

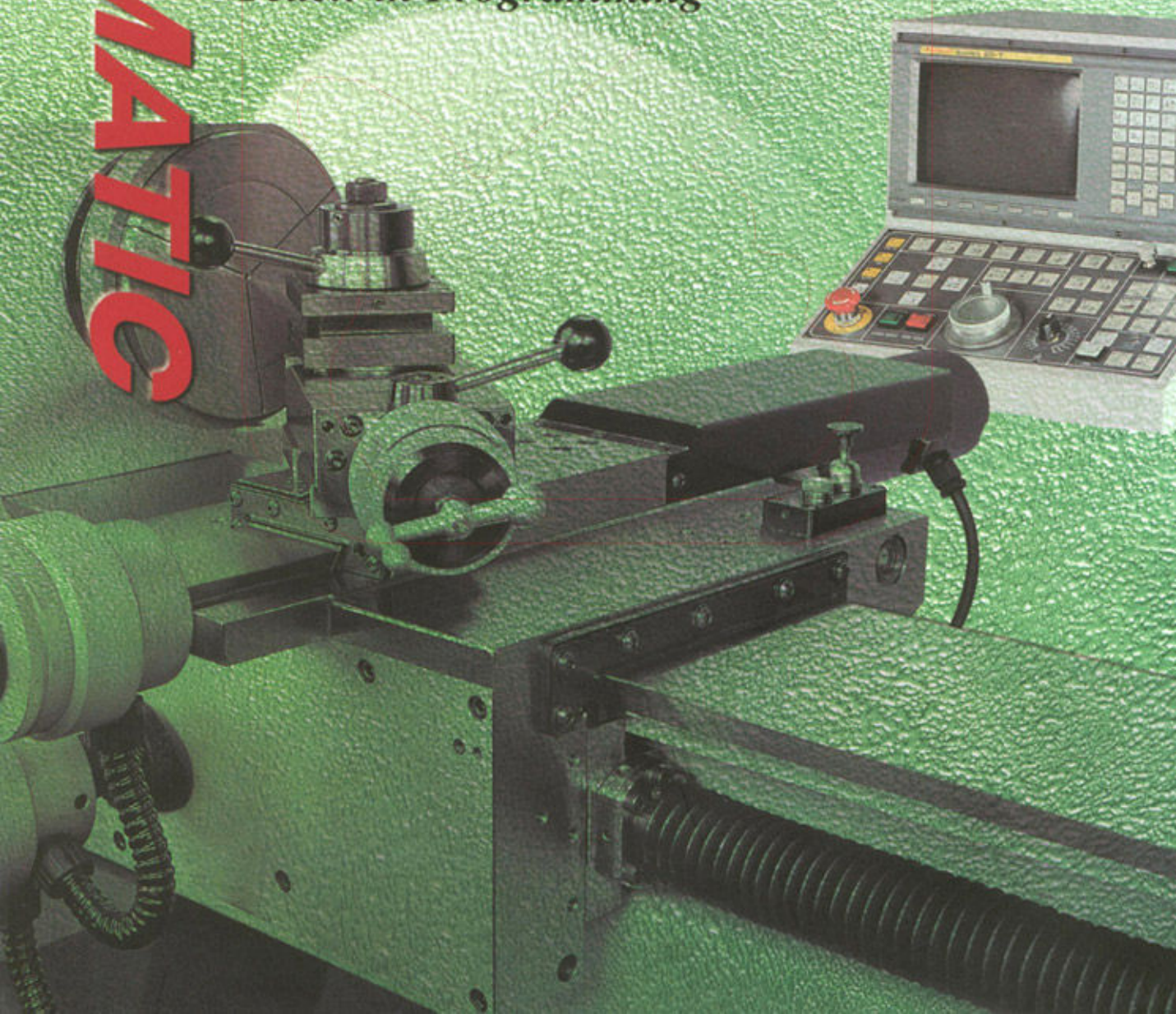
CYCLEMATIC

CNC TOOLROOM LATHE

CT-1118CNC

*Guaranteed
Circularity Accuracy
to 0.0015mm (50 millionths inch)*

Teach-in Programming



CYCLEMATIC

CNC TOOLROOM LATHE

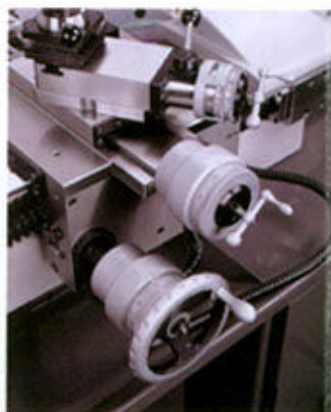
- ★ *Guaranteed Circular Accuracy 0.0015mm (50 millionths of an inch)*
- ★ *Teach-in Programming*
- ★ *Quick change of indexing turret and four station turret*
- ★ *Combines CNC and manual operations on a single machine*
- ★ *CE Standard Splash Guard (Optional)*



