MACH
MACHINE TOOLS

PUTTING YOU BACK IN CONTROL.

MDL 1600 AND MDL 1800 CNC FLAT BED LATHES POWERED BY DYNAPATH CONTROL TECHNOLOGY.

MACH Machine Tools has recently introduced a new range of class-leading, high-performance and value-added flat bed lathes equipped with the DynaPath WinDelta CNC control.

These machines, bearing the distinctive MACH Machine Tool brand, deliver improved productivity and operational efficiencies, and increased machining flexibility.

The machines are backed by MACH Machine Tools' renowned after-sales services which, along with their unrivalled performance and competitive price, are destined to make them firm favourites with manufacturers of prototypes, one-offs and small batch quantities.

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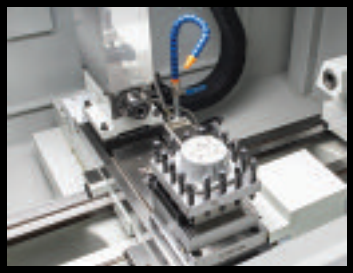
As is the case with all MACH machine tools, MDL models are supplied, as standard, with an impressive range of technology features. These include:



• 12.1 inch Touchscreen LCD • Conversational, DXF and ISO/EIA G-Code Programming • Dual Electronic Handwheel Station • Automatic 4-Way Tool Turret • Air Driven Hydraulic Spindle Disc Brake • Auto Lubrication System • Manual 8" 3 jaw Chuck for MDL 1600 • Manual 10" 3 jaw chuck for MDL 1800 • Manual Tailstock with Quill • Semi-Auto/Teach-in/Learning Mode • Work Light • Tri-Color Light Post

MACHINE SPECIFICATIONS

	MDL 1600	MDL 1800
TYPE:	Flat Bed	Flat Bed
SWING OVER BED:	ø490 mm (19.3 in)	ø550 mm (21.7 in)
SWING OVER CROSS:	ø240 mm (9.4 in)	ø265 mm (10.4 in)
X/Z TRAVEL:	230 mm/820 mm (9.1/32.3 in)	250 mm/1000 mm (9.8/39.4 in)
BED WIDTH:	300 mm (11.8 in)	380 mm (15.0 in)
SPINDLE MOTOR RATING:	7.5 kW (10.1 hp)	11 kW (14.8 hp)
SPINDLE SPEED:	10-4000 rpm	10-4000 rpm
BORE:	ø54 mm (2.1 in)	ø79 mm (3.1 in)
NOSE/TAPER:	A2-6/MT6	A2-6/MT6
TAPER:	MT6	MT6
RANGES:	Dual Winding: Low 10-900 rpm High 900-4000 rpm	Dual Winding: Low 10-900 rpm High 900-4000 rpm
MAX RAPID SPEED:	5 m/min (197 in/min)	5 m/min (197 in/min)
REPEAT ACCURACY X:	0.005 mm (0.00020 in)	0.005 mm (0.00020 in)
REPEAT ACCURACY Z:	0.006 mm (0.00024 in)	0.006 mm (0.00024 in)
POSITIONING ACCURACY X:	0.01 mm (0.00039 in)	0.01 mm (0.00039 in)
TURNING ACCURACY:	0.003 mm (0.00012 in)	0.003 mm (0.00012 in)
TURNING UNIFORMITY:	0.006 mm/100 mm (0.00024 in/3.9 in)	0.006 mm/100 mm (0.00024 in/3.9 in)
TAILSTOCK TRAVEL:	ø140 mm (5.5 in)	ø140 mm (5.5 in)
TAILSTOCK TAPER:	MT4	MT4
TAILSTOCK DIAMETER:	ø52 mm (2.0 in)	ø52 mm (2.0 in)
SIZE: W x D x H:	2650 x 1600 x 1650 mm (104 x 63 x 65 in)	3000 x 1750 x 1650 mm (118 x 69 x 65 in)
WEIGHT:	2000 kg (4409 lb)	2800 kg (6173 lb)
POWER LOAD:	3 P, 415 V, 50 A, 15 KVA	3 P, 415 V, 50 A, 15 KVA

DYNAPATH WINDELTA CONTROL

The DynaPath WinDelta CNC control provides customers with exceptional speed, flexibility and reliability.

Conversational and ISO/G code programming capability makes it easy to program on the shop floor and a 8Gb on-board program storage facility combined with a 1000 line look ahead capability, ensures fast processing speeds and responsiveness ensuring high accuracy and superior surface finishes.

Simple to understand menus are a key feature of the control and on-screen graphics help eliminate programming omissions and errors.

Functions such as datum setting using alignment; the ability to use ISO and Conversational Programming on the same platform; sub-program calling; the use of macro-programming; the ability to facilitate program simulation using toolpath or 3D rendered graphics, and the provision of programmable spindle control - are just some of the key features (and strengths) of the DynaPath control system.

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