

ROKU-ROKU

HC-548EX

Super Hybrid Concept

Hard Milling

Graphite Milling



High Rigidity Structure

- Superior high-speed and high-precision machining is achieved by the unique high-rigidity bridge type structure and machine design seeking dynamic accuracy.
- Minimized distance between guide surface and spindle center provides greater stability.
- High rigidity bed with ideal rib distribution has been designed by computer analysis.
- With linear scales included as standard equipment, Roku-Roku guarantees static positioning accuracy of ± 0.0001 " and ± 0.00006 " repeatability and actual measured circularity 0.0001".

Extended Speed Range

- Capable of a wide range (200 through 32,000 RPM) using a long-life AC motor.

Multiple Applications

- High-speed direct hard milling can be done dry or by a semi-dry (oil-mist) system. (Optional)
- A full machine enclosure, sealed way and ball screw covers, and pressurized linear scale housings protect machine against all graphite dust.
- The Super PCIII function is equipped for a selection of optimum machining modes: high-speed, standard or high-precision mode.

High Rigidity Tool Holders on HC-548EX

- Utilizing double contact HSK-E40 holders, the spindle achieves clamping rigidity six times higher when compared to a regular BT shank.

Z-axis Balance Cylinder

- Air Balance Cylinder is, standard on the HC-548EX. This reduces load for the ball screw and servo motor allowing for smooth motion of the Z-axis.

Fanuc 31i-A5 Super High-Speed Processor & AI Contour Control II

- The Fanuc 31i-A5 is a "NANO CNC System" with Intelligent Velocity Control, NANO Interpolation and NANO Smoothing. The look ahead has been expanded to 1000 blocks.

Highest Precision and Productivity
for Graphite and Hard Milling

Now Available

from MC Machinery Systems, Inc

Travels

X-axis travel (spindle head left/right)	18.1"
Y-axis travel (table forward/backward)	14.1"
Z-axis travel (spindle head up/down)	10.2"
Heidenhain Linear Scales	(STD)
Distance from Table Surface Spindle Nose	5.9" ~ 16.1"

Super Spindle Unit
32,000 RPM

SPECIFICATIONS

HC-548EX	
X x Y x Z Travels (in.)	18.1" x 14.1" x 10.2
Table Work Area (in.)	23.6" x 14.1
Table to Spindle Nose Distance (in.)	5.9" ~ 16.1
Max. Workpiece Weight (lb.)	440
Table Height from Floor (in.)	31.5
Positioning Accuracy Full Stroke	±0.0001"
Repeatability	±0.00006"
Actual Measured Circularity (2.0 Dia At 8 IPM)	0.0001"
Spindle Speed	200 ~ 32,000 RPM
Spindle Taper	HSK-E40
Spindle Air Purge	Standard
Air Blast through Spindle	Standard
Linear Scales X, Y, Z-axes	Heidenhain 0.00001mm Standard
ATC (Automatic Tool Changer)	12 Position Standard
Rapid Traverse Speed (Max)	1181"/min
Cutting Speed (Normal Mode)	0.01 - 315"/min
Cutting Speed (High Speed Mode) (Max)	1181"/min
Dust Collection System	Amano PiE-30 Standard
Machine Weight (lb.)	8,830
Machine Height (in.)	98.4"
Required Floor Space (Machine Unit) (in.)	78.7" x 108.7"
Control Unit	Fanuc 31i-A5 with AI Contour Control II
Power Required	200 ~ 220V 22KVA
Air Supply	21 cu.ft./min @ 72 psi

DIMENSIONS

