

TOYODA



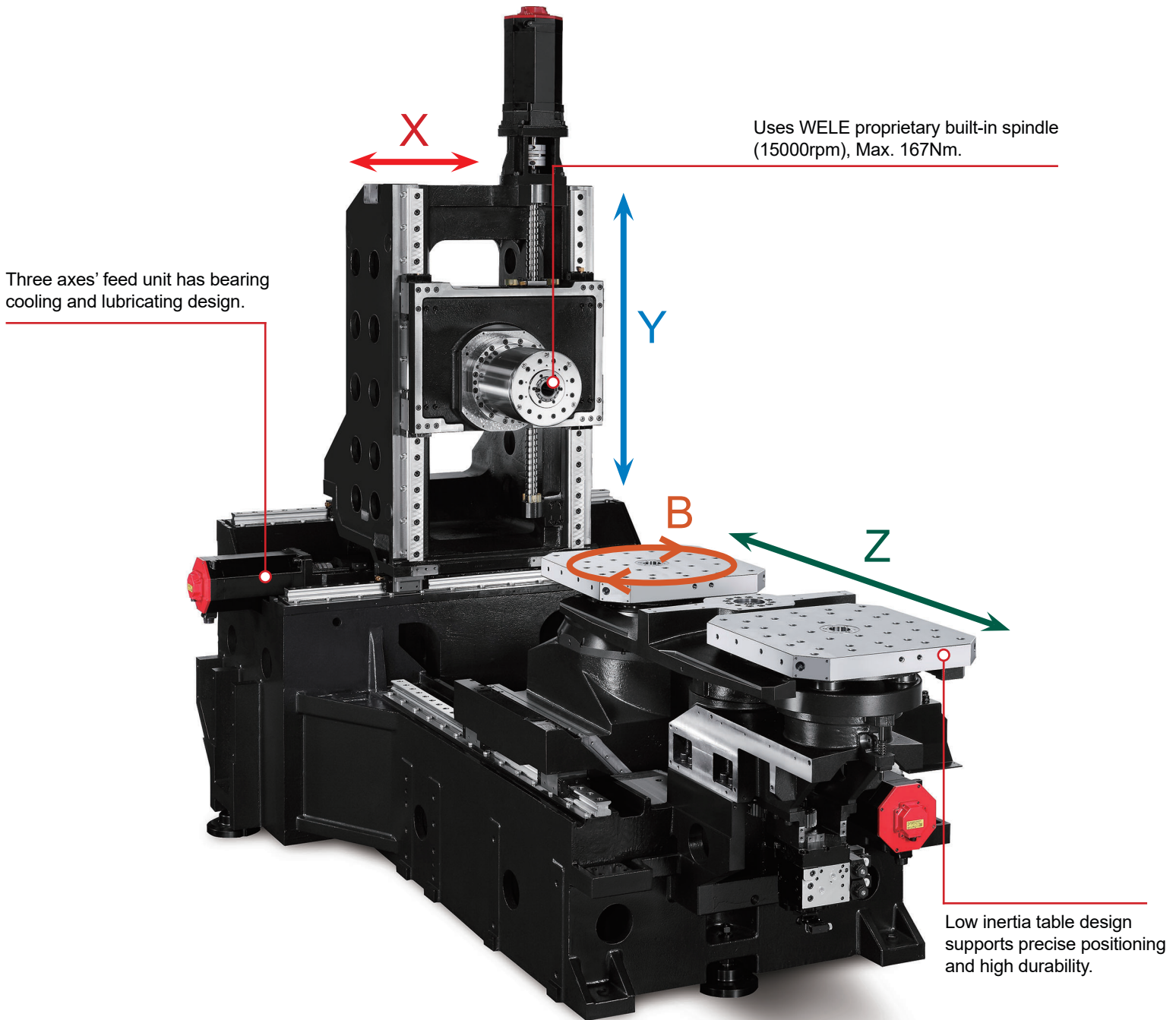
HMC500

Horizontal Machining Center



HMC500 SERIES FEATURES

- Larger working range
- 60 tool magazine and rapid ATC mechanism
- Available for extended to FMS (Flexible Manufacture System)



Standard Options

- Fanuc 0iMF Control
- NC Table (Contour Capable)
- 60 Tool Magazine
- 500mm x 500mm Pallet
- X, Y, Z Scales
- 15K 30HP Spindle

