

HC-548EX

ROKU-ROKU

SINCE 1903

Super Hybrid Concept

Hard Milling

Graphite Milling

Highly Rigid 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 ± 0.0001 " and ± 0.00006 " repeatability and actual measured circularity of 0.00001 ".

Extended Speed Range

- Capable of a wide range (200 through 32,000 RPM) using a specially designed long-life AC motor. Ideal for micro drilling and milling applications.

Z-axis Balance Cylinder

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

Fanuc 31i-B5 Super High-Speed Processor & AI Contour Control II

- The Fanuc 31i-B5 is a "NANO CNC System" with Intelligent Velocity Control, NANO Interpolation and NANO Smoothing. The look ahead has been expanded to 1000 blocks .

Multiple Applications

- High-speed direct hard milling can be done by dry or semi-dry (oil-mist) systems.
- A full machine enclosure, sealed way and ball screw covers, and pressurized linear housings trap and contain all graphite dust.
- Patented Amano PiE-30 transfers the graphite-contaminated air within the enclosure to a disposable plastic bag.



Highest Precision and Productivity
for Graphite and Hard Milling

Now Available

From MC Machinery Systems, Inc.

**MC MACHINERY
SYSTEMS, INC.**
a subsidiary of  Mitsubishi Corporation

ROKU-ROKU

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SPECIFICATIONS

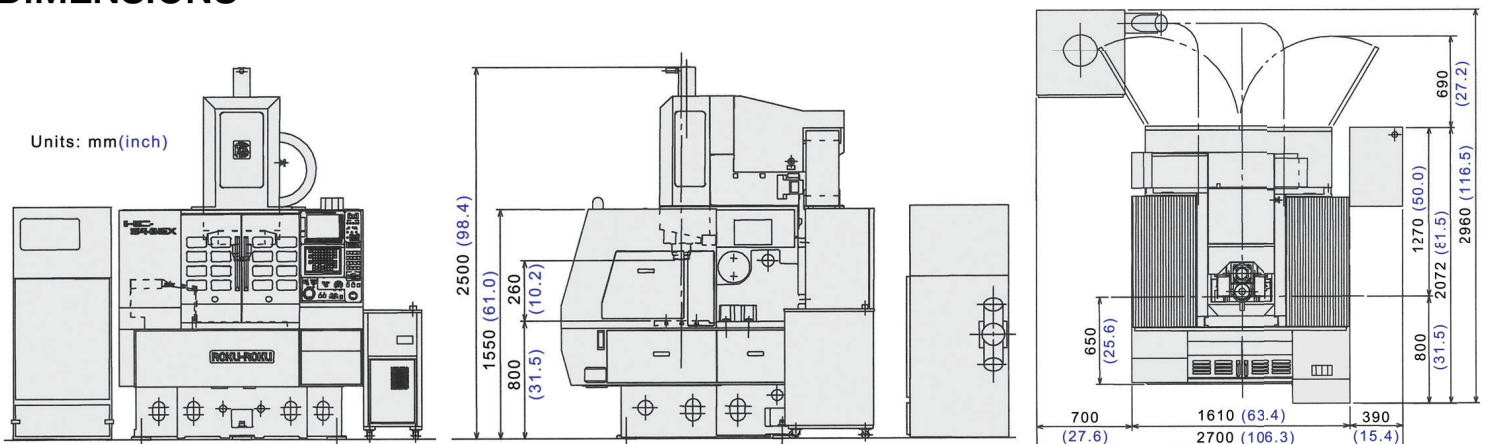
HC-548EX	
X x Y x Z Travels (in.)	18.1" x 14.1" x 10.2
Table Work Area (in.)	23.6" x 14.1
Table to Spindle Nose Distance (in.)	5.9" ~ 16.1
Max. Workpiece Weight (lb.)	440
Table Height from Floor (in.)	31.5
Positioning Accuracy Full Stroke	±0.0001"
Repeatability	±0.00006"
Actual Measured Circularity (2.0 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

DUST PROTECTRION AND COLLECTION

As a graphite machining center, great care was taken in consideration of providing the best in dust collection and prevention. The HC Series provides a full enclosure cover and dust preventive structure for ways, screws, and ATC as standard equipment. The high-performance Amano PiA-30M Dust Collector is capable of changing the working area air six times per minute. The dust collection and protection during graphite machining both outside and inside of the machine, such as ball screw and LM guide rail for work table, are perfectly complete.



DIMENSIONS



Machine Height: 98.4" Installation Footprint: 106.3" x 116.5" Machine Weight: 8,830lbs.
 Power Requirement: 200V +/-10%, 60 Hz, 22kVA Compressed Air Supply: 21.2cu.ft./min. @ 72psi.

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