purchase Order, or MRP Planned Order. Reference Number. The MRP Planned Order Reference is a unique sequential number assigned by MRP. The number "0000000001" represents the first planned order generated by MRP during this MRP calculation.

Start Quantity - Quantity based on the ordering rules established in the inventory record for the product and/or calculated by MRP. (The quantity required is multiplied by the yield factor.)

Required Quantity - Quantity required calculated from MRP demand (independent or dependent). The calculation uses the appropriate ordering rules from the inventory record.

Balance - The quantity available on that date should all MRP actions be implemented. If safety stock is used, this will be the quantity available on that date less the safety stock. (Note: Safety stock will not be deducted until the current period/date).

Pegging - The dependent demand part number (next level sub-assembly or assembly) that created the requirement.

Part Number - The part number involved with the action.

Job Number - The job number involved with the action.

Post Type - There are eleven (11) MRP Post Types:

- 1. Firm PO, an open purchase order (Supply).
- 2. Firm WO, an open work order that has been released (Supply).
- 3. WO Shortage, a work order kit requires this part (Demand).
- 4. PO Shortage, a sub-contract purchase order kit requires this part (Demand).
- 5. Sales Order, an open sales order requirement (Demand).
- 6. Forecast, a forecast requirement (Demand).
- 7. Currently not used.
- 8. Planned PO, an MRP recommended purchase order (Planned Supply).
- 9. Planned WO, an MRP recommended work order (Planned Supply).
- 10. Planned Kit, an MRP recommended order kit (Planned Dependent Demand).
- 11. Safety Stock, an inventory replenishment requirement (Demand).

Scheduling PO's & WO's from MRP

Alliance/MFG makes it easy to schedule POs and WOs directly from the MRP Detail View without having to navigate through the menu system to the Supply function.

Scheduling Purchase Orders and Work Orders from MRP

Select a part from the MRP>MRP Action Parts form, double click to display the MRP Detail View, then simply select a "Create" line recommended for scheduling and click the Schedule button.

or

At the MRP>MRP Action Parts form, use the Query button in the toolbar to filter the planned purchase orders for a particular Buyer/Planner ID. Then select a part from the MRP Action Parts form, double click to display the MRP Detail View, then simply select a Create line recommended for scheduling and click the Schedule button.

The MRP Action Parts scheduling form opens for the part selected. The options available depend on whether you are creating a Work Order or a Purchase Order.

Schedule a Purchase Order from MRP Detail View

Alliance/MFG gives you lots of flexibility when scheduling purchase orders from the MRP Detail View. You can decide whether to use the dates and quantities suggested by MRP, to edit the planned orders, or combine quantities and dates based on your knowledge, experience and the current plan. You may also select a supplier (see Part Cross Reference, Chapter 4, Products), display a list of that supplier's open purchase orders and then decide whether to create a new purchase order or add a line item to an existing open order.

MRP Action Parts Purchase Order:

- 1. Select a planned order for a part from the MRP Action Parts list.
- 2. Click Schedule to open the MRP Action parts form for the part selected.

📽 MRP Action Part	is		
Part Number	BP-1		
	Barrel, Top Half, Blue		
Supplier/OEM Part #			
Supplier ID			
Add to PO			
		Schedule Selected I	Lines
Stock UOM	EA	Required Date	Required Quar
Purchase UOM		2/16/2006	10,000.00
Quantity	0.00	6/15/2006	30,000.00
Required Date	2 /29/2000 💌	9/14/2006	10,000.00
		<	>
Create P0			Close

The Part Number and description display at the top of the form.

From here you can either add the requirements to any existing PO or create a new one.

To create a new PO:

- 1. In the Schedule Selected Lines box, select the Planned Order quantity you wish to schedule as one PO line item. If you wish to combine two or more quantities, hold down the shift key and highlight all lines to be combined. If you don't want to schedule all the recommended quantity, change the quantity in the Quantity box, the Required Quantity will display the quantity remaining to be scheduled, which may then be added as a second line item with a different delivery date or purchased from another supplier.
- Enter a Supplier/OEM part number or click the hyperlink to choose one from the list. If no Supplier/OEM part number exists for this part, click the Supplier ID hyperlink to choose a supplier from the list.
- 3. Click the Create PO button at the bottom of the form to create a new PO.

To add to an existing PO:

- 1. In the Schedule Selected Lines box, select the Planned Order quantity you wish to schedule as one PO line item. If you wish to combine two or more quantities, hold down the shift key and highlight all lines to be combined. If you don't want to schedule all the recommended quantity, change the quantity in the Quantity box, the Required Quantity will display the quantity remaining to be scheduled, which may then be added as a second line item with a different delivery date or purchased from another supplier.
- Enter a Supplier/OEM part number or click the hyperlink to choose one from the list. If no Supplier/OEM part number exists for this part, click the Supplier ID hyperlink to choose a supplier from the list.
- 3. Click the Add to PO hyperlink to open the Purchase Order View listing all open POs for that supplier.
- When you reference an existing PO in the Add to PO field, the Create PO button changes to Update PO. Click the Update PO button, the Purchase Order form for that PO will be displayed.
- Either way, a purchase order form for the part selected will open. Add any additional information required and adjust the due dates as required. Verify the Purchase UOM is correct. Save the information just as if you were creating or editing a PO from the Supply menu. (See Supply, Purchase Orders)
- 6. You can continue to select lines from the Schedule Selected Lines box and update or create new POs until you have taken all the actions necessary. To complete the purchase order, do one of the following:

Click Save on the toolbar to save the purchase order and leave the form open.

Click OK to accept the new purchase order as is, exit the form and return to MRP.

Click Close to exit the form without saving.

Click Close to exit the MRP Action Parts form. From here, you can do one of the following:

- 1. Select another MRP item and continue to schedule POs (or WOs).
- 2. Click Close to exit the MRP Detail View.

Schedule a Work Order from MRP Detail

Work orders can be scheduled from planned orders. You decide whether to use the dates and quantities suggested by MRP or enter your own specific quantities and dates.

MRP Action Parts Work Order:

- 1. Select a planned order from the list. The Schedule button is activated on the bottom of the Action Parts dialog box.
- 2. Click the Schedule button to open the Work Order data entry form. If you have Auto Number set as a Preference, the Work Order Number will fill in with the next generated number when you click Save or OK.
- 3. The WO Detail tab data will default from the line item selected on the MRP Detail View.
- 4. To finish the work order, do one of the following:
 - Click Save on the toolbar to save the work order and leave the WO form open.
 - Click OK to accept the new work order as is and return to the MRP Detail View form to continue scheduling this part.

Click Close to exit the WO form without saving.

To exit the MRP Detail View form click Close From here, you can do one of the following:

- 1. Select another MRP item and continue to schedule POs (or WOs).
- 2. Click Close to exit the MRP Action Parts form.

Reschedule

Reschedule a PO or WO from the MRP Action Parts screen:

Work orders and Purchase Orders can be rescheduled directly from the MRP Action Parts screen. You must decide whether to use the dates suggested by MRP or enter your own specific dates. If you do not use the dates suggested by MRP, the next time MRP is calculated the order will receive the same reschedule message if it is still required. You must notify the buyer/planner at the requirement level if you are unable to meet the suggested date.

To reschedule an order from the MRP Action Parts form:

- 1. Highlight the order in the list. The Schedule button is activated on the bottom of the Action Parts dialog box.
- 2. For a Work Order, click the Schedule button to open the order's data entry form.
- 3. For a Purchase Order, click the Schedule button to open the order's data entry form. Select the PO Lines tab, and then click the Edit button to open the correct PO line item.
- 4. The proposed reschedule dates will be defaulted to the orders date fields.
- 5. To finish rescheduling the order, do one of the following:

Click Save on the toolbar to save the order and leave the form open.

Click OK to accept the new order as is and return to the MRP Action Parts form to continue scheduling this part.

Click Close to exit the form without saving.

Click Close to exit the MRP Detail View form. From here, you can do one of the following:

- 1. Select another MRP item and continue to schedule POs (or WOs).
- 2. Click Close to exit the MRP Action Parts form.

Demand Pegging

Using Pegging to review the MRP Action for the Demand

NOTE:

Alliance/MFG uses single-level pegging to facilitate the audit trail that identifies the origin of a given requirement.

Highlight a row with a Post Type of Planned Kit, the Pegging column displays the origin (Demand) part number of the requirement.

📽 MRP De	tail View	- By Part a	nd Job (B-01	,)						×
Part Number		B-01	B-01 Assembly, Barrel, Blue							
Job Number				ISC I	OMC P					
Quanitu On Hand		2	,900.00	Order M	lultiple	1.00				
Safetu Stock			0.00 Vield		ator 100					
Order ()hu		1.00	Lead Ti	ime	10				
	(Y		1.00	Lead II	ine	10				
		1		·					1	
	Action	Start Date	Date Required	Reference	Start Quantity	Quantity Required	Balance	Post Type	Pegging	^
1	Move In	10/24/2005	11/8/2005	W000080002	5,100.00	5,100.00	8,000.00	Firm W0		
2			11/8/2005	W005110002		-5,000.00	3,000.00	Planned Kit	BPP-100	
3		11/8/2005	11/22/2005	W005110001	2,000.00	2,000.00	5,000.00	Firm W0		
4			11/23/2005	0000000001		-5,000.00	0.00	Planned Kit	BPP-100	1
5	Create	11/30/2005	12/13/2005	000000009	9,800.00	9,800.00	9,800.00	Planned WO		1
6			12/14/2005	0000000006		-4,800.00	5,000.00	Planned Kit	BPP-x300	1
7			12/14/2005	0000000002		-5,000.00	0.00	Planned Kit	BPP-100	
8	Create	12/6/2005	12/19/2005	0000000010	2,500.00	2,500.00	2,500.00	Planned WO		
9			12/20/2005	0000000007		-2,500.00	0.00	Planned Kit	BPP-x300	
10	Create	12/29/2005	1/12/2006	0000000011	1,000.00	1,000.00	1,000.00	Planned WO		\sim
<									>	
Schedule		<u>_</u>							Clos	se

To review the MRP Action View for the origin (Demand) part number, go to the Sidebar and click on MRP By Pegging.

e° .	Alliance/MFG									
Eile	Elle Edit Products Demand Supply MRP Inventory CRP Shop Favorites Window Help									
Rela	Pelated Links 🔹 🔹 🔛 New 🎒 Save 💥 🧒 Query 🧬 Refresh									
ated Links	View Links	*	1d Job (B-01	.)	26 (m)					×
	MRP By Assembly MBP By Peopleg		Assem	bly, Barrel, Blue						
	Inthe by r odding			ISC I	М	OMC P				
	10		,900.00	Order M	fultiple	1.00				
	Edit Links	۲	0.00	Yield Fa	actor	100				
	Job Master Part Maintenance		1.00	Lead Time		10				
	Purchase Order		Date Required	Reference	Start Quantity	Quantity Required	Balance	Post Type	Pegging	~
	Sales Order		11/8/2005	W000080002	5,100.00	5,100.00	8,000.00	Firm WO		
	Work Order		11/8/2005	W005110002		-5,000.00	3,000.00	Planned Kit	BPP-100	
			11/22/2005	W005110001	2,000.00	2,000.00	5,000.00	Firm WO		
			11/23/2005	0000000001		-5,000.00	0.00	Planned Kit	BPP-100	-
			12/13/2005	000000009	9,800.00	9,800.00	9,800.00	Planned WU	0.000	-
			12/14/2005	000000000000000000000000000000000000000		-4,800.00	0.000	Planned Kit	BPP-X300	-
			12/19/2005	000000002	2 500 00	2 500.00	2 500 00	Planned W/O	011-100	-
			12/20/2005	0000000007	2,000.00	-2,500.00	0.00	Planned Kit	BPP-x300	
			1/12/2006	0000000011	1,000.00	1,000.00	1,000.00	Planned WO		~
									>	
									Clos	se
New	Pen Local - C:\Program Files	\Alliance\MFG	NewPen.mdb							

The MRP Action Parts view for the Demand part number is displayed. You are now able to review and decide if the entire requirement quantity is actually needed or is a lot size (build quantity) and could perhaps be reduced.

🗳 MRP De	etail View	By Part N	umber (BPP-	100)					\times
Part Number		BPP-100	Assembly, Ball Point Pen, Blue						
Job Number				ISC I	M	OMC P			
Quanity On Hand		2	2,000.00 Order M		fultiple	1,000.00			
Safety Stock			0.00	Yield Fa	actor	100			
Order Qtv		5	,000.00	000.00 Lead Tir		10			
	Action	Start Date	Date Required	Reference	Start Quantity	Quantity Required	Balance	Post Type	~
1			11/13/2005	SO00080004		-500.00	1,500.00	Sales Order	
2		11/8/2005	11/22/2005	W005110002	5,000.00	5,000.00	6,500.00	Firm W0	
3			11/25/2005	SO05110002		-5,000.00	1,500.00	Sales Order	
4	Create	11/23/2005	12/8/2005	0000000001	5,000.00	5,000.00	6,500.00	Planned WO	
5			12/9/2005	SO05110001		-2,500.00	4,000.00	Sales Order	
6			12/13/2005	SO00080002		-500.00	3,500.00	Sales Order	
7			12/13/2005	SO00080005		-500.00	3,000.00	Sales Order	
8			12/16/2005	SO05110001		-2,500.00	500.00	Sales Order	1
9	Create	12/14/2005	12/29/2005	0000000002	5,000.00	5,000.00	5,500.00	Planned WO	~
Schedule									

IMPORTANT MRP TIP:

Because MRP is a powerful dynamic planning tool, Firm WOs should be scheduled only as they are about to be sent to the factory floor. This is a function of the "Normal Time Fence", and requires careful attention when establishing your MRP policies and procedures. This will allow MRP to generate new planned orders and minimize the need to reschedule released work orders. It is important to process all deletes and reschedules first, then rerun MRP, continue this process level by level until the action item list is free of deletes and reschedules, the last step is to create new WOs and POs. Remember, if you cannot satisfy a required date, you must inform the buyer/planner of the part creating the demand.

MRP Reports

Material Requirements Planning reports can be printed at any time; however, they will reference the last MRP calculation. For accurate reporting, it is advisable to calculate MRP and then request relevant reports. Use the standard reports available from the Reports menu, or create a custom query. For more information about Alliance/MFG reports and custom queries, see the Alliance/MFG Technical Reference. Standard reports available from the MRP menu are:

Exception Report

Manual Parts List

Planned Orders

PO Commitment Graph
Inventory Control



Inventory Menu Functions

Inventory Control Overview

Alliance/MFG Inventory Control tracks stock information about all of your parts. Initially, parts are entered in the system by Engineering or those responsible for product design and bills of material. Once entered part records are available to the Inventory Control functions via the Inventory>Part Maintenance menu. Here you can assign manufacturing information, track serial/lot numbers, enter and update part costs, perform product structure cost roll ups; and perform physical inventory counts and ABC analysis. The Inventory Control menu contains all the tools you need to maintain detailed information about stock, quantities on hand, ordering, and manufacturing information; and perform miscellaneous inventory transactions at your discretion.

Order methods, inventory source codes, lead times, order quantities, order multiples, safety stock, and yield factors entered in the MRP Planning tab of the Part Maintenance data entry form give MRP the information it needs to plan to meet your demands on time. Assign various categories to parts, such as Commodity Codes, Departments and Stockrooms, and ABC codes in the Inventory Codes tab.

Once your system is up and running, you can access statistical information about every part in the system from the Part Master Statistics tab.

Tasks described in this section assume familiarity with the basic use of Alliance/MFG data lists, data entry forms, dialog boxes, queries, and finding and sorting features. If you need more information about how to use these features, review System Overview.

Part Maintenance

Inventory Part Maintenance defines additional information about your parts manufacturing attributes. From here you can enter codes and parameters that affect MRP Planning; assign product revenue codes, and alternate unit of measures; calculate lead times, maintain cost information; and review part statistics such as when a part was added to inventory, the date of the last cost revision, and year-to-date usage.

Maintaining Part Information

Select Inventory>Part Maintenance>Edit and enter a part number to open the Part Master data entry form for the part. The Part Number displays in the header, along with the revision and description entered with the part number. The Engineering Tab contains the initial data set up by your product designer/engineers. If information on the Engineering Tab needs to be completed, see Setting Up Your Products>Part Master for details.

Part Maintenance information is added in the MRP Planning, Inventory Codes, and Part Costs tabs. Enter information in the fields as described in the following sections.

MRP Planning Tab

MRP Required Fields

The MRP calculation uses information entered here to determine what type of order to recommend when it encounters demand for the part—either a purchase order, work order, or subcontract purchase order. You must enter an Inventory Source Code and an Order Method Code if you want MRP to plan for this part. The default inventory source code is "Buy" and the default planning method is "Include in MRP". Click the down arrow next to the field to select another option.

🗳 Part Master				
Part Number	B-01		Revision	<u>A</u>
Description	Assembly, Barrel, Blue	I	nactive	
Engineering Notes MRP F	Planning Inventory Codes Pa	rt Costs Statistics		
Inventory Source Code	Make Part 🗸	Order Method Cod	e Include in MRP	Calculations 💌
Department Code	SUBS	Sub-Assemblies Work In Pr	ocess	
Stockroom Code	SA-1	Sub-Assemblies		
Location Code	100			
Kit From Stockroom				
Kit From Location				
Lead Time	10.00	Yield Factor	100.	00
Order Quantity	1.00	Order Multiple	1.	00
Costing EOQ	0.00	Safety Stock	0.	00
				OK Close

Inventory Source Code (ISC)

The Inventory Source Code identifies which parts you will make, which parts you will buy, and which parts are phantom assemblies (make-ons), bulk and non-inventory items. The MRP calculation uses this information to determine what type of order to recommend when it has unsatisfied demand for the part.

📽 Part Master					
Part Number	B-01		Revisio	n	A
Description	Assembly, Barrel, Blue		Inactive		
Engineering Notes MRP	Planning Inventory Codes Pa	rt Costs Sta	itistics		
Inventory Source Code	Make Part 🛛 👻 Buy Part	Or	der Method Code	Include in MRP	Calculations 🔽
Department Code Stockroom Code	Free/Bulk Stock Make Part Non-Stock Part Phantom Part Subcontract Part	Sub-Assem Sub-Assem	blies Work In Process blies		

ISC Code Definitions

Buy Part - Purchased parts

Free/Bulk Stock - A buy part that is a component on a BOM and included in MRP planning, but not issued via work order kitting. These stock items are typically issued to the floor via a Misc Issue in bulk. For example, a bin of insulation material or a bucket of nuts/bolts/screws could be coded Free/Bulk Stock because they are used on numerous parts but not generally kitted individually on each work order.

Make Part – Components manufactured or assembled in house.

Non-Stock Part - Items not part of normal production stock (office supplies, expense, capital items). These items would not be considered in MRP planning.

Phantom Part - Blow Through/Make on items - Not planned or stocked; when these parts have demand, MRP plans their components. (For more information about Phantom parts, see Chapter 4: Products.)

Subcontract Part – These parts are typically purchased on a PO. They may have a BOM and be kitted then sent out for assembly or they may require an added service, such as plating, machining, and so on.

Order Method Code (OMC)

The Order Method Code determines how MRP includes a part in the planning schedule or whether to consider the part in its calculation at all. Click the down arrow next to the field to select an option.

📽 Part Master				
Part Number	B-01	Rev	rision	A
Description	Assembly, Barrel, Blue	Inac	tive	
Engineering Notes MRP I	Planning Inventory Codes Pa	rt Costs Statistics		
Inventory Source Code	Make Part 💌	Order Method Code	Include in MRI As-Required, F	P Calculations 🔽 Plan Lot for Lot
Department Code	SUBS	Sub-Assemblies Work In Proces	Job Tracking, I Manual, Do no Include in MRR	Plan by Job ot plan in MRP P Calculations
Stockroom Code	SA-1	Sub-Assemblies		

OMC Code Definitions

As Required, Plan Lot for Lot - Uses the order quantity as a lot size. For example, if your order quantity is 100, and you need 90, MRP will recommend an order of 100; if you need 105, MRP will recommend two orders of 100 each.

Job Tracking, Plan by Job - MRP generates discrete POs and plans discrete WOs for parts required by sales orders assigned a Job Number. Each Job number will generate a unique set of MRP action items and a summary action item will be created for all non-job activity. Job tracking uses order quantity and order multiple to determine planned orders. (See MRP Planning for more information about accessing MRP Actions for Job coded parts.) **Manual, Do not plan in MRP** – These orders will appear on MRP, but no automatic action will be taken. Be sure to review all manual parts.

Include in MRP Calculation - Uses all ordering rules and quantities to determine planned orders. Review each quantity field below to determine how each will affect the number of orders and order sizes generated.

