MACH
MACHINE TOOLS

A CNC TOOLROOM MILL SERIES WITH A DIFFERENCE!

Check out the MACH MDS 845-8T 'SPIDER' and the ULTRA-PRODUCTIVE MACH MDS 845-24S machines.

MACH Machine Tools' market-leading range of DynaPath controlled toolroom mills are popular and proven. And its new range of MDS machines with integrated tool changers are no exception.

There are two models in the range - the MACH MDS 845-8T and the MACH MDS 845-24S.

Both models deliver exceptional performance, unrivalled productivity and improved process efficiencies.

The MDS 845-8T has fast become a firm favourite with component manufacturers, and we are confident that the new, production-oriented MDS 845-24S with its 24-tool position (side-mounted) ATC with fast T-T-T (3.8 seconds) and C-T-C (8.6 seconds) changeover times, a direct-drive 12,000rpm spindle with chiller and through-spindle-coolant capabilities, and a swarf conveyor - all supplied as standard - will be equally well received.

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As is the case with all MACH machine tools, the MDS 845-8T and MDS 845-24S 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**
- **Coolant/air gun**
- **LED machine lighting**
- **End of cycle light stack**
- **Electrical cabinet air conditioning**

24-tool side mounted ATC on the MACH MDS 845-24S.

MACHINE SPECIFICATIONS

	MACH MDS 845-8T	MACH MDS 845-24S
TRAVELS X/Y/Z:	800 x 450 x 450 mm (31.5 x 17.7 x 17.7 in)	800 x 450 x 450 mm (31.5 x 17.7 x 17.7 in)
SPINDLE NOSE TO TABLE:	90 - 537 mm (3.5 - 21.1 in)	90 - 537 mm (3.5 - 21.1 in)
CENTRE OF SPINDLE TO COLUMN:	435 mm (17.1 in)	435 mm (17.1 in)
SPINDLE TAPER:	BT40	BT40
SPINDLE MAX RPM:	8000 rpm (10,000 rpm option)	12,000 rpm
TABLE SIZE:	850 x 420 mm (33.5 x 16.5 in)	850 x 420 mm (33.5 x 16.5 in)
T-SLOTS:	18 x 85 x 4 off (0.71 x 3.35 in x 4 off)	18 x 85 x 4 off (0.71 x 3.35 in x 4 off)
MAX TABLE LOAD:	220 kg (485 lb)	220 kg (485 lb)
MAX RAPID RATE:	20 m/min (787 in/min)	20 m/min (787 in/min)
MAX CUTTING RATE:	10 m/min (394 in/min)	10 m/min (394 in/min)
X/Y/Z AXIS TYPE:	Linear rail with roller bearings + Ball Screw	Linear rail with roller bearings + Ball Screw
ATC TYPE:	8-tool around spindle	24-tool side mounted
MAX TOOL DIA:	63 mm Ø (2.5 in)	63 mm Ø (2.5 in)
MAX TOOL WEIGHT:	5 kg (11.0 lb)	5 kg (11.0 lb)
TOOL CHANGE TIME (TOOL TO TOOL):	2.8 sec	3.8 sec
SPINDLE MOTOR:	5.5 kW (7.4 hp)	7.5 kW (10.1 hp)
X/Y/Z SERVO MOTOR RATING:	Yaskawa 0.85 / 0.85 / 1.3 kW (1.1/1.1/1.7 hp)	Yaskawa 0.85 / 0.85 / 1.3 kW (1.1/1.1/1.7 hp)
POSITIONING ACCURACY:	0.005 µm	0.005 µm
REPEATABILITY:	±0.003 µm	±0.003 µm
POWER REQUIREMENT:	15 kVA (supplied with 415V-220V 7kVA Transformer for UK)	15 kVA (supplied with 415V-220V 7kVA Transformer for UK)
AIR REQUIREMENT:	6 kg/cm^3	6 kg/cm^3
FOOTPRINT (L x W x H):	2200 x 2539 x 2304 mm (87 x 100 x 91 in)	2200 x 2539 x 2304 mm (87 x 100 x 91 in)
WEIGHT:	3750 kg (8267 lb)	3750 kg (8267 lb)

DYNAPATH WINDELTA CONTROL

The MDS 845-8T and MDS 845-24S 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 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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