Friendly and Compact Design

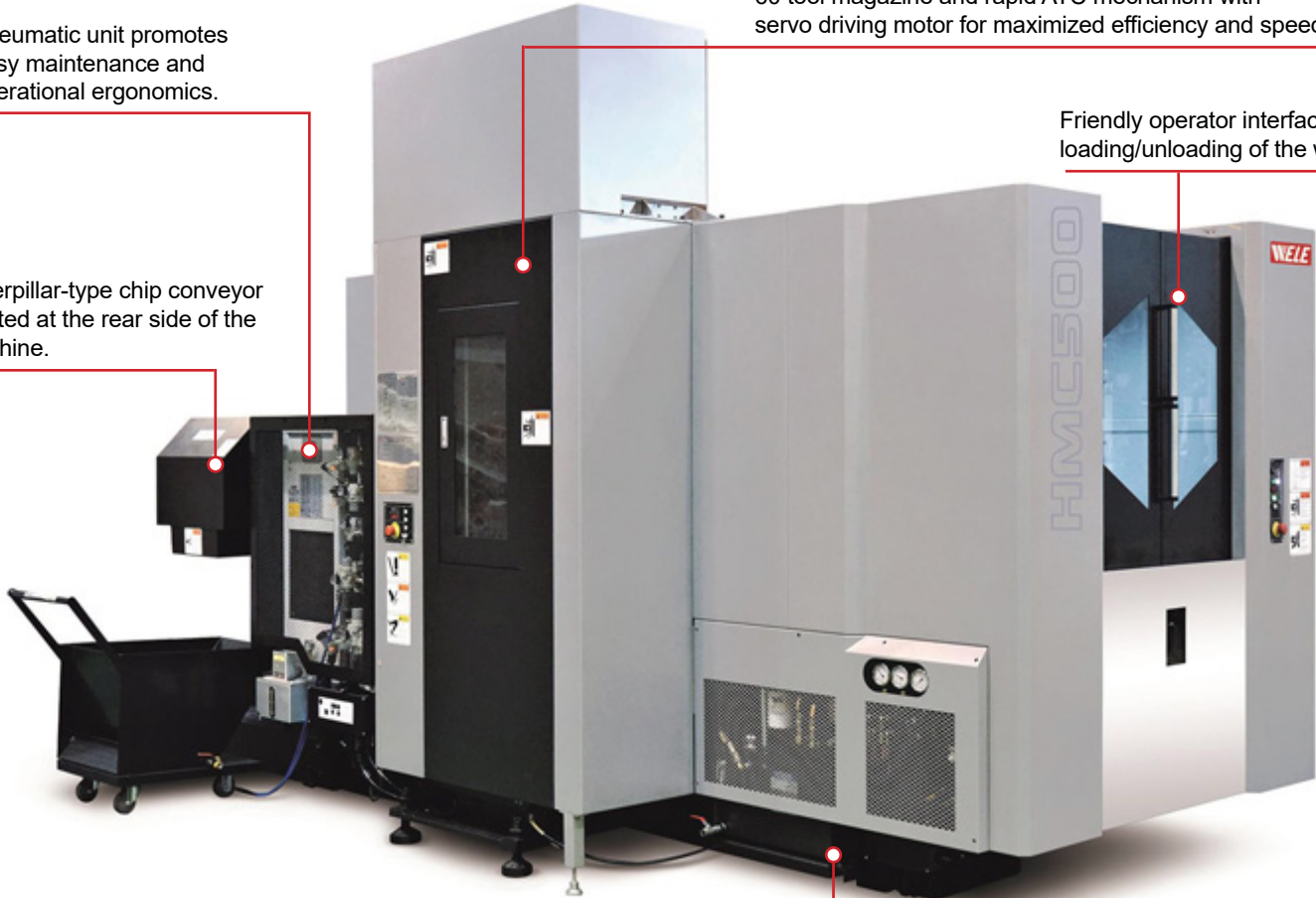
From the convenience of the fully loaded Fanuc CNC controls within the servos, drives and motors, to the premier cylindrical linear roller guideways, the HMC500 was designed to promote precision performance on a larger work envelope for high-speed operations.

Pneumatic unit promotes easy maintenance and operational ergonomics.

Caterpillar-type chip conveyor located at the rear side of the machine.

60 tool magazine and rapid ATC mechanism with servo driving motor for maximized efficiency and speed.

Friendly operator interface for easy loading/unloading of the workpiece.

