

Clausing METOSA

600 Group



SmartLathe

Low Cost, Precision CNC Turning

SmartLathe A very Affordable CNC Lathe

The Clausing/Metosa SmartLathe are ideal lathes for all your toolroom applications. Whether you are a CNC user looking for increased versatility, first time CNC user, job shop looking for increased output or education or training facilities looking for a low cost CNC lathe, the SmartLathe is the perfect fit for you.



The Clausing/Metosa SmartLathe is designed to handle a wide range of applications, shaft and bar machining, taper turning, thread cutting and much more, with features found on only higher priced machines.

Check-out SmartLathe Advantage...

- GE Fanuc Oi Mate-TC control with Fanuc TurnMate i conversational programming, part programs are easily set-up by working directly on the touch screen using conversational cycles (profile, taper, thread, bore, drill, tap, etc)
- The operation cycle is selected using graphic icons on the touch screen
- Control can be switched to G-code programming, allowing more experienced operators to run programs previously used on other machines or generate new programs
- Manual operation is easy with the use of the electronic hand wheels for the X and Z axes. Travel limits are shown on the touch screen
- Horizontal 4-way indexing power Turret
- Heavy-duty construction
- Carriage cross slides and bed ways are hardened and ground for long life and high-speed positioning accuracy
- The heavy-duty main spindle runs on pre-loaded, precision angular contact bearings to insure extremely accurate turning
- Automatic lubrication of all slideways and moving parts

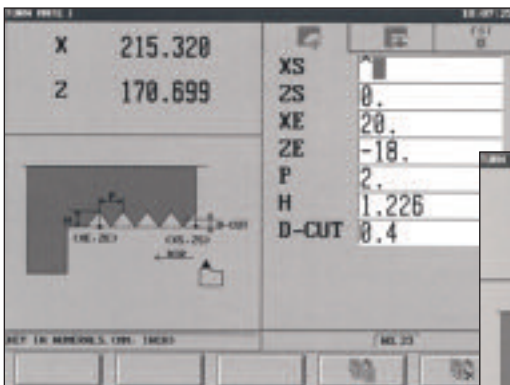
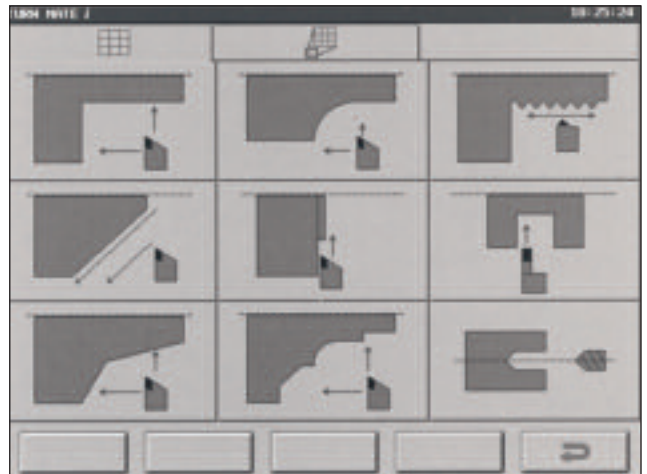
G.E. Fanuc Oi Mate - TC Control



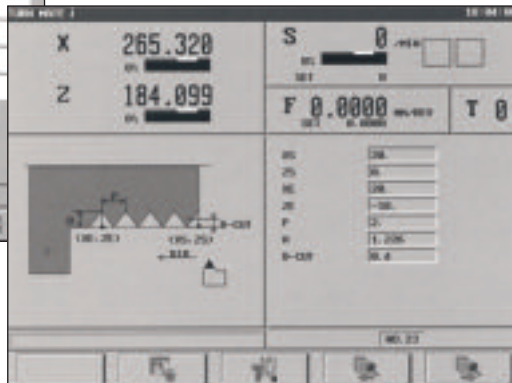
The Clausing/Metosa SmartLathe is equipped with the latest G.E. Fanuc Oi Mate-TC Control with Fanuc TurnMate conversational programming system or full CNC G-code programming and over 200 standard features including Custom Macro B, Rigid Tapping and 256K Part Programming Memory.

Fanuc TurnMate i Conversational Programming...

Fanuc TurnMate *i* software offers a full range of conversational cycles, (profile, thread, bore, drill, tap, etc.). With the TurnMate *i*, you can program full contour machining at the control. This easy to use control features touchscreen technology, large graphic icons and shop floor language, so the operator can learn to machine quickly.



It is easy to program using the standard programming cycles, simply input the data into clearly defined variables on the data input screen. Most machine operators will learn how to use the system in hours.



To execute the program, the operator uses large graphic icons working directly on the touchscreen rather than looking for the right button to press.

While the program is running, the operator can view the current cycle, speed, feed, tool and axis position information on the screen.