NOTE:

If you are importing your parts to reduce your initial setup time. The Import/Export routine requires a single digit code for both ISC and OMC. The codes are listed below:

ISC Codes	OMC Codes
B = Buy	A = As Required (Lot for Lot)
F = Free	J = Job Tracking
M = Make	M = Manual, Do not plan
N = Non-stock	P = Include in MRP
P = Phantom	
S = Subcontract	

MRP requires additional information to plan your parts correctly, minimally this includes a Department, a Stockroom, a Location, a purchase or manufacturing Lead Time, and an Order Quantity.

LINK NOTE:

If you use an Accounting Link, refer to your Link documentation before setting up departments, stockrooms, accounts and locations.

Department Code

A department identifies a specific cost center in the manufacturing process. Each department number is assigned a corresponding General Ledger account number. Manufactured parts are usually assigned a department number that represents a work in process cost center; purchased parts do not require a department code unless they are "Subcontract Parts" that have component material kitted and sent to the supplier for processing/assembly. Enter the Department number, the department description will display to the right of the code.

Stockroom and Location

Each and every Alliance/MFG inventory transaction such as a PO Receipt or PO Return, a WO Kit or Dekit, a WO Completion, a WO Backflush, or a SO Shipment or SO Return use stockrooms and locations to track inventory movement in the system. All part numbers must be assigned a stockroom, and a location within that stockroom, to describe its physical warehouse location. You can also set up corresponding General Ledger accounts for each stockroom. Once a code selected and entered the description of the stockroom and location will display to the right of the codes.

Kit From Stockroom and Location

You can also assign a default "Kit From Stockroom" and "Kit From Location" separate from their default "Stockroom" and "Location", which are used for receiving and completion transactions. The "Kit From..." defaults are used in Backflushing, Work Order Kitting, and Sub-Contract PO Kitting to control where Inventory is pulled from. Inventory will pull in the following sequence when these fields are filled out:

- 1. Job-assigned material
- 2. Kit-from Stockroom and Location
- 3. Ignore all other inventory

If the "Kit From..." fields are left blank, Kitting will behave as normal.

Lead Time

MRP uses this number to calculate the number of working days needed to process and receive or manufacture parts to meet a required date. For example, if you specify a 10 day lead time for a part, MRP will create a work order or purchase order with a suggested start date 10 working days prior to the required date. Be sure to include order processing, transit, inspection and dock to stock times in this number.

Defining Lead Times

Lead Time is one of the most critical pieces of information used in the MRP calculation. A lead time must be defined in the Part Master for every part in the system. The lead time determines the date MRP recommends you start orders for required parts. For example, if your company manufactures Red Widgets, you might use lead times as shown in the following product structure:

Red Widget: ISC: Make Part, Lead Time 5

Red Paint: ISC: Buy Part (1 per Red Widget), Lead Time 3

Widget: ISC: Make Part (2 per Red Widget), Lead Time: 6

Wood: ISC Buy Part (2 per Widget, or 4 per Red Widget), Lead Time: 3

You need not account for the lead times of component materials when determining the lead time for manufactured parts (all parts carry their own lead time); the MRP calculation accumulates and offsets lead times automatically. In the example below, the lead time for the Red Widget is five days. This is the number of days it takes to make Red Widgets assuming the component parts (the paint and widgets) are in stock.

MRP uses backward scheduling. Therefore, it subtracts the lead time from the required date to determine the start date for an order, calculating only the days your company is scheduled to be open (as established in your Company Preferences and Calendar).

For Example:

You receive an order for 100 Red Widgets due to ship on Monday, July 21, 200X. Assume that you have zero inventory on-hand and an Order Quantity of one for each part. You run the MRP calculation.

MRP would plan an order for Red Widgets to be completed Friday, July 18th (one production day before it is scheduled to ship) and subtracts the lead time: 5 days. MRP will calculate the start date of the work order to be Monday, July 14th.

Because it is a Make part, MRP then explodes the Red Widgets Bill of Materials and determines that you need to have 100 units of Red Paint available for use on Monday, July 14th (the day the Work Order will begin). Because it is a buy part, MRP will suggest a Purchase Order for 100 units due Friday, July 11, and will recommend you place the order on Wednesday, July 9th: 3 day lead time. MRP also determines that you need 200 widgets ready for use on Monday, July 14 (MRP utilizes the quantity per on the BOM of the assembly). It again calculates the required date as Friday, July 11th, then backs off by the lead time to Friday, July 4th, 6 day lead time. MRP recommends the start date on the July 3rd, because the 4th is in the company calendar as a holiday, (Remember, the MRP calculation counts production days only). Finally, it determines that you need 400 pieces of wood, and recommends a Purchase Order that starts on Monday, June 30, with a required/due date of Wednesday, July 2nd. The following calendar illustrates this by date.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29	30	July 1	2	3 WO Start 200 Widgets	4	5
	PO Start, 400 Wood		PO Required, 400 Wood		CLOSED (Holiday)	
6	7	8	9	10	11 WO Required	12
			PO Start, 100 Red Paint		200 Widgets PO Required, 100 Red Paint	
13	14 WO Start,	15	16	17	18 WO Required,	19
	100 Red Widgets	4			<u>100 Reo</u> <u>Wiogers</u>	

In summary, lead time should be calculated from the moment the requirement is recognized to the time the parts are available for use in the stockroom. Lead time therefore includes administration time, process and manufacturing time, in-transit time, and inspection time.

MRP Optional Fields

Order Quantity

The order quantity is the minimum number of parts you want to order. This may vary part-by-part, depending on your purchasing and manufacturing requirements. For example, you might get the best price for ordering springs in lots of 100,000. This is where you configure your ordering rules to help you take advantage of this price break.

If the OMC for this part is set to either Include in MRP Calculations or Job Tracking, Plan by Job, MRP will recommend this quantity as a minimum order whenever this part is ordered. For example, if you require 900 parts but you enter 100,000 in this field as your order quantity, MRP will recommend a planned order for 100,000. MRP only recommends, you may override MRP and order 900 or any other quantity. If the part is still in an ordering position (negative availability) the next time MRP is run, it will recommend another order.

If the OMC for this part is set to As Required, Plan Lot-for-Lot, MRP will recommend orders in lot sizes equivalent to the order quantity. For example, if you need 900, and your order quantity is 1000, MRP will recommend 1000. If you need 1200, MRP will recommend two orders for 1000 each.

This quantity is based on the stocking unit of measure.

Costing EOQ

This field allows you to separate the "Order Quantity" value for Material Planning from the calculation of Setup Cost per Unit. For example, you may wish to have MRP always recommend exact quantities to match demand by setting your "Order Quantity" to one, while amortizing the Setup Cost across an average production lot size of 200 units.

Yield Factor

The percentage **yield** The ratio of usable output completed from a process to the materials input to the process. Yield is usually expressed as a percentage and may be in terms of total input or of a specific raw material. (or loss) for a part. MRP multiplies the quantity required for a part by yield factor to calculate the **start quantity** The required quantity multiplied by the scrap factor (yield). The default is 100 (100%), MRP plans for the exact amount. For example, if you must start 200 to complete 150, enter 133 in this field. (This number must be greater than or equal to 100.) To determine the factor, divide the quantity to start by the required quantity, and convert to a percentage.

Order Multiple

Every order of this part must be a multiple of this number. For example, if you can only buy eggs by the dozen, every egg order must have an order multiple of 12.

Safety Stock

The number of parts you keep on-the-shelf as a cushion (in the Stocking UOM). MRP considers forecasts, sales orders and safety stock when calculating demand. When a parts inventory falls below the specified safety stock quantity, MRP recommends a planned order to replenish the safety stock. This entry can also be used as a reorder point if you add lead time coverage to the safety stock quantity.

CAUTION!

Safety stocks distort MRP priorities and increase inventory; use them sparingly! For parts with the Inactive flag on the safety stock will appear and be treated as zero (0) by the MRP calculation.

Remember, MRP is your tool, not your master. Its ultimate goal is to keep both costs and inventory low; however, you are always free to modify and/or interpret its recommendations. For more information see Material Requirements Planning.

Inventory Codes Tab

You can further define parts in inventory by applying additional codes in the Inventory Codes tab. For example, you can apply a Product Class code to a part and assign a general ledger account to track revenue and expense information. Or you can assign an ABC code to define the part value relative to other parts in the system via the ABC analysis. The following paragraphs describe how each code is utilized by Alliance to help you control your parts.

📽 Part Master					
Part Number	BPP-100		Revision	В	
Description	Assembly, Ball Point F	Pen, Blue	Inactive		
Engineering Notes MRP I	Planning Inventory C	Codes Part Costs	Statistics		
Commodity Code	F/G	Finished Goods	Require SN/Lot		
Pur/Mfg UOM	EA	Each	SN Format	*Y*M*D#####	
Product Class Code	BPP100	100 Series	Average Catch Weight	0).00
System Used On Code	BP	BLUE PENS	Catch Weight UOM		
Product Discount Code	BPP	Ball Point Pens			
ICN Code		1			
ABC	A - Highest Relati	ve Value 🛛 💌	Standard Hours		J.U1

Commodity Code

Commodity codes categorize your parts by related type. Depending on how you set up your commodity codes, you associate a buyer/planner with that commodity. For example, if one buyer purchases all machined parts, assign a commodity code for the buyer associated to those parts. Now you can display MRP Action parts by Buyer/Planner.

Pur/Mfg UOM

If you purchase or manufacture in a different unit of measure than the stocking unit of measure, enter the alternative here. MRP uses this unit of measure to compute the number of parts required when generating work orders and purchase orders. You must have defined a UOM conversion between this UOM and the Stocking UOM in your Company Preferences and in your Codes Tables. See Setting up your Company for more information.

Product Class Code

The product class code can be used to assign General Ledger accounts to part numbers for reporting or tracking the revenue/expense accounts for this part when it is shipped.

LINK NOTE:

If you use an accounting link, this information will be passed through the link. Enter a Product Class Code, or use the hyperlink to choose from Product Class Code list.

System Used On Code

You can categorize parts by product line. This data is not used in any MRP calculation; it simply provides an additional way to group or identify your parts. For example, if you manufacture red and blue pens, you can separate parts used on red pens from parts used on blue pens and view data separately for each.

Product Discount Code

The **Product Discount Code** Assigns a price type and description to a specific part for list price discount application. in combination with the Customer Discount Level will be used in establishing your Price Break Structures. You can apply different discounts for red pens versus blue pens on a per customer per order quantity basis. See Setting up your Company>Codes for more information.

ICN Code

If you use Intrastat Reporting Tracks, use this field to define ICN material type for this part. This information will then be used for Intrastat Reporting features.

ABC Classification

You can assign an ABC classification here, or if you run an ABC Analysis, the system will update it. When you run the ABC analysis, Alliance can classify your parts in relative value of importance according to the value category/type you assign.

Require SN/Lot

To insure that all transactions for a part number include a Serial/Lot number, check the Require SN/Lot checkbox. You may also specify the SN/Lot Format. This can be any combination of letters and numbers up to 10 characters. Any part of a date (Month, Year, Day) may be included in the auto-generation by entering *M, *Y, or *D in any combination. Sequential numbering fills in the remaining numbers.

For example, the serial number SN03091847, would be the 47Th serial number automatically generated on September 18, 2003 in the format "SN*Y*M*D".

If you do not wish to use 10 characters, enter your preferred format, then insert "#" for the number of characters you wish to use. The system will only increment that number of characters.

Average Catch Weight

Enter the average weight of the product when shipped in the Catch Weight UOM. The sales order shipping transaction screen will require the shipping clerk to enter the actual weight of the shipment. This average weight will be used to calculate the actual cost of the shipment when variable weight products are shipped.

Catch Weight UOM

Enter the Catch Weight UOM. The sales order shipping screen will require the shipping clerk to enter the actual weight of the shipment in this unit of measure.

The actual catch weight when compared to the average catch weight will be used to calculate the actual cost of the shipment when variable weight products are shipped.

Standard Hours

Enter the number of hours required to produce one unit of this part. This cost can be maintained and updated via your Labor Router and the Update Labor Standards feature.

Part Costs Tab

The Parts Costs Tab will be detailed in the Cost Maintenance section.

Statistics Tab

The Statistics tab displays up to date information about this part. From here you can quickly see who entered the part into the system and when; the date of the last cost revision, the date of the last cycle count, and the date of the last transaction; and the quantity on hand, the quantity on order, and promised sales. The net year-to-date usage of the part is calculated using Misc. Issues, WO Kits and Dekits, PO Kits and Dekits, SO Shipments and Returns.

📽 Part Master			
Part Number	B-01	Revision	<u>A</u>
Description	Assembly, Barrel, Blue	Inactive	
Engineering Notes MRP	Planning Inventory Codes Part Costs	Statistics	
	Entered Bv	90-KEM	
	Date Created	8/27/1999	
	Date of Last Cost Revision	8/31/2003 9:24:05 AM	
	Date of Last Cycle Count	12/8/2002	
	Date of Last Transaction	12/8/2002	
	Year-To-Date Usage	8,500.00	
	Quantity On Hand	2,900.00	
	Quantity On Order	5,100.00	
	Promised Sales	0.00	
			OK Close

Accessing Part Maintenance Data

Once all part and inventory information is entered into the system, Alliance/MFG gives you several options for accessing the data.

From the Inventory Menu

Select Inventory>Part Maintenance from the main menu. From here you can use the submenus to go straight to a blank data entry form to enter new part information, edit existing data; or use predefined queries and wild cards to locate specific records.

Part Maintenance View

Records displayed in the Part Maintenance View depend on the menu option you select.

From here you can add, or delete a record, or via the sidebar or Links button you can edit, drill down or access related data; such as the cost of parts, where a part is used in production; or preview or print a report.

Sorting and Finding Part Maintenance records – If your parts list is large, it may be helpful to sort the list. Click in a column header to sort by the information in that column. Click the Filter button in the top of the view to activate an incremental filter/find search on the list. You may perform a filter on any column, the specific record or range of records will display as you type.

Accessing Inventory On Hand Data

If the Part Maintenance view is currently open, click on the appropriate sidebar related link. From either the Inventory Summary or Inventory Details Menu select *View All Inventory*.

Inventory Summary

The Inventory Summary menu provides a summarized view of all part numbers in inventory, along with their Part Number, Quantity, Stockroom, Nettable and Quarantine Flags. From here you can select a part number and drill down to inventory details such as serial, lot and job numbers, or view maintenance, expiration and warranty dates. To drill down to inventory details double click on a summary line or click the Edit button.

Inventory Summary Menu

The Inventory Summary menu provides a summarized view of all part numbers in inventory, along with their Part Number, Quantity, Stockroom, Nettable and Quarantine Flags.

📽 Inventory Summary - All							
Invento	ry Summary - All					👪 🗏 🕹 🐄	9 🍛
Part Nur	mber	Part Description	Total Quantity	Stockroom	Nettable?	Quarantine?	
1	B-01	Assembly, Barrel, Blue	2,900.00	SA-1			
2	B-02	Assembly, Barrel, Red	4,210.00	SA-1			
3	BP-1	Barrel, Top Half, Blue	3,999.00	RAW			=
4	BP-2	Barrel, Bottom Half, Blue	12,900.00	RAW			
5	BP-3	Ring, Metal .250 diameter	10,000.00	RAW			
6	BP-4	Clip, Pocket Metal 1.5 inch	10,000.00	RAW			
7	BP-5	Barrel, Top Half, Red	8,310.00	RAW			
8	BP-6	Barrel, Bottom Half, Red	5,210.00	RAW			
9	BPP-100	Assembly, Ball Point Pen, Blue	1,600.00	PENS			
10	BPP-200	Assembly, Ball Point Pen, Red	1,000.00	PENS			
11	▶ C-01	Assembly, Cartridge, Blue Ink	15,000.00	SA-2	✓		
12	C-02	Assembly, Cartridge, Red Ink	6,200.00	SA-2			
13	CP-1	Ball Point	15,000.00	RAW			~
			1			Édit Cla	ose

From here you can select a part number and drill down to inventory details such as serial, lot and job numbers, or view maintenance, expiration and warranty dates. To drill down to inventory details double click on a summary line or click the Edit button.

📽 SN/L	ot Tracking V	iew - By Part Number (C-01)			
SN/Lot Tra	icking View - By F	Part Number (C-01)			6 3	🗐 💑 🌳 🐌
Part Numb	er	Description	SN/Lot Number	Expiration Date	Maintenance Date	Warranty Date
1 🕨	C-01	Assembly, Cartridge, Blue Ink	11-25			
2	C-01	Assembly, Cartridge, Blue Ink	22-61			
<						>
					Edit	Close

Inventory Details

The Inventory Details function provides access to all part quantities in stock, along with their Department, Stockroom, Location, Serial Number, Lot Number, Cost and Job Number information. All information is displayed in the Inventory Lots View list. This menu selection also gives you access to the Misc. Issue, Misc. Receipt, and Relocate Inventory transactions.

Inventory Details Menu

The Inventory Details menu provides a view of all part quantities in stock, along with their Stockroom, Location, Serial Number, Lot Number, Expiration Date, Job Number and Cost information.

a [®] Inventory Lots View - All									\mathbf{X}
Invento	ory Lots View - All						A	5 🖪 🕹 💡	3
Part Nu	mber	Part Description	Quantity	Stockroom	Location	Cost	SN/Lot Number	Job Number	-
1	B-01	Assembly, Barrel, Blue	2,900.00	SA-1	100	\$0.23			1
2	B-02	Assembly, Barrel, Red	6,200.00	SA-1	100	\$0.23			
3	BP-1	Barrel, Top Half, Blue	3,999.00	RAW	100	\$0.05			- =
4	BP-2	Barrel, Bottom Half, Blue	18,200.00	RAW	100	\$0.05			
5	BP-3	Ring, Metal .250 diameter	20,000.00	RAW	100	\$0.02			-
6	BP-4	Clip, Pocket Metal 1.5 inch	17,800.00	RAW	100	\$0.02			1
7	BP-5	Barrel, Top Half, Red	8,310.00	RAW	100	\$0.05			1
8	BP-6	Barrel, Bottom Half, Red	5,210.00	BAW	100	\$0.05			1
9	BPP-100	Assembly, Ball Point Pen, Blue	200.00	PENS	100	\$0.85			1
10	BPP-100	Assembly, Ball Point Pen, Blue	1,400.00	PENS	100	\$0.85	FEN-105	FEN-105	1
11	▶ BPP-200	Assembly, Ball Point Pen, Red	1.00	PENS	100	\$0.84	SN06000121		
12	BPP-200	Assembly, Ball Point Pen, Red	1.00	PENS	100	\$0.84	SN06000122		1
13	BPP-200	Assembly, Ball Point Pen, Red	1.00	PENS	100	\$0.84	SN06000123		-
14	BPP-200	Assembly, Ball Point Pen, Red	1.00	PENS	100	\$0.84	SN06000124		1
15	BPP-200	Assembly, Ball Point Pen, Red	1.00	PENS	100	\$0.84	SN06000125		~
1<					1				>
								Close	•

From here you can select a part number and maintain expiration, maintenance and warranty dates by clicking the SN/Lot Tracking in the Related Views sidebar.

of SN	I/Lot Tracking	View - By I	art Number (BPP-200)				
SN/Lot	Tracking View - B	y Part Number	(BPP-200)		8 3 E	۰ 🕹 ا	9 🌫
Part Nu	umber	Descriptio	SN/Lot Information		ite Wa	rranty Da	ate 🗖
1	▶ BPP-200	Assembly					
2	BPP-200	Assembly	Part Number BPP-200				
3	BPP-200	Assembly	Assembly, Ball Point Pen, Red				
4	BPP-200	Assembly	SN/Lot Number SN06000121				
5	BPP-200	Assembly					
6	BPP-200	Assembly	SN/Lot Information Notes				
7	BPP-200	Assembly	Eusitation Data				
8	BPP-200	Assembly					
9	BPP-200	Assembly	Maintenance Date 7 /24/2006 -				
10	BPP-200	Assembly					
11	BPP-200	Assembly	warranty Date				_
12	BPP-200	Assembly					
13	BPP-200	Assembly					
14	BPP-200	Assembly					
15	BPP-200	Assembly					
16	BPP-200	Assembly,	Ball Point Pen, Red SN06000136				~
				E	dit	CI	ose

From the Inventory Lots View

The records displayed in the Inventory Lots View depend on the query you select. You can display inventory by buyer, serial/lot number, commodity code, job number and other categories. From here you highlight an item and click on the Related Edits sidebar section to relocate inventory from one department or location to another, and perform miscellaneous issues and receipts.

TIP:

You can create a view of specific inventory based on your criteria and add it to your Favorites Section in the Sidebar.

