

PC Controlled CNC Turning Centre
250PCi



A floor standing CNC Lathe designed for educational and training installations

The PC controlled Boxford 250PCi 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.

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Machine specification

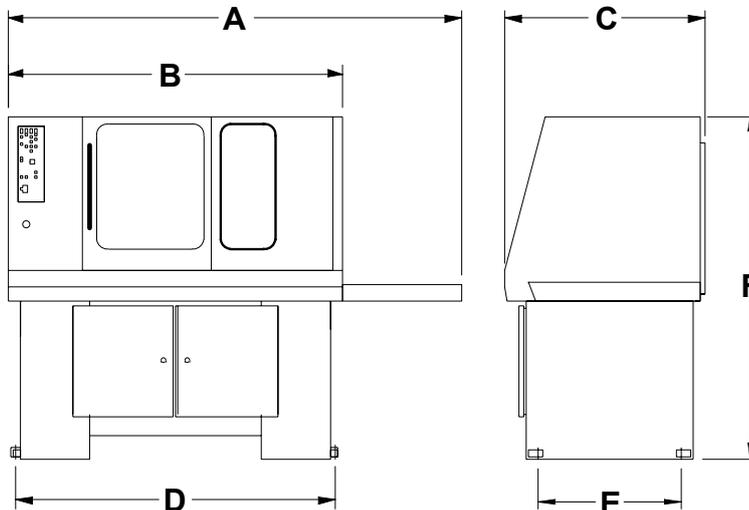
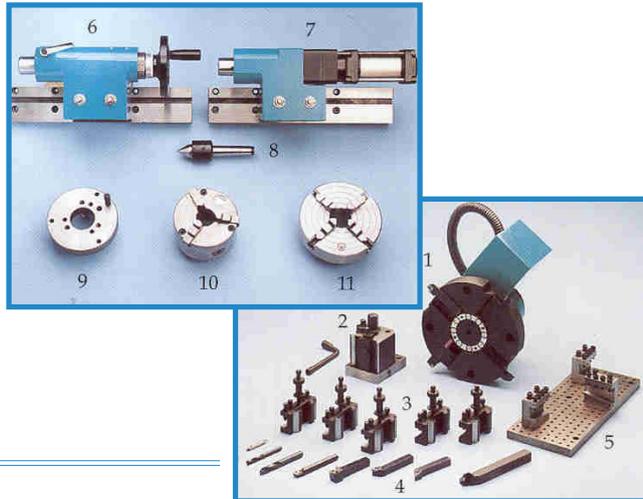


Slant-bed configuration.
 Pre-loaded anti backlash balls screws on all axes.
 Two axis simultaneous operation.
 Fully enclosed see through guarding for safety and improved student viewing.
 Integrated electrical panel.
 125mm diameter 3 jaw chuck (optional).
 Automatic 8 station disc turret (optional).
 Flood Coolant (programmable).
 Spindle speeds in RPM, M/min or in/min.
 Feedrates in mm/min, in/min, mm/rev or in/rev.
 Steel, Brass, Aluminium and Plastic cutting capability.

Swing Over bed	250mm
X Axis travel (cross)	200mm
Z Axis travel (longitudinal)	265mm
Distance between centres	350mm
Spindle bored to pass	35mm
Spindle Nose Mounting	3" D1 camlock
Spindle drive motor	2.2Kw
Infinitely variable spindle speeds	200 - 3200 rpm
Electrics	110/220/240v 1 PHASE
Programmable feed (linear and circular interpolation modes)	0 - 2000mm/min
Rapid feed rate at 100%	2000mm/min

Accessories

Accessories are available, including:-
 Automatic 8 Station Disc Tool Post
 Chucks - 125mm 3 Jaw
 - Power Chuck
 - 160mm 4 Jaw Independent
 Comprehensive Set of Tooling
 Z Axis Limit Switch
 Emergency Footswitch
 Tailstock (Manual or Automatic)
 Rotating Tailstock Centre
 FMS/CIM Connectivity



Machine Dimensions

A	2000mm
B	1470mm
C	870mm
D	1390mm
E	620mm
F	1520mm
Machine Weight	560kg (1230lbs)



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