Miller

Insight Core™

Knowledge to drive your business forward

Get the Knowledge You Need —
for the Success Your Business Demands.

Insight Core™ is a flexible, Internet-based industrial welding information management solution that can help your operation be more competitive and profitable by delivering accurate, decision-ready information about welding processes — so you can take steps to reduce costs, boost output, increase product quality and improve your bottom line.

Increase productivity

- Which operators are productive?
- Which operators need additional training?
- When is your business least productive?

Manage costs

- What are your true welding costs?
- Where are your best opportunities to reduce costs?
- Are your cost-reduction efforts working?

Improve weld quality

- Which operators are welding outside of acceptable limits?
- Are your business's quality risks increasing or decreasing?
- Are defects escaping detection?
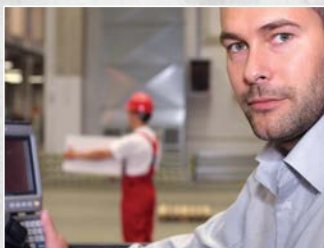
Insight Core™ Benefits:

Weld operators

- Provides feedback on performance
- Identifies training needs
- Enables operators to make improvements

Managers

- Improves analysis of weld operator productivity and weld quality issues
- Helps improve the overall performance of an industrial welding operation

Welding engineers

- Identifies out-of-spec welds
- Improves weld process setup and control
- Monitors power source configuration and performance information

Owners

- Delivers accurate, decision-ready information in real time
- Offers an investment that can return significant dividends

Problems of manual data collection.

- Slow and prone to errors
- Consumes managers' time that could be better spent elsewhere
- Misses opportunities to improve weld quality or productivity
- Information delivered is historic — not real-time
- Information needs to be calculated, analyzed and interpreted to make a decision

Insight Core™

Insight Core™ automatically collects the data you need.

Every power source. Every weld. Every time.

Insight Core delivers accurate, up-to-date weld reports on any Web-enabled device.

Insight Core™
The data-collection solution.

- Delivers actionable information to improve productivity and profitability
- Compatible with both Axcess® and 14-pin compliant Miller® power sources
- Wi-Fi capable for faster, easier installations and shop floor flexibility
- Uses standard Web browsers: no software or applications to install or maintain
- Secure data viewable on any Web-enabled device utilizing user authentication
- Low lifetime cost of ownership
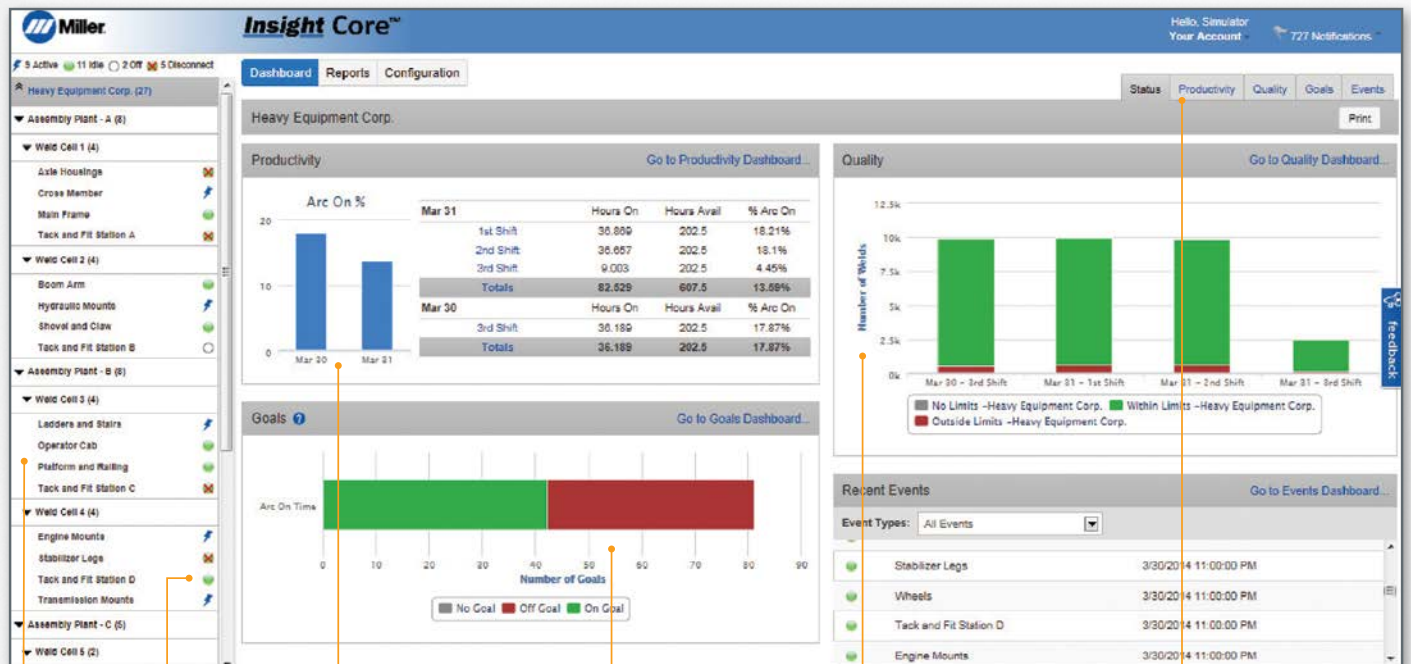
Turn Data into Actionable Information