The Inventory Details menu selection also gives you access to the Misc. Issue, Misc. Receipt, and Relocate Inventory transactions.

nventory		
Part Maintenance	•	
Inventory Summary		
Inventory Details	•	Misc. Issue
SN/Lot Tracking	*	Misc. Receipt
<u>C</u> ost Maintenance	3E	Relocate Inventory
Cost Roll Up Iransaction History Shortages Locations Physical Inventory ABC Analysis Update Standard Cost)))	By Buyer/Planner By Commodity Code By Stockroom Code By ABC Code By Job Number By Expiration Date By Part and SN/Lot
<u>R</u> eports	+	View All Inventory

Miscellaneous Issues and Receipts

Miscellaneous issues and receipts can be used to issue parts non-routinely to stockrooms and departments; or receive parts into inventory from a department. For example, you may want to issue and return to stock an assembly that was temporarily used by the Engineering department.

Misc. Issues and Receipts can be performed from the Inventory Lots View window using the Related Edits sidebar section, or select Misc. Issues or Receipts from the Main Menu Inventory Details submenus.

Miscellaneous Issues

Select Inventory>Misc. Issue to open a blank Misc. Issue form. You must enter the Part Number and Stockroom. If there is inventory in the selected stockroom the system defaults the current inventory location, and any SN/Lot Numbers or Job Number that may apply, and the quantity in that stockroom and location.

If you access the Misc. Issue transaction form from the Inventory Lots View, you can select the part number first, then use the Related Edits section to open a Misc. Issue form for the part you selected. The system defaults the current stockroom and location, and any SN/Lot Numbers or Job Number that may apply, and the quantity in that stockroom and location.

o [®] Misc. Issue			
Part Number	BP-1	Entered By	SUPERVISOR
	Barrel, Top Half, Blue	Tran Group	-1
From Stockroom Code	RAW BAW		
From Location Code	100		
From SN/Lot Number			
From Job Number			
Current From Quantity	3,899.00 EA		
🖌 Misc. Issue Notes			
To Department Code	ASSY Pen Assembly	• Work In Process	
Quantity Issued	🖌 100 EA		
Tran Date	7 /18/2006 💌		
Tran Info			
			OK Close

At the bottom of the form, enter the "To Department Code." The description displays next to the field. Enter the quantity you wish to issue. The Transaction Date defaults to "today's" date; you can use the calendar box to enter a different date if needed.

When you are finished, do one of the following:

Click Save on the toolbar to save the issue and leave the form open.

Click OK to save the issue and exit the form.

Click Close to exit the form without saving.

Click the Refresh button on the toolbar to view the parts adjusted inventory, the transaction is also recorded in the Transaction Log.

Miscellaneous Receipts

Select Inventory>Inventory Details>Misc. Receipts to open a blank Misc. Receipts form. You must enter the Part Number, From Department, Quantity Received, and any SN/Lot Numbers or Job Number that may apply. The system defaults the current inventory cost, the default Stockroom and Location.

If you access the Misc. Receipts transaction form from the Inventory Lots View, you can select the part number first, then use the Related Edits section to open a Misc. Receipts form for the part you selected. The system defaults the selected part number, you must enter the From Department, Quantity Received, and any SN/Lot Numbers or Job Number that may apply. The system defaults the current inventory cost, the default Stockroom and Location..

o [®] Misc. Receipt				
Part Number	BP-1		Entered By	SUPERVISOR
	Barrel, Top Half, Blue		Tran Group	-1
From Department Code	RAW Raw Mat	erials/Purchased Parts	;	
QTY Received 🗸	100.0	0 EA		
Misc. Receipt Notes				
To Stockroom Code	RAW Raw Mate	erials/Purchased Parts	:	
To Location Code	100			
To SN/Lot Number				
To Job Number				
Cost	\$0.0	5		
Update On Hand Inventory?				
Tran Date	7 /18/2006 💌			
Tran Info				
				OK Close

The Transaction Date defaults to "today's" date; you can use the calendar box to enter a different date if needed.

When you are finished, do one of the following:

Click Save on the toolbar to save the receipt and leave the form open.

Click OK to save the receipt and return to the Inventory Lots View.

Click Close to exit the form without saving.

Click the Refresh button on the toolbar to view the parts adjusted inventory, the transaction is also recorded in the Transaction Log.

Relocating Inventory

If your company uses an Incoming Inspection or Quarantine process you can use the relocate transaction to move the material to an inventory location after it has passed inspection or the quarantine time line. You can also use the relocate transaction to correct inventory location errors, scrap obsolete parts, etc. and the system will track the inventory movement. If you alter critical data such as serial or lot number you will terminate the Alliance/MFG ability to track those serial or lot numbers. Be sure to add information about the reason for the relocation to the Notes on the relocation transaction.

NOTE:

When the Require SN/Lot Number flag in the Part Maintenance>Inventory Codes is checked for a given part number, you will NOT be able to use the Relocate transaction to alter/change serial/lot numbers for that part.

To Relocate inventory:

From the Inventory Lots View, select the line that represents the part number, stockroom, location, and quantity you wish to relocate. You can relocate any amount of the quantity. The following example was displayed by entering a part number in the By Part Number query.

📽 Inven	tory Lots View	- All					×
Inventory	Lots View - All					👪 📑 🕹 🌱	6
Part Numb	er	Part Description	Quantity	Stockroom	Location	SN/Lot Number	
1	B-01	Assembly, Barrel, Blue	2,900.00	SA-1	100		T
2	B-02	Assembly, Barrel, Red	4,210.00	SA-1	100		
з 🕨	BP-1	Barrel, Top Half, Blue	3,999.00	RAW	100		
4	BP-2	Barrel, Bottom Half, Blue	12,900.00	RAW	100		Ī
5	BP-3	Ring, Metal .250 diameter	10,000.00	RAW	100		ĥ
6	BP-4	Clip, Pocket Metal 1.5 inch	10,000.00	RAW	100		ĥ
7	BP-5	Barrel, Top Half, Red	8,310.00	RAW	100		ĥ
8	BP-6	Barrel, Bottom Half, Red	5,210.00	RAW	100		Î.
9	BPP-100	Assembly, Ball Point Pen, Blue	200.00	PENS	100		~
<		IIII				>	
						Close	

Click Relocate in the Related Edits sidebar section to open the Relocate Inventory form. The part number, From Stockroom and From Location with current From Inventory Quantity displays in the top of the form.

📽 Relocate Invent	огу		
Part Number	✓ BP-1	Entered By	SUPERVISOR
	Barrel, Top Half, Blue	Tran Group	-1
From Stockroom Code	RAW Raw Materials/Purchased Part	s	
From Location Code	✓ 100		
From SN/Lot Number			
From Job Number			
Current From Quantity	3,000.00		
🖌 Relocate Inventory	Notes		
To Stockroom Code	RAW Raw Materials/Purchased Pa	arts	
To Location Code	200		
To SN/Lot Number			
To Job Number			
Relocate Quantity	999		
Current To Quantity	999.00		
Tran Date	7 /18/2006 💌		
Tran Info			
			OK Close

In the bottom half of the form, enter the "To Stockroom Code." The description will display next to the field. Enter the "To Location Code", a SN/Lot Number or a Job Number, if needed. Add any notes to retain critical information. Enter the quantity you wish to relocate. This can be any amount of the current "From" quantity. The Transaction Date defaults to "today's" date; you can use the calendar box to change it at your discretion.

When you are finished, do one of the following:

Click Save on the toolbar to save your entries and leave the form open.

Click OK to save the relocate and return to the Inventory Lots View.

Click Close to exit the form without saving.

Serial Number/Lot Tracking

If your business requires that all transactions (all material movement within Alliance/MFG) for a given part number include a serial or lot number, you may indicate so in the Part Maintenance record by clicking the "Require SN/Lot Number" flag on the Inventory Codes tab. It is not necessary to set this flag to be able to enter a serial or lot number during transactions, but if you do set this flag, you will NOT be able to complete any transaction without a serial/lot number.

Serial number and lot information can be maintained via the SN/Lot Tracking menu selection or preferably will be entered during the following transactions; Purchase Order Receipts, Work Order Completions, or Misc. Receipt. These are transactions into stockrooms (inventory). You can optionally assign additional information such as Expiration, Maintenance and/or Warranty Dates for these items. If a serial or lot number assigned is NOT unique for that part number, it will be combined with like serial or lot numbers existing in inventory. Serial and lot numbers in inventory may also be transferred or moved between departments and stockrooms using the Relocate transaction.

NOTE:

When the Require SN/Lot Number flag is checked for a given part number, you will NOT be able to use the Relocate transaction to alter/change serial/lot numbers for that part. If a serial/lot number requires changing you will need to use the Unplanned Issue under the original serial number (issue from a stockroom to a department) and then use an Unplanned Receipt (from that same department back into a stockroom) under the new serial number. Use the Notes field to indicate why the transactions were necessary as the Alliance/MFG SN/Lot Tracking audit trail will cease to exist.

📽 Part Master				
Part Number	BPP-100		Revision	В
Description	Assembly, Ball Point F	Pen, Blue	Inactive	
Engineering Notes MRP	Planning Inventory C	odes Part Costs !	Statistics	
Commodity Code	F/G	Finished Goods	Require SN/Lot	
Pur/Mfg UOM	EA	Each	SN Format	*Y*M*D#####
Product Class Code	BPP100	100 Series	Average Catch Weight	0.00
System Used On Code	BP	BLUE PENS	Catch Weight UOM	
Product Discount Code	BPP	Ball Point Pens		
ICN Code		1		
ABC	A - Highest Relati	ve Value 🛛 🔽	Standard Hours	0.01
				OK Close

All Serial Number and Lot Number information is retained in the system, even if the inventory has been depleted. For serialized work order completions you can establish the SN/Lot Number Format. For using Serialized Work Order Completions see Supply>Work Order Completions.

To add a SN/Lot Number for a part during a transaction:

Perform either a purchase order receipt, unplanned receipt, work order completion or serialized work order completion transaction. Add the serial or lot number to the transaction record. If required, click on the SN/Lot Information button to enter a expiration, warranty or maintenance date. The serial/lot number and information will be added to the SN/Lot Tracking and the transactions tables.

NOTE:

A lot may be received in partial receipts and have several transactions, however, only one expiration date is valid for each unique lot number.

To create or modify a SN/Lot Number record for a part:

Select Inventory>SN/Lot Tracking>New to open a blank SN/Lot Tracking data entry form.

📽 SN/Lot Information	
Part Number	
SN/Lot Number 😣]
SN/Lot Information Notes	
Expiration Date 7 /18/2006 💌	
Maintenance Date 7 /18/2006 -	
Warranty Date 7 /18/2006 -	
	OK Close

- 1. Enter a part number.
- 2. Enter an SN/Lot Number to uniquely identify either the part or the lot.
- 3. Enter Notes or an Expiration, Maintenance or Warranty date if needed.

NOTE:

A Serial/Lot number created and added through this method will not contain a reference to a purchase order or work order. You must add any reference information to the SN/Lot Notes field.

When you are finished, do one of the following:

Click Save on the toolbar to save your entries and leave the form open.

Click OK to save the receipt and exit the form.

Click Close to exit the form without saving.

Tracking SN/Lot Numbers

Once you have assigned SN/Lot numbers to parts, you can track them through the system. Alliance/MFG gives you several options for tracking the data.

From the SN/Lot Tracking Submenus:

Select Inventory>SN/Lot Tracking from the main menu. From here you can enter new SN/Lot Numbers, edit existing records; or use a predefined query to locate and track specific records.

To track a range of serial numbers, select the Query By Serial Number option, enter the beginning and ending serial numbers. To track a specific serial or lot number enter the same number as both the beginning and ending numbers.

🗳 SN/Lot Tracking Vi	📽 SN/Lot Tracking View - By SN/Lot Number 💦 🔲 🗖 🔀						
Queries	By SN/Lot Number	~					
From SN/Lot Number							
To SN/Lot Number							
		Apply Close					

From the SN/Lot Tracking View:

The records displayed in the SN/Lot Tracking View depend on the query you select.

📽 SN/Lo	📽 SN/Lot Tracking View - All						
SN/Lot Tra	SN/Lot Tracking View - All 🔠 🚼						
Part Numb	er	Description	SN/Lot Number	Expiration Date	Maintenance Date	Warranty Date	
1 🕨	BP-3	Ring, Metal .250 diameter	11-18				
2	BP-4	Clip, Pocket Metal 1.5 inch	11-15				
3	BP-4	Clip, Pocket Metal 1.5 inch	11-16				
4	BP-4	Clip, Pocket Metal 1.5 inch	11-19				
5	BPP-100	Assembly, Ball Point Pen, Blue	21-9				
6	BPP-100	Assembly, Ball Point Pen, Blue	FEN-105				
7	BPP-x300	Custom Ball Point Pen, Red, S	55-21-4				
8	C-01	Assembly, Cartridge, Blue Ink	11-25				
9	C-01	Assembly, Cartridge, Blue Ink	22-61				
10	PL-01	Assembly, Plunger	FEN-105				
11	T-01	Tube, Plastic clear 3.25 inch	FEN-105				
					Edit	Close	

From here via the sidebar or Links button you can drill down or access related data; preview or print a serial/lot number tracking report.

From the Serial Number Locations Report

You may query and run the Serial Number Locations Report to identify the location of all inventory for a serial or lot number. You will be able to track which serial or lot number was received on which PO, and was then kitted to which Work Orders, and then completed into finished goods and were ultimately shipped on which customer orders. The report will list all stock locations, sub-assemblies and finished goods items containing that serial/lot number.

		Parts	Matching Your Se	arch criteria:				
		Part Nu Level	mber 14	SN/Lot Number L#090901	8			
			Inventory On H	land				
Part Number		N/Lot Number	9lookroom Coo	le Location	Qu	antity		
Leve II A	L	o 10 92501	QUAR	BURN	5	00.00		
Leve IIA	L	0092501	DAM	100		e5.00		
Leve B	L	01092501	SA-1	100		5.00		
Leve H	5	N03090001	PENS	100	100			
Leve H	SN03090007		PENS	100		1.00		
Leve H	5	N03090008	PENB	100	100		1.00	
Leve #	5	N03090009	PENS	100	100		1.00	
Leve H	5	ND3090010	PENB	PENS 100		1.00		
			Work in Proce	:00				
WO Number	Assembl	y Parl Numbe	ar SN/Lot Numb	er Completed	dQty Relea	sed Qty	Release Date	
WD 08090015	Level4	Level3	Lo1090303	1000		15.00	09/05/0003	
			Customer Loca	tions				
SO Number	Line	Part Number	\$N/Lot Number	Custome	r PO	Quanti	tγ	
5003090001 Blues	CO 1 Blue Star Supply	LENR 14	SN03090001 Jessica Schilling	(415) 223-9547 x231	(415) 223-5552	1.00 bluestar	Giasei	
90 03090001 8 LU 85	001 Bille Star Supply	Leve 14	SN63050002 Jessica con mig	(415) 223-95 F X231	(415) 223-5552	1.00 Direstar	@ IDJe1	
5003090001	001	Level4	SN03090003			1.00		

SN/Lot Locations

From the SN/Lot Production History Report

Blue Star Sumbly

001

Blue Star Supply

001

Blue Star Supply

Level4

Leve 14

BLUES

BLUES

BLUES

\$003090001

3003090001

By selecting a manufactured or subcontract part number and the lot number assigned to it, you will be able to track which serial numbers or lot numbers were kitted to this Work Order.

(415) 223-5547 x231

(415) 223-5547 x234

(415) 223-5547 x231

(415) 223-5552

(415) 223-5552

(415) 223-5552

blacs tarde la set

blestar@lase1

blees tar@ lase1

1.00

1.00

Jessica Schilling

Jess ica Schilling

Jess ica Schilling

SN03090004

SN03090005

					05702			
Part Humber	SHLot Humber	Quantity	Reference	Line Humber	Tran Group	Tran ID	Tran Type	Tran Date
B-01	Lot 03001	6, 100.00	1/000380082		2,254.00	2,392.00	CMP	09/24/2008
6P-4		5,100.00	1000030082		10.00	17.00	ют	03/31/2000
8P-3		5,100.00	1000033002		10.00	10.00	FDT	08/31/2000
BP-2		5.100.00	0/000363082		10.00	15.00	ы	06/31/2000
BP-1		6, 100.00	000080002		10.00	14.00	ют	00/31/2000

Cost Maintenance

There are two "primary" methods of maintaining your costs. One that is used for entering costs for "New" parts, and one used for changes and/or cost revisions on existing parts. Both methods are described below:

Entering Costs for New Parts

All part cost information is maintained on the Parts Costs tab on the Part Master form. Here you will enter and maintain the pending part costs for both new and existing parts. You can enter a Default PO Cost for purchased items and a list price for each part you intend to sell. You can additionally specify a Commission Rate, and Tax Code to be applied to a part.

Part Costs Tab

Standard Costs are generated by the Update Standard Costs utility along with the date of the last cost revision and the current inventory cost.

📽 Part Master			
Part Number	BPP-200	Revision	В
Description	Assembly, Ball Point Pen, Red	Inactive	
Engineering Notes MRP I	Planning Inventory Codes Part Co	osts Statistics	
Pending Costs		Standard Costs	
Material Cost	\$0.73	Std Material Cost	\$0.73
Labor Cost	\$0.11	Std Labor Cost	\$0.11
Burden Cost	\$0.00	Std Burden Cost	\$0.00
Setup Cost	\$3.00		
Setup Cost/EOQ	\$0.00	Std Setup Cost/EOQ	\$0.00
Subcontract Cost	\$0.00	Subcontract Cost	\$0.00
Total Pending Cost	\$0.85	Total Standard Cost	\$0.84
Default PO Cost	\$0.00	Cost Revision Date 7.	/14/2006 1:18:29 PM
Part Commission Flag		Current Inventory Cost	\$0.84
Part Commission Rate	0.05	List Price	\$1.25 Each
Taxable Flag		Tax Code	0.00
			OK Close

Average, Standard Costs and Current Inventory Cost along with other costs and prices entered here will be used in value calculations throughout the Alliance/MFG system and may be processed through an accounting link to your accounting package.

To enter Pending Costs:

Enter Pending Costs for Material, Labor, Burden, Setup, and subcontract costs associated with this part. The total pending costs will display at the bottom of the Pending Costs box. You can enter this information manually, or use the Cost Roll Up and Update Standard Costs functions (described later in this section).

Material Cost - This cost can be entered manually or for assemblies and subassemblies it can be calculated and entered by the cost roll up. Material Cost should be the cost of materials for a single part per stocking unit of measure. For example, if the unit of measure is feet, the material cost would reflect the cost for one foot of the part.

Buy Parts - The material cost is the cost you pay for each part. If you use an accounting link and receive a purchase order for an amount other than the Standard Cost, the appropriate variance (PPV) information will be generated. (See your Link documentation for more information.) All Buy parts should have an entry in this field.

Make Parts - The material cost can be manually entered here for an assembly or subassembly or calculated. The calculated cost on an assembly is entered when you run a cost roll up. This calculation enters the Total Cost of all the parts components (Total Cost = Material Cost + Setup Cost + Burden Cost + Labor Cost + Subcontract Cost) as the Material Cost of the assembly.

NOTE:

When you change the cost of a component used in an assembly, you must run a cost roll up on that assembly, to update the cost of the parent assembly.

Labor Cost - Enter the labor cost to make a single part, or run Update Labor Standards which will calculate the labor cost from the parts labor operations, and work center wage. See Update Labor Standards in CRP.

Burden Costs - The Burden Cost can be entered manually or calculated via the Cost Roll Up. The Burden Cost should be based on a single unit. It represents a portion of your total overhead amount to be added to the cost of this part.

Setup Cost - Enter the setup cost. When the system calculates the total unit cost (for one unit), it divides the setup cost by any Costing EOQ quantity.

Subcontract Cost - Enter the cost associated with the manufacture of one unit by a subcontract supplier. This may or may not include material issued by you.

Total Pending Cost - The System displays the sum of the Material, Labor, Burden, Setup, and Subcontract fields. (Setup cost is divided by the order quantity.)

Additional Part Cost Fields

Default PO Cost – Enter a current purchase price which will default to the Purchase Order cost when the part is entered as a PO Line Item.

Cost Revision Date – The system displays the last cost revision date.

Current Inventory Cost – The system displays the Current Inventory cost based on either the Average cost or the Standard Cost, depending on your costing method selection in the Preferences dialog box. See Setting Up Your Company, for more information about this setting.

Part Commission Flag and **Commission Rate** – Select the Part Commission Flag if the sale of the part is commissioned. This is for reference only. If you select the Commission Flag, enter the rate.

List Price – Enter the cost your customer will pay the next time this part is purchased from you.

Taxable Flag - Select Taxable Flag to indicate whether a part is taxable.

Tax Code - If you select the Taxable Flag and the Tax Code field is left blank, the tax rate on a Sales Order for this part will default to the tax rate defined in the ordering Customer's Address Maintenance record. If you use the Taxable Flag and enter a code, it will override the tax rate on the customer's record.

