

# ROKU-ROKU

## MEGA-400

### Super Hybrid Concept

Small Hole Drilling

Micro Fine Milling



#### 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 range (3,000 through 40,000 RPM) using a long-life AC motor. Ideal for micro drilling and milling applications.

#### Multiple Applications

- High-speed direct hard milling can be done by dry machining.
- Flush system is ideal for soft material machining and micro drilling.
- Mega-precision capability is ideal for non-metallic machining ie, Soda Glass, Zirconia and Machinable Ceramics.

#### High Rigidity Tool Holders

- Utilizing double contact HSK-E25 holders, the spindle achieves clamping rigidity six times higher when compared to a regular BT shank.

#### 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.

The Ultimate Machine For Small Hole Drilling and Micro Fine Milling

Now Available  
from MC Machinery Systems, Inc

#### Travels

X-axis travel (spindle head left/right)	16.0"
Y-axis travel (table forward/backward)	13.0"
Z-axis travel (spindle head up/down)	7.9"
Heidenhain Linear Scales	(STD)
Distance from Table Surface to Spindle Nose	

Super Spindle Unit  
40,000 RPM

# SPECIFICATIONS

<b>MEGA S-400</b>	
X x Y x Z Travels (in.)	16.0 x 13.0 x 7.9
Table Work Area (in.)	23.6 x 13.0
Table to Spindle Nose Distance (in.)	1.97 ~ 9.84
Max. Workpiece Weight (lb.)	220
Coolant Tank Capacity (gal.)	20
Positioning Accuracy Full Stroke	±0.000040"
Repeatability	±0.000012"
Actual Measured Circularity (2.0" dia. At 8 IPM)	0.000039"
Spindle Speed	3,000 ~ 40,000 RPM
Spindle Taper	HSK-E25
Spindle Air Purge	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)	0.01 - 394"/min
Cutting Speed (GR Super PC Mode)	590"/min
Machine Weight (lb.)	5500
Machine Height (in.)	81.5
Required Floor Space (Machine Unit) (in.)	63.0 x 81.7
Control Unit	Fanuc 31i-A5 with AI Contour Control II
Power Required	200 ~ 220V 12.5KVA
Air Supply	9 cu.ft./min @ 72 psi

# DIMENSIONS

