MACH
MACHINE TOOLS

GAME CHANGERS!

TECHNICALLY EXCELLENT, COMPETITIVELY-PRICED PRODUCTION-LED MACH MDV 855 AND MDV 1160 VERTICAL MACHINING CENTRES.

MACH Machine Tools' new, heavy-duty, production-led MDV 855 and MDV 1160 vertical machining centres are tough and uncompromising, and are always ready to put in a shift.

A lot like the customers they are aimed at.

As well as being supplied with the powerful PC-based and fully-closed loop DynaPath WinDelta CNC control, the machines also feature high-performance, belt-driven BT40 spindles (direct-drive 12,000rpm spindle options with spindle chiller and TSC are standard on 'S' models), a 24-position ATC, a large worktable (up to 1200mm x 600mm on the MDV 1160), and boast 36m/min rapids on all axes.

Both machines are competitively priced and are destined to give other manufacturers' equivalent-type machines 'a real run for their money.'

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

As is the case with all MACH machine tools, the MDV 855 and MDV 1160 machines are supplied, as standard, with an impressive range of technology features. These include:

- **UKCA/CE safety enclosure • Solid state hard drives**
- **Yaskawa digital drives, interlocks and electrical equipment**
- **Bed wash • 24 swing-arm ATC • C3-class PMI precision ball screws**
- **Auto-lubrication • LED machine lighting**

S MODEL FEATURES:

- **12,000rpm direct-drive spindle with chiller**
- **Through-spindle-coolant capability**
- **4th-axis drives and configuration (optional)**
- **Tool and spindle probes (optional)**

MACHINE SPECIFICATIONS

	MACH MDV 855/855S*	MACH MDV 1160/1160S*
XYZ TRAVEL:	800 x 550 x 500 mm (31.5 x 21.7 x 19.7 in)	1100 x 600 x 600 mm (43.3 x 23.6 x 23.6 in)
AXES TYPE X/Y/Z:	Linear Rollers	Linear Rollers
SPINDLE NOSE TO TABLE:	120 - 670 mm (4.7 - 26.4 in)	120 - 720 mm (4.7 - 28.3 in)
TOOL CENTER TO COLUMN:	590 mm (23.2 in)	672 mm (26.5 in)
MAX TORQUE X/Y/Z:	28.7/28.7/54 Nm (21.2/21.2/39.8 lb-ft)	54/54/71.6 Nm (39.8/39.8/52.8 lb-ft)
MAX THRUST:	10707 N (2407 lbf)	26860 N (6038 lbf)
DIAMETER:	150 mm (5.9 in)	150 mm (5.9 in)
TAPER:	BT40 / CAT40	BT40 / CAT40
BASE SPINDLE, MAX RPM:	8000 rpm Belt Drive	8000 rpm Belt Drive
RATED OUTPUT S1:	7.5 kW (10.1 hp)	11 kW (14.8 hp)
RATED OUTPUT S6-40%:	11 kW (14.8 hp)	15 kW (20.1 hp)
MAX TORQUE:	61 Nm (45.0 lb-ft)	80 Nm (59.0 lb-ft)
COOLING:	Air Cooled	Air Cooled
S MODEL SPINDLE MAX RPM*:	12,000 rpm Direct Drive	12,000 rpm Direct Drive
S MODEL RATED OUTPUT S1*:	11 kW (14.8 hp)	15 kW (20.1 hp)
S MODEL RATED OUTPUT S6-40%*:	15 kW (20.1 hp)	21 kW (28.2 hp)
S MODEL MAX TORQUE*:	95 Nm (70.1 lb-ft)	135 Nm (99.6 lb-ft)
S MODEL COOLING*:	Oil Chiller + Coolant Thru Spindle	Oil Chiller + Coolant Thru Spindle
TOOL CHANGER:	24-Station Swing-Arm	24-Station Swing-Arm
MAX TOOL DIA/WEIGHT:	Ø80 mm/8 kg (Ø3.1 in/17.6 lb)	Ø80 mm/8 kg (Ø3.1 in/17.6 lb)
MAX RAPID SPEED X/Y/Z:	36 m/min (1417 in/min)	36 m/min (1417 in/min)
MAX CUTTING FEED X/Y/Z:	20 m/min (787 in/min)	20 m/min (787 in/min)
POSITIONING ACCURACY:	0.006 mm (0.00024 in)	0.006 mm (0.00024 in)
REPEAT ACCURACY:	0.003 mm (0.00012 in)	0.003 mm (0.00012 in)
TABLE SIZE:	1000 x 500 mm (39.4 x 19.7 in)	1200 x 600 mm (47.2 x 23.6 in)
SLOTS x OFFSET x WIDTH:	5 x 90 mm x 18 mm (5 x 3.54 x 0.71 in)	5 x 100 mm x 18 mm (5 x 3.94 x 0.71 in)
MAX TABLE LOAD:	500 kg (1102 lb)	800 kg (1764 lb)
FLOOR SPACE W x L x H:	2860 x 2400 x 2370 mm (113 x 94 x 93 in)	2945 x 2500 x 2370 mm (116 x 98 x 93 in)
MACHINE WEIGHT:	5800 kg (12787 lb)	7000 kg (15432 lb)
COOLANT CAPACITY:	250 L (66.0 US gal)	350 L (92.5 US gal)
AIR REQUIREMENTS:	6 kg/cm^2 (85 psi)	6 kg/cm^2 (85 psi)
POWER REQUIREMENTS:	21 kVA, 3 Phase, 220V	25 kVA, 3 Phase, 220V

DYNAPATH WINDELTA CONTROL

The MDV machines are equipped with the DynaPath WinDelta control system, with its 15.6" LCD touchscreen user interface. The control is capable of accepting multiple programme formats via its inbuilt USB, ethernet or wireless interfaces. It can be programmed conversationally, via DXF, in ISO/EIA G-Code formats and has an in-built DFX program editor, making the control capable of accepting and editing programmes in any machine format.

The control boasts 8GB of memory, and 1000 block look ahead capability enabling fast and smooth 3D contouring.

MACH's DynaPath controlled machines are supplied with the legendary WiFi remote 24/7 service support structure that delivers real time assistance and guaranteed peace of mind.

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