

ROKU-ROKU RMX-50V

High-Speed High-Precision 5-Axis Vertical Machining Center

Highly Rigid Structure

Box type case base with Mono-Block bridge casting provides 3-point leveling

High-Accuracy

Roku-Roku produces ± 0.000060 " X-Y-Z positioning and ± 0.000020 " repeatability with a dual feed-back system using linear scales

Z-axis Balance Cylinders

Dual Balance Cylinders reduces the load for the ball screw and servo motor allowing smooth motion of the Z-axis

Extended Spindle Speeds

Capable of a wide range (200 ~ 30,000 RPM) using a long-life AC motor with large ceramic bearings

Tilting Rotary Table

Rotary Table provides the ability to carry up to a 220 lb. workpiece
Total tilt angles range from -110 through +110 degrees with a minimum input angle of 0.0001 degrees.

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.



ROKU-ROKU

SINCE 1903

MC Machinery Systems, Inc.

The Roku-Roku RMX-50V is Built to Jig-Borer Standards of Quality and Accuracy.

Standard Accessories Package

Z-Axis Thermal Growth Compensation
 Full Sealed Enclosure
 30,000-RPM Integral Motor Spindle
 Linear Scale for XYZ
 Spindle Chiller
 60-Position Automatic Tool Changer
 Non Contact Tool Measurement (Blum Laser)
 Flood coolant system
 Coolant Gun
 Tool Tightening Block
 Automatic Power Shut Down Circuit
 Air Purge
 10.4" Color LCD
 Two Stage Patrol Lamp
 Two Machine Lamps
 Tool Box
 Maintenance Kit
 Leveling Bolts and Pads
 Instruction Manuals
 Electrical Schematics
 Accuracy Test Documentation
 Spindle Load Meter
 Inch/Metric Switching

Machine Specifications

RMX-50V	
X x Y x Z Travels (in.)	23.6 x 19.6 x 15.7
Rotary Table Face (in)	7.9
Rotary Table to Spindle Nose Distance (in.)	3.9 ~ 19.6
Max. Workpiece Weight (lb.)	220
Rotary Table Height from Floor (in.)	33.5
Rotary Axis Speed	22.2 RPM
Tilt Axis Speed	12.5 RPM
Maximum Inertia	1.53 kg-m-sec ²
Tilting Angle Range	-110 ~ +110 deg
Positioning Accuracy Full Stroke	±0.000060"
Repeatability	±0.000020"
Actual Measured Circularity (2.0 Dia At 8 IPM)	0.000078"
Spindle Speed	200 ~ 30,000 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)	60 Position Standard
Rapid Traverse Speed	787"/min
Cutting Speed (Normal Mode)	0.01 -315"/min
Cutting Speed (GR Super PC Mode)	787"/min
Coolant System	92.5 gal
Machine Weight (lb.)	17,610
Machine Height (in.)	116.6
Required Floor Space (Machine Unit) (in.)	126 x 149
Control Unit	Fanuc 31i-A5 with AI Contour Control II
Power Required	200 ~ 220V 34.5KVA
Air Supply	21 cu.ft./min @ 72 psi

Machine Layout / Floor Plan (inch)

