

SNT-CNC-4410 CNC Lathe System



SPECIFICATIONS

1. Swing over bed: 3.50" (90 mm)
2. Swing over carriage: 1.75" (45 mm)
3. Distance between centers: 17.00" (430 mm)
4. Hole through spindle: .405" (10 mm)
5. Spindle nose thread: 3/4"-16 T.P.I .
6. Spindle nose taper: #1 Morse
7. Travel of crossslide: 4.25" (110 mm)
8. Taper of tailstock spindle: #0 Morse.
9. Protractor graduations: 0° to 45° by 5°
10. Handwheel graduations: .001" (.01 mm)
11. Length overall: 32.25" (820 mm)
12. Width overall: 8.75" (220 mm)
13. Height overall: 8" (200 mm)
14. Shipping weight: 30 lb. (13.6 kg)
15. Motor: 90 Volt DC with electronic speed control that accepts any incoming current from 100VAC to 240 VAC, 50 Hz or 60 Hz. [Click here for motor specifications.](#)
16. Spindle speed range: 70-2800 RPM continuously variable by electronic speed control
17. CNC stepper motor holding torque: 136 oz-in
18. Maximum CNC travel speed, X and Z: 22 inches/min

If you are interested in a lathe with more distance between centers, the model metric 4410 lathe is available. Several upgrades are also included. Standard equipment has 90 VDC motor with electronic speed controller, a 2.75" (70mm) x 6.0" (152mm) crossslide, pulleys, belt, faceplate, lathe dog, two dead centers, three hexagonal keys, sharpened high-speed steel cutting tool, eight-foot, three-wire power cord and instruction booklet. In addition, the model 4410 lathe has a 24" (610mm) bed that has 17" (431mm) between centers, a 2.5" (63mm) resettable "zero" handwheel on the leadscrew, two 2" (51mm) resettable "zero" handwheels on the crossslide and feed screw and a rocker tool post substituted for the standard tool post used on the shortbed lathes. The electronic speed control allows continuously variable speed control from 70 to 2800 RPM without belt changes. There is a second pulley position available that offers extra torque at low RPM if needed.

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SNT-CNC-2026 CNC Micro Mill



The SNT-CNC-2026 Desktop Machining System. (Shown with 200 oz-in. step motors, Box Way Z-axis assembly)

A full desktop machining system with capabilities to produce most anything from very simple to very complex geometric forms in wood, plastic, aluminum or steel. Applications in jewelry design, prototyping new products, model making and small parts engineering production.



SNT-CNC-2026 EXT SNT-CNC-2026 CNC Mill with 4 Axis



Machine Features

1. Stepping Resolution 0.000125 in.
2. Mechanical repeatability 0.0005 in.
3. Spindle Speed 1100 - 11000 RPM
4. Travel: X = 9", Y = 5.75", Z = 6"
5. Rapid Travel of 30 in/min.
6. Universal Standard G-Code import.
7. Plugs directly into computer printer port.
8. Precision Mechanics.
9. Box way Z-axis assembly with ground steel plate and tapered brass gib.
10. Adjustable tapered brass gib on X-axis.
11. Ground steel sliding ways with adjustable brass gib.
12. Hard anodized aluminum table.
13. 1/2 inch 20 pitch Cr-Mo leadscrews with adjustable split bronze nuts on all axes.

Complete System Includes

1. MicroMill with New Powerful 1/4 HP spindle motor (Not shown in Picture).
2. Pulley set with drive belt.
3. 1/8", 3/16", 1/4" collets with collet closer.
4. Electronic Chopper Driver Unit.
5. Custom Win XP Mach 3 control software interface.
6. 4th Axis Amplifier and Port Included.
7. Input/Output Port Included.
8. 200 oz-in. stepping motors.
9. Printer cable, power cable.
10. User's manual.
11. 1 Year system warranty.

Computer System Requirements

1. Windows XP computer with Pentium 1 GHz or higher processor required.
2. 20 MB Hard Drive.
3. 128 MB Ram.
4. Standard DB25 printer port output.

