



MATERIAL REMOVAL

Cincinnati HMC 800 MAX

Horizontal Machining Centers



Cincinnati HMC 800 MAX built for power and speed for high-torque, high-precision machining applications

- Up to 2000 mm high x 1300 mm diameter work envelope
- 2-pallet automatic work changer with integral load/unload station
- Large access doors allow easy and versatile part access and setup
- High-capacity/heavy-duty automatic tool changer with storage up to 240 tools
- High dynamic stiffness for repeatable machining performance for hard metal applications
- Symmetrical dual ballscrew design

High-performance HMC solution for aerospace, oil & gas, and industrial manufacturing solutions.

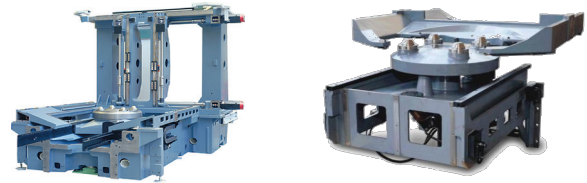
TECHNICAL SPECIFICATIONS		4-axis	5-axis
Machine Range			
X-axis	mm (in)	1425 (56.1)	1425 (56.1)
Y-axis	mm (in)	1350 (53.1)	1350 (53.1)
Z-axis	mm (in)	1265 (49.8)	1265 (49.8)
B-axis	degrees	Continuous	Continuous
A-axis	degrees	N/A	180 (+60/-120)
Work envelope (HxD)	mm	2000 x 1300	2000 x 1300
Accuracies ISO 230-2			
X/Y/Z Bi-Directional	mm (in)	0.009 (0.00035)	0.009 (0.00035)
A/B Bi-Directional	ArcSec	8 (B-only)	8
Repeatability			
X/Y/Z Bi-Directional	mm (in)	0.006 (0.00023)	0.006 (0.00023)
A/B Bi-Directional	ArcSec	6 (B-only)	6
Spindles			
Speed	rpm	10000	6000 (2 speed gearbox)
Power	kW (hp)	46 (62) S6-60	45 (60) S6-60
Torque	Nm (lb-ft)	1128 (832) S6-60	1146 (845) S6-60
Tool Interface	Options	HSK-100A, KM4X100, ANSI 50	HSK-100A, KM4X100, ANSI 50
Automatic Work Changer			
Number of Pallets		2	2
Pallet Sizes		800x800/800x1000 opt.	800x800/800x1000 opt.
Pallet Load	kg (lbs)	2200 (4850)	2200 (4850)
Tool Changer			
Capacity	pockets	40 std/80/120/160/240	40 std/80/120/160/240
Tool Weight	kg	30	30
Tool Length	mm	550	550
Tool Diameter	mm	300 spaced	300 spaced
Feedrates			
XYZ-axes	m/min (in/min) ipm	45 (1772)	45 (1772)
B-axis	deg/min	9000	9000
A-axis	deg/min	N/A	3600
Linear Acc/Dec Rates			
XYZ-axes	G	0.5	0.5
Controls for both 4-axis and 5-axis			
Siemens 840D sl, Fanuc Sli			

Equipped with a fast, heavy-duty automatic work changer, the HMC 800 MAX is capable of handling pallet loads up to 2200 kg and pallet size options up to 800mm x 1000mm for over-sized parts. The machines can also be easily integrated into cells for multi-machine processing.

STRUCTURAL STABILITY

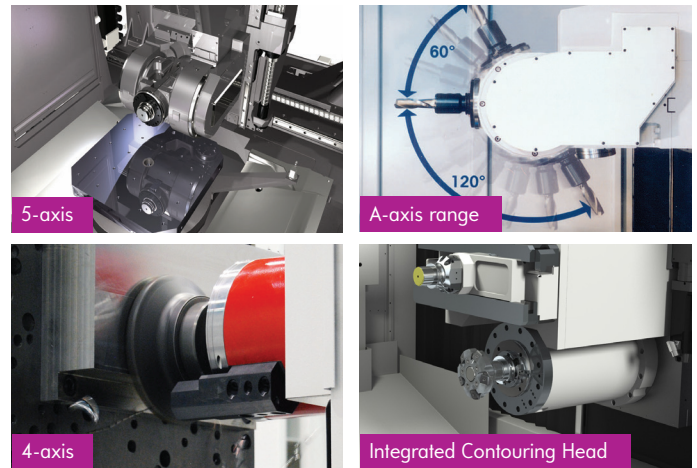
The HMC 800 MAX combines high spindle torque and power with high dynamic machine stiffness to provide efficient hard metal processing.

- High strength, single-piece, modular cast bridge structure provides superior damping to maximize rigidity
- Symmetrical dual ballscrew design on XYZ axes provides speed stiffness and maximized thermal stability for precision accuracy
- Precision roller linear guideways allow fast positioning rates
- Rigid and light-weight spindle saddle allows high vertical acceleration and axes feedrates
- Absolute scales provide precision and accuracy



HIGH TORQUE/OUTPUT SPINDLE CONFIGURATIONS

The HMC 800 MAX spindle configuration is designed for aggressive high-torque machining of hard metals: steel, titanium, inconel, cast iron, and compacted graphite iron.



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