



GAME CHANGERS!

**TECHNICALLY EXCELLENT, COMPETITIVELY-PRICED PRODUCTION-LED
MACH MDV 800 AND MDV 1100 VERTICAL MACHINING CENTRES.**



MACH Machine Tools' new, heavy-duty, production-led MDV 800 and MDV 1100 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 available), a 24-position ATC, a large worktable (up to 1200mm x 600mm on the MDV 1100), 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.'

As is the case with all MACH machine tools, the MDV 800 and MDV 1100 machines are supplied, as standard, with an impressive range of technology features. These include:

- UKAS/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

OPTIONAL EXTRAS INCLUDE:

- 12,000rpm direct-drive spindle with chiller
- Through-spindle-coolant capability
- 4th-axis drives and configuration
- Tool and spindle probes
- Chip conveyor

MACHINE SPECIFICATIONS

| | MACH MDV 800 | MACH MDV 1100 |
|----------------------------|------------------------------------|------------------------------------|
| XYZ TRAVEL: | 800 x 550 x 500 mm | 1100 x 600 x 600 mm |
| AXES TYPE X/Y/Z: | Linear Rollers | Linear Rollers |
| SPINDLE NOSE TO TABLE: | 120 - 670 mm | 120 - 720 mm |
| TOOL CENTER TO COLUMN: | 590 mm | 672 mm |
| MOTORS X/Y/Z: | 2.9/2.9/4.4 kW Direct Drive | 2.9/2.9/4.4 kW Direct Drive |
| DIAMETER: | 150 mm | 150 mm |
| TAPER: | BT40 / CAT40 | BT40 / CAT40 |
| BASE SPINDLE, MAX RPM: | 8000 rpm Belt Drive | 8000 rpm Belt Drive |
| RATED OUTPUT S1: | 7.5 kW | 11 kW |
| RATED OUTPUT S6-40%: | 11 kW | 15 kW |
| MAX TORQUE: | 61 N-m | 80 N-m |
| COOLING: | Air Cooled | Air Cooled |
| OPTIONAL SPINDLE, MAX RPM: | 12,000 rpm Direct Drive | 12,000 rpm Direct Drive |
| RATED OUTPUT S1: | 11 kW | 15 kW |
| RATED OUTPUT S6-40%: | 15 kW | 21 kW |
| MAX TORQUE: | 95 N-m | 135 N-m |
| 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 | Ø80 mm/8 kg |
| MAX RAPID SPEED X/Y/Z: | 36 m/min | 36 m/min |
| MAX CUTTING FEED X/Y/Z: | 20 m/min | 20 m/min |
| POSITIONING ACCURACY: | 0.006 mm | 0.006 mm |
| REPEAT ACCURACY: | 0.003 mm | 0.003 mm |
| TABLE SIZE: | 1000 x 500 mm | 1200 x 600 mm |
| SLOTS x OFFSET x WIDTH: | 5 x 90 mm x 18 mm | 5 x 90 mm x 18 mm |
| MAX TABLE LOAD: | 500 kg | 800 kg |
| FLOOR SPACE W x L x H: | 2860 x 2400 x 2370 mm | 2945 x 2500 x 2370 mm |
| MACHINE WEIGHT: | 5800 kg | 7000 kg |
| COOLANT CAPACITY: | 250 L | 350 L |
| AIR REQUIREMENTS: | 6 kg/cm ² | 6 kg/cm ² |
| 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.



**For more information call us on 0117 965 2706
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