

# UW 505

## Universal 5-Axis Workstation

ROFIN-SINAR offers the UW 505 Universal Workstation for precision 3D laser processing. The UW 505 was developed specifically to address industry's need for a compact, turnkey CNC laser processing workcell for 3D applications.

With over 40 years of experience in laser technology, ROFIN offers expertise in tooling design, process development, engineered solutions, and technical support. This unique combination of technology and experience allows us to offer the most comprehensive support in the industry.

### Features

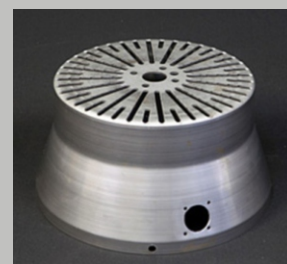
- Compact footprint
- CDRH Class 1 enclosure
- Integrated design for quick, easy installation
- Siemens 840D control
- Precision linear motors and drives
- Direct drive rotary for beam and part

### Process Advantages

- Cutting, Welding, Surface Treatment
- Low thermal input
- Materials of varying thicknesses
- Variety of materials can be processed
- 3D CAD/CAM software
- Automatic fixture design within software

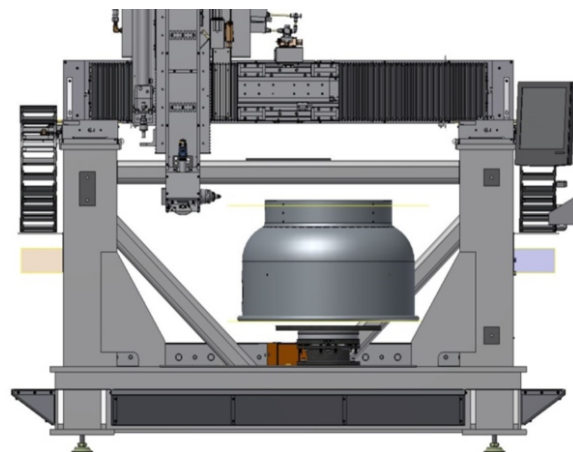
### ROFIN Fiber Laser

- Power 500W–6000W
- Robust, modular design
- ROFIN RCU control
- Integrated scanner control



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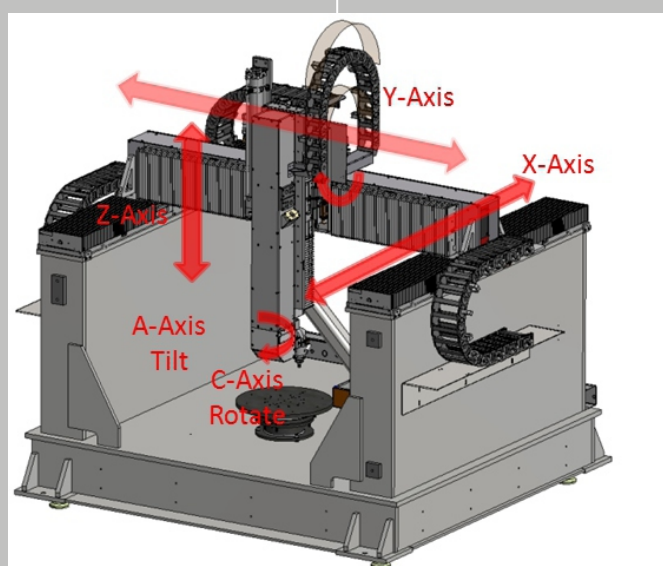


### Workstation Specifications

- Siemens 840Di CNC Control
  - Siemens HMI operator interface
  - USB, Ethernet networking capability
  - Integrated into UW with ergonomic placement
  - 460V, 60Hz, 3-phase

### Mechanical/Motion Specifications

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>● X and Y-Axis Drives:               <ul style="list-style-type: none"> <li>● Travel:</li> <li>● Max travel speed:</li> <li>● Position accuracy:</li> <li>● Repeatability:</li> </ul> </li> </ul>  | <p><b>Linear Motors</b></p> <p>39.0"</p> <p>1600 IPM</p> <p>± .001"</p> <p>± .0005"</p>   |
| <ul style="list-style-type: none"> <li>● Z-Axis Drive:               <ul style="list-style-type: none"> <li>● Travel:</li> <li>● Max travel speed:</li> <li>● Position accuracy:</li> <li>● Repeatability:</li> </ul> </li> </ul>   | <p><b>Linear Motor</b></p> <p>18.0"</p> <p>1600 IPM</p> <p>± .001"</p> <p>± .0005"</p>  |
| <ul style="list-style-type: none"> <li>● A/C - Axis Vertical Rotary Drive:               <ul style="list-style-type: none"> <li>● Travel:</li> <li>● Max travel speed:</li> <li>● Position accuracy:</li> <li>● Position repeatability:</li> <li>● Weight limitation (Part + Fixture):</li> </ul> </li> </ul> | <p><b>Direct Drive Motor</b></p> <p>Continuous rotation</p> <p>120 RPM</p> <p>± 10 arc second</p> <p>± 5 arc second</p> <p>100 lbs.</p> |
| <ul style="list-style-type: none"> <li>● B - Axis Tilt:               <ul style="list-style-type: none"> <li>● Travel:</li> <li>● Max travel speed:</li> <li>● Position accuracy:</li> <li>● Position repeatability:</li> </ul> </li> </ul>   | <p><b>Direct Drive Motor</b></p> <p>± 110° from vertical</p> <p>500° per second</p> <p>± 10 arc second</p> <p>± 5 arc second</p>        |



MACRO

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