Cost Changes and Cost Revision Steps

- 1. Update the pending costs of all raw materials. Also update burden, setup and subcontract pending costs for manufactured parts (there is no need to update the material or labor costs on assemblies if you use the Cost Roll Up and Update Labor Standards functions).
- 2. Run a Cost Roll Up (either of the entire system, or on selected assemblies).
- 3. Review the cost changes using reports like the Standard Costed BOM and the Part Cost List reports).
- 4. Run the "Stockroom on Hand" report to get total dollars in each stockroom.
- 5. Run the Update Standard Costs routine to move the pending costs to the standard costs (this can be done on all parts or just on selected parts depending on the scope of your cost revision)
- 6. Re-run the "Stockroom on Hand" report to get the new dollar amounts for each stockroom.
- 7. Comparing the two copies of the "Stockroom on Hand" report you can see the effect that the cost revision had. Generally you will want to make an adjustment to your accounting system to account for this revision.

Once all parts costs are entered into the system via the Part Master, Part Cost tab; you can maintain costs for all parts via the Inventory>Cost Maintenance submenus. From here you can drill down to detailed cost information and, if necessary, go straight to the Part Master>Part Cost Tab to make changes.

Accessing Cost Maintenance Data

From the Inventory Menu

The main menu is your first access level. From here you can open a cost record for a specific part, view all parts, or use a predefined query to go to a specific part or range of parts.

From the Part Cost View

The records displayed in the Cost Maintenance View depend on the query you select.

Cost Ma	aintenance View - All							23) 📑 🛃 💡
Part Nu	mber	Description	Employee ID	Last Name	Department Code	ISC	OMC	ABC	Current Cost
1	B-01	Assembly, Barrel, Blue	55-JAT	Tierney	SUBS	М	P	A	\$0.23
2	B-02	Assembly, Barrel, Red	55-JAT	Tierney	SUBS	М	P	В	\$0.23
3	BP-1	Barrel, Top Half, Blue	50-JDD	Dorovsky		В	P	В	\$0.05
4	BP-2	Barrel, Bottom Half, Blue	50JDD	Dorovsky		B	P	В	\$0.05
5	BP-3	Ring, Metal .250 diameter	50JDD	Dorovsky		В	P	С	\$0.02
6	BP-4	Clip, Pocket Metal 1.5 inch	50-JDD	Dorovsky		В	P	C	\$0.02
7	BP-5	Barrel, Top Half, Red	50-JDD	Dorovsky		В	P	С	\$0.05
8	BP-6	Barrel, Bottom Half, Red	50JDD	Dorovsky		В	P	C	\$0.05
9	BPP-100	Assembly, Ball Point Pen, Blue	55-JAT	Tierney	ASSY	M	P	A	\$0.85
10	BPP-200	Assembly, Ball Point Pen, Red	55-JAT	Tierney	ASSY	М	P	A	\$0.84
11	BPP-x300	Custom Ball Point Pen, Red, Stamped with	55-JAT	Tierney	ASSY	M	J	A	\$1.19
2	C 01	Assembly Cartrides Blue lak	ONVEN	Maranka	CUDCON	c	D	I D	NC 04
							ſ	Edit	Close

From here you can add, edit, or delete a record; or via the sidebar or Links button you can drill down or access related data; preview or print a report.

Maintaining Standard Costs

Standard Costs are system generated and updated via the Update Standard Costs function, then displayed in the Standard Costs box. See Update Standard Costs.

Performing a Cost Roll Up

You can perform a Cost Roll Up at any time to calculate the total cost of an assembly or subassembly based on the total cost of it's components. See Cost Roll Up for additional details.

Cost Roll Up

You can perform a Cost Roll Up at any time to calculate the total cost of an assembly or subassembly based on the total costs of it's components. You can run a multiple Cost Roll Ups to test "what if" scenarios for engineering changes that introduce new parts to existing BOM's.

A Cost Roll Up will recalculate the cost of an assembly or subassembly regardless of the number of BOM levels involved or the type of cost field changed. You can update the costs of labor, material, burden, subcontract, or setup or perform an Annual Cost Revision. The total cost of a subassembly in a cost roll up is assigned to the material cost of the parent assembly.

NOTE:

If you need to isolate and display the total material, total labor, total burden, etc. for your end products use the Parallel Costed Indented BOM Report.

Understanding the Cost Roll Up Function

Part costs are rolled up from the lowest level components to the highest, all the way to your finished goods. All component level material, labor, set up, and subcontract costs are rolled up to the material cost of their parent assembly. If you manually change a material cost in an upper level assembly and then perform a cost roll up, costs at the lower level (which may not have been changed) will override your manual change!

How Cost Roll Up calculates a cost change

The following table shows how costs are rolled up through an assembly to calculate the total cost. The first table shows how costs roll up to a total cost of \$12.00 for one unit of BPP-100, with the total material cost of component B-01 at \$4.00.

			Material	Labor	Burden	Set up	Subcontract	Sub-total	TOTAL
BPP-100			10.00	1.00	.50	.50	0		\$12.00
	B-01		4.00						
		BP-1	1.00	0	0	0	0	1.00	
		BP-2	1.00	0	0	0	0	I 1.00 I	
		BP-3	1.00	0	0	0	O	1.00	(
		BP-4	1.00	0	0	0	0	1.00	
	S-01		3.00	0	0	0	0	3.00	
	Phantom		3.00	0	0	0	0	3.00	

Finished Good, BPP-100, Component B-01 total material cost = \$4.00, Total Cost = \$12.00

In this example, it is made up of three components: B-01, S-01, and a phantom part. B-01 is an assembly with four components (BP-1, -2, -3, and -4). The total material cost of B-01 is the sum of its components (\$4.00). S-01 and the Phantom part are each costed at 3.00.

The total material cost of BPP-100 is therefore the sum of the total material cost of B-01, S-01, and the Phantom part, as shown in the dotted line areas of the chart.

Additional labor, burden, and setup costs have been added at the highest level, for a total part cost of \$12.00.

The second table shows how changing the cost of the component B-01, by adding burden costs to its components, increases the total cost of B-01, which then rolls up to a material cost of \$5.00 and a total cost of \$13.00 for one unit of BPP-100.

When we run the cost roll up, the total cost of the component elements (material plus labor, burden, and set up for each component) rolls up into the material cost of the parent, B-01 to \$5.00. The cost of all the components of BPP-100 (B-01 + S-01 + the Phantom) roll up to its material cost, for a total of \$11.00. Labor, burden, and set up are added at the highest level for a total part cost of \$13.00.

			Material	Labor	Burden	Set up	Subcontract	Sub-total	TOTAL
BPP-100			11.00	1.00	.50	.50	0		\$13.00
	B-01		5.00						
		BP-1	1.00	0	.25	0	0	1.25	
		BP-2	1.00	0	.25	0	0	1.25	
		BP-3	1.00	0	.25	0	0	1.25	
		BP-4	1.00	0	.25	0	0	1.25	
	S-01		3.00	0	0	0	0	I 3.00 I	
	Phantom		3.00	0	0	0	0	3.00	

Using Cost Roll Up with CRP and Update Labor Standards

It is important to run Update Labor Standards BEFORE running a Cost Roll Up. See Capacity Requirements Planning, for more information on maintaining work centers and labor routers.

Performing a Cost Roll Up

Cost Roll Up will recalculate the cost of assemblies when any component costs have been changed, regardless of the number of BOM levels or the type of change. You can make changes to any parts material, labor, burden, subcontract, or setup cost field depending on the ISC type (make, phantom, subcontract, buy, or free/bulk). The total cost of a subassembly is assigned to the material cost of its parent assembly during a cost roll up. If you need more information about how the system performs a cost roll up, see the previous section.

CAUTION!

If you use either of the Average valuation methods, you must select the "Use Current Inventory Cost" box when performing cost roll ups.

A cost roll up is performed in these basic steps

- Identify and enter all component level cost changes in the Part Master record.
- Enter any labor changes to the labor routers and run Update Labor Standards (from the CRP Menu).
- Perform the Cost Roll Up for one or all parts.

Each step is described below:

1A. Identify component cost changes

Begin with the low level components. If your product is fairly simple, you may already know the low level components in the assembly. However, if you have complex multilevel products, you can print the Indented BOM report to identify the low level components in the assembly.

- 1. Select Products>Reports>Indented BOM.
- 2. Enter the part number for the affected assembly.
- 3. Preview or Print the Indented BOM report and review the components at all levels.
- 4. Select the appropriate components.

1B. Enter Changes in the Part Master, Part Costs tab

Parts costs are maintained via the Part Master data entry form, Part Costs tab, Pending Costs, see Entering New Part Costs, under Cost Maintenance.

From Inventory>Part Maintenance - If you're working in the Part Maintenance View, highlight the part number you want to change; click Edit, and select the Part Costs tab.

From the Inventory>Cost Maintenance - From the Cost Maintenance View list, select the part, and select Related View>Cost Details to review the current cost, material, burden setup, and subcontract costs. From here you can click the Edit button to open the Part Master and make your changes.

From the Products menu - If you know you are going to make changes to multiple component parts in an assembly, you can start from Products>Product Structure>Bill of Materials (by assembly). Then enter the assembly part number to open the Product Structure (BOM) View displaying all the component parts for the assembly. From here you can select a component, click Related Edits>Component Part Master.

Once you are at the Part Costs tab for the component selected, enter the change into the appropriate field or fields. If you need more information about entering costs in the Part Cost tab, see Entering New Part Costs, under Cost Maintenance.

After you change the part cost and click OK, the system returns you to the Product Structure list where you can continue to work your way through the components until all changes are entered.

2. Perform Update Labor Standards

The Update Labor Standards calculation multiplies the labor time for each labor router by the wage rate for the work center to determine the standard hours and labor cost to produce a single unit of each part. It also computes the setup cost by lot for each part. This information is updated in the Part Master Part Costs tab>Pending Costs.

Because updating labor standards changes standard hours and affects the basis by which setup and labor costs are calculated, it is important to update labor standards before performing a cost roll up.

To Update Labor Standards:

- 1. Make all necessary labor changes.
- 2. Select CRP>Update Labor Standards to open the Update Labor Standards dialog box.
- 3. Select which standards you wish to update; you can select one, two, or all types.
- 4. The message box displays progress and reports any failures, along with the steps to correct it.

📽 Update Labor Sta	ndar ds	
Update Setup Cost	~	
Update Labor Cost		
Update Standard Hours	✓	
		Update Ulose

When finished, the message box reports "calculation completed successfully."

See Capacity Requirements Planning, Labor Routers for more information.

3. Perform the Cost Roll Up

Select Inventory>Cost Roll Up to open the Cost Roll Up dialog box.

📽 Cost Roll Up				
Roll up all parts	•			
Roll up one part	O Part Numbe	1		
Roll Up Components			 	
Use current cost				
Bill of materials date	7 /24/2006 💌			
Calculate Burden Rates				
Make Part	0	Material Cost	Labor Cost	
		Setup Cost	Subcontract Cost	
Phantom Part	0	Material Cost	Labor Cost	
		Setup Cost	Subcontract Cost	
Subcontract Part	0	Material Cost	Labor Cost	
		Setup Cost	Subcontract Cost	
Buy Part	0	Material Cost	Labor Cost	
		Setup Cost	Subcontract Cost	
Free/Bulk Stock	0	Material Cost	Labor Cost	
		Setup Cost	Subcontract Cost	
			 	<u>^</u>
				~
]			Run Cost Roll	Up Close

You have the option to roll up all parts, or roll up a single part, sub-assembly or assembly. If you're rolling up a single part, you must enter the part number.

Select Roll up Components if you want to update the cost impact in all areas of the system. If left blank, the Roll up will show only incremental costs for the assemblies.

Select Use Current Cost if you wish to post current inventory cost into the Material cost. (Typically used with Average costing.)

If you wish to include Burden rates in your calculation, select Calculate Burden Rates. Use the check boxes to apply any Burden rates to Material, Labor, Setup, or Subcontract costs. (For more information about applying Burden rates to parts, see Calculating Burden Rates in the following section).

Update Standard Cost

Updating Standard Costs

Standard costs are maintained by the system and are not affected by Cost Roll Ups performed on Pending Costs. You will use the Update Standard Costs function to add standard costs for new parts or to modify/change the standard cost of a part when necessary or annually for a product cost revision.

Standard Costs are displayed by part number on the right side of the Part Master, Part Costs tab. The Total Standard Cost per part is derived from the total of Material, Labor, Burden, Setup, and Subcontract costs applicable to the part.

To Update Standard Costs

- 1. Select Inventory>Update Standard Costs to open the Update Standard Cost dialog box.
- 2. Select one of the following:

All Parts - This will update standard costs for all parts in the system.

New Parts - This will update all new parts. New parts are parts added to the Part Master since the last time you ran "Update Standard Costs". If required, be sure to update labor standards and perform a cost roll up prior to updating standard costs. Once a part has been updated it will no longer be considered new.

One Part - Enter the part number to update. Only this part will be updated.

🗳 Update	Standard Cost	
All Parts	\odot	
New Parts	0	
One Part	O Part Numb	
		<u>^</u>
		Update Standard Cost Close

Transaction History

Transactions

All movement of parts and materials in Alliance/MFG is recorded as an inventory transaction. Whether you receive parts form a supplier, ship parts to a customer, or simply move stock from one location to another, a transaction record will be created and posted to the Transaction History.

The Transaction History records every activity performed that affects the quantity or movement of inventory. This file records any transaction that causes an item's on-hand quantity in any stock location to increase or decrease.

NOTE:

If you use an Alliance Manufacturing Accounting Link, transactions will be passed through to your accounting package via this log. (See your Accounting Link documentation for more information about your particular product link.)

If you are a member of the EMU, the Transaction History stores information you need for Intrastat Reporting.

Accessing Transaction History data

Once you begin operating the system, it begins accumulating Transaction History. Alliance/MFG gives you several options to access the data.

From the Inventory menu

Select Inventory>Transaction History>All to open the Transactions View for all transactions, or use a predefined query to locate specific records.

From the Transactions View

The records displayed in the Transactions View depend on the query selected. The following sections describe the origin of data in each column.

🗳 Trans	📽 Transactions View - All								
Transactio	ns View - All						👪 📑 🕹 🌱	۵	
Tran Group	p	Tran Type	Tran Date	Reference	Audit Date/Time	Entered By	Invoice Number	-	
1	1	KIT	10/29/2005	P000080001	10/29/2005 10:41:18 AM	SUPERVISOR			
2	2	POR	10/29/2005	P000080001	10/29/2005 10:42:11 AM	SUPERVISOR			
3	3	POR	10/29/2005	P000080002	10/29/2005 10:42:40 AM	SUPERVISOR			
4	4	POR	10/29/2005	P000080003	10/29/2005 10:43:35 AM	SUPERVISOR			
5	5	POR	10/29/2005	P000080004	10/29/2005 10:44:07 AM	SUPERVISOR		-	
6	6	POR	10/29/2005	P000080005	10/29/2005 10:44:38 AM	SUPERVISOR			
7	7	POR	10/29/2005	P000080010	10/29/2005 10:58:44 AM	SUPERVISOR		-	
8	8	KIT	10/29/2005	P000080011	10/29/2005 12:22:30 PM	SUPERVISOR			
9	9	POR	10/29/2005	P000080011	10/29/2005 12:22:50 PM	SUPERVISOR		-	
10	10	KIT	10/29/2005	W000080002	10/29/2005 12:23:46 PM	SUPERVISOR		-	
11	11	KIT	10/29/2005	W000080003	10/29/2005 12:24:02 PM	SUPERVISOR			
12	12	KIT	10/29/2005	W000080004	10/29/2005 12:24:16 PM	SUPERVISOR			
	Edit Close								

Transaction View Column Definitions

Tran Group

The system assigns a sequential Transaction Group number to all simultaneous transactions. For example, when you Receive All on a purchase order with eight different line items, the transaction log assigns the same Transaction Group number to each part received in this transaction. The individual parts received will be assigned unique, sequential Transaction ID numbers, which you can see in the Transaction Detail View.

Tran Type

The transaction type is read from the transaction form where the transaction is recorded. For example, when you ship a purchase order, the Transaction Log records a SHP transaction type. When you kit a work order, the Transaction Log records a KIT transaction type. The following list defines the transaction types and source transactions for all transactions performed in Alliance/MFG.

Tran Type	Source and Description
KIT	Work Order Kit - This transaction will decrease the quantity of the material in inventory and increase WIP.
DKT	Work Order Dekit. This transaction will increase the quantity of the material in inventory and decrease WIP.
CMP	Work Order Completion. This transaction will increase the quantity of goods in inventory and decrease WIP.
UPR	Unplanned Receipt to Stock. This transaction will increase the quantity of goods in inventory.
UPL	Unplanned Issue from Stock. This transaction will decrease the quantity of goods in inventory.
REL	Relocation of Inventory. This transaction will not change the quantity of inventory on-hand; simply relocate it to a new stockroom or location.
PIP	Physical Inventory Positive Adjustment. This transaction will increase the quantity of an item in inventory.
PIN	Physical Inventory Negative Adjustment. This transaction will decrease the quantity of an item in inventory.
SHP	Sales Order Shipment. This transaction will decrease the quantity of goods in inventory.
RMA	Sales Order Return. This transaction will increase the quantity of goods in inventory.
POR	Purchase Order Receipt. This transaction will increase the quantity of materials in inventory.
RTV	Return to Vendor. This transaction will decrease the quantity of materials in inventory.

Audit Date/Time

The audit date and time is read from the input form when the transaction was recorded. This will be the time and date at the machine used to perform the transaction.

Reference

The reference is read from the input form used to perform the transaction. For example, a KIT transaction will display the related work order number.

Entered By

The Entered By is read from the login ID on the computer where the transaction was performed.

Tran Info

You can add up to 60 characters of additional information about the transaction in this field (you can record and track serial numbers here). This information will display on the Transaction Detail form.

Transaction Group and Detail Display

You can display Transaction Group and Transaction Detail in a form rather than a view. Select a Tran Group from Transactions View and select Display Transaction Header in the Related Views sidebar section to display the header form. All Transaction group information is displayed in the form. In addition, you can click the notes tab to add any information about the transactions.

📽 Transaction Header - Tra	insaction Group (11) 🔳 🗖 🔀
Transaction Group	11.00
Transactions Notes	
Transaction Group	
Transaction Type	КІТ
Transaction Date	10/29/2005
Audit Date	10/29/2005 12:24:02 PM
Reference	W000080003
Entered By	SUPERVISOR
Invoice Number	
	Close

Select Display Transaction Detail in the Related Views sidebar section to display the Transaction Detail View. There may be multiple detail records for the selected header.

🧳 Transaction Detail View - By Transaction Detail (11)									
Transaction Detail View - By Transaction Detail (11) 😽 🐻 🕹								é -	
Tran Date Tran Type Part Number				Quantity	Reference	Tran Group	Tran ID	From Dept	To Dept
1 🕨	10/29/2005	КІТ	BP-3	7,790.00	W000080003	11	18	RAW	SUBS
2	10/29/2005	KIT	BP-4	7,790.00	W000080003	11	19	RAW	SUBS
3	10/29/2005	KIT	BP-5	7,790.00	W000080003	11	20	RAW	SUBS
4	10/29/2005	KIT	BP-6	7,790.00	W000080003	11	21	RAW	SUBS
1									
									>
Edit Close							Close		
Transaction Detail View

Because the Transaction Log records all movement of inventory, it creates a very large body of data. Alliance/MFG gives you a number of options for narrowing the categories of data displayed from the Transaction Log.

📽 Tran	saction Deta	uil View - B	y Transaction	Detail (11)					
Transactio	n Detail View -	By Transactio	n Detail (11)					👪 📑 🧸	1
Tran Date		Tran Type	Part Number	Quantity	Reference	Tran Group	Tran ID	From Dept	To Dept
1 🕨	10/29/2005	KIT	BP-3	7,790.00	W000080003	11	18	RAW	SUBS
2	10/29/2005	KIT	BP-4	7,790.00	W000080003	11	19	RAW	SUBS
3	10/29/2005	KIT	BP-5	7,790.00	W000080003	11	20	RAW	SUBS
4	10/29/2005	КІТ	BP-6	7,790.00	W000080003	11	21	RAW	SUBS
1									
									>
							E	idit 📃 🗌	Close

Transaction Detail includes the part number and description, quantity, transaction ID, to and from department and location information; any SN/Lot numbers applicable; and cost information including the invoice cost, invoice line, if applicable. From here via the sidebar you can drill down or access related data; preview or print a report.

You can also display the Transaction Detail in a form rather than a view. Highlight a Transaction in the view and double click to display the Transaction Detail Form.

