

## CNC Lathes

The Boxford range of CNC lathes offer users unrivalled performance and ease of use. Within a matter of minutes, components incorporating external and internal profiles, including screw threads, can be designed, simulated and manufactured to close tolerances in a variety of materials.

Boxford lathes utilise industrial level programming codes and are ideal for vocational engineering training. Each machine can also be integrated into FMS/CIM systems, when fitted with optional factory fitted automated equipment.



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## 160TCLi

Fully enclosed bench top PC controlled CNC lathe with 160mm swing over bed, spindle bored to pass Ø20mm, Ø80mm precision 3-jaw self centreing chuck & precision dovetail slide construction. (Shown with optional portable cabinet base).



## 250PCI

Floor standing PC controlled CNC lathe, with removable laptop shelf and integrated locking cupboards. Features include: 250mm swing over bed, spindle bored to pass Ø35mm and Ø125mm precision 3 jaw self-centring chuck. 1-shot integrated lubrication system and flood coolant fitted as standard. (Shown without included laptop shelf).

### Standard features:

- USB interface
- Integrated touch sensitive control panel with illuminated push buttons to allow manual machining
- Pre-loaded anti-backlash ball screws on all axes
- Single seat of Boxford 'CAD/CAM Design Tools' software (Incorporating integrated LatheCAD design software and automatic design processing to a machining routine including solid 3D graphics simulation. Also includes conversational and manual programming, ideal for vocational training. Optional site/network license upgrade)

### Optional accessories:

- Comprehensive tooling set
- 8 station automatic disc turret
- Quick change tool post
- Automatic pneumatic chuck
- Manual tailstock steady
- Automatic pneumatic tailstock quill
- Portable cabinet base

| Specifications                     | 160TCLi               | 250PCI        |
|------------------------------------|-----------------------|---------------|
| Swing over bed                     | 160mm                 | 250mm         |
| Swing over x axes slide            | 70mm                  | 105mm         |
| X axis travel (cross)              | 125mm                 | 200mm         |
| Z axis travel (longitudinal)       | 125mm                 | 265mm         |
| Chuck diameter                     | 80mm                  | 125mm         |
| Spindle bored to pass              | 20mm                  | 35mm          |
| Distance between centres           | 140mm                 | 350mm         |
| Tailstock quill travel             | 75mm                  | 50mm          |
| Spindle motor                      | 750 watts             | 2200 watts    |
| Infinitely variable spindle speeds | 200-3200 rpm          | 200-3200 rpm  |
| Electrics                          | 110/220/240 V 1 phase |               |
| Programmable feed                  | 0-1500mm/min          | 0-2000mm/min  |
| Rapid feed rate at 100%            | 1500mm/min            | 2000mm/min    |
| Machine weight                     | 130kg                 | 560kg         |
| Max dimensions (w x d x h mm)      | 800x600x1025          | 2000x870x1520 |

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