**Highly Rigid Structure**
- High rigidity, bridge-type monoblock structure allows high-speed, high-precision machining surpassing typical “C-Frame” construction 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 ±0.000040" and ±0.000012" repeatability.

**Extended Speed Range**
- Capable of a wide range (3,000 through 40,000 RPM) standard and up to 60,000 RPM optional, using a long-life integral AC motor. Ideal for micro drilling and milling applications.

**Z-axis Balance Cylinder**
- Single Balance Cylinder, standard equipment on MEGA SSS-400 / 600, 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 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.
**SPECIALS:**

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>MEGA SSS-400/600</th>
</tr>
</thead>
<tbody>
<tr>
<td>X x Y x Z Travels (in.)</td>
<td>16.1 x 13.0 x 7.9</td>
</tr>
<tr>
<td>Table Work Area (in.)</td>
<td>23.6 x 13.0</td>
</tr>
<tr>
<td>Max. Load on Table (lb.)</td>
<td>220</td>
</tr>
<tr>
<td>Distance Table to Spindle Nose (in.)</td>
<td>1.97 ~ 9.84</td>
</tr>
<tr>
<td>Linear Scales X, Y, Z-axes</td>
<td>Heidenhain 0.000002mm Standard</td>
</tr>
<tr>
<td>Positioning Accuracy Full Stroke</td>
<td>±0.000039 (±1.0µm)</td>
</tr>
<tr>
<td>Repeatability</td>
<td>±0.000012 (±0.3µm)</td>
</tr>
<tr>
<td>Actual Measured Circularity (2.0&quot; dia. at 8 IPM)</td>
<td>0.000039&quot; (1.0µm)</td>
</tr>
<tr>
<td>Spindle Speed</td>
<td>3,000~40,000 (60,000 RPM w Opt.)</td>
</tr>
<tr>
<td>Spindle Motor Power HP</td>
<td>40,000 RPM = 4.7 (60,000 RPM = 3.5)</td>
</tr>
<tr>
<td>Spindle Taper</td>
<td>HSK-E25</td>
</tr>
<tr>
<td>Spindle Air Purge</td>
<td>Standard</td>
</tr>
<tr>
<td>ATC (Automatic Tool Changer)</td>
<td>20 Position Standard (40 or 60 w option)</td>
</tr>
<tr>
<td>Rapid Traverse Speed</td>
<td>590&quot;/min.</td>
</tr>
<tr>
<td>Cutting Speed (Normal Mode)</td>
<td>0.01 ~ 394&quot;/min.</td>
</tr>
<tr>
<td>Cutting Speed (GR Super PC Mode)</td>
<td>590&quot;/min.</td>
</tr>
<tr>
<td>Machine Weight (lb.)</td>
<td>5,732</td>
</tr>
<tr>
<td>Machine Height (in.)</td>
<td>82.3</td>
</tr>
<tr>
<td>Required Floor Space w Options W x D</td>
<td>74.4&quot; x 78.7&quot;</td>
</tr>
<tr>
<td>Control Unit</td>
<td>Fanuc 31i-B5 with 5-axis package</td>
</tr>
<tr>
<td>Power Required</td>
<td>200~220VAC 14.0 kVA w options</td>
</tr>
<tr>
<td>Air Supply</td>
<td>9 cu.ft./min. @ 72 psi</td>
</tr>
</tbody>
</table>

**Roku-Roku MEGA SSS-400/600**

Precision 3-Axis Machining Center

Unit: mm (inch)

Machine Height: 82.3"  Installation Footprint: 79.1" x 105.9"  Machine Weight: 5,732lbs.

Power Requirement: 208V +/-10%, 60Hz, 14.0kVA  Compressed Air Supply: 9.0cu.ft./min. @ 72psi.