Insight Core™

The welding information system that gives you more.

Insight Core™ excels at turning welding data into the information you need. At a glance, Insight Core dashboards provide a snapshot of your welding operation's productivity, quality and progress toward goals. When more-detailed information is required, Insight Core can deliver it in easy-to-read reports tailored to meet specific needs. And because Insight Core delivers information on standard Web browsers, that information is accessible to you at any time, anywhere.

Main Dashboard — Daily Status Overview

- Your first destination for a full overview of essential reports about your welding operation
- Asset tree allows you to organize your fleet in a manner that makes sense for you — by building, department or machine

Asset tree

Status indicators

Productivity comparisons of arc-on time

Performance relative to goals such as arc-on time and weld deposition

Number of welds inside and outside of quality limits

Links to dashboard screens revealing more-detailed information about productivity, quality, goals and recent events

Productivity Dashboard

· Graphically displays arc-on times and wire deposition

· Displays are available by hour, day, week, month or a user-defined range

· Allows quick and easy comparisons and analysis of productivity

Quality Dashboard

· Shows total number of welds occurring during a user-selectable time range

· Distinguishes between those welds falling inside and outside of established limits

Goals Dashboard

· Allows easy evaluation of progress toward goals for arc-on time, weld deposition, weld quality and more

· Shows statistics for individual power sources, work groups, shifts or your entire weld fleet

Clear advantages — even before you start using it

· Supports both wired Ethernet and Wi-Fi connectivity for unlimited machine-positioning flexibility

· Compatible with both Axcess® and 14-pin compliant Miller® power sources

· Innovative USB setup support for quick installation, easy data transfer and fast firmware updates

Supports your commitment to quality welds

· User-definable upper and lower thresholds for weld amps and volts

· Flags welds that fall outside of thresholds

· Date and time stamp recorded for every weld including average amps, volts and weld trace details

Assign goals to quickly assess performance

· Incorporation of goals allows you to quickly determine which cells are at, above or below goal

· Assigns goals at any level: company, building, department or specific power sources

Mobile-friendly report access

· HTML browser-based reporting

· No software to install; no apps to download

· Reports are viewable on mobile devices

Longer data storage — and more of it

· Secure, cloud-based data storage

· Store unlimited data within a 90-day window

· Onboard memory in each Insight Core module ensures uninterrupted data collection even if an Internet connection is temporarily unavailable

Lower lifetime costs help increase profitability even more

· No mandatory subscription fees

· No-cost data storage options

Knowledge Is Power.
Get Both with Insight Core.™

Increase productivity

Evaluate key indicators of operator productivity:

- Measure arc-on time and compare to preset goals
- Measure number of arc starts
- Measure wire deposition (Axcess®/Auto-Axcess® only)

Manage costs

Monitor and analyze welding costs:

- Understand weld cell productivity variations
- Understand the impact of continuous improvement efforts
- Understand wire deposition to determine potential over-welding (Axcess/Auto-Axcess only)

Improve weld quality

Measure important indicators of weld quality:

- Identify welds outside of preset amperage and voltage thresholds
- Identify operators who may need additional training
- Weld Trace™ provided for every weld

Easier installation. Greater compatibility. More-accessible reports.

Compatible with both Miller® Axcess® power sources and 14-pin compliant Miller power sources, Insight Core™ can help you get the most out of your existing welder fleet. Current fleets can be connected to Insight Core using field upgrade modules; new Axcess power sources can be ordered with Insight Core factory-installed.