💣 Display Transacti	on Detail - Transaction II	D (18)	
Transaction ID	18.00	Line Number	
Transaction Group	11.00	Invoice Line	
Part Number	BP-3 Ring, Metal .250 diameter	SN/Lot Number	
Tran Info			
From Department	RAW	To Department SUBS	
From Location	100	To Location	
L			
Transaction Detail			
Quantity	7,790.00	UOM Conversion	1.00
PO Cost	\$0.00	SO Cost	\$0.00
Extended PO Cost	\$0.00	Extended SO Cost	\$0.00
WO Cost	\$0.00	Inventory Cost	\$0.02
Extended WO Cost	\$0.00	Extended Inventory Cost	\$186.96
			Close

Intrastat Reporting

If you do business within the European Monetary Union, the VAT (value added tax) feature will help you track payment and receipt of VAT by region/country and ICN Code. With this feature, you can print reports that summarize payments and receipts by country/region, commodity type, and vendor or customer. Once you enable and complete transactions in the system, you can access the Intrastat Reporting View from the Inventory>Transactions submenu. The following sections explain how to set up your system to use the Intrastat Reporting feature.

Intrastat Reporting Setup

VAT tracking is optional and will only be enabled when you set it up in Company Preferences. To use **Intrastat Reporting** Tracks Value Added Tax payments and receipts., you must first enable the feature, then tell the system what regions and countries you regularly deal with, what commodity types are used, enter region/country codes for suppliers and customers, and enter a VAT type for each part in your inventory. To do this, set up the following elements. (If you need more detailed information about setting up codes tables, see Setting Up Your Company.)

Enable Intrastat Reporting:

- 1. Select File>Company>Preferences.
- 2. Click the Accounting tab.
- 3. Select Require Intrastat.

Set up ICN Codes:

- 1. Select File>Codes>ICN Codes>New.
- 2. Enter ICN Codes and Descriptions for each material type you plan to sell or buy.

Set up Tax Codes:

- 1. Select File>Codes>Tax Codes.
- 2. Enter Tax Codes, Tax Rates, Description and Liability accounts for the regions you will do business with.

Set up the VAT Region/Country Code:

- 1. Select File>Codes>Region/Country codes.
- 2. Enter all regularly used regions and countries into the table.

Set up Intrastat Rates Codes:

- 1. Select File>Codes>Intrastat Rates>New.
- 2. Select the ICN Codes, Region Codes and Tax Codes that apply. These codes will now appear in tables for entry in Customer and Supplier data entry forms.

To set up a customer for VAT Reporting

- 1. Select Demand>Customer and whatever option you choose to open the Customers data entry form.
- 2. In the Customer tab, enter a VAT Registration number and VAT Branch ID.

3. In the Default Codes tab, enter a Region Code.

To set up a supplier for VAT Reporting:

- 1. Select Supply>Supplier and whatever option you choose to open the Supplier's data entry form.
- 2. In the Default Codes tab, enter a Region Code or double-click on the field to choose from the Region Code table.
- 3. Enter a VAT Registration #.

Set up the Inventory for VAT Reporting:

- 1. Open the Part Master data entry form for the part you wish to track.
- 2. Click the Inventory Codes tab.
- 3. Enter the ICN Code or use the hyperlink to select a code from the ICN Code View.

Using the Intrastat Reporting Feature

Once you have set up all Intrastat Reporting elements, the system is ready to access the data and record VAT values.

When you create a purchase order, the supplier's region code field will display the default setup for that supplier (this may be overridden at your discretion). The purchase order detail shows the tax rate for that region and the commodity type.

When you receive or return a purchase order, or ship or return a sales order, select Inventory>Transactions>Intrastat Reporting and select a date to review a summary of all transactions for Intrastat Tracking on that date.

💣 Intrastat Reporting	View - By Transaction Date	
Queries	By Transaction Date	*
Transaction Date	7/18/2006	•
	l.	Apply Close

From here via the sidebar or Links button you can drill down or access related data; preview or print a report.

Shortages

Shortages are created automatically by the system whenever available inventory is insufficient to fully kit a WO or subcontract PO. You can also manually create, edit, or delete shortages at your discretion. All shortages, whether generated by the system or created manually, can be reviewed from the Inventory>Shortages submenus.

To add a new PO Shortage:

Select Inventory>Shortages>PO Shortages>New to open a blank Purchase Order Shortages data entry form.

📽 PO Shortages	
<u>P0 Number</u>	P000080001
Line Number	001
Part Number	B-01
	Assembly, Barrel, Blue
Transaction Date	2 /10/2006
Quantity	10.00
UOM Code	EA Each
	OK Close

- 1. Enter a PO Number.
- 2. Enter the Part Number you wish to short.
- 3. The Transaction date will default to "today's" date, or you can use the calendar box to select a different one.
- 4. Enter a quantity for the PO shortage.
- 5. When you have completed your entries, do one of the following:
 - Click Save on the toolbar to save your entries and leave the form open.
 - Click OK to save your entries and return to the Shortages View.
 - Click Close to exit the form without saving.

To edit an existing PO Shortage:

- 1. In the Purchase Order Shortages view list, select a part to open the Purchase Order Shortages form for that part.
- 2. Change the information in the fields as described in the previous paragraphs.
- 3. When you have completed your entries, do one of the following:

Click Save on the toolbar to save your entries and leave the form open.

Click OK to save your entries and return to the Shortages View.

Click Close to exit the form without saving.

NOTE:

The shortage transaction is also available through the Work Order Kitting and Subcontract Purchase Order features. There, you may partially or completely relieve a shortage for specific orders. (See Supply, for more information about how shortages are created in WO and PO kitting.)

Accessing Data from the Shortages submenus

Once shortages are in the system, Alliance/MFG gives you a number of ways to access the data. You can create or review shortages for POs or WOs from the same menu.

From the Inventory Menu

Select Inventory>Shortages to access the Shortages submenus. From here you can go straight to a blank data entry form to create a shortage manually, review existing shortages, or use a predefined query to locate specific records.

From the PO Shortages View

The records displayed in the PO or WO Shortages View depend on the query you select.

* PO S	PO Shortages View - All											
PO Shortages View - All 🛛 👸 🗐 🕹 💎 🖓												
PO Number		Line Number	Part Number	Part Description	cription Short Date		On Hand Inv	UOM Code				
1 P000080001 001 B-01		Assembly, Barrel, Blue	2/10/2006	10.00	2,900.00	EA						
2	P005110004	002	CP-1	Ball Point	7/24/2006	110.00	15,000.00	EA				
3	3 P005110004 002 T-0		T-01	T-01 Tube, Plastic clear 3.25 inch		7/24/2006 110.00		EA				

From here you can add, edit, or delete a record; or via the sidebar or Links button you can drill down or access related data; preview or print a report.

From the WO Shortages View

The records displayed in the WO Shortages View depend on the query you select.

📽 WO	Shortages View	All					×
WO Sho	rtages View - All	20				🕌 🗏 🕹 💡	3
W0 Nur	mber	Part Number	Short Date	Quantity	UOM Code	Part Description	-
1	W000080003	BP-3	11/18/2005	2,210.00	EA	Ring, Metal .250 diameter	
2	W000080003	BP-4	11/18/2005	2,210.00	EA	Clip, Pocket Metal 1.5 inch	
3	W000080003	BP-5	11/18/2005	2,210.00	EA	Barrel, Top Half, Red	-
4	W000080003	BP-6	11/18/2005	2,210.00	EA	Barrel, Bottom Half, Red	
5	W005110001	BP-1	11/18/2005	2,000.00	EA	Barrel, Top Half, Blue	-
6	W005110001	BP-2	11/18/2005	2,000.00	EA	Barrel, Bottom Half, Blue	-
7	W005110001	BP-3	11/18/2005	2,000.00	EA	Ring, Metal .250 diameter	
8	W005110001	BP-4	11/18/2005	2,000.00	EA	Clip, Pocket Metal 1.5 inch	-
9	W005110002	B-01	11/22/2005	5,000.00	EA	Assembly, Barrel, Blue	
10	W005110002	C-01	11/22/2005	5,000.00	EA	Assembly, Cartridge, Blue Ink	~
<		-		1			
						Edit Close	;]

From here you can add, edit, or delete a record; or via the sidebar or Links button you can drill down or access related data; preview or print a report.

To create a new WO Shortage:

Select Inventory>Shortages>WO Shortages>New to open a blank Work Order Shortages data entry form.

🗳 Work Order Sho	rtages	
WO Number	✓ W000080002	
Part Number	✔ BP-1 Barrel, Top Half, Blue	
Transaction Date	7 /25/200 💌	
Quantity	20.00	
UOM Code	✓ EA Each	
		OK Close

- 1. Enter a WO Number.
- 2. Enter the Part Number you wish to short.
- 3. The Transaction date defaults to "today's" date, or you can use the calendar box to select a different one.
- 4. Enter a quantity for the shortage.
- 5. When you have completed your entries, do one of the following:

Click Save on the toolbar to save your entries and leave the form open.

Click OK to save your entries and return to the WO Shortages View.

Click Close to exit the form without saving.

To edit an existing WO shortage:

- 1. 1 In the Work Order Shortages View, select a part and click the Edit button to open the Work Order Shortages form for that part.
- 2. 2 Change the information in the fields as described in the previous paragraphs.
- 3. 3 Click Close, OK, or Save as appropriate.

NOTE:

The shortage transaction is also available through the Work Order Kitting and Subcontract Purchase Order features. There, you may partially or completely relieve a shortage for specific orders. (See Chapter 6: Supply for more information about how shortages are created in WO and PO kitting transactions.)

Negative Inventory

Negative Inventory allows Alliance Remote Data Collection System users additional flexibility when remotely performing kitting operations. This feature allows the RDC device user to kit component items found in inventory even if the current on-hand balance is less than the quantity kitted.

Example: A PO receipt for component XXX has not yet been entered into the system, but the Work Order requiring those components is being remotely kitted and component XXX is physically found and issued. Instead of rejecting the kit transaction back to the remote device user the transaction will be accepted and processed. The negative inventory table will record and track all RDC kitting exceptions for subsequent resolution. This allows the kit to be created, sent to the floor and work to begin while the exception is cleared later (by a supervisor?).

Negative Inventory

Select Inventory>Negative Inventory to open the Negative Inventory form.

When the Negative Inventory screen is first opened a toolbar icon is displayed above the window. To view and open the Negative Inventory menu item users must have Read rights. To enable and use the Update Inventory icon users must have Read/Write security rights.

🔗 Update Inventory

This form is used to view and cleanup negative inventory records. Negative inventory is created when a transaction "consumes" more inventory than exists in Alliance/MFG. The assumption is that these problems occur because inventory movements are recorded out of sequence (e.g. you kit before processing a receipt).

* Negative Inventory										
Inventory that was not avail	able at time of use							4	5 🖪 🕹	93
Part Number	Part Description	SN/Lot 1	Number (Quantity	UOM	Stockroom	Location	Job Number	Tran Date	Tran I
ter										
1	Chaok Ourontitu	Order Count		Endiant O	edae					/
	Stuck Quantity	Under Count		Eanlest						
Open Work Orders	0	0		00/00	1/00					
Open Purchase Orders	0	0		00/00	1/00					
Inventory On Hand	0	N/A	N/A							
<u>Transaction</u>	0	[Type]		00/00	/00					
					20					

When an RDC Kit line goes negative it is added to the Negative Inventory table. The system is allowing for paperwork processing lags and allows the employee performing the remote kitting function to complete the transaction. The first action should always be to click on the Update Inventory Toolbar. This will update the Inventory On Hand stock quantity and clear all negative records displayed in the view that were received and the transaction has since been posted.

If any Negative records remain;

Highlight a record in the view, the On Hand Inventory, all open work orders the part was kitted to, all open purchase orders for that part along with the actual kit transaction will be displayed on the bottom of the form. Click the associated hyperlink to expand the details and perform the necessary research to correct the exception.

* Negative Inventory									
Inventory that was not avai	83 🗐	🛃 💡 🍉							
Part Number	Part Number Part Description		N/Lot Numb	per Quantity	UOM	Stockroom	Location	Job Number	Tran Date
1 b B-01	Assembly, Barrel, Blue			1000	EA	SUBS	100		7/24/2006
 <		>							
	Stock Quantity	Order	Count	Earliest C)rder				
Open Work Orders	30400	1	7	11/21/2	2005				
Open Purchase Orders	0		0						
Inventory On Hand	2900	N/A	N//	Δ,					
Transaction	1000	KIT		7/24/2006 5:59	PM				

Open Work Orders – Opens View WO Header showing all open work orders for the selected part

Open Purchase Orders – Opens View PO Header showing all open purchase orders for the selected part

Inventory On Hand – Opens View Inventory Lots showing all inventory for the selected part

Transaction – Opens Display Transaction Detail queried by the selected transaction ID.

In this example click the Update Inventory button in the Toolbar and the negative condition should be corrected. If it does not correct the condition, more investigation is required. Verify the correct part was issued to the work order and that all work order completions or purchase order receipts have been processed. A cycle count may be required to correct the problem.

Physical Inventory

Physical Inventory and Cycle Counting

Some companies can perform a full physical inventory in one day or maybe over a weekend, unfortunately, others may require a plant shutdown for numerous days resulting in a costly interruption to business. Some companies have no alternative, other than a shutdown, due to external audit requirements, legal reasons, or simply unacceptable inventory accuracy. It is generally suggested that a full physical inventory verification be performed when first implementing Alliance/MFG or any other inventory control software.

You may be able to avoid additional annual plant shutdowns while maintaining or even improving your inventory record accuracy if your CFO and/or Company Auditors agree to accept periodic cycle counting (with a predetermined "acceptable" variance tolerance and counting schedule) in place of the full physical inventory.

Periodic cycle counting can be done using numerous methods. For example, you may plan to count all parts in inventory per a set schedule (monthly, semi-monthly, weekly, etc.) or you may want to count parts by commodity code, product code, source code, ABC Code, etc. You may elect to use the ABC Analysis to classify your parts based on either On-Hand Value, \$ Usage or Part Cost and count by classification (See ABC Analysis). The ABC Analysis will analyze and classify your parts based on the criteria you select. Additionally, it will update the Part Master ABC Code field with the assigned code. You might then establish a cycle counting schedule to count all of your A Parts quarterly, B Parts semi-annually and C Parts annually. The generate count tags feature can utilize the ABC code to generate tags based on your schedule. If the year-end variance recorded by the cycle counts is within the agreed to tolerance at year end, perhaps a costly plant shutdown can be eliminated.

Establishing Procedures

Before you begin, it is important to establish a detailed policy and procedure to support your Physical Inventory and Cycle Count functions, not only for your initial physical inventory validation, but for every count thereafter to ensure consistency and record accuracy. You must freeze all inventory movement during any physical inventory counting. Therefore, it is important to schedule your inventory counting period when it will have the least impact on your material movement (PO Receipts, WO Kitting, WO Completions, SO Shipments, etc.). Some steps, such as deciding whether to conduct a full physical or perform periodic cycle counting, and freezing inventory movement are external to Alliance/MFG and should be understood and initiated prior to conducting your actual inventory counting.

Initial Physical Inventory

During your initial implementation, you will want to perform a full physical inventory to validate your starting inventory balances. After you have entered all inventory data into the system, you can generate count tags, using the Full Physical method, and then perform a physical inventory.

NOTE:

You can use the Import/Export feature to import existing inventory data. See the Technical Reference for more information.

Recommended Physical Inventory Maintenance Procedure

Your counting procedure should be documented, approved by your CFO/Accountant and distributed to all employees involved with the counting.

1. Freeze all inventory movement (into and out of stockrooms).

- 2. Enter all outstanding transactions (receipts, issues, relocate, ship, kit, etc.) to bring your system current.
- 3. Select a Inventory Counting method (Full Physical or Cycle Counting).
- 4. Generate count tags. This action records the current inventory balance by part number, sn/lot number, stockroom and location for all items selected.
- 5. Perform counts. Employees physically note the quantity for each tag generated, and additionally verify the SN/lot number, stockroom and location for each part number.
- 6. Input counts (edit/review). Enter actual physical counts in the system.
- 7. Print variance reports. Variance reports tell you the difference between what the system currently shows and what the employees have physically counted.
- 8. Reconcile variances. Recount parts as necessary.
- 9. Back up the system.
- 10. Apply all counts. This updates your system inventory on hand with your reconciled physical count data on the current count tags.

Performing Inventory Counts

The following sections describe how to generate tags, assign tags to employees, record counts, enter tags and update inventory records using the Alliance/MFG Physical Inventory features.

NOTE:

The Assign Tags to Employee feature is also used by the Alliance RDC (Remote Data Collection) system to allocate and synchronize tags with employees utilizing Mobile Devices (PDA's).

Generating Count Tags

Tag Numbering

When generating inventory tags, Inventory>Physical Inventory>Generate Count Tags, the First Tag Number field will default to one number higher than the last tag generated. For example, if the last tag number generated was 123 then the First Tag Number will default to 124. You can change this number to any number you want as long as it is higher than the last tag number generated. There is an exception to this restriction if you are re-generating tags without applying the counts. Generating tags will delete any unapplied tags so you may enter the beginning number of the unapplied tags when the Generate Tags screen opens. If you would like to reuse old tag numbers you will first need to purge the existing tag file. Go to

File>Database>Import/Export and add a Mass Delete of the "Inventory Tags View" using the "All" query. Once all existing tags have been purged you can enter any first tag number on the Generate Count Tags screen.

CAUTION!

Always use extreme caution and backup your database prior to running any Mass Delete function.

To Generate Count Tags

Select Inventory>Physical Inventory>Generate Count Tags to open the Generate Count Tags dialog box.

Click the Re-query button on the Part List tab to query the Part Master file. You can limit your count tags to a specific part or range of parts. The queried parts will appear in the Part List tab on the right side of the dialog box. If you are performing a full physical count you may either select "All" from the query list or click the Full Physical button at the bottom of the screen. If you clicked the Full Physical button at the bottom of the screen. If you click will not appear on the right side of the screen. If you use ABC Codes to generate tags, click the ABC Tab.

🗳 Generate Coun	t Tags							×
Selected Parts			Part List A	3C				
Part Number	Description	^		C	-			
B-01	Assembly, Barrel, Bl		Re-query	Add all parts on	list			
B-02	Assembly, Barrel, Red			Part Number	ISC	OMC	ABC	~
BP-1	Barrel, Top Half, Blue		1	B-01	Make	Inc MRP	A	
BP-2	Barrel, Bottom Halt, Dina, Matal, 250 di		2	B-02	Make	Inc MRP	B	-1
DF-3 PD.4	Ning, Metal .200 u Clip, Pooket Metal		3	BP-1	Buy	Inc MRP	B	
BP-5	Barrel Top Half Bed		4	BP-2	Buy	Inc MRP	B	
BP-6	Barrel, Bottom Half,		5	BP-3	Buy	Inc MBP	1c	
BPP-100	Assembly, Ball Point	≣	6	BP-4	Buv	Inc MBP		
BPP-200	Assembly, Ball Point		7	BP-5	Buy	Inc MBP		
BPP-x300	Custom Ball Point P		8	BP-6	Buu	Inc MBP	1 6	
C-01	Assembly, Cartridge		9	BPP.100	Make	Inc MBP	1	
C-02	Assembly, Cartridge		10	011-100	Make	Inc MDD	<u>-</u> }	
CP-1	Ball Point		11	DEE	Make			
IN-UI IN-02	Ink, Blue		10	DFF-X300	Cut C		- <u>A</u>	
IN-02 IN-02	Ink, Rea Ink, Special Gold		12	0.00	SUDU		- B	
PL-01	Assembly Plynaer		13				- <u>B</u>	
PI-1	Tube Upper molde		14		Buy	Inc MRP	<u></u>	
PL-2	Tube, Lower molde		15	IN-01	Free	Inc MRP		
PL-3	Plunger, Metal .500		16	IN-02	Free	Inc MRP		
S-01	Spring, Metal .875 i	~	17	IN-x03	Free	Job	C	
	<u></u>	_	18	PL-01	Phtm	Inc MRP	C	
Liear Remove			19	PL-1	Buy	Inc MRP	В	
First tag number		31	20	PL-2	Buy	Inc MRP	В	
			71	loun	ln	here woo		-
Generate Zero Lounts								
								^
								~
								_
					Full Physical	CycleCount		

Select the parts to count. You may drag and drop individual parts from the list to the Selected Parts work area.

Click the Add all parts on list button to add the parts to the Selected Parts work area on the left side of the dialog box. Once you have added parts to the work area, you can use the buttons on the bottom of the Selected Parts area to further define which parts you wish to generate count tags for.

Buttons

Clear - Clears all selected parts from the left display box.

Remove – Highlight a part and select Remove to remove one part.

Add All Parts on List – This will include all parts from the Part List tab.

