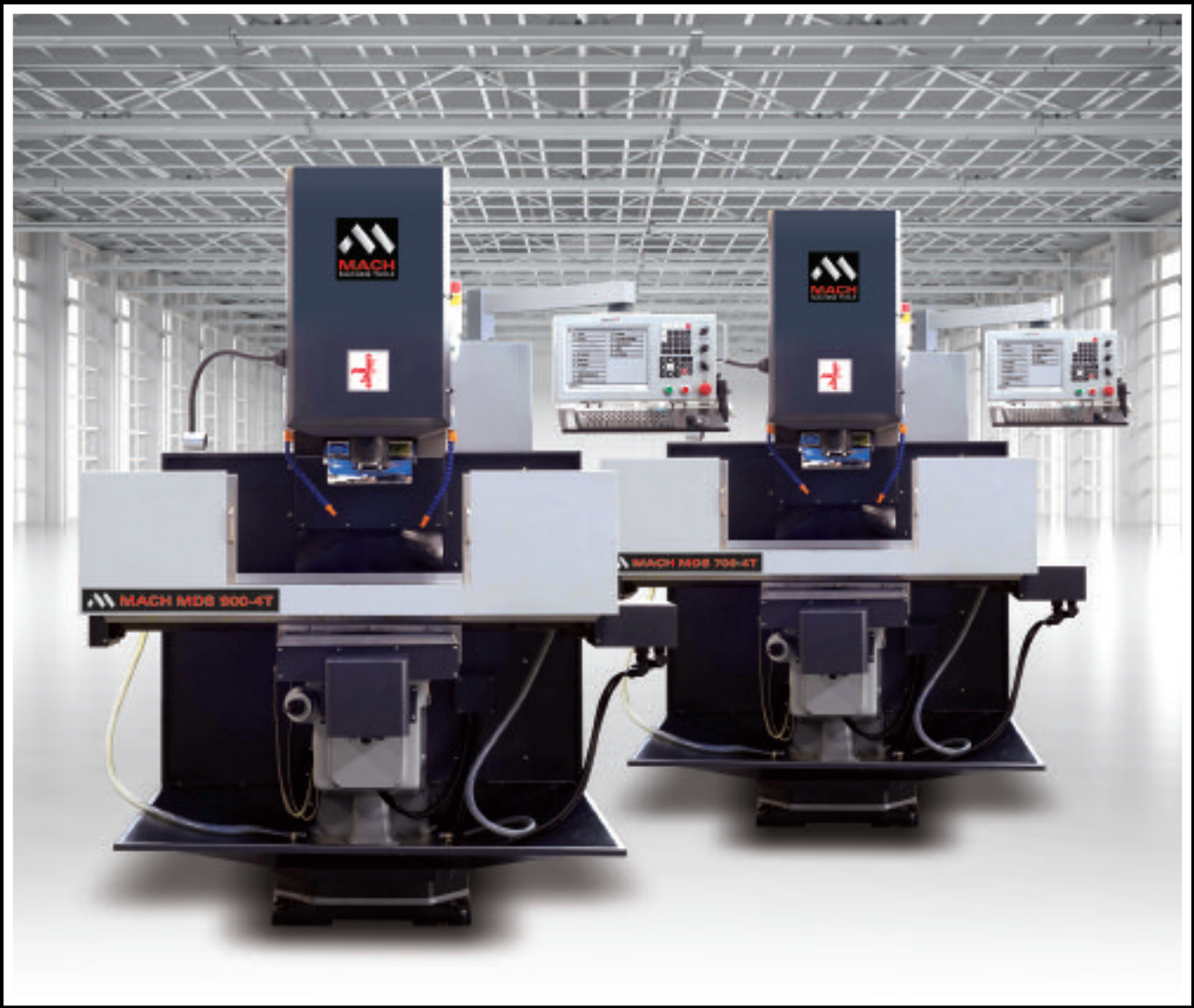
MACH
MACHINE TOOLS

ALL ACTION HEROES

Introducing the new ultra-versatile MDS 700-4T and MDS 900-4T CNC knee mills with integrated tool changers.



MACH MDS 700-4T and MDS 900-4T milling machines are innovative. Some may even say unique! These CNC/manual knee mills driven by, the now legendary, 3-Axis (4-Axis option) DynaPath WinDelta control and Yaskawa drives feature integrated, high-efficiency 4-tool position ATCs, positioned around the machines' spindles - increasing their performance, productivity and appeal.

