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Model SPR-1
Solar Panel Resizer

FOR LARGE PARTS AND HIGH SPEED

- **Large Area Production Tool**
- **Precision Laser Resizing of Silicon Solar Panels**
- **Non-Contact, Pure Energy**
- **Separated X/Y Stage (Gantry)**
- **X-axis Moves Beam Overhead**
- **Y-axis Moves Part**
- **Shown here is a machine to resize large silicon solar panels**

Model SPR Laser Tool for Cutting Silicon Solar Panels

Model SPR-1 is a high speed silicon resizing production tool. It features an overhead gantry (a separated X/Y stage) to move both beam and part. High speed cutting is provided by a powerful fiber laser

SPR-1 comprises an overhead linear motor driven Y-axis moving beam and a lower X-stage to move the vacuum platen holding the solar panel or wafer.

The main ideas are to reduce footprint, and to increase speed and acceleration by reducing mass. Normally, precision tool pins are used to define part position with reference to the stage zero and travel.

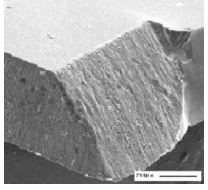
Please check out our website at www.laserod.com

This custom machine processed large solar panels.

SPECIFICATIONS*:

- **Laser Safety:** CDRH Class I rated for eye safe operation without goggles. Interlocked.
- **Laser:** Solid State YAG type, fiber
- **Kerf Loss:** 30-50 microns
- **Speed:** Depending on thickness and laser power
- **Wavelength:** 1064nm (IR)
- **Average Power:** Depends on choice of laser
- **Viewing:** Magnified through the lens using video camera and flat panel display
- **Magnification:** 60X viewing, real time on video monitor
- **Targeting:** Electronic crosshairs visible on the monitor
- **Motion:** Closed loop driven by linear motors, optional dc servo motors
- **Travel:** Up to 60” x 60”
- **Programming:** PC with CAD/CAM software to convert dxf to laser machining code, also known as picture to part—go direct from your drawing to motion.
- **Monitors:** Flat panel display for (1) computer and (2) video inspection of part
- **Frame:** Welded steel frame, unified, compact construction, minimal footprint
- **Laser Coolant:** Water
- **Power:** 220 VAC, 50/60Hz, single phase, 15 or 30a service depending on laser
- **Weight:** Depends on size of part which determines system size
- **Footprint:** Depends on part size
- **Options:** Type of laser, optics, linear or servo motors, resolution, software, Z-follower, and fume/particulate removal

*Specifications subject to change or improvement.



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