MACH
MACHINE TOOLS

TECHNOLOGY THAT LOOKS THIS GOOD - IS THIS GOOD!

MACH MACHINE TOOLS' MDT-1 and MDT-2 TURRET TYPE MILLING MACHINES WITH THE ADVANCED DYNAPATH WINDELTA CONTROL

Our MDT-1 and MDT-2 CNC-controlled turret-type milling machines provide manufacturers with increased accuracies and surface finishes, best-in-class reliability and, like all MACH machines, great value too.

Both machines are equipped with the powerful and easy-to-use DynaPath WinDelta D1 CNC control which, along with its simple and intuitive architecture and navigation, features a 12.1" colour LCD touchscreen, 8GB program storage capability, conversational programming software, a DXF file reader and remote WiFi enabled diagnostics. All supplied as standard!

The MACH MDT-1 and, the larger capacity MDT-2, have a Meehanite cast construction and feature hardened and ground table tops and T. slots, hardened and ground slideways with a Tercite B anti-friction covering, and C3 class ball-screws that deliver high precision and long life accuracy.

The machines also feature Yaskawa-controlled VFD spindle drives that enable spindle speeds to be controlled via their DynaPath CNC control system.

+1 313 489 9667 *info@machmt.com* *www.machmt.com*

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

• 3-Axis CNC control (Z-Axis mounted on the quill) • DynaPath 12.1" LCD touchscreen CNC control • 8GB of memory • DXF File reader • Wi-Fi remote assistance • Electronic MPG • Manual hand wheels for X-, Y- and Z -Axis • Air power drawbar • MPG run • Manual DRO capability • Interlocked table guard • Coolant system with stand-on-style base splash tray • Automatic lubrication • 4th-axis capable • Program retrace • LED work light • Knee position power rise and fall on MDT-2 only.

OPTIONAL EXTRAS INCLUDE:

- **4th axis;**
- **Z knee scale.**

MACHINE SPECIFICATIONS

	MACH MDT-1	MACH MDT-2
SPINDLE TAPER:	R8	ISO40/NT40
SPINDLE RPM (EVS INVERTER):	50 - 3750 RPM	70 - 4200 RPM
SPINDLE POWER:	2.25 kW (3.0 hp)	3.75 kW (5.0 hp)
MOTORS X, Y & Z:	.96 kW (1.3 hp)	.96 kW (1.3 hp)
TABLE LENGTH:	1244 mm (49.0 in)	1500 mm (59.1 in)
TABLE WIDTH:	229 mm (9.0 in)	305 mm (12.0 in)
TEE SIZE & NO:	16 mm x 3 (0.63 in x 3)	16 mm x 3 (0.63 in x 3)
TEE SLOT OFF SET:	65 mm (2.56 in)	71 mm (2.80 in)
X AXIS TRAVEL:	735 mm (28.9 in)	1000 mm (39.4 in)
Y AXIS TRAVEL:	315 mm (12.4 in)	397 mm (15.6 in)
Z AXIS TRAVEL:	406 mm (16.0 in)	403 mm (15.9 in)
QUILL TRAVEL:	127 mm (5.0 in)	150 mm (5.9 in)
QUILL DIA:	80 mm (3.15 in)	105 mm (4.13 in)
HEAD SWIVEL:	+/- 90 Deg	+/- 90 Deg
X AXIS WAY:	Dovetail	Dovetail
Y & Z AXIS WAY:	Dovetail	Box
MAX TABLE LOAD:	340 kg (750 lb)	450 kg (992 lb)
COOLANT CAPACITY:	120 L (31.7 US gal)	140 L (37.0 US gal)
COOLANT FLOW RATE:	50 L/min - 3 bar (13.2 US gal/min - 43.5 psi)	50 L/min - 3 bar (13.2 US gal/min - 43.5 psi)
MACHINE WEIGHT:	975 kg (2150 lb)	1800 kg (3968 lb)
FLOOR SPACE W x D x H:	1670 x 1618 x 2140 mm (66 x 64 x 84 in)	1680 x 2430 x 2350 mm (66 x 96 x 93 in)
POWER REQUIREMENTS:	4 KVA 3 Ph 415 Vlts 50Hz	6 KVA 3 Ph 415 Vlts 50 Hz

DYNAPATH WINDELTA CONTROL

The DynaPath control system is versatile and facilitates both conversational and ISO/G code programming.

An 8Gb on-board (program) storage facility combined with 1000 block look ahead ensures fast processing speeds and responsiveness which help ensure high part accuracies, superior surface finishes and process control.

The DynaPath control has simple to understand menus, and the integration of on-screen graphics helps to eliminate programming omissions and errors. The provision of an advanced DXF reader, as standard, adds to the control's flexibility and appeal.

DynaPath control features

• Conversational and G code on board programming • Wi-fi enabled for diagnostics, software updates and program support • 54 work datums • 1000 line look ahead • Suggested feed and speed database • Taper pocket function • Program execution in single block • Background editing • 8 GB onboard program storage • Remote electronic hand wheel • 4th axis capability • Advanced DXF reader featuring grouped hole and contour selection • Machining of pockets with islands from DXF • Graphical event support • Tool life management • Re-ordering of programmed events • Running of program in either events or G code view • Single block program execution • Program retrace to restart a program

MACH MACHINE TOOLS

UK
MACH Machine Tools Limited
Units 1-3 Chapel Lane, Clay Hill,
Fishponds, Bristol, BS5 7EY
T: +44 (0)117 965 2706
E: info@machmt.co.uk
W: www.machmt.co.uk

USA
MACH USA Inc.
200 Republic Ave,
Joliet, IL 60435
T: +1 313 489 9667
E: info@machmt.com
W: www.machmt.com

Your local dealer