



**DENFORD**

## **CYCLONE SERIES**

**2 AXIS CNC LATHES**



**CYCLONE U CNC LATHE**



**CYCLONE P CNC LATHE**

# CYCLONE SERIES

## 2 AXIS CNC LATHES

**DENFORD**

CNC slant bed lathes for advanced technical training and light production applications. The Machines come as standard with 3 Jaw Chuck, Totally-Enclosed Interlocked Guard, Programmable Flood Coolant, Installation and Instruction Manuals, Automatic Lubrication to all slides and ballscrews. Also suitable for integration into FMS/CIM systems (additional equipment must be fitted at time of manufacture).

### THE CYCLONE SERIES OF MACHINES COME AS STANDARD WITH:

- 125mm 3 Jaw Chuck.
- Totally Enclosed Interlocked Guard.
- Programmable Flood Coolant.
- Heavy Duty 8 Station Bi-directional Rotary Toolpost.
- Installation and Instruction Manuals.
- Automatic Lubrication to all slides & ballscrews.
- Industrial Cabinet Base.
- Maintenance Tools.

### CYCLONE U

Fully closed loop Servo drives to X & Z Axes.  
0-5000rpm infinitely variable spindle speeds.  
VR CNC Turning Operating Software.

### SYSTEM REQUIREMENTS (Cyclone U)

See VR CNC Turning specification

### CYCLONE P

Fitted with a built-in Fanuc 21i-TA control, for 2 axis turning of small parts.  
Fanuc 21i-TA control includes: machine operators panel & control panel with 7.2" mono screen.  
Program Format: ISO using G & M Codes.  
Programming Features include: tool geometry/wear compensation, tool nose radius compensation, reference point return, canned cycles.  
Control Features include: electronic handwheel, backlash compensation, self diagnostic functions, external & operator messages, RS232 serial interface with DNC capabilities, PCM1A slot capability.

### RECOMMENDED SOFTWARE PROGRAMS

All software necessary to control the Cyclone U & P is included. However, the software necessary to create design work is NOT included. The following software can be used with the machine:-  
LatheCAM Designer.



Cyclone U CNC Lathe

Cyclone P CNC Lathe



MECHANICAL DETAILS	CYCLONE U	CYCLONE P
Machine Length Excluding Pendant Arm Including Pendant Arm	1145mm 1895mm	1145mm n/a
Machine Depth	1150mm	1150mm
Machine Height	1550mm	1310mm
Machine Weight	750 Kgs	750 Kgs
Travel X Axis	94mm	94mm
Travel Z Axis	210mm	210mm
Max. Swing Over Bed	255mm	255mm
Max. Turning diameter	158mm	158mm
Max. Turned Length	210mm	210mm
Spindle Bore	35mm	35mm
Spindle Nose	A2-3"	A2-3"
Spindle Nose Taper	No. 5MT	No. 5MT
Distance Between Centres	300mm	300mm
Coolant Capacity	12 litres	12 litres
Programmable Spindle Speed	0-5000rpm	0-5000rpm
Mains Supply Requirements* (* Alternative supplies available on request.)	3 Phase and Neutral	3 Phase and Neutral
Spindle Motor	4 kW	4 kW
Axes Motors	Servo	Fanuc Servo
Volts	415 Volts	415 Volts
AMP	20 AMPS	20 AMPS
Hz	50 Hz	50 Hz

**To get you up and running, Denford also offer a range of CAD/CAM and CNC software, tooling packages, workholding kits, manufacturing materials, courseware, training and technical support.**

Total Commitment to Manufacturing Technology in Education and Training Worldwide. ISO9001 compliant.

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