

ROKU-ROKU

HC-435

Super Hybrid Concept

Hard Milling

Graphite Milling



The Ultimate Machine For Small
Electrode Making and Micro-Milling

Now Available
from MC Machinery Systems, Inc

Travels

Spindle Head Longitudinal Travel (X-axis)	16.00"
Table Cross Travel (Y-axis)	13.00"
Spindle Head Vertical Travel (Z-axis)	7.9"
Heidenhain Linear Scales	(STD)
Distance Between Table Top And Spindle Nose	7" ~ 14.9"

Super Spindle Unit
36,000 RPM

- **High Rigidity Structure**
 - High rigidity, bridge-type monoblock structure allows high-speed, high-precision machining surpassing dedicated graphite machining by far.
 - 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 $\pm 0.000040''$ and $\pm 0.000012''$ repeatability.
- **Extended Speed Range**
 - Capable of a wide speed range (3,000 through 36,000 RPM) using a specially designed, long-life AC motor. Ideal for micro drilling and milling applications.
- **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-15 transfers the graphite-contaminated air within the enclosure to a disposable plastic bag.
- **High Rigidity Tool Holders**
 - Utilizing double contact RS-20 holders, the spindle achieves clamping rigidity six times higher when compared to a regular BT shank.
- **Z-axis Balance Cylinder**
 - Balance Cylinder, standard equipment on HC-435, reduces load for the ball screw and servo motor allowing smooth motion of the Z-axis.
- **Fanuc 31i-A5 Super High-Speed Processor & AI Contour Control**
 - 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.

MC Machinery Systems, Inc. • 1500 Michael Drive • Wood Dale, IL 60191 • P 630-616-5920 • F 630-616-4068

Visit Website: www.rokuroku.com

SPECIFICATIONS

HC-435		X x Y x Z Travels (in.)
Table Work Area (in.)		23.6 x 13.0
Table to Spindle Nose Distance (in.)		7.0 ~ 14.9
Max. Workpiece Weight (lb.)		220
Positioning Accuracy Full Stroke		±0.000040"
Repeatability		±0.000012"
Actual Measured Circularity (2.0" dia. @8 IPM)		0.000039"
Spindle Speed		3,000 ~ 36,000 RPM
Spindle Taper Customized		RS-20
Spindle Air Purge		Standard
Air Blast through Spindle		Standard
Linear Scales X, Y, Z-axes		Heidenhain 0.000002mm Standard
ATC (Automatic Tool Changer)		11 Position Standard (30 or 60 with option)
Rapid Traverse Speed		590"/min
Cutting Speed (Normal Mode)		0.04 - 394"/min
Cutting Speed (GR Super PC Mode)		590"/min
Dust Collection System		Amano PiE-15 Standard
Machine Weight (lb.)		5500
Machine Height (in.)		85.4
Required Floor Space (Machine Unit) (in.)		51.2 x 73.5
Control Unit		Fanuc 31i-A5 with AI Contour Control II
Power Required		200 ~ 220V 12.5KVA
Air Supply		14.1 cu.ft./min @72 psi

DIMENSIONS