The machines are equipped with directly-driven X-, Y-, and Z-Axes and direct-drive BT 40 spindles (5,000rpm) and can be used in manual, semi-automatic and fully automatic modes and are ideal for toolrooms and machine shops.

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As is the case with all MACH machine tools MDS 700-4T and MDS 900-4T machines are supplied, as standard, with an impressive range of technology features. These include:

• 3-Axis CNC control (Z-Axis mounted on the head) • 4-position ATC • DynaPath 12.1" LCD touchscreen CNC control • 8GB of memory • DXF File reader • Wi-Fi remote assistance • Electronic MPG • Peck drill and rigid tapping cycles • Power tool clamp • MPG run • Manual DRO capability • Interlocked table guard • Coolant/air blast system with base splash tray • Automatic lubrication • 4th-Axis capable • Program retrace • LED work light.

Optional equipment

- **4th-axis;**
- **XYZ digital handwheels.**

MACHINE SPECIFICATIONS

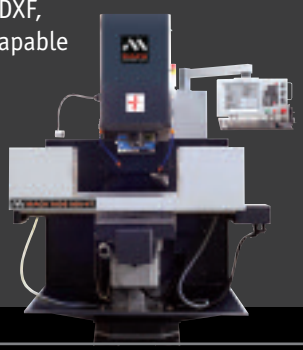
	MACH MDS 700-4T	MACH MDS 900-4T
TRAVELS X/Y/Z:	700 x 310 x 120 mm (27.6 x 12.2 x 4.7 in)	900 x 340 x 120 mm (35.4 x 13.4 x 4.7 in)
AXES TYPE X/Y/Z:	Dove / Dove / Linear	Dove / Dove / Linear
KNEE TRAVEL (Z):	350 mm (13.8 in)	350 mm (13.8 in)
SPINDLE NOSE TO TABLE:	100 - 400 mm (3.9 - 15.7 in)	100 - 400 mm (3.9 - 15.7 in)
TOOL TO COLUMN:	360 mm (14.2 in)	360 mm (14.2 in)
MOTORS X/Y/Z:	0.85 / 0.85 / 0.85 kW (1.1 hp) Direct Drive	0.85 / 0.85 / 0.85 kW (1.1 hp) Direct Drive
SPINDLE DIAMETER:	120 mm (4.7 in)	120 mm (4.7 in)
SPINDLE RPM:	50 - 5000 rpm	50 - 5000 rpm
SPINDLE DRIVE METHOD:	Direct	Direct
SPINDLE TAPER:	BT40	BT40
SPINDLE MOTOR:	3.75 kW (5.0 hp)	3.75 kW (5.0 hp)
RATED TORQUE:	24 N-m (17.7 lb-ft)	24 N-m (17.7 lb-ft)
ATC:	4-Station Arm	4-Station Arm
MAX RAPID SPEED X/Y/Z:	6000 mm/min (236 in/min)	6000 mm/min (236 in/min)
POSITIONING ACCURACY:	±0.02 µm	±0.02 µm
REPEAT ACCURACY:	±0.01 µm	±0.01 µm
TABLE SIZE:	1270 x 320 mm (50.0 x 12.6 in)	1470 x 320 mm (57.9 x 12.6 in)
SLOTS X OFFSET X WIDTH:	3 x 65.3 mm x 16 mm (3 x 2.57 x 0.63 in)	3 x 75 mm x 16 mm (3 x 2.95 x 0.63 in)
MAX TABLE LOAD:	220 kg (485 lb)	220 kg (485 lb)
MACHINE L x W x H:	1800 x 1600 x 2300 mm (71 x 63 x 91 in)	2000 x 1800 x 2300 mm (79 x 71 x 91 in)
FOOTPRINT L x W x H:	2400 x 1600 x 2650 mm (94 x 63 x 104 in)	2600 x 1800 x 2650 mm (102 x 71 x 104 in)
MACHINE WEIGHT:	1600 kg (3527 lb)	1800 kg (3968 lb)
AIR REQUIREMENTS:	6 kg/cm^2 (85 psi)	6 kg/cm^2 (85 psi)
POWER REQUIREMENTS:	8 kVA, 3 Phase, 220V	8 kVA, 3 Phase, 220V

DYNAPATH WINDELTA CONTROL

The MDS 700-4T and MDS 900-4T machines are equipped with the DynaPath WinDelta control system, with its 12.1" 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 a huge 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.



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