



A bench mounted CNC Lathe designed for educational and training installations

The PC controlled Boxford 160TCL lathe is ideally suited to a classroom environment and offers the perfect solution for high tech. education and training requirement's. The rigid construction allows steel to be cut to close tolerances. Operating on PC computer, 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 machine rigidity and spindle torque allows a large variety of materials and 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



Swing Over bed
 Swing Over X axis slide
 X Axis travel (cross)
 Z Axis travel (longitudinal)
 Spindle bored to pass
 Tailstock Quill Travel
 Tailstock Spindle Taper

160mm
 70mm
 125mm
 125mm
 20mm
 75mm
 2MT

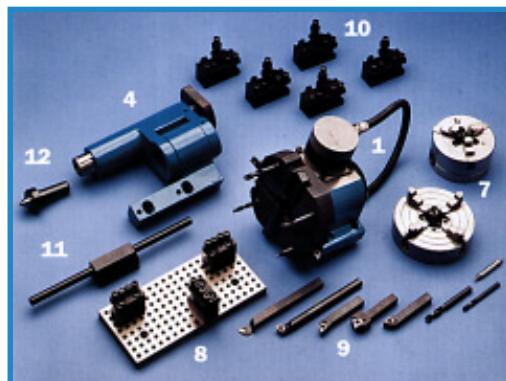
Spindle motor
 Infinitely variable spindle speeds
 Electrics
 Programmable feed (linear and circular interpolation modes)
 Rapid feed rate at 100%

490 watts
 200 - 3200 rpm
 110/220/240v 1 PHASE
 0 - 1500mm/min
 1500mm/min

Accessories

Accessories are available, including:-

Automatic 8 Station Tool Post
 Chucks - 80mm 3 Jaw
 - Power Chuck
 - 100mm 4 Jaw Independent
 Comprehensive Set of Tooling
 Z Axis Limit Switch
 Emergency Footswitch
 Airmist Coolant
 Tailstock
 Rotating Tailstock Centre
 Heavy Duty Workbench with Braked Castors.
 FMS/CIM Connectivity

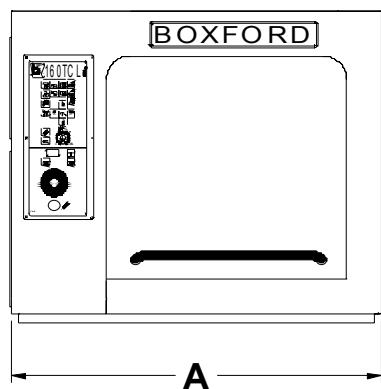
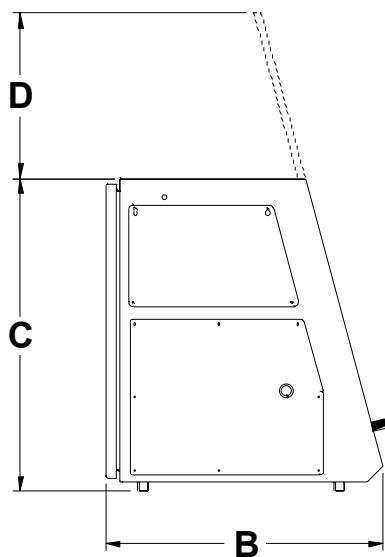


Machine Dimensions

A	800mm	C	675mm
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B	600mm	D	350mm
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Machine Weight - 130kg (285lbs)



Boxford Limited

Wheatley,
 Halifax,
 HX3 5AF
 Tel: 01422 358311
 Fax: 01422 355924
 Email:
info@boxford.co.uk
 Web:
www.boxford.co.uk