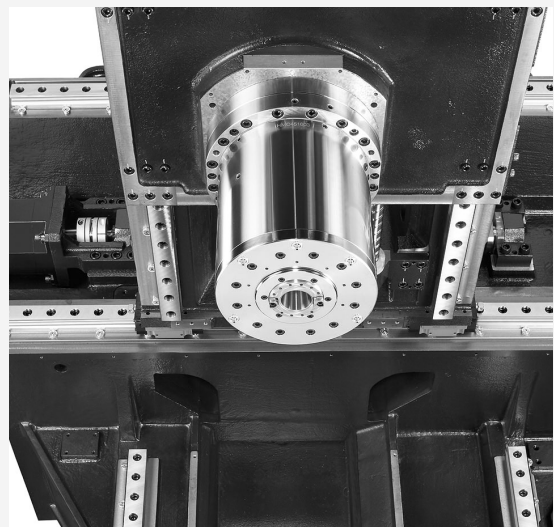
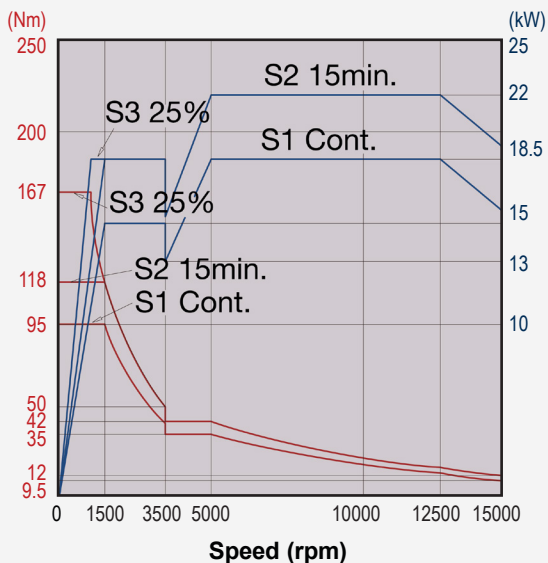


Three point level casting system for increased stability

Specifications subject to change.

Spindle Output Torque Chart

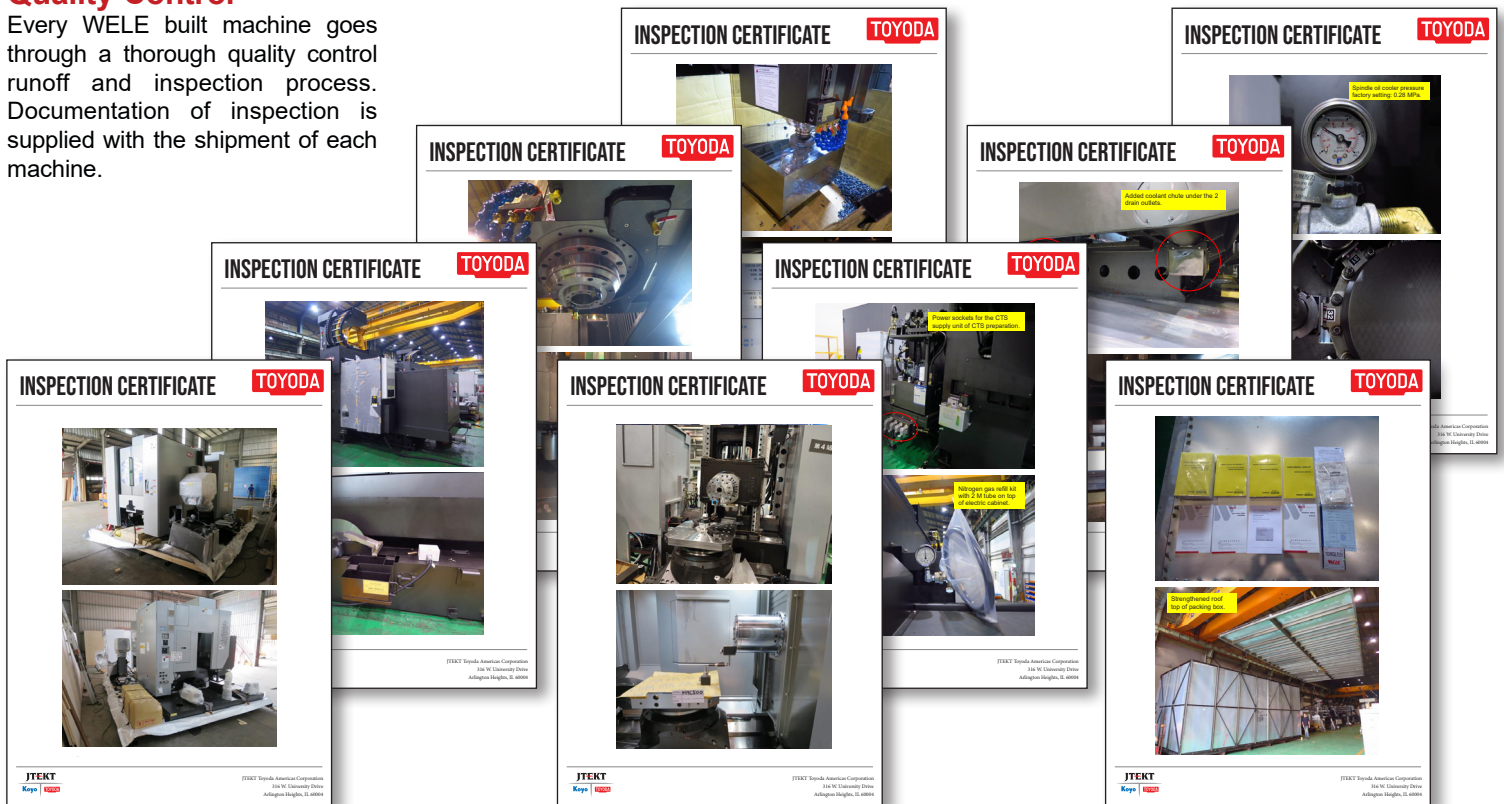
15000rpm Built-in spindle with Fanuc α B112L-15000i