Control Features

- 7.2" mono LCD screen
- Clear touchscreen display
- Operator friendly graphic icons
- High-speed machining
- 256k part program storage
- Canned cycles
- RS 232 port for data transport
- Custom macro for extending or creating new canned cycles
- Tool life management
- Rigid tapping for high-speed taps
- G-code programming

G-code Programming

The G.E. Fanuc TurnMate control can switch to G-code full CNC functionality. This allows more experienced operators to program in G-code or run part programs previously used on other machines.



Machine Specifications:

Model	14"	17"
Capacity		
Center height over bed	7.09" (180mm)	8.86" (225mm)
Swing dia. over bed	14.17" (360mm)	17.72" (450mm)
Swing over carriage	11.81" (300mm)	14.56" (370mm)
Swing over cross slide	7.48" (190mm)	10.23" (260mm)
Bed width	9.84" (250mm)	11.81" (300mm)
Head Stock		
Spindle bore	1.65" (42mm)	2.54" (65 mm)
Front bearing diameter	4.33" (110mm)	5.51" (140mm)
Main spindle nose	A2-5	A2-6
Main spindle taper	4MT	5MT
Spindle Speed (rpm)	0-4000	0-3000
Spindle Drive Motor	10/15 Hp (7.5/11 Kw)	12/15 Hp (9/11 Kw)
Slide and Carriage		
X & Z axes feed rate (in/min-(mm/min)	0"-275" (0-7000)	0"-394" (0-1000)
X & Z axes rapid rate (in/min-(m/min)	394" (10)	394" (10)
Crossslide width		
Crossslide travel		
Tail Stock		
Tailstock quill diameter	2.68" (68mm)	2.68" (68mm)
Tailstock quill travel	7.08" (180mm)	7.87" (200mm)
Tailstock taper	4MT	5MT

Due to ongoing design improvements specification and design are subject to change.

Standard Equipment

- Fully enclosed guarding
- Chip collection tray
- Horizontal 4-position tool turret
- Electrical panel for incoming power
- Complete coolant system
- Automatic lubrication of slide ways
- Coolant equipment
- Electronic handwheels for the X and Z axes
- Dynamic solid and trajectory graphics
- Profile editor
- Main spindle reducing bushing and fixed centers
- Work light
- Instruction manual
- CE compliant

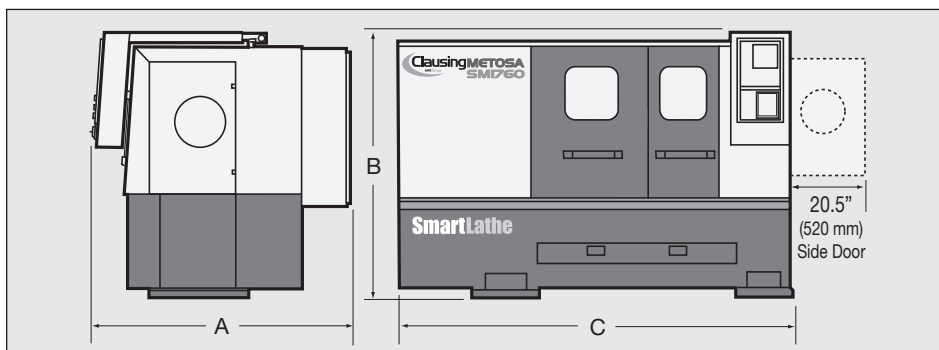
Optional Equipment

- Automatic 8 station Toolpost
- Hydraulic chuck through cylinder

A wide range of working holding, steady rests and follower rest.



Dimensions, Center Distance and Weight:

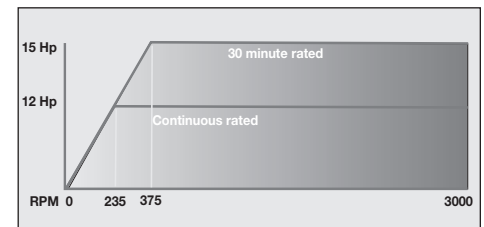


Model No.	A	B	C	Center Distance	Weight
SL1430VS	65.5" (1670mm)	67" (1700mm)	82" (2080mm)	30" (750mm)	2,856lbs. (1300kg)
SL1440VS	65.5" (1670mm)	67" (1700mm)	92.8" (2357mm)	40" (1000mm)	3,484lbs. (1580kg)
SL1740VS	68" (1727mm)	69.5" (1765mm)	100.3" (2547mm)	40" (1000mm)	4021lbs. (1824kg)
SL1760VS	68" (1727mm)	69.5" (1765mm)	120" (3047mm)	60" (1500mm)	5,842lbs. (2650kg)

14" Lathe



17" Lathe



Our powerful spindle drive motor provides exceptional low end torque for a maximum operating range at full horse power...



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