CYCLEMATIC
CT-1118CNC

OUTSTANDING FEATURES

- Precision ball screw on X, Z-axes
- Protection guard on Z-axis ball screw
- FANUC 20TA CNC controller (Standard)
- X, Z-axis feed is driven by a AC servo motor.
- X, Z-axis ball screws directly coupled to AC servo motor, minimizing backlash.
- Fast lever collet chucking with a single movement.
- Power collet closer is optional.
- The spindle is mounted in high precision preloaded angular contact ball bearings eliminating radial and end play.
- A wide variety of optional accessories to increase versatility of the machine.
- Powerful 5 HP frequency controlled motor

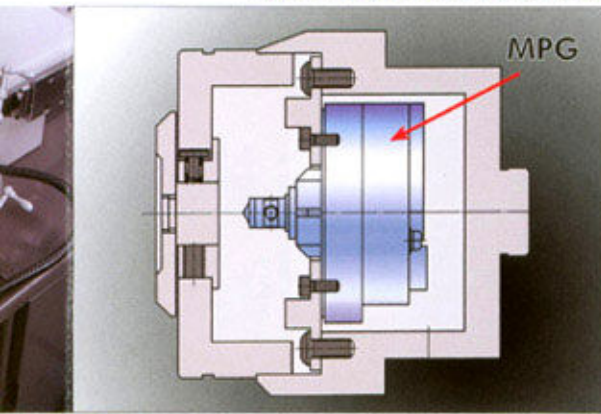


ADDITIONAL MPGS O

X, Z-axes are provided with built-in the CNC control. The option of this machine ideal for a range of

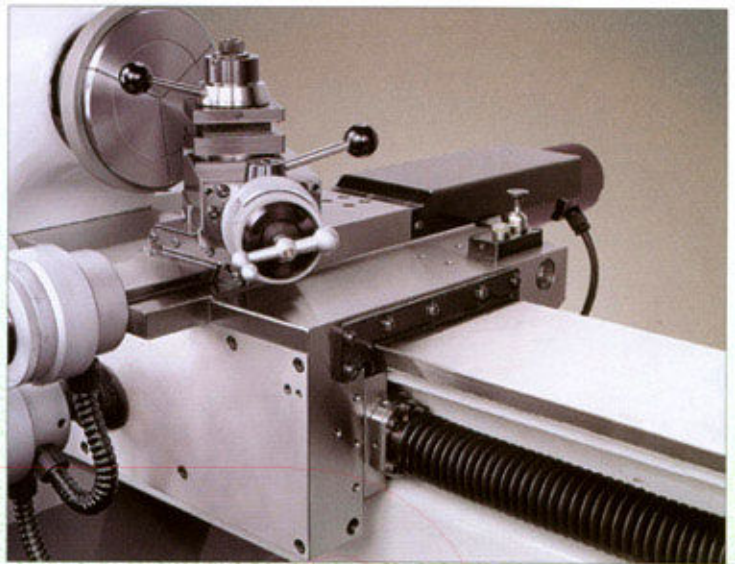


MPG INSIDE X & Z-AXES



MPGS ON X, Z-AXES

MPGs on the X and Z axes, providing high feed accuracy through conventional manual feed on those two axes makes it suitable for a wide range of job sizes.



MASSIVE SADDLE

- The saddle slideways are coated with Turcite-B for maximum wear resistance.
- The cross slideways have hardened and ground tool steel inserts for smooth accurate movement.

HEADSTOCK

- Solid one-piece enclosed headstock has high precision preloaded ball bearing spindle with 5C collet capacity.
- High-precision preloaded ball bearing spindle is mounted in the solid one-piece enclosed headstock, providing maximum rigidity and sustained precision.
- The collet seats directly in the hardened and precision ground spindle, eliminating troublesome sleeves and adapters that introduce costly inaccuracies.



AUTOMATIC INDEXING TURRET

The square turret is applied directly to the tool post T-slot of the compound slide. The turret takes standard 3/8" square tool bits. By a simple movement of the ball handled lever, the turret is automatically unlocked, indexed to the next tool position and relocked, ready for the next machining operation.



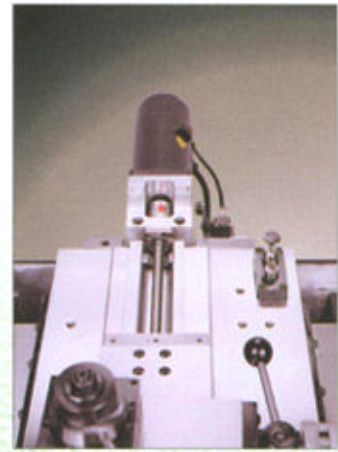
FOUR STATION TURRET

- A super-precision four station indexing turret is available as extra equipment for the CT-1118CNC tool room CNC lathe.
- The turret adapts 3/8" square tool bits and has independent tool adjustment as available on chucking machine turrets.
- The new turret mounts directly to the cross slide. No machining is necessary for installation.



