MACH
MACHINE TOOLS

INTRODUCING THE NEW HIGH-SPEED MACH MDHS-65S MACHINING CENTRE

ALL THE SPEED YOU NEED

The MACH MDHS-65S is a high-speed machining centre designed for the fast processing of high-precision components and mould tools and copper electrodes.

The machine features a fixed, rigid and thermally-stable double column structure, roller-type linear guides, a high-speed, built-in HSK 40E spindle (7.5kW/24,000rpm), a specially-designed spindle chiller system, a servo-driven 12-tool ATC and, of course, the powerful and flexible DynaPath WinDelta control that provides 10,000-block look-ahead capability and dynamic path smoothing for high accuracy contouring and super fine surface finishes.

The MACH MDHS-65S delivers speed with control, and best-in-class process reliability.

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As is the case with all MACH machine tools, the MDHS-65S is supplied, as standard, with an impressive range of technology features. These include:

• 24,000 rpm built-in spindle • 12-position ATC (Carousel type) • Spindle chiller unit • Coolant pump • Work light and tricolour light beacon • Auto lubrication system • Coolant and chip recovery system • Electrical cabinet heat exchanger.

OPTIONAL EXTRAS INCLUDE:

- **30,000 rpm spindle;**
- **24 position ATC;**
- **X/Y/Z linear encoders;**
- **Rotary tilting table with glass scales.**

* NB: A specific high-speed machine designed for machining Graphite is also available.

MACHINE SPECIFICATIONS

	MACH MDHS-65S
TRAVELS X/Y/Z:	600 x 500 x 270 mm (23.6 x 19.7 x 10.6 in)
NOSE TO TABLE:	150 - 450 mm (5.9 - 17.7 in)
GROUND TO TABLE:	700 mm (27.6 in)
SPINDLE TAPER:	HSK40E
SPINDLE RPM/POWER:	24,000 rpm/7.5 kW (10.1 hp)
SPINDLE TORQUE:	6.1 Nm (4.5 lb-ft)
COOLING SYSTEM:	Oil-Air
ATC TYPE:	Carousel
MAGAZINE SIZE:	12 tools
MAX TOOL DIAMETER:	50 mm (2.0 in)
MAX TOOL LENGTH:	200 mm (7.9 in)
MAX TOOL WEIGHT:	3 kg (6.6 lb)
TABLE SIZE (W x H):	700 x 500 mm (27.6 x 19.7 in)
TABLE SLOTS:	5 x 100 x 14 mm (5 x 3.9 x 0.55 in)
MAX TABLE LOAD:	350 kg (772 lb)
AXIS XYZ/POWER/TYPE:	1.3/1.3/2.0 kW (1.7/1.7/2.7 hp)
RAPID SPEED:	15 m/min (591 in/min)
CUTTING FEED:	10 m/min (394 in/min)
POSITIONING ACCURACY:	0.007 mm (0.00028 in)
REPEAT ACCURACY:	0.004 mm (0.00016 in)
MACHINE WEIGHT:	3800 kg (8378 lb)
FLOOR SPACE (L x W x H):	2400 x 2800 x 2200 mm (94 x 110 x 87 in)
POWER REQUIREMENTS:	3 Phase, 208 to 230 V, 50 A

DYNAPATH WINDELTA CONTROL

The MDHS-65S is 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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