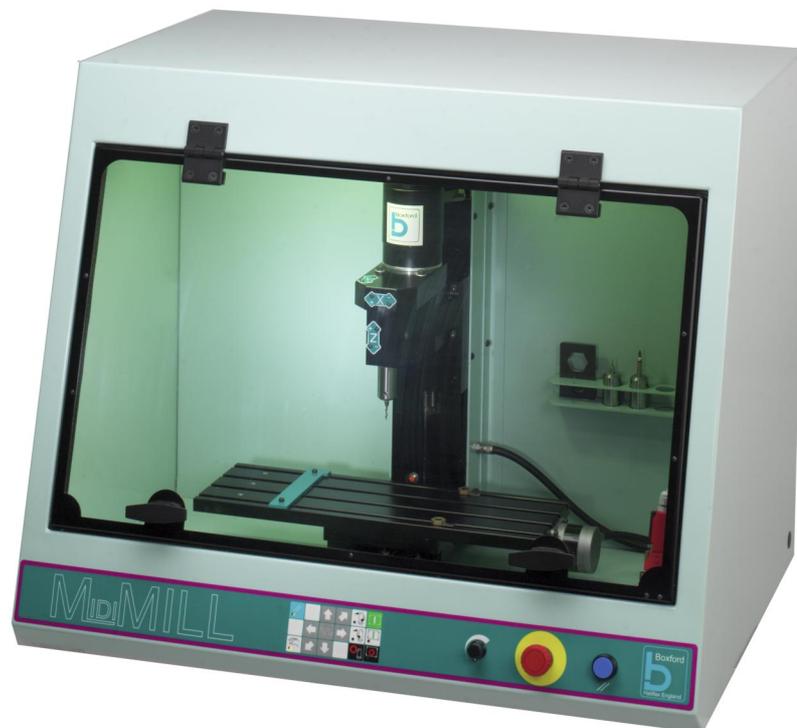


**Bench top Vertical Machining Centre**

# MIDIMILL



## **A low cost, high capacity, Vertical machining Centre specifically designed for educational and training installations**

The PC controlled Boxford MidiMILL Vertical Machining Centre is ideally suited to a classroom environment and offers the ideal solution for high tech. education and training requirement's. 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 designed components through to a full machining routine.

### **CNC features**

- The Boxford software is an integrated suite of powerful CAD/CAM tools.
- The CAD provides a variety of drawing tools, including text fonts, with excellent manipulation routines.
- 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 runs on the machine. Manual Data Input, utilising Industrial Standard Codes, allows programs to be entered using either line by line or conversational programming.
- Incorporates hardware capable of continuous 3 axis movement utilising the latest Continuous Path Manufacturing technology. This allows large programs, imported from Major CAD/CAM packages, to be machined efficiently and is an essential machine feature for successful Rapid Prototyping of 3D reliefs.
- The axis travel and table dimensions provide a machining envelope with excellent Z axis travel for 3D manufacture and generous X and Y travel for machining sheet material.
- 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 simulation required for new programs before machining cycle can be commenced. Step by step execution of 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



- Dovetail slide construction
- Anti-Backlash nuts on all axes.
- Three axis simultaneous operation.
- Fully enclosed see through guarding for safety and improved viewing.
- Integrated electrical panel.
- Tooling Starter Pack Included
- Off-Centred Cam Clamping system.

Axis travel	X(longitudinal)	300mm
	Y(cross)	180mm
	Z(vertical)	230mm
Table Area		450mm x 153mm
Spindle motor		380 watts
Spindle speed		200-4000 rpm
Electrics		110/220/240 V 1 Phase
Programmable feed (linear and circular interpolation modes)		0 - 600mm/min
Rapid feed rate at 100%		600mm/min

## Accessories

Accessories are available, including:-

Comprehensive Tooling Package.

Machine Vice.

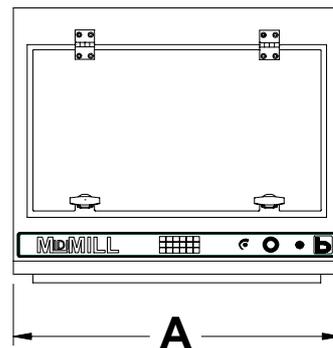
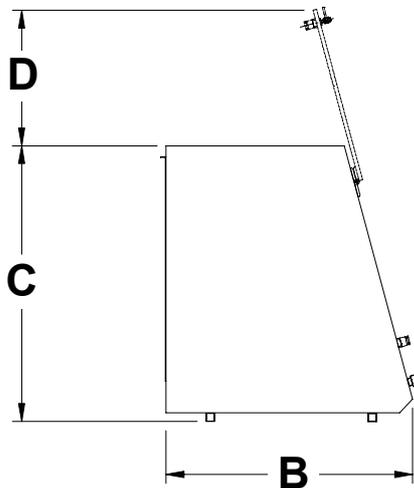
Heavy duty Workbench with Braked Castors.



## Machine Dimensions

A	840mm	C	710mm
B	630mm	D	350mm

Machine Weight - 90kg (200lbs)



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