



PC Controlled CNC Turning Centre  
**T220i**



## A floor standing CNC Lathe designed for educational and training installations

The PC controlled Boxford T220i lathe is ideally suited to a classroom environment and offers the perfect solution for high tech. education and training requirements. The rigid construction allows steel to be cut to close tolerances. Operating on IBM/100% compatible computers, the inclusive user-friendly software has routines for Computer Aided Design [CAD] at both simple and sophisticated levels and will process the drawings through to a full machining routine.

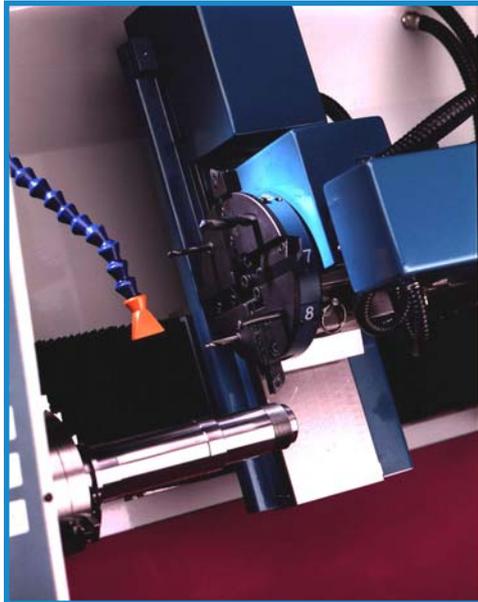
### CNC features

- The Boxford software is an integrated suite of powerful CAD/CAM tools.
- The CAD allows ONLY components suitable for lathe machining to be designed and provides automatic and dynamic dimensioning. A 3D solid model view is also available.
- Drawings from other CAD applications can also be imported and processed.
- A full 3D simulation of the manufacturing process, including a cycle time, can be shown enabling work to be proven without the need for trial cutting.
- Manual Data Input, utilising Industrial Standard Codes, allows programs to be entered using either line by line or conversational programming.
- The generous swing over bed capacity and long Z axis allows a large variety of components to be machined.
- Touch sensitive control panel incorporating illuminated push buttons allows the machines to be operated without a computer.
- Active and accurate tool path graphics continuously displayed line by line during program write, test run and manufacture.

### Safety equipment and features

- Full perimeter guarding with interlocking switches on access doors arranged in the positive (safety) mode for spindle stop and feed hold.
- Overload cut-out on spindle drive.
- Positive end stops on all axes.
- Mandatory graphics run required for new programs before machining cycle can be commenced and step by step graphics in advance of cut in machining cycle.
- Integrated electrical panel with no volt supply protection.
- Feed rate override.
- Feed hold.
- Single block operation.
- Latching emergency stop button.
- Power on indicator lamp.
- Low voltage control circuitry.

## Machine specification



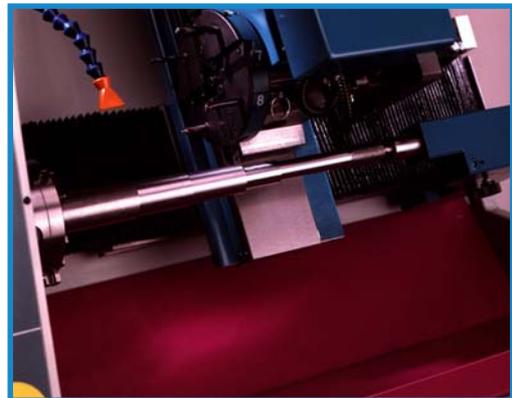
- Slant-bed configuration.
- Precision linear ways.
- Linear ball bearings on all axes.
- Three axis simultaneous operation.
- Fully enclosed see through guarding for safety and improved student viewing.
- Integrated electrical panel.
- 100mm diameter 3 jaw chuck.
- Automatic 8 station lathe turret.
- Spindle speeds in RPM, M/min or in/min.
- Feedrates in mm/min, in/min, mm/rev or in/rev.
- Steel, Brass, Aluminium and Brass cutting capability.
- Generous swing over bed
- Long Z axis travel for 'between centres' work

Swing Over bed	210mm
X Axis travel	150mm
Z Axis travel	350mm
Distance between centres	400mm
Spindle bored to pass	20mm
Spindle motor	1.1 Kw
Infinitely variable spindle speeds	200 - 4000 rpm
Electrics	110/220/240v 1 PHASE
Programmable feed (linear and circular interpolation modes)	0 - 1500mm/min
Rapid feed rate at 100%	1500mm/min

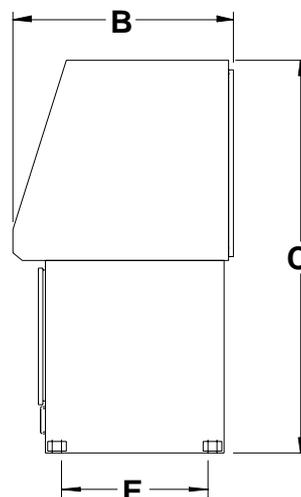
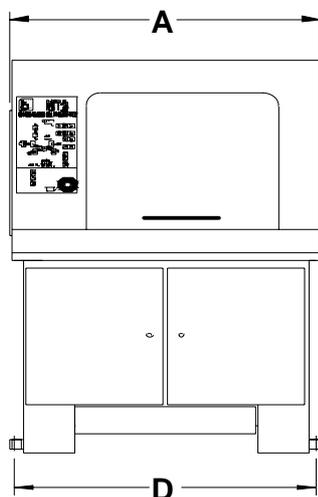
## Accessories

Accessories are available, including:-

- Tailstock Steady
- Spindle Centre and carrier
- Flood Coolant System
- Comprehensive set of tooling



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### Machine Dimensions

A	1000mm
B	720mm
C	1530mm
D	965mm
E	476mm

### Machine Weight

290kg (638lbs)