

# ROKU-ROKU

## CEGA-542

### Machining Center for High-Speed, High-Precision Milling, Drilling and Tapping



#### High Rigidity Structure

- High rigidity, bridge-type monoblock structure allows high-speed, high-precision machining.
- 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  $\pm 0.000020''$  repeatability.

#### Extended Speed Range

- Capable of a wide speed range (200 through 30,000 RPM) using a 20HP AC spindle motor. Ideal for micro drilling and tapping applications.

#### Multiple Applications

- Standard Coolant plus oil mist systems cover both high accuracy production plus hard milling applications.
- Optional Amano Dust Collection System combined with oil mist allows graphite machining with hard milling.

#### High Rigidity Tool Holders

- 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

- Dual Balance Cylinders, standard equipment on the CEGA-542, reduced load for the ball screw and servo motor.

#### 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 Milling, Drilling and Tapping

Now Available

from MC Machinery Systems, Inc

#### Travels

Travel (x-axis)	20.00"
Travel (Y-axis)	16.10"
Travel (Z-axis)	12.20"
Heidenhain Linear Scales	(STD)
Distance from Table Surface to Spindle Nose	5.9" ~ 18.1"

**Super Spindle Unit**  
30,000 RPM

# SPECIFICATIONS

<b>CEGA II-542</b>	
X x Y x Z Travels (in.)	20.0 x 16.0 x 12.0
Table Work Area (in.)	25.5 x 16.0
Table to Spindle Nose Distance (in.)	5.9 ~ 18.0
Max. Workpiece Weight (lb.)	440
Coolant Tank Capacity (gal.)	40
Positioning Accuracy Full Stroke	±0.000040"
Repeatability	±0.000020"
Actual Circular Cutting (4.0" dia. @ 8 IPM)	0.000044"
Spindle Speed	200 ~ 30,000 RPM
Spindle Taper	HSK-E40
Oil Mist with Collector	Standard
Linear Scales X, Y, Z-axes	Heidenhain 0.000002mm Standard
ATC (Automatic Tool Changer)	12 Position Standard (30 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.)	11,000
Machine Height (in.)	100
Required Floor Space (Machine Unit) (in.)	79.5 x 78.0
Control Unit	Fanuc 31i-A5 with AI Countour Control II
Power Required	200 ~ 220V 32KVA
Air Supply	17.5 cu.ft./min @ 72 psi

# DIMENSIONS

