

Fives Cincinnati HMC 800 MAX

Horizontal Machining Centers



Fives Cincinnati HMC 800 MAX horizontal machining centers - built for power and speed for high-torque and high-precision machining applications

- Large part capacity, up to 2000 mm high x 1300 mm diameter work envelope
- High-performance HMC solution for aerospace, oil & gas, and industrial manufacturing applications
- Symmetrical dual ballscrew design provides speed, stiffness and maximized thermal stability
- High feedrates and acceleration/deceleration combine with balanced spindle torque and power for high metal removal rates
- 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
- Spindle configuration included: 5-axis, 4-axis, and IHC offerings
- Cell and robotics configurations available

Technical Specs

HMC 800 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
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	0.5G	0.5G
Controls for both 4-axis and 5-axis			
Siemens 840D sl, Fanuc Sli			

Complex part manufacturing

The HMC 800 MAX combines twin ballscrew driven axes in XYZ, an infinite contouring B-axis table, and available compact u-frame A-axis tilt spindle for full five-axis contour machining of complex part geometries. All combined, the HMC 800 MAX delivers machining capability with balanced speed, accuracy and range for complex part manufacturing, with reduced part setups for better quality and lowest cost-per-part manufacturing.

High-efficiency part processing

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

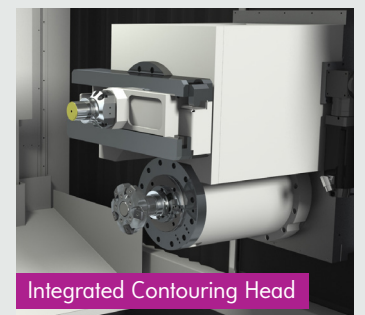
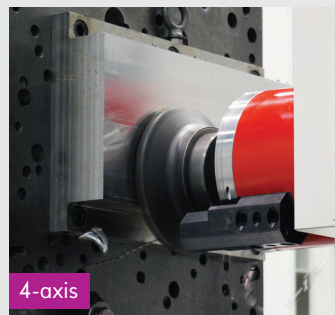
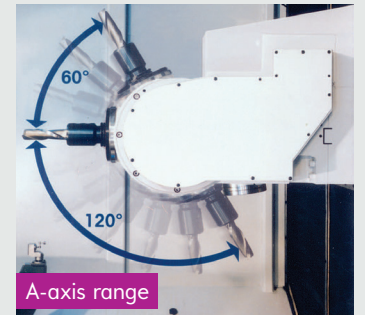
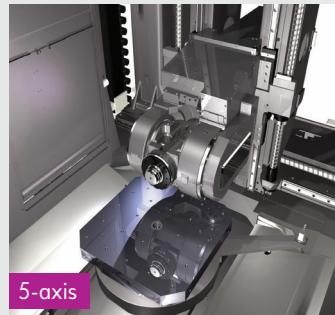
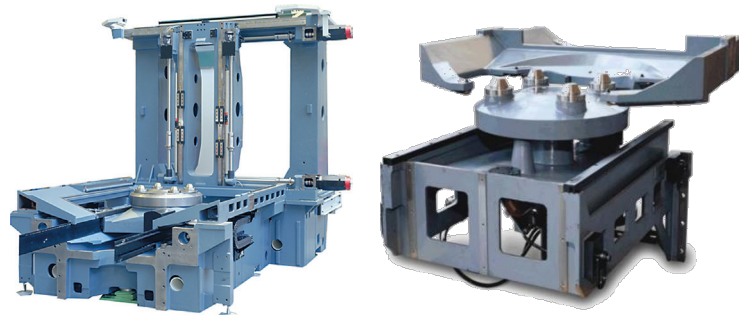
Structural stability for heavy-duty machining

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, nodular cast bridge structure provides superior damping to maximize rigidity
- Symmetrical dual ballscrew design on XYZ axes offers thermal stability for precision accuracy
- Rigid and light-weight spindle saddle allows high vertical acceleration and axes feedrates
- High dynamic stiffness for repeatable machining performance for hard metal applications
- Precision roller linear guideways allow fast positioning rates
- Absolute scales provide precision and accuracy

High Torque / High 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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