Wi-Fi and wired Ethernet connectivity are built into Insight Core for flexible integration with your company's information network.

Innovative USB support makes setup fast and easy, facilitating trouble-free network connectivity, data downloads and firmware updates.

No special software or applications required. Insight Core stores data in the cloud and securely delivers HTML browser-based weld data and reports to virtually any Internet-connected device in the world — including tablet computers and smartphones.

How Insight Core™ works:

1. As each power source is used, data is generated and automatically transmitted.

2. Data is sent to the cloud, where it's processed, organized, securely stored and made available to view.

3. Reports are delivered on the browser of any Web-enabled device.

More Options for More Applications

Insight *Core*™

Insight *Centerpoint*™

Every welding operation has unique needs for information about its processes — which is why Miller offers multiple welding information management systems with a wide range of capabilities.

Insight Core is focused on monitoring outputs connected with the welding process. Insight Centerpoint™ brings advanced process control information into the actual weld cell to help manage the welding and fabrication process.

Which system is right for you?

Some manufacturers benefit from a combination of both Insight Core and Insight Centerpoint, pairing each system with the welders and processes it best supports. See below for a comparison of selected key features that can benefit your business.

	Insight Core™	Insight Centerpoint™
Installation		
Integrates with Axcess and Auto Axcess power sources	●	
Integrates with Axcess E and Auto Axcess E power sources		●
Integrates with 14-pin compliant Miller power sources	●	
Web-browser based: no software required	●	
Key Performance Indicators (KPIs)		
Weld detail: amps, volts, weld duration	●	●
Productivity: arc-on time, wire deposition (on Axcess only)	●	●
Quality: evaluates every weld compared to pre-defined threshold limits	●	●
Goals: definable targets to improve arc-on time, deposition, arc starts	●	
All information reported by date/time, work cell, shift and power source	●	●
Business Intelligence Tools/Reports		
Real-time notifications of key events	●	●
Comparison reports available for any combination of power sources and weld cells	●	●
All reports capable of exporting to Microsoft Excel-compatible format	●	●
Advanced reports to analyze welds, parts, productivity, and more		●
Capable of reporting OEE (overall equipment effectiveness)		●
Cost calculator: total cost for wire, gas, electricity, and labor per weld and part		●
Advanced Real-Time Process Control		
Part Tracking™: visually and sequentially guides operator through weld process; monitors each weld for current, voltage, wire-feed speed, duration and gas flow (optional)		●
Workflow: flexible system that governs the entire welding and fabrication process by providing visual non-welding work instructions in addition to the benefits of Part Tracking		●
Monitors pulse width/frequency, short circuit frequency, peak/background current/voltage		●
Energy/heat input calculation for total welded/assembled parts		●
Real-time operator alerts of activities such as over-/under-welding, missing/incomplete welds, sequencing errors, sequential weld guidance for the operator		●
Data Storage		
Internet-based data storage	●	
On-site data storage		●

Insight Core™

Knowledge to drive your business forward

Like the welding systems it supports, the Insight Core welding information management system is designed, engineered, built and tested to provide solid value to industrial welding manufacturers. That value comes from the consistent delivery of actionable information that can be used by customers to boost productivity and drive their businesses forward.

Visit **MillerWelds.com/insight** to learn more.

Insight Core equipment stock numbers
Axcess® and Auto-Axcess® factory options with Insight Core

Wireless and wired Ethernet, factory-installed

Axcess 300 with Insight Core 907150002
Axcess 450 with Insight Core 907152002
Axcess 675 with Insight Core 907154002
Auto-Axcess 300 with Insight Core 907151004
Auto-Axcess 450 with Insight Core 907153004
Auto-Axcess 675 with Insight Core 907155006
Auto-Axcess 300 Device Net with Insight Core 907151005
Auto-Axcess 450 Device Net with Insight Core 907153005
Auto-Axcess 675 Device Net with Insight Core 907155005

Wireless and wired Ethernet, upgrade module

Axcess Insight Core module 301081

Wireless and wired Ethernet 14-pin compliant Miller® power sources

14-pin compliant Insight Core module 301072

See your local authorized Miller distributor or **MillerWelds.com** for more information on Axcess systems or Insight welding information management systems.

MillerWelds.com/insight

Miller.

The Power of Blue®