Add Parts from ABC – Adds any ABC parts you have defined in the ABC tab. Please see ABC counts later in this section for more information about performing ABC counts.

Select Full Physical to generate tags for all parts in your database. Non-inventory items, ISC = N (non-stock) or ISC = P (phantom assembly), will not be included.

Select Cycle Count to select the parts that you want to be counted during the current inventory period. Cycle counting intervals are determined by your company and can be performed as frequently as you like (daily, weekly, monthly, and so on).

The inventory tag system reviews all stockrooms and locations and creates a Tag # and detail information for every part added to the Selected Parts list.

Freeze all inventory movement

Once tags are generated, permit no material or parts movement (receipts or issues, for example) until the counting is complete. To ensure data integrity, a material cutoff procedure must be observed. If you receive a part after tags are generated and prior to counting that part, do not process or enter the receipt or the system will enter it twice: once as a receipt and once as a part of the count.

Pre-Assigning Count Tags to Counters

🗳 Inv	entory Tag	s								×
Invento	ry Tags			10			🔏 🕹 Assi	gn Counter	👪 🗏 🕹 💡	6
Tag Nu	mber	Count Quanti	Counter	Counted	Part Number	Part Number Part Description		Location	SN/Lot Number	-
1	000092	0			B-01	Assembly, Barrel, Blue	SA-1	100		
2	000093	0			B-02	Assembly, Barrel, Red	SA-1	100		
3	000094	0			BP-1	Barrel, Top Half, Blue	RAW	100		
4	000095	0			BP-2	Barrel, Bottom Half, Blue	RAW	100		
5	000096	0			BP-3	Ring, Metal .250 diameter	RAW	100		
6	000097	0			BP-4	Clip, Pocket Metal 1.5 inch	RAW	100		
7	000098	0			BP-5	Barrel, Top Half, Red	RAW	100		
8	000099	0			BP-6	Barrel, Bottom Half, Red	RAW	100		-
9	000100	0			BPP-100	Assembly, Ball Point Pen,	PENS	100		
10	000101	0			BPP-100	Assembly, Ball Point Pen,	PENS	100	FEN-105	
11	000102	0			BPP-200	Assembly, Ball Point Pen,	PENS	100		-
12	000103	0			BPP-x300	Custom Ball Point Pen, Re	PENS	200		
13	000104	0			C-01	Assembly, Cartridge, Blue	SA-2	100		
14	000105	0			C-02	Assembly, Cartridge, Red I	SA-2	100		-
15	000106	0			CP-1	Ball Point	RAW	100		
16	000107	0			IN-01	Ink, Blue	RAW	100		-
17	000108	0			IN-02	Ink, Red	RAW	100		
18	000109	0			IN-x03	Ink, Special Gold	RAW	200		
19	000110	0			PL-01	Assembly, Plunger	SA-1	100		-
20	000111	0			PL-1	Tube, Upper molded plasti	RAW	100		~
<										

Select Inventory>Physical Inventory>Edit/Review Counts

You can assign tags individually, one at a time, to an employee for counting or utilize the customization features built into the Inventory Tags Editable View to assign tags. If you want to assign tags to Counter 1, Counter 2 or John Doe, just type that name in the counter column.

NOTE:

The absence of validation on the "Counter" field allows your company to hire temporary employees to assist with Physical Inventory or assign generic counter designations if desired.

In the example below we will assign tags using the authorized employee list. First sort the newly generated tags into stockroom order by clicking on the Stockroom column header. File>Company>Employees>Detail Tab>Employee Functions> Inventory Accuracy checkbox is checked.

e° Inv	entory Tag	5							×	
Invento	ry Tags					🔒 💑 Assign Counter 🔮 📑 🔩 💡 🍺				
Tag Nur	mber	Count Quantity	Counter Count	ed Part Number	Part Description	Stockroom	Location	Frozen Quantity	-	
1	000053			S-01	Spring, Metal ,875 inch	ENG	сар	0.4799999999999		
2	000039	0		BPP-100	Assembly, Ball Point Pen,	PENS	100	200	Ĩ	
3	000040	0		BPP-100	Assembly, Ball Point Pen,	PENS	100	1400	1	
4	000041	0		BPP-200	Assembly, Ball Point Pen,	PENS	100	1000	t.	
5	000042	0		BPP-x300	Custom Ball Point Pen, Re	PENS	200	0	1_	
6	000033	0		BP-1	Barrel, Top Half, Blue	RAW	100	3999		
7	000034	0		BP-2	Barrel, Bottom Half, Blue	RAW	100	17900	j†	
8	000035	0		BP-3	Ring, Metal .250 diameter	RAW	100	10000	j i	
9	000036	0		BP-4	Clip, Pocket Metal 1.5 inch	RAW	100	10000	Ĵ	
10	000037	0		BP-5	Barrel, Top Half, Red	RAW	100	8310		
11	000038	0		BP-6	Barrel, Bottom Half, Red	RAW	100	5210	it i	
12	000045	0		CP-1	Ball Point	RAW	100	15000	Ĵ.	
13	000046	0		IN-01	Ink, Blue	RAW	100	2324	t	
14	000047	0		IN-02	Ink, Red	BAW	100	4168	t.	
15	000048	0		IN-x03	Ink, Special Gold	RAW	200	200	it i	
16	000050	0		PL-1	Tube, Upper molded plasti	RAW	100	8999	i i	
17	000051	0		PL-2	Tube, Lower molded plasti	RAW	100	12999	ĵ .	
18	000052	0		PL-3	Plunger, Metal .500 inch	RAW	100	7999	Ĵ,	
19	000054	0		S-01	Spring, Metal .875 inch	RAW	100	2400	T.	
20	000056	0		TR-01	Tubing, Clear Plastic, Full	RAW	100	2811.666666666	V	
<			1111					>		

The next step is to highlight the tags you want counted by the employee. We will select the tags associated with the stockrooms ENG and PENS by highlighting the first record, holding down the shift key, and highlighting the last record you want to assign to this employee. Highlighting is done by clicking in the row grid number column (far left side).

et In	ventory Tag	s							
Invent	ory Tags						🔏 💑 A:	ssign Counter	👪 📑 🕹 🖓 🔅
Tag Ni	umber	Count Quantity	Counter	Counted	Part Number	Part Description	Stockro	Location	Frozen Quantity
1	000053	0	1		S-01	Spring, Metal .875 inch	ENG	сар	0.4799999999999
2	000039	(1		BPP-100	Assembly, Ball Point Pen,	PENS	100	200
3	000040				BPP-100	Assembly, Ball Point Pen,	PENS	100	1400
4	000041				BPP-200	Assembly, Ball Point Pen,	PENS	100	1000
5	• 000042				BPP-x300	Custom Ball Point Pen, Re	PENS	200	0
6	000033	C	l		BP-1	Barrel, Top Half, Blue	RAW	100	3999
7	000034	C			BP-2	Barrel, Bottom Half, Blue	RAW	100	17900
8	000035	C	1		BP-3	Ring, Metal .250 diameter	RAW	100	10000
9	000036	C	1		BP-4	Clip, Pocket Metal 1.5 inch	RAW	100	10000
10	000037	C	1		BP-5	Barrel, Top Half, Red	RAW	100	8310
11	000038	C			BP-6	Barrel, Bottom Half, Red	RAW	100	5210
12	000045	C	i l		CP-1	Ball Point	RAW	100	15000
13	000046	C			IN-01	Ink, Blue	RAW	100	2324
14	000047	C			IN-02	Ink, Red	RAW	100	4168
15	000048	C	1		IN-x03	Ink, Special Gold	RAW	200	200
16	000050	C	6		PL-1	Tube, Upper molded plasti	RAW	100	8999
17	000051	C			PL-2	Tube, Lower molded plasti	RAW	100	12999
18	000052	0			PL-3	Plunger, Metal .500 inch	RAW	100	7999
19	000054	0			S-01	Spring, Metal .875 inch	BAW	100	2400
20	000056	C			TR-01	Tubing, Clear Plastic, Full	RAW	100	2811.6666666666
<		1		- Chillin			1	1	>

Next click on the Assign Counter icon Assign Counter in the grid header. This will display a list of all employees authorized to perform Inventory Counts.

🗳 Selec	📽 Select an employee 📃 🗖 🔀										
Employee I	ID	First Name	Last Name								
1 🕨	30-EWS	Elizabeth	Sorensen								
2	40-NAW	Nicolas	Weitz								
3	44-KNM	Kyle	Morgan								
4	80-EMH	Ellen	Hailey								
5	90-KEM	Katya	Marenko								
Cance	Cancel Select										

Double click or highlight the desired employee and click on the Select button. This will assign the selected inventory tags to the selected employee.

e° In	ventory Tag	ls.							
Invent	ory Tags						🔏 💑 As	sign Counter	🔠 📑 🕹 🌱 🍺
Tag N	umber	Count Quantity	Counter	Counted	Part Number	Part Description	Stockro /	Location	Frozen Quantity
1	000053	0	30-EWS		S-01	Spring, Metal .875 inch	ENG	сар	0.4799999999999
2	000039	0	30-EWS		BPP-100	Assembly, Ball Point Pen,	PENS	100	200
3	000040	0	30-EWS		BPP-100	Assembly, Ball Point Pen,	PENS	100	1400
4	000041	0	30-EWS		BPP-200	Assembly, Ball Point Pen,	PENS	100	1000
5	▶ 000042		30-EWS		BPP-x300	Custom Ball Point Pen, Re	PENS	200	0
6	000033	0			BP-1	Barrel, Top Half, Blue	RAW	100	3999
7	000034	0	1		BP-2	Barrel, Bottom Half, Blue	RAW	100	17900
8	000035	0			BP-3	Ring, Metal .250 diameter	RAW	100	10000
9	000036	0			BP-4	Clip, Pocket Metal 1.5 inch	RAW	100	10000
10	000037	0	1		BP-5	Barrel, Top Half, Red	RAW	100	8310
11	000038	0			BP-6	Barrel, Bottom Half, Red	RAW	100	5210
12	000045	0	1		CP-1	Ball Point	RAW	100	15000
13	000046	0			IN-01	Ink, Blue	BAW	100	2324
14	000047	0	Î		IN-02	Ink, Red	RAW	100	4168
15	000048	0			IN-x03	Ink, Special Gold	RAW	200	200
16	000050	0			PL-1	Tube, Upper molded plasti	RAW	100	8999
17	000051	0			PL-2	Tube, Lower molded plasti	RAW	100	12999
18	000052	0			PL-3	Plunger, Metal .500 inch	RAW	100	7999
19	000054	0	ŀ		S-01	Spring, Metal .875 inch	RAW	100	2400
20	000056	0			TR-01	Tubing, Clear Plastic, Full	RAW	100	2811.666666666
<			1				1	1	>

Notice that the Counter column is now filled in with the employee ID. Continue to highlight tags and assign them to employees until you are finished.

The Assigned Tags are now ready to be handed out to employees or synchronized with Mobile devices utilized in the RDC system.

e ^e Im	ventory Tag	s								×
Invento	ory Tags		1.5				🔏 💑 A:	ssign Counter	👪 🛅 🕹 🌱 🗧	3
Tag Nu	umber	Count Quantity	Counter	Counted	Part Number	Part Description	Stockro	Location	Frozen Quantity	
7	000034	0	40-NAW		BP-2	Barrel, Bottom Half, Blue	RAW	100	17900	
8	000035	0	40-NAW		BP-3	Ring, Metal .250 diameter	RAW	100	10000	
9	000036	0	40-NAW		BP-4	Clip, Pocket Metal 1.5 inch	RAW	100	10000	
10	000037	0	40-NAW		BP-5	Barrel, Top Half, Red	RAW	100	8310	
11	000038	0	40-NAW		BP-6	Barrel, Bottom Half, Red	BAW	100	5210	
12	000045	0	40-NAW		CP-1	Ball Point	RAW	100	15000	
13	000046	0	44-KNM		IN-01	Ink, Blue	RAW	100	2324	
14	000047	0	44-KNM		IN-02	Ink, Red	RAW	100	4168	
15	000048	0	44-KNM		IN-x03	Ink, Special Gold	RAW	200	200	
16	000050	0	44-KNM		PL-1	Tube, Upper molded plasti	RAW	100	8999	
17	000051	0	44-KNM		PL-2	Tube, Lower molded plasti	RAW	100	12999	
18	000052	0	44-KNM		PL-3	Plunger, Metal .500 inch	RAW	100	7999	
19	000054	0	44-KNM		S-01	Spring, Metal .875 inch	RAW	100	2400	
20	000056	0	44-KNM		TR-01	Tubing, Clear Plastic, Full	RAW	100	2811.6666666666	
21	000031	0	80-EMH		B-01	Assembly, Barrel, Blue	SA-1	100	2900	
22	000032	0	80-EMH		B-02	Assembly, Barrel, Red	SA-1	100	4210	
23	000049		80-EMH		PL-01	Assembly, Plunger	SA-1	100	0	
24	000055	0	80-EMH		T-01	Tube, Plastic clear 3.25 in	SA-1	100	10000	
25	000043		80-EMH		C-01	Assembly, Cartridge, Blue	SA-2	100	15000	
26	▶ 000044		80-EMH		C-02	Assembly, Cartridge, Red I	SA-2	100	6300	×
<									>	

Printing the Inventory Tags View

To print the above Inventory Tags View for distribution to employees:

- 1. Resize and move the columns to where they are easiest to read and understand. You can also hide (collapse) any column data you don't want the Counter to see (Frozen Quantity?).
- 2. Click on the Printer icon in Inventory Tags View grid header. See Alliance/MFG Window Types if you are not familiar with printing directly from data views.

Tag Numb	ber	Count Quanti	Counter	С	Part Number	Part Description	Stockro	Location	SN/Lot 🗠	Job Numb	F	٧٧
1	000031	0	80-EMH		B-01	Assembly, Barrel, Blue	SA-1	100			Π	Т
2	000032	0	80-EMH		B-02	Assembly, Barrel, Red	SA-1	100			T	T
3	000033	0	40-NAW		BP-1	Barrel, Top Half, Blue	RAW	100			T	T
4	000034	0	40-NAW	Γ	BP-2	Barrel, Bottom Half, Blue	RAW	100			ÎÌ	T
5	000035	0	40-NAW		BP-3	Ring, Metal .250 diameter	RAW	100			ÎÌ	T
6	000036	0	40-NAW		BP-4	Clip, Pocket Metal 1.5 inch	RAW	100			Î	T
7	000037	0	40-NAW		BP-5	Barrel, Top Half, Red	RAW	100			ÎÌ	Ĩ
8	000038	0	40-NAW		BP-6	Barrel, Bottom Half, Red	RAW	100			ÎÌ	Ĩ
9	000039	0	30-EWS		BPP-100	Assembly, Ball Point Pen	PENS	100			Ť	Ť
10	000041	0	30-EWS		BPP-200	Assembly, Ball Point Pen	PENS	100			Π	Τ
11	000042	0	30-EWS		BPP-x300	Custom Ball Point Pen, R	PENS	200			1	ī
12	000043	0	80-EMH		C-01	Assembly, Cartridge, Blu	SA-2	100			Π	T
13	000044	0	80-EMH		C-02	Assembly, Cartridge, Red	SA-2	100			Π	Τ
14	000045	0	40-NAW		CP-1	Ball Point	RAW	100			Π	Τ
15	000046	0	44-KNM	Γ	IN-01	Ink, Blue	RAW	100			\prod	Γ
16	000047	0	44-KNM	Γ	IN-02	Ink, Red	RAW	100			\prod	Γ
17	000048	0	44-KNM		IN-x03	Ink, Special Gold	RAW	200			\prod	Γ
18	000049	0	80-EMH		PL-01	Assembly, Plunger	SA-1	100			1	II.
19	000050	0	44-KNM		PL-1	Tube, Upper molded plas	RAW	100				T
20	000051	0	44-KNM		PL-2	Tube, Lower molded plas	RAW	100			Π	Τ
21	000052	0	44-KNM		PL-3	Plunger, Metal .500 inch	RAW	100			Π	T
22	000053	0	30-EWS		S-01	Spring, Metal .875 inch	ENG	сар			Π	T
23	000054	0	44-KNM		S-01	Spring, Metal .875 inch	RAW	100			Π	Γ
24	000055	0	80-EMH		T-01	Tube, Plastic clear 3.25 i	SA-1	100			\prod	
25	000056	0	44-KNM		TR-01	Tubing, Clear Plastic, Full	RAW	100			\prod	
26	000040	0	30-EWS		BPP-100	Assembly, Ball Point Pen	PENS	100	FEN-10	FEN-105	T	T

Printing the Count Tags Report

With the Inventory Tags Editable View open, click on the Print Tags hyperlink in the Related Links Sidebar, Actions section. This will open the following report. Click Print

le Count / P	hysical Invento	ory Tag - All				
9 K K	► H	1 / 8 🏾 😽	7 🛃 🎢 98% 🔽			
W						
Cycle C	ount / Physic	al inventory '	Гаg			
Tag #	Stockroom	Location	Part Number	Serial of Number	Job Number	
000002	SA-1	100	P.01	5 GIAINEOC HUMIDON	500 H (IIII) (I	
000082	34-1	100	Assembly, Barrel, Blue			
				Rev: A	UOM Code: EA	
Current In	wentory	2,900.00	Counted By	Count Quan	tity	
A						
Cycle C	ount/Physic	al inventory	lag			
Tag #	Stockroom	Location	Part Number	Serial/Lot Number	Job Number	
000093	SA-1	100	B-02			
			Assembly, Barrel, Red			
				Rev: A	UOM Code: EA	

Perform Counts

Freeze all inventory movement

Once tags are generated, permit no material or parts movement (receipts or issues, for example) until the counting is complete. To ensure data integrity, a material cutoff procedure must be observed. If you receive a part after tags are generated and prior to counting that part, do not process or enter the receipt or the system will enter it twice: once as a receipt and once as a part of the count.

Perform Counts

Have inventory counters physically count inventory and record quantities. Care should be taken to ensure accuracy. Enter the counts during the Edit/Review process below.

Reviewing and Editing Counts

Edit/Review Counts

Select Inventory>Physical Inventory>Edit/Review Counts to review the most recent count tags generated. The Inventory Tags Editable View allows editing directly in the grid. This replaces the old Inventory Tag Entry screen. Additionally you have all of the sorting, filtering, summarizing capabilities explained in the section on Alliance/MFG Window Types.

e" In	ventory Tag	S							
Invent	ory Tags						🔏 💑 Ass	ign Counter	🔮 📑 🕹 🌱 🎐
Tag Nu	umber	Count Quantity	Counter	Counted	Part Number	Part Description	Stockroom	Location	Frozen Quantity
1	• 000031	0			B-01	Assembly, Barrel, Blue	SA-1	100	2900
2	000032	0			B-02	Assembly, Barrel, Red	SA-1	100	4210
3	000033	0			BP-1	Barrel, Top Half, Blue	RAW	100	3999
4	000034	0			BP-2	Barrel, Bottom Half, Blue	RAW	100	17900
5	000035	0			BP-3	Ring, Metal .250 diameter	BAW	100	10000
6	000036	0			BP-4	Clip, Pocket Metal 1.5 inch	RAW	100	10000
7	000037	0			BP-5	Barrel, Top Half, Red	RAW	100	8310
8	000038	0			BP-6	Barrel, Bottom Half, Red	RAW	100	5210
9	000039	0			BPP-100	Assembly, Ball Point Pen,	PENS	100	200
10	000040	0			BPP-100	Assembly, Ball Point Pen,	PENS	100	1400
11	000041	0			BPP-200	Assembly, Ball Point Pen,	PENS	100	1000
12	000042	0			BPP-x300	Custom Ball Point Pen, Re	PENS	200	0
13	000043	0			C-01	Assembly, Cartridge, Blue	SA-2	100	15000
14	000044	0			C-02	Assembly, Cartridge, Red I	SA-2	100	6300
15	000045	0			CP-1	Ball Point	RAW	100	15000
16	000046	0			IN-01	Ink, Blue	RAW	100	2324
17	000047	0			IN-02	Ink, Red	RAW	100	4168
18	000048	0			IN-x03	Ink, Special Gold	RAW	200	200
19	000049	0			PL-01	Assembly, Plunger	SA-1	100	0
20	000050	0			PL-1	Tube, Upper molded plasti	RAW	100	8999 🗸
<	12	4	1	1		1	,		>

Entering counts via the Inventory Tags Editable View

Select a tag by clicking on the Tag Number field, tab into or double click the Count Quantity field. Enter the Count Quantity in the Count column. When you exit the Count field the Counted checkbox will automatically be checked by the system.

CAUTION!

If you entered a zero (0) in the count field you will need to manually check the Counted Box.

