



## MACHINERY SOLUTIONS, INC.

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### **MACHINE SPECIFICATIONS**

## 1118DCL Digital Control Lathe

- Fanuc 0i Mate TC CNC control
- Spindle runout within 50 millionths
- Main casting pieces are by Meehanite castings for superior dampening and rigidity
- Precision ball screw on X, Z-axes
- X, Z-axis feed is driven by an AC servo motor
- X, Z-axis ball screws directly coupled to AC servo motor, minimizing backlash
- Hardened and ground bed ways
- Hardened and ground spindle mounted on high precision preloaded angular contact ball bearings
- Turcite-B slideway bearing surface between carriage and bed to provide wear resistance
- 5C lever type collet closer
- 11" max swing over bed
- 6" max turning diameter
- 18" between centers
- $\varnothing$  1.25" diameter hole through spindle
- $\varnothing$  1.06" 5C collet closer thru-hole capacity
- 6.25" max X-axis travel
- 13.50" max Z-axis travel
- Rapid traverse: 787 in/min
- Tailstock taper: M.T. #2; quill diameter: 1.36", quill travel: 3.75"
- Spindle speeds (infinitely variable): 4,000 RPM maximum
- Spindle nose: 5C / 4° taper
- 1/8 HP coolant pump motor
- 3 HP inverter spindle motor
- Rigid manual tailstock with inch/metric graduations
- Halogen work light
- Coolant system
- Set of leveling pads, screws, and nuts
- Operating manual and parts list
- Full one year parts warranty on machine and CNC control
- Installed dimensions: 105" x 60" x 84"
- Shipping dimensions: 88" x 42" x 70"
- Net weight: 2,200 lbs



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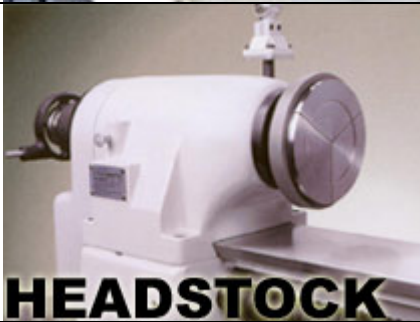
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The saddle slideways are coated with Turcite-B for maximum wear resistance. The cross slideways have hardened and ground tool steel inserts for smooth accurate movement.



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.

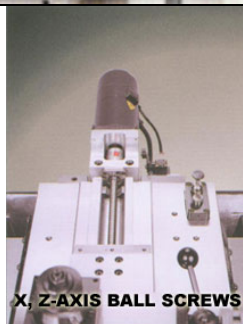


The fast lever collet closer provides faster chucking. The lever control end of the closer assembly is balanced and rides on a precision bearing. Collet tension is instantly adjustable throughout the full range from light to heavy holding power without the use of tools. The spindle handwheel is built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



**POWER COLLET CLOSER (OPTIONAL)**

As an option, the 1118 DCL can be upgraded to an air operated power 5C collet closer.



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 servo motors.