System Options:

1. MeshCam 3D Software. Imports DXF, STL or BMP files and creates the 3D G-code toolpath for contouring the surface.
2. BobCad-Cam Design and Manufacturing Software.
3. Full 4th axis rotary table system.
4. CNC-2026 with 12" X axis

SNT-CNC-5100/5410/2010 CNC Milling Trainers



The main difference between a lathe and a mill is that on a lathe, the work turns and the cutting tool is stationary, while on a mill, the tool turns and the work is stationary. Because of the tremendous number of operations that can be performed on a vertical mill, it is commonly regarded as the most important machine in the modern machine shop... the work horse of the industry. At first glance a vertical mill looks similar to a drill press, but there are some important differences, such as a spindle that can take side-loads as well as end loads and an accurate method of moving the work

SELECTION GUIDE

MODEL	CNC-5100	CNC-5410	CNC-2010
Max clearance, table to spindle	8.00" (203 mm)	8.00" (203 mm)	9.00 (229 mm)
Throat (without headstock spacer)	2.25" (50 mm)	2.25" (50 mm)	Adjustable
Throat (with headstock spacer block)	(Not included)	Included, 3.50" (89 mm)	Not Required
Travel, "X" Axis	9.00" (228 mm)	9.00" (228 mm)	9.00" (229 mm)
Travel, "Y" Axis	3.00" (76 mm)	5.00" (127 mm)	7.00" (178 mm)
Travel, "Z" Axis	6.25" (159 mm)	6.25" (159 mm)	5.38" (137 mm)
Hole through spindle	.405" (10 mm)	.405" (10 mm)	.405" (10 mm)
Spindle nose thread	3/4-16 T.P.I.	3/4-16 T.P.I.	3/4-16 T.P.I.
Spindle taper	#1 Morse	#1 Morse	#1 Morse
Handwheel graduations	.001" (.01 mm)	.001" (.01 mm)	.001" (.01 mm)
Width overall*	14.75" (375 mm)	15.00" (381 mm)	15.00" (381 mm)
Depth overall*	20.75" (527 mm)	20.75" (527 mm)	22.25" (565 mm)
Height overall*	20.75" (527 mm)	20.75" (527 mm)	23.38" (568 mm)
Table size	2.75" x 13.00" (70 x 330 mm)	2.75" x 13.00" (70 x 330 mm)	2.75" x 13.00" (70 x 330 mm)
Hold down provision	2 "T" Slots	2 "T" Slots	2 "T" Slots
Shipping weight	33 lb. (15.0 kg)	36 lb. (16.3 kg)	38 lb. (17.2 kg)
Movements in addition to X-, Y- and Z-axes	Headstock rotation 90° left/right	Headstock rotation 90° left/right	Headstock rotation 90° left/right, Column rotation (90° L/R), column pivot (front/back), column swing (90° L/R) and 5.5" column travel (in/out)
Motor	90 Volt DC with electronic speed control automatically converts any input from 100 VAC to 240VAC, 50 or 60 Hz		
Spindle speed range	70-2800 RPM continuously variable by electronic speed control		

*Overall dimensions include motor and speed control

in relation to the spindle on all three axes. The SNT MILLING MACHINES can perform all of the tasks and operations that a large commercial machine can perform. Operations such as milling, fly cutting, precision drilling, and boring are all routine tasks for the SNT mills. Because the tool turns rather than the work, much larger parts may be worked on in a mill (these parts need not be round). The work is securely held, thus extremely accurate hole patterns can be drilled or bored using the SNT vertical mill. The longer "X-axis" throw also increases the machine's versatility over that of the Lathe with the vertical milling column attachment. It is an extremely rigid, accurate tool which accomplishes tough machining jobs with ease.

The Deluxe Model 5410 metric comes equipped with all standard features upgraded to include a laser engraved 12" (305mm) solid aluminum base, laser engraved scales on the "X" axis table, 2" (51mm) handwheels on the "X" and "Y" axes, a 2-1/2" (63mm) adjustable "zero" handwheel with ball bearing thrust on the "Z" axis, a mill headstock spacer to provide more throat distance, and drill chuck and drawbar.

OTHER OPTIONS

The 5410 mill can be ordered with digital readout already installed. Standard handwheels are not included because they are replaced by the DRO handwheels. The mill can also be ordered in "CNC ready" configuration ready for the application of stepper motors and CNC controls. In this configuration the standard handwheels are supplied so that they can be used on the rear shaft of a dual shaft stepper motor for optional manual control

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