Tab to the Counter column, type the counter name (you can assign tags to Counter 1, Counter 2 or John Doe) in the counter column or enter the Employee ID or click on the eyeglass icon (right side of Counter column) to drill down to the authorized employee list. This will display a list of all employees authorized to perform Inventory Counts. File>Company>Employees>Detail Tab>Employee Functions> Inventory Accuracy checkbox is checked.

NOTE:

The absence of validation on the "Counter" field allows your company to hire temporary employees to assist with Physical Inventory or assign generic counter designations if desired.

In the example below we have entered tags for Counter 1 and are now using the authorized employee list to select counters.

o ^o Inve	ntory Tag	s									×
Inventory	Tags							🔏 💑 Assi	gn Counter	👪 🗏 🛃 💡	3
Tag Num	ber	Count Quanti	Counter	Counted	Part Nur	mber Part Description		Stockroom	Location	SN/Lot Number	-
1	000092	2900	Counter 1	~	B-01	Assembly, Barrel, Blue		SA-1	100		
2	000093	4200	Counter 1	v	B-02	Assembly, Barrel, Red		SA-1	100		-
3	000094	4000	Counter 1	~	BP-1	Barrel, Top Half, Blue		RAW	100		
4	000095	18200	Counter 1	~	BP-2	Barrel, Bottom Half, Blu	le	RAW	100		
5	000096	10000	Counter 1	V	BP-3	Ring, Metal .250 diame	eter	RAW	100		
6 1	000097	10000	Q		BP-4	Clip, Pocket Metal 1.5	inch	RAW	100		
7	000098	0			BP-5	Barrel, Top Half, Red		RAW	100	1	
8	000000	0			DD C	Denel Deller Half De	4	RAW	100	5	
9	📽 Selec	t an employe	e				en,	PENS	100		7
10	Employee I	D	First Name		l	Last Name) en,	PENS	100	FEN-105	-
11	1 🕨	30-EWS	Elizabeth			Sorensen	en,	PENS	100		
12	2	40-NAW	Nicolas			Weitz	Re	PENS	200		-
13	3	44-KNM	Kyle			Morgan	lue	SA-2	100		-
14	5	BU-EMH	Ellen			Halley	ed 1	SA-2	100		-
15		JUNEM	Kaiya					RAW	100		
16	Cance	1				Select		RAW	100	5	-
17	000108	0			IN-02	Ink, Red		RAW	100	2	-
18	000109	0			IN-x03	Ink, Special Gold		RAW	200	2	
19	000110	0			PL-01	Assembly, Plunger		SA-1	100		
20	000111	0			PL-1	Tube, Upper molded	plasti	RAW	100		-
<			jii]			-	>

Highlight the desired employee and double click on the row number in the grid or click on the Select button. The Variance Quantity and Variance Cost columns will be automatically updated when the actual count is entered.

When you have entered all of the counts and are satisfied the data is accurate, click on the Save button (always Save before Applying the count tags).

Creating a Tag for a part not on the Inventory Tags List

This method is used when counting is still in progress and tag counts have not been applied. With the Inventory Tags Grid open, click on the Create Tag hyperlink in the Related Links Sidebar, Actions section. This will open the following blank tag edit screen.

📽 Inventory Tags			
Tag Number Entered By <u>Part Number</u>	000031 SUPERVIS		
Stockroom Location SN/Lot Number Job Number Frozen Quantity Count Quantity Counted By		Freeze Date Counted?	7/19/2006 10:50:07 AM
			OK Close

- 3. The next sequential tag number will be defaulted to one number higher than the last tag generated.
- 4. The name of the person creating the new tag is defaulted.
- 5. Enter the Part Number, or use the hyperlink to select one from the Part Master View.
- 6. Enter the Department, Location, any SN/Lot Number or Job Number you want to count. Duplicate tags can not be generated for existing tags that have not been applied.
- 7. The Frozen Quantity will be defaulted to zero and then updated after you enter the part number, stockroom and location. You cannot edit this field.
- 8. Enter the Count Quantity.
- 9. Enter the Employee ID in the Counted By.
- 10. When you are finished, click OK to save your entries and exit the form.

Alliance RDC (Remote Data Collection)

If you are using the Alliance RDC with Mobile Devices

If you are using the Alliance RDC with Mobile Devices the count tags will be downloaded to the HHD (Hand Held Device) counted and then uploaded to Alliance/MFG via Microsoft ActiveSync and the data automatically updated and saved. See the Alliance RDC Users Guide for instructions on performing inventory counts with mobile devices.

NOTE:

Alliance RDC is not part of Alliance/MFG. It can be purchased separately from Account Management. See the Contacting Alliance section of the Alliance/MFG Help System.

Variance Analysis

After all counts have been saved you can use the Inventory Tags Editable View to reorganize, group, sort and summarize the variance amounts and costs by employee or in total as a company. You can reorganize and summarize for the current tags only or use the Drop Down List box in the Toolbar to select All Tags. Selecting All Tags will display all tags that have been applied since the last time tags were deleted (usually at fiscal year-end).

Print the Variance Report

The Variance report is a useful tool to ensure the physical count data is entered correctly before it is applied to your database. It displays both value and quantities for each part. Review the Variance Report carefully for any discrepancies. For example, if you missed entering a quantity for a Count Tag, the Inventory Quantity will show the quantity when count tags were generated and the Count Quantity will show zero. If you apply count tags as is, the system will adjust your inventory quantity to zero! To avoid this, be sure to review the Variance Report for such discrepancies and edit or recount as required before you apply the counts.

How Variances are Applied in the System

The Variance Report may show an inventory quantity of 100, with a physical count of 150. If you have verified that the physical count is correct, the system will reconcile this variance when you apply counts. The resulting transaction would be posted to the Transaction Log as a Physical Inventory Positive Adjustment (PIP). If the report shows the inventory quantity of 100 and the physical count is in fact 50, the system would reconcile this variance by posting a Physical Inventory Negative Adjustment (PIN) to the Transaction Log. Physical Inventory Adjustment Transactions are passed to your financial package if you purchased an Alliance/MFG Accounting Link.

To run a Variance Report:

Select Inventory>Reports>Physical Inventory>Variance Report>Current Counts. You can preview the report on screen or print a hard copy.

Apply Counts

When you are satisfied that the count quantity data in your count tags is correct, you are ready to apply the counts to your system inventory. This will update the quantity on hand values in your inventory records.

CAUTION!

Applying counts will make permanent adjustments to your on-hand inventory. We strongly recommend making a backup before applying your counts.

To Apply Counts

- 11. Backup your system using your standard procedures for backing up your Alliance/MFG database.
- 12. Select Inventory>Physical Inventory>Apply Counts.
- 13. Select a Department Code and Account Number to apply to your Variances.
- 14. Click Apply Counts. The system updates all inventory quantities for the count tags created.

WARNING:

The Count Quantity on an Inventory Tag overwrites the quantity field in the inventory lots table. Applying Counts with tags that were not counted will apply a count of zero. (The quantity on-hand will be adjusted to zero for that tag's part, stockroom, and location).

TIP:

ACCOUNTING FOR WIP DURING PHYSICAL INVENTORY

When you kit a work order, the raw materials (or component) parts are moved from the actual stockroom to the WIP account. You can view which items are in process from the Work in Process. View (select Shop>Work in Process, All, By Part Number or By Work Order.) Because "In-Process" parts are not truly their original part number, but not yet their finished goods part number, these parts are usually handled separately in the Physical Inventory process. They are valued as a raw materials part plus the value of the labor added to date. The Work in Process reports found under the Shop menu will help you determine the value of your WIP inventory.

ABC Analysis

You can analyze your entire parts inventory and classify all records in relative order of importance according to value definitions you decide. When you enter parts in the Part Master, you have the option to classify them as Highest Relative Value, Medium Relative Value, or Lowest Relative Value. You can also do this by running an ABC Analysis. You have the option to calculate either Year-To-Date Use, QOH Value, QOH Net Value, or Unit Cost. The analysis sorts your parts by the parameter (percent of parts) you set, and tells you how many A, B, and C parts make up that parameter.

This tool is useful to establish inventory handling policies based upon ABC analysis, and to help you focus action in the areas of highest return.

For example, an ABC analysis calculated by Unit Cost might show the following:

20% of the parts represent 80% of the value (A parts).

30% of the parts represent 15% of the value (B parts).

50% of the parts represent 5% of the value (C parts).

How ABC Analysis Calculates Value

ABC analysis multiplies the quantity by the cost, and sorts the part numbers in descending order by the resulting extended value.

🇳 By YTD Usage Value					
By YTD Usage Value By QOH V	/alue By QOH Net Va	alue By Unit Co	st	Per	cent of parts 5
Number of parts Percent of parts	s Percent usage	Minimum value	Number of A Parts	Number of B Parts	Number of C Parts
1 5	22.8011049036996	8891	1	0	0
3 10	60.6830218405395	6666	3	0	0
4 15	68.0624897645102	2878	3	1	0
6 20	80.0726686727846	1966	4	2	0
7 25	84.8186075285264	1851	4	3	0
8 30	86.9342773174242	825	4	4	0
10 35	90,7528433082854	664	4	6	0
11 40	92.4557395102487	664	4	7	0
13 45	94.791887735632	416	4	7	2
14 50	95.8176670272188	400	4	7	3
15 55	96.8434463188057	400	4	7	4
17 60	98.2180418584966	204	4	7	6
18 65	98.7411892972059	204	4	7	7
20 70	99.4998813063869	134	4	7	9
21 75	99.7819706115733	110	4	7	10
22 80	99.8948063336479	44	4	7	11
24 85	100	0	4	7	13
25 90	100	0	4	7	14
27 95	100	0	4	7	16
28 100	100	0	4	7	17
Displaying results Completed Successfully					×
Clear All Selections	A - Highest Relative Val	ue B - Medium	Relative Value	Lowest Relative Value	

In the example, we ran ABC Analysis using the YTD Usage Value. You can see that 20% of the parts comprise 77% of the value.

It is then a simple task to select the items based on value and assign them Highest, Medium, or Lowest Relative value. When you click Apply, these value breakdowns (highest, medium, and lowest relative value) replace any ABC values assigned in the Part Master.

Calculating ABC

When you calculate ABC, based on QOH Value for example, the ABC Analysis data form shows you the Number of parts, the Percent of parts, the Percent dollar usage, the Minimum dollar value; and then the number of A, B, and C parts in each category.

To calculate ABC parts:

- 1. Select Inventory>ABC Analysis. A blank ABC Analysis form opens.
- Set the Percent of parts you want the analysis displayed in (Top right side of window). In the example on the previous page, we set Percent of parts to "5," which groups parts in 5% increments. (See Setting the Percent of Parts Parameter, later in this section for more information about how this setting is used.)
- 3. Select the value you wish to calculate by: YTD Usage, QOH Value, QOH Net Value, or Unit Cost. The calculation runs, showing progress in the progress bar.

Applying ABC Values

You could arbitrarily apply ABC values for each part from the Part Master. However, you can use the ABC Analysis to calculate actual relative values based on YTD Usage, QOH Value, QOH Net Value, or Unit Cost. When you apply the values via the ABC Analysis function, they will override any manual ABC entries in the Part Master.

To apply relative ABC values:

- 1. Calculate ABC as described in the previous section.
- 2. Select the bottom line you wish to assign to the highest relative value group (A Parts).
- 3. Click the A Highest Relative Value button.
- 4. Continue to select lines and assign relative values until you have assigned Highest, Medium, and Lowest value to all the parts.

🗳 By YTD Usag	ge Value						×
By YTD Usage Va	alue 🛛 By QOH Val	ue By QOH Net Va	alue By Unit Cos	st	Per	cent of parts 5	~
Number of parts	Percent of parts	Percent usage	Minimum value	Number of A Parts	Number of B Parts	Number of C Parts	
1	5	22.8011049036996	8891	1	0	0	
3	10	60.6830218405395	6666	3	0	0	
4	15	68.0624897645102	2878	4	0	0	
6	20	80.0726686727846	1966	6	0	0	
7	25	84.8186075285264	1851	6	1	0	
8	30	86.9342773174242	825	6	2	0	
10	35	90.7528433082854	664	6	4	0	
11	40	92.4557395102487	664	6	5	0	
13	45	94.791887735632	416	6	7	0	
14	50	95.8176670272188	400	6	8	0	
15	55	96.8434463188057	400	6	8	1	
17	60	98.2180418584966	204	6	8	3	
18	65	98.7411892972059	204	6	8	4	
20	70	99.4998813063869	134	6	8	6	
21	75	99.7819706115733	110	6	8	7	
22	80	99.8948063336479	44	6	8	8	
24	85	100	0	6	8	10	
25	90	100	0	6	8	11	
27	95	100	0	6	8	13	
28	100	100	0	6	8	14	
							_
Displaying results Completed Succes	sfully						$\hat{\mathbf{v}}$
Clear All Selection	is A	- Highest Relative Val	ue B - Medium f	Relative Value C - I	Lowest Relative Value	Close	

Click the Save button on the toolbar, the new values will replace any values assigned to parts in the Part Master.

Setting the Percent of Parts Parameter

If you have a large number of parts, you can summarize your ABC parts list to simplify analysis. For example, if you have 1000 parts in your Part Master and enter 5 in the Percent of parts field, you will have 200 lines of data, rather than 1000 lines, each representing 50 of your parts. If you have 10000 parts and enter 5, you will still have 200 lines of data; however, each line will represent 500 parts. How you use this feature is dependent on what works best for your company.

Inventory Control Reports

The following reports are available from the Inventory menu. You can preview or print a report from a predefined query, or create a custom query to display specific information in an Alliance/MFG standard format. For more information about Alliance/MFG reports, see the Technical Reference.

Intrastat Reporting Part Cost List Part Status Stockroom on Hand Shortage Report Stockroom Locations Serial Number Locations Report Production History Report Transaction Reports Physical Inventory

Capacity Requirements Planning



CRP Menu Functions

This chapter describes how to create work centers for each production and cost center in your operation; how to create labor routers for each production step; and how to calculate CRP, Work Center Loads, and Update Labor Standards.

Capacity Requirements Planning Overview

Capacity Requirements Planning (CRP) can determine roughly how much time will be required in each work center to meet the demands planned by materials requirements planning. The Capacity plan created by a CRP run is "forward loaded"; it uses the start date and start quantity of planned orders and work orders, the defined capacities of your work centers, and detailed labor routers to calculate load. The CRP calculations results provide the information you need to evaluate whether to add personnel, add machines, reschedule customer orders, or let production continue according to plan.

You can set up Work Center capacities to include shifts and downtime; and Labor Routers can include individual labor operations such as setup, queue times, and *run time The standard hours allowed to produce one item on an operation. The actual time taken to produce one piece may vary from the standard but the latter is used for loading purposes. The work center efficiency factor is a comparison of actual versus standard run time.*

Once Work Centers and Labor Routers are set up, you can perform the following calculations:

Calculate CRP - Runs the calculations for capacity planning on the basis of the last MRP calculation (either full or top-level MRP).

Work Center Loads - Displays the results of the calculation, giving the production capacity and projected loads for each work center.

Update Labor Standards - Updates labor standards on manufactured or subcontracted parts that have labor routers established.

Successful CRP Planning comprises the following steps:

- 1. Review Work Centers and Labor Routers for accuracy.
- 2. Run the Calculate MRP function.
- 3. Run the Calculate CRP function.
- 4. Review Work Center Loads and take appropriate action.

Tasks described in these sections assume familiarity with the basic use of Alliance/MFG data lists, data entry forms, dialog boxes, queries, and finding and sorting features. If you need more information about how to use these features, review System Overview.

Work Centers

Work centers are specific production facilities or cost centers that may consist of one or more people and/or machines. You create a unique work center ID and define the capacity, default wage rate, and any burden costs you wish to apply for each work center. You can also define any number of shifts for a work center, and optionally enter a default labor account that will appear on all labor routers.

Entering new Work Center information

You can schedule work center capacity by shift-by-day, or schedule multiple shifts with different capacities. Enter Start and Stop times using a 24 hour clock. For example, two workers performing hand assembly from 8 A.M. to 12 noon would have a capacity of 480 minutes (240 minutes x 2 workers = 480).

To create a New Work Center:

Select CRP>Work Centers>New to open a blank Work Centers data entry form. At a minimum, you must enter a Work Center ID and a Capacity to create a valid work center.

📽 Work Centers		
Work Center ID	WC002	
Work Centers Work Center	Shifts	
Work Center Name	Pen Assembly	
Capacity	2,880.00	
Default Wage Rate	\$8.00	
Burden Cost	\$0.00	
Use Shifts		
Account Number	7325.00	
		OK Close

From here you can create any number of work centers and work center shifts.

Enter a Work Center ID, and continue to enter information in the Work Centers and Work Center Shifts tabs as described in the following sections.

Work Centers Tab

- 1. Enter a name for the work center. The Work Center ID and Name will appear on your Labor Routers.
- Enter the work center capacity in minutes per day. If you don't' use shifts, the days of the week the work center is open will default to the days your company is open, as specified in your company Preferences. If you use shifts, enter the start and stop times and days of the week the shifts will operate in the Work Center Shifts tab.

- 3. Enter a default wage rate that applies to this work center. If no wage rate is associated with an employee working in this work center, the system will apply this wage rate. If an employee working a labor router assigned to this work center is paid a different wage rate, their wage rate will override the default specified here.
- 4. You can supply a burden cost (information only).
- 5. If you plan to use shifts, select the Use Shifts box and define shifts in the Work Center Shifts tab (see the following section).
- 6. Enter an Account Number to associate costs of operating this work center with an account. This number will print on the Labor Router.

Work Center Shifts Tab

Click Work Center Shifts to display a list of all shifts defined for the work center.

📽 Work Centers								_ 🗆 🗙		
Work Center ID WC001										
Work Cer	nters	Work Cent	ter Shifts							
Add		Shift ID	Start Time	Stop Time	Capacity	Monday	Tuesday	Wednesday	Thursday	Friday
	1	AM	7:00:00 AM	4:00:00 PM	1,960.00	Yes	Yes	Yes	Yes	Yes
Edit	2	PM	4:00:00 PM	12:00:00 PM	1,960.00	Yes	Yes	Yes	Yes	Yes
OK Close										

From here you can add a new shift or exit an existing one.

To Add a Work Center Shift:

Click Add on the left side of the form to open a blank Work Center Shifts data entry form. The Work Center ID displays in the header.

📽 Work Center Shif	ts		
Work Center ID	WC001	Shift ID	РМ
Vork Center Shifts	Shift Downtime		
Capacity		1,960.00	
Start Time	🖌 💽 4 :00:00 PM	* *	
Stop Time	12:00:00 PM	* *	
Scheduled Work Days	:		
Monday		Friday	
Tuesday		Saturday	
Wednesday		Sunday	
Thursday			
			Close

- 1. Enter the Capacity in minutes per day.
- 2. Enter the Start Time for the shift.
- 3. Enter a Stop Time for the shift.
- 4. Select the days of the week the shift will operate.
- 5. From here you can continue to click Add to define as many shifts as you need for this work center.
- 6. When you are finished, click Close to save your entries and return to the Work Centers Shifts tab. The new shifts display in the body of the tab.
- 7. When all entries are complete, do one of the following:

Click Save on the toolbar to save your entries and leave the form open.

Click OK to save your entries and exit the form.

Click Close to exit the form without saving.

To Edit a Work Center Shift:

- 1. From the Work Center Shift tab, select a shift and click Edit on the left side of the form. The Work Center Shifts data entry form opens.
- 2. Edit the information as required.
- 3. Click Close to return to the Work Centers form.

4. When all entries are complete, do one of the following:

Click Save on the toolbar to save your entries and leave the form open.

Click OK to save your entries and exit the form.

Click Close to exit the form without saving.

Shift Downtime

You can inform the system when a work center shift will be down. Its available capacity will not be considered in a CRP run covering the downtime period. Provide a brief explanation, such as machine calibration or maintenance. You need not schedule downtime for days your company is normally closed.

Defining Work Center Shift Downtime

Click the Shift Downtime tab on the Work Center Shifts data entry form. The Work Center Shifts display in the body of the tab. From here you can Add or Edit downtime information.

📽 Work	c Cen	ter Shifts				
Work Center ID			WC001	Shift ID	F	РМ
🖌 Work	Cent	er Shifts Shift	Downtime			
Add		Work Center I) Shift ID	Date	Reason Down	
Edit	1	WC001	PM	12/13/2005	Physical Inventory	
Delete						
						Close

To Add or Edit a Shift Downtime:

Select a shift and click Add or Edit to open the Shift Downtime data entry form. The Work Center and Shift ID's display for the shift selected.

📽 Shift Downtime		
Work Center ID	WC001	
<u>Shift ID</u>	PM	
Date	12/13/200 💌	
Reason Down	Physical Inventory	
		Close

- 1. The Date defaults to "today's" date; you can use the calendar box to change it, if needed.
- 2. Enter the reason the shift will be down.
- 3. Click Close to exit the form and return to the Work Center Shifts, Shift Downtime tab.
- 4. When all entries are complete, do one of the following:

Click Save on the toolbar to save your entries and leave the form open.