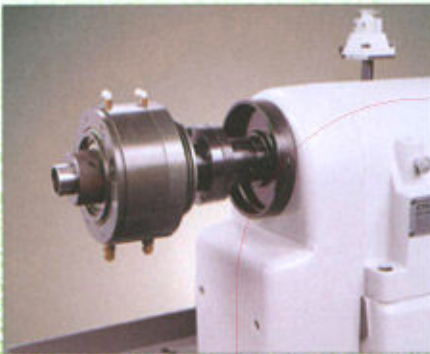
MANUAL COLLET CLOSER

- The fast lever collet closer provides faster chucking. The lever control end of the closer assembly is balanced and rides on a precision bearing. Collet tension is instantly adjustable throughout the full range from light to heavy holding power without the use of tools.
- The spindle handwheel is built into the end of the spindle.
- Entire collet closer is conveniently removed by pulling up the lock pin.



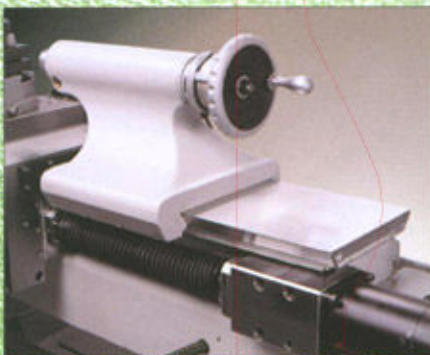
X, Z-AXIS BALL SCREWS

The large diameter, high precision ball screws are used on the X & Z-axes to keep heat deformation to a minimum. Ball screws are directly coupled to AC servomotors.



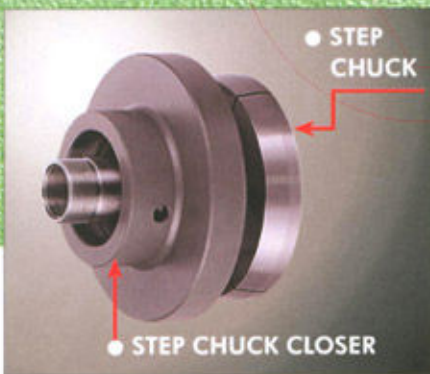
POWER COLLET CLOSER (OPTIONAL)

When requested, the lathe can be fitted with a power collet closer to replace manual lever operation. This air operated collet closer features automatic chucking.



TAILSTOCK

The solid full bearing tailstock supports any load to the preloaded ball bearing spindle headstock. The tailstock has 3-3/4" (95mm) travel. The spindle is graduated in inch and metric for easy reading. Standard shank 2 morse taper tools are automatically discharged for easy operation.



STEP CHUCKS AND CLOSERS

- **STEP CHUCKS** are exceptionally useful for accurately holding work up to 6" in diameter. Castings, moldings, stampings and machined parts are held rigidly and accurately. Tubing can be held without crushing or distorting.
- **STEP CHUCKS AND CLOSERS** are carried in stock in 2", 3", 4", 5" and 6" rated sizes. All step chucks are supplied with pin holes in place for precision machining.
- **CHUCK CLOSERS** fit directly to the machine spindle. A taper corresponding to that on the periphery of the step chuck places the closing pressure over the stepped area of the chuck, resulting in greater gripping power and accuracy.

OPTIONAL ACCESSORIES

A wide variety of optional accessories are shown in the separate accessories catalogue.

SPECIFICATIONS

MODEL	CT-1118CNC
Maximum swing	280 mm (11")
Maximum turning diameter	150 mm (6")
Maximum turning length	457 mm (18")
Bar stock diameter (5C collet)	Ø27 mm (Ø 1-1/16")
Hole through spindle	Ø31.75mm (Ø 1-1/4")
CNC Controller	FANUC 20TA
Spindle speeds (Variable)	0 ~ 4000 R.P.M.
Spindle nose	4° Taper
Chuck diameter	Ø150mm (Ø6")
Maximum X-axis travel	160 mm (6-1/4")
Maximum Z-axis travel	340 mm (13-1/2")
Rapid traverse	20 M/min
Spindle motor	5 HP
X, Z-axis motor	X:β 0.5 Z:β 1.0
Cutting fluid motor	1/8 HP
Tailstock spindle taper	MT No.2
Tailstock spindle travel	95 mm
Machine dimensions (L x W x H)	2200 x 1100 x 1700 mm
Machine weight	1000 kgs

All dimensions, specifications and machine appearance are subject to change without prior notice.

ADDITIONAL MODELS FROM CYCLEMATIC

- CNC TOOLROOM LATHE CT-606CNC (GANG-TYPE)
- MANUAL TOOLROOM LATHE CTL-618EVS
- SECOND OPERATION MACHINE CTS-27EVS
- SECOND OPERATION / TOOLMAKERS LATHE CTL-27EVS
- CHUCKING LATHE CHR-68EVS
- FINISHING LATHE CP-27EVS

CYCLEMATIC

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