Work Area	Unit	HMC500
X-axis Travel	in (mm)	25.2" (640)
Y-axis Travel	in (mm)	24" (610)
Z-axis Travel	in (mm)	26.8" (680)
B-axis Travel	degree	.001
Spindle Nose to Rotary Table Center	in (mm)	2.36" (60)
Spindle Center to Top Face of Pallet	in (mm)	1.97" (50)
Workpiece Swing	in (mm)	ø 29.5" X 35.43" (ø 750 X 900)
Workpiece Height	in (mm)	35.5" (900)
Table and Pallet		
Pallet Size	in (mm)	19.7" x 19.7" (500 x 500)
Minimum Indexing Angle	degree	.001
Pallet Height from Floor	in (mm)	43.3" (1,100)
Number of Pallets	pieces	2
Maximum Pallet Load	lb (kg)	1,102 (500)
Spindle		
Spindle Drive Motor	hp (kW)	30 (22.3)
Spindle Speed	RPM	15,000
Spindle Output Torque	ft-lb (Nm)	123 (167)
Spindle Taper	—	CAT40
Feeds		
Rapid Feed Rate (X, Y, Z axes)	ipm (m/min)	2,362 (60)
Acceleration (X, Y, Z)	G	1
Way Design	—	Linear Roller
Working Feed/Rapid Feed in the B axis	rpm	33.1 / 1.1 seconds / 90 degree
Tool Magazine		
Magazine Capacity	pockets	60
Type of Stored Tool	—	CAT #40 V Flange / Pullstud : MAS Type I P40T
Maximum Tool Weight	lb (kg)	17.6 (8)
Maximum Tool Size (diameter x length)	in (mm)	ø 3.15" x 15.7" (ø 80 x 400)
Tool Change Time (tool-to-tool)	sec	1.2
Tool Change Time (chip-to-chip)	sec	3.6
UTILITIES		
Total kVA Required	kVA	51
DIMENSIONS		
Machine Height	in (mm)	115.6" (2,936)
Floor Space (length x width)	in (mm)	181.2" x 104.3" (4,603 x 2,650)
Weight	lb (kg)	25,350 (11,500)
CONTROL		Fanuc 0iMF

Quality Control

Every WELE built machine goes through a thorough quality control runoff and inspection process. Documentation of inspection is supplied with the shipment of each machine.



About JTEKT Corporation

JTEKT was formed in 2006 from the merger of two Japanese companies with a long-time presence in North America. The merger combined the steering and bearing expertise of Koyo Seiko (operating in North America since 1958), and the machine and driveline expertise of Toyoda Machine Works (operating in North America since 1977). The merger created a global company capable of providing a diverse array of technology-driven, high-quality products to the world's leading automakers.

About WELE: A Toyoda Strategic Alliance Company

The story of WELE Mechatronic Co., Ltd. begins in 1973 with Mr. Y. C. Kuan. In hopes of taking Taiwanese manufacturing to an international level, the manufacturing professor began working closely with American machine tool builders to study advanced machining techniques.



Equipped with extensive machining knowledge and experience, Mr. Kuan and his team left the institute to begin their own CNC machinery company. This equipment had proven to be a strong competitor in domestic and international markets, and in 2005, Toyoda Machinery USA became the company's exclusive North American importer.

Mr. Kuan and his team parted ways with the company in 2007 to start WELE Mechatronic Co., Ltd. Backed by the JTEKT Corporation, WELE was operational within the year. As a Toyoda Strategic Alliance Company, WELE began exporting machines for Toyoda's C-frame and bridge mill lineups. Since then, WELE has expanded the product offering to moving cross rail mills, boring and gantry mills, vertical turning centers, and multi-milling turning centers. As a majority shareholder, JTEKT Corporation holds WELE products to the same quality standards as the Toyoda lineup. Fanuc 31i



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