Click OK to save your entries and exit the form.

Click Close to exit the form without saving.

To restore the work center from downtime:

- 1. From the Work Center Shifts tab, select the Work Center Shift that is down.
- 2. Click Edit.
- 3. Click the Shift Downtime tab.
- 4. Select the line that defines the downtime.
- 5. Click Delete. A trash can icon appears next to the line.
- 6. Click Close.
- 7. When all entries are complete, do one of the following:

Click Save on the toolbar to save your entries and leave the form open.

Click OK to save your entries and exit the form.

Click Close to exit the form without saving.

Accessing Work Center information

Once all work centers are created, Alliance/MFG gives you several options for accessing the data.

From the CRP Menu

Select CRP>Work Centers from the main menu. From here you can open a blank Work Centers data entry form, open the Work Centers View for any or all work centers in the system, or use a predefined query to access a specific record.

From the Work Center View

The records displayed in the Work Centers View depend on the query you select.

📽 Work Centers View - All								
Work Cent	Work Centers View - All 🛛 🐇 🛒 💐 💎 🍺							
Work Cen	ter ID	Work Center Name	Use Shifts	Capacity	Labor Rate	WC Account Number		
1 🕨	WC001	Stockrooms/Kitting		0	\$9.00	7325.00		
2	WC002	Pen Assembly		2880	\$8.00	7325.00		
3	WC003	Component Assemb		5760	\$8.00	7325.00		
4	WC004	Pen Test		480	\$8.00	7325.00		
5	WC005	Sub-Contract		1960	\$12.00	7265.00		
6	WC006	Cutter Machine		480	\$8.00	7325.00		
7	WC007	Ink Stamping		480	\$9.00	7325.00		
	Edit Close							

From here you can Add, Edit, or Delete a record; or via the sidebar or Links button you can drill down or access related data; preview or print a report.

Labor Routers

The labor routers describe each operation performed on your company's manufactured parts. These operations may include kitting parts, inspections, testing, assembling, drilling, polishing whatever processes are performed in the work center. You can include notes that describe tools that may be required, special operating instructions, machining tolerances, JSA's, and so on. Notes can be added to operations as work instructions. They will not print on the Labor Router, but will print on the WO Traveler.

The Labor Router contains information about the per-piece time to perform each operation, such as fixed Queue Time, Setup Time, and Run Time. CRP considers these times to determine capacity requirements.

NOTE:

You must create work centers and operations codes before you can create labor routers. Work centers were discussed in the preceding section. Operations codes are set up in your company codes tables (see Chapter 2: System Overview for more information).

Creating Labor Routers

Labor routers define each sequence in an operation to manufacture a part. Here you assign an operation code and the work center where the operation is performed; and specify the queue time, setup time, and run time it takes to perform the operation. CRP calculates the time for each sequence in the operation to create the Work Center Load report.

To Create a New Labor Router:

Select CRP>Labor Routers>New to open a blank Routers data entry form.

📽 Routers				
Part Number	8		Revision:	
Sequence ID		0		
Alternate				
Routers Notes				
Work Center ID	8	Account:		
Operation Code				
Queue Time		0		
Setup Time		0		
Run Time		0		
				OK Close

- 1. Enter a part number or use the hyperlink to select one from the Part Master View.
- 2. Enter a unique Sequence ID for this step to indicate its order in the process.
- 3. Specify an Alternate sequence number, if applicable. This can represent a back-up machine or process used in case of a breakdown or overload (see Chapter 5: Supply, Work Order for more information).

Routers Tab:

- 1. Enter a Work Center ID or use the hyperlink to select one from the Work Centers View. The account number assigned to the work center displays to the right of the Work Center field, and its description displays below the field.
- 2. Enter an Operation Code. This is a code defining the a step in the manufacturing process. Enter an operation code or use the hyperlink to select one from the Operation Codes View
- 3. Enter a Queue Time in minutes-per-run to represent the total time a lot waits at this labor operation. Queue time is non-costed; however, it is used by CRP to help in determining when an operation actually begins. Some examples of queue time are cooling, paint drying, transit, and to allow for backlog. Queue time does not consume capacity in CRP.
- 4. Enter a Setup Time in minutes-per-run to represent the amount of time it takes to set up a lot at this operation. Setup Time is used to calculate the setup cost in the inventory master. Setup time consumes capacity in CRP.
- 5. Enter a Run time in minutes-per-unit to represent the amount of time it takes to produce one part at this operation. Run Time is used by the Update Standards calculation to calculate the labor cost for this part.
- 6. When all entries are complete, do one of the following:

Click Save on the toolbar to save your entries and leave the form open.

Click OK to save your entries and exit the form.

Click Close to exit the form without saving.

NOTE:

Only primary sequence ID's are used for costing and by the CRP calculation. Alternates are for information only and are bypassed.

Copying Labor Routers

Often labor routers for different part numbers will be nearly identical. You can save time by copying a set of labor operations from one part to another. If you copy a router to a part that already has a router it will append the new operations.

To Copy a Labor Router:

- 1. From the CRP menu, select Labor Routers>Copy Router. The Copy Router dialog box opens.
- 2. Enter a part number or click the From hyperlink to display the Part Master View for all parts with labor routers defined.
- 3. Select a part. At this point you could click Labor Router From in the Related Views section of the sidebar to review the Labor Router for this part.
- 4. Enter a part number or click the To hyperlink to select a part from the Part Master View to copy the Labor Router to.
- 5. Click Copy.
- 6. Click View to review your new labor router. You can add, edit, or delete operations codes as needed to complete the router.
- 7. Click Close to exit the form.

Accessing Labor Routers Data

Once Labor Routers are added to the system, Alliance/MFG gives you several options for accessing data.

From the Labor Routers Submenus

Select CRP>Labor Routers from the main menu. From here you can open a blank Labor Routers data entry form or use a predefined query to access a specific record.

From the Labor Routers View

The records displayed in the Labor Routers View depend on the query selected.

📽 Labor Routers View - All 📃 🗖 🔀									
Labor Rou	.abor Routers View - All 🛛 😽 🐻 🕹 💡 🍉								
Part Number Sequence		Sequence ID	Operation Code	Description	Work Center ID				
1 🕨	B-01	100	100-0002	Kit Parts, Issue to Assembly	WC001	H			
2	B-01	200	200-0006	Install Clip to Barrel Top	WC003	ĺ			
3	B-01	300	300-0004	Insert Ring	WC003				
4	B-01	400	400-0001	Assemble Barrel	WC003	ĺ			
5	B-02	100	100-0002	Kit Parts, Issue to Assembly	WC001				
6	B-02	200	200-0006	Install Clip to Barrel Top	WC003				
7	B-02	300	300-0004	Insert Ring	WC003				
8	B-02	400	400-0001	Assemble Barrel	WC003				
9	BPP-100	100	100-0002	Kit Parts, Issue to Assembly	WC001				
10	BPP-100	200	200-0003	Dis-assemble B-01	WC002				
11	BPP-100	300	300-0003	Insert Plunger, Ink Cartridge	WC002				
12	BPP-100	400	400-0003	Test Ink Flow	WC004				
13	BPP-200	100	100-0002	Kit Parts, Issue to Assembly	WC001				
14	BPP-200	200	200-0004	Dis-assemble B-02	WC002				
15	BPP-200	300	300-0003	Insert Plunger, Ink Cartridge	WC002				
16	BPP-200	400	400-0003	Test Ink Flow	WC004	~			
<					>				
					Edit Close				

From here you can Add, Edit or Delete a record; or via the sidebar or Links button you can drill down or access related data; preview or print a report.

Calculate CRP

CALCULATING CRP

Capacity Requirements Planning is a rough-cut planning tool. It analyzes the capacity for each work center versus the planned work load. The resulting calculation determines the production load in each work center as a percentage of its total capacity.

CRP uses the output from the most recent MRP Run as the basis for calculation. If MRP was run for Top Level only, CRP will calculate top level only. To calculate CRP for all levels, run MRP for all levels before calculating CRP. To get a true picture of your capacity requirements, it is important to run MRP before running CRP.

How CRP Calculates Capacity

CRP considers the release date of a work order, the start date of MRP planned orders, and the Labor Router for the part. Beginning with the first labor operation to be defined, it posts it at the beginning of the first available shift on that day for that work center. It posts the queue time and setup time. It then multiplies the start quantity on the order by the runtime per unit, and posts the run time for this operation. If it reaches the end of a shift, it rolls to the next shift. If the labor operation is complete before the shift is over, it uses the remaining time on the next labor operation in that work center.

When an operation is complete, CRP moves to the next operation. If it's in the same work center, it uses up the remaining shift before rolling into the next shift.

CRP assumes infinite capacity. If multiple work orders are scheduled to enter a work center on the same day, CRP does not post the orders separately. They all move through the work center beginning at the first shift. It then considers the total minutes used compared to the capacity defined in the Work Center data entry form to calculate the percentage load.

To Run CRP

- 1. Ensure that your Work Center and Labor Routers are accurate.
- 2. Run MRP to ensure all transactions are up to date and work orders are scheduled.
- 3. Select CRP>Calculate CRP. The Calculate CRP dialog box is a simple message box that will report when the operation is complete.
- 4. Click Calculate CRP.



Review the Work Center Loads (see Work Center Loads).

Keep in mind that CRP is not finite scheduling. It does not reschedule work center loads for you; it simply shows you the percentage of capacity in a work center on a given day. It's up to you to decide whether to add shifts, personnel, or to reschedule work orders to level the loads.

Work Center Loads

CRP calculates a load for each work center defined, considering existing shop orders and planned orders. The Work Center Loads View is a display only list that shows the results of the latest CRP calculation for each work center; whether labor is scheduled for that work center; and if the work center is over capacity. From here, you can select a work center and review the Load Date, Load %, and Capacity for that work center. Some days may show significantly more than 100% load, while others may show well under capacity. With this information, you can decide whether to reschedule work orders to "level" the load.

Viewing Work Center Loads

After running the CRP calculation, select CRP>Work Center Loads to open the CRP Header View, which lists all work centers defined in the system, whether or not labor is scheduled for a work center, and if the work center is over capacity.

📽 CRP H	leader - All				(×
CRP Heade	er - All	6 3		3	Ŷ	٢		
Work Cent	ter ID	Labor Scheduled?	Over Capacity					
1 🕨	WC001		✓					
2	WC002							
3	WC003							
4	WC004							
5	WC005							
6	WC006							
7	WC007							
				Edit		C	Close	

To View the Work Center Load Summary:

From the CRP Header View, select a work center and double click to display the work CRP Summary By Work center ID for that work center. This View breaks down the work center load by day so you can easily see which day the work center is over capacity and by what percent.

📽 CRP S	iummary - By \	Work Center	ID (WCOO	02)					
CRP Summary - By Work Center ID (WC002) 🛛 😽 📓 🔩 🌱 🍉									
Work Center ID Start Date Load % Capacity									
1 🕨	WC002	7/25/2006	481	13	,857				
2	WC002	7/26/2006	344	9.	,931				
3	WC002	7/27/2006	264	7.	,620				
4	WC002	7/28/2006	200	5,	,760				
5	WC002	7/31/2006	200	5,	,760				
6	WC002	8/1/2006	129	3.	,720				
7	WC002	10/2/2006	100	2.	,880				
8	WC002	10/3/2006	21		620				
					Edit		Close		

From here you can drill down to additional details of the work order and operations responsible for creating the load.

Update Labor Standards

The Update Labor Standards calculation multiplies the labor time from each labor router by the wage rate from each work center to determine the standard hours and labor cost to produce a single unit of each part. It also computes the setup cost by lot for each part. This information is updated in the Part Master Part Costs tab.

Cost Roll up and Updating Labor Standards

Because updating labor standards changes standard hours and affects the basis by which setup and labor costs are calculated, it is important to update labor standards before performing a cost roll up. See Chapter 8: Inventory Control, Cost Roll Up for more information.

To Update Labor Standards:

- 1. Select CRP>Update Labor Standards to open the Update Labor Standards dialog box.
- 2. Select which standards you wish to update; you can select one, two, or all types.
- 3. The message box displays progress and reports any failures, along with the steps to correct it.

📽 Update Labor Stand	lards	
Update Setup Cost	Image: A start of the start	
Update Labor Cost		
Update Standard Hours		
Update Labor Standards Completed Successfully		
		<u>×</u>
		Update Close

When finished, the message box reports "calculation completed successfully."

CRP Reports

The following reports are available from the CRP menu. You can preview or print a report from a predefined query, or create a custom query to display specific information in an Alliance/MFG standard format. For more information about Alliance/MFG reports, see the Technical Reference.

Labor Router

Work Center Listing

Work Center Loads

Shop Floor Control



Shop Floor Menu Functions

Shop Floor Control is a system for utilizing data from the shop floor as well as data processing files to maintain and communicate status information on work orders and work centers. This information facilitates the calculation of job costing and accounting information. It gives you constant feedback on your labor distribution and work-in-process so you can adjust your plan to meet your needs. Labor reports provide data such as hours by work order and employee, and labor and scrap costs. Once labor routers have been defined and work orders entered, you can track and generate reports for labor distribution and work in process. Enter actual labor and operations completed on each work order; or actual labor and operations completed by each employee.

You can review work-in-process by part number or by work order; including the cost of materials and scrap applied to each work order.

Shop related reports include labor distribution, labor utilization, production backlog, and work in process.

Tasks described in this section assume familiarity with the basic use of Alliance/MFG data lists, data entry forms, dialog boxes, queries, and finding and sorting features. If you need more information about how to use these features, review System Overview.

Labor Distribution

Alliance/MFG uses labor router information entered for each part, employee hours, and wage rates to create labor distribution. Labor Distribution reports each employee's labor contribution to a work order—the actual number of hours worked on a particular job and quantity completed—to provide a calculation of actual direct labor.

Each labor entry will be assigned a unique Labor ID.

Detailed labor transactions are retained in the system until the work order is deleted. When you delete a work order, all labor data for that work order is deleted. When you close a work order, the Labor Distribution View no longer displays the data; however, you can still access it through the reports. (See Shop Reports at the end of this chapter for more information about shop reports.)

Reporting Labor

To report labor against a work order:

Select Shop>Labor Distribution>New to open a blank Labor Distribution data entry form.

📽 Labor Distribution				
W0 Number	W000080003	Part Number	B-02	
Labor ID	1		Assembly, Barrel, Red	
Employee ID	44-KNM			
	Morgan, Kyle N			
Start Date	🔽 10/29/2005 9:31:15 AM 💌	Job Number		
Sequence ID	100	Kit Parts, Issue to Assem	ъbly	
Quantity Completed	3,000.00	Quantity Relea	sed	10,000.00
Stop Date	💌 10/29/2005 10:31:15 AM 💌	Quantity Rema	ining	7,000.00
Wage/Rate	8.00	Total Time		1.00
Account Number	1850			
Quantity Scrapped	0.00			
Scrap Account				
				OK Close

- 1. At a minimum, you must enter a work order number, Employee ID and Sequence ID for each labor distribution.
- 2. Enter a Work Order number. The Part Number and description display to the right of the field.
- 3. The system generates a new Labor ID for each unique entry against this work order. Each Labor ID will present a separate line item in the Labor Distribution View.
- 4. Enter an Employee ID.

- The Start Date defaults to the current date and time; however, you can use the calendar box to enter a different date. For example, you may enter labor from labor routers or time sheets that indicate different start times.
- 6. If the work order is linked to a job number, the job number will display next to the Start Date field.
- 7. Enter the Sequence ID this employee performed, or use the hyperlink to select one from the Labor Router View. The description displays to the right of the field.
- 8. Enter the quantity completed at this labor operation. This number must be less than or equal to the quantity released.
- 9. The quantity released from the work order into manufacturing displays to the right of the Quantity Completed field.
- 10. Enter the actual stop date and time the employee finished applying labor. Use the calendar box to select the date and time.
- 11. The Employee Wage Rate displays from the Employee record. Enter a different wage rate if this is nonstandard, such as overtime.
- 12. The Total Time (number of hours worked) to date displays to the right of the Wage/Rate field.
- 13. The quantity of items remaining to be built at this labor operation displays to the right of the Stop Date field.
- 14. The default account number assigned to the part on this Work Order will display. If this is a nonstandard work order, or if you wish to charge labor to an account other than the account displayed, you can enter a different account number.
- 15. When you have completed all entries, do one of the following:

Click Save on the toolbar to save your entries and leave the form open.

Click OK to save your entries and exit the Labor Distribution form.

Click Close to exit the form without saving.

To edit labor on an existing Labor Distribution form:

- 1. Select Shop>Labor Distribution>Edit and enter the WO Number and Labor ID for the record you wish to edit; or open the Labor Distribution View, select the appropriate line item, and click Edit. The Labor Distribution form for the item selected opens.
- 2. The WO Number and Labor ID display at the top of the form, along with the Part Number and description for the part.
- 3. The employee ID and Start Date will display as selected. You can edit these as required.
- 4. When you are finished, click OK, Close, or Save, as appropriate.

Accessing Labor Distribution Data

From the Labor Distribution Submenus

Once labor is entered against a work order, you can access the data from the Shop>Labor Distribution submenus.

From the Labor Distribution View

Records displayed in the Labor Distribution view depend on the query selected.

🗳 Labo	📽 Labor Distribution View - All 📃 🗖 🔀								
Labor Distribution View - All 🍪 📓 💐 💡									
W0 Numb	ber	Labor ID	Sequence ID	Part Number	Employee ID	Start Date	Stop Date		
1 🕨	W000080003	1	100	B-02	44-KNM	10/29/2005 9:31:15 AM	10/29/2005 10:31:15		
2	W000080003	2	200	B-02	44-KNM	10/29/2005 10:31:55 A	10/29/2005 12:31:55		
3	W000080003	3	300	B-02	44-KNM	10/29/2005 10:31:55 A	10/29/2005 12:31:55		
4	W000080003	4	400	B-02	44-KNM	10/29/2005 10:31:55 A	10/29/2005 12:31:55		
5	W000080004	1	100	T-01	30-EWS	10/29/2005 10:28:47 A	10/29/2005 12:28:47		
6	W000080004	2	200	T-01	30-EWS	10/29/2005 12:29:38 P	10/29/2005 1:29:38 PM		
<									
	Edit Close								

From here you can Add, Edit, or Delete a record; or via the sidebar or Links button you can drill down or access related data; preview or print a report.

Work In Process

Work In Process is a view only feature that shows you the status of work for all open work orders in the system. From here you can quickly review the part numbers, date and quantity released to a work order; the quantity completed to date for any open work order, along with a summary of material, labor, and scrap costs; and the total WO cost to date.

Viewing Work-In-Process

Once you begin entering labor operations in Alliance/MFG, you have several options for accessing the data.

From the Work-in-Process Submenus

Once labor is entered against a work order, you can access WIP data from the Shop>Work In Process submenus. Select Work In Process>All to view all records; or use a predefined query to locate specific records.

From the Shop Floor Work In Process View

The records displayed in the Work in Process View depend on the query selected.

📽 Shop Floor - Work In Process View - All										
Shop Floor - Work In Process View - All 🕴 📓 🕹 🌱										
WO Number Part Number Released Date Past Due Quantity Released Quant							Total Labor			
1 🕨	W000080002	B-01	10/29/2005		5,100.00	0.00				
2	W000080003	B-02	11/18/2005		10,000.00	5,000.00	\$56.00			
3	W005110001	B-01	11/18/2005		2,000.00	0.00				
4	W005110002	BPP-100	11/22/2005	 Image: A start of the start of	5,000.00	0.00				
5	W005110003	BPP-200	7/24/2006		5,000.00	20.00				
						Edit	Close			

From here via the sidebar or Links button you can drill down or access related data such as applied labor and shortages; preview or print a report.

Work-In-Process Columns Field Definitions

Work Order Number – The work order number for this record.

Part Number - The part number for this work order.

Released - The date the work order was actually released.

Quantity Released - The quantity released to production.

Quantity Completed - The quantity completed to date for this work order.

Last Labor Sequence – The last labor sequence recorded for this work order.

Total Work Order Cost - The accumulated work order cost to date, material, labor, and scrap.

Material Cost - The total material cost to date for the work order.

Labor Cost - The total labor costs applied to the work order.

Scrap Cost - The total cost of components dekitted to scrap.

Job Number - The Job Number associated with the work order, if applicable.

Shop Floor Reports

The following reports are available from the Shop menu. You can preview or print a report from a predefined query, or create a custom query to display specific information in an Alliance/MFG standard format. For more information about Alliance/MFG reports, see the Technical Reference.

Labor Distribution

Labor Utilization

Production Backlog

Work in Process