VLS Desktop Series
Laser Technology on Your Desktop

The VLS 2.30 and 3.50 desktop lasers are the easiest ways to get started with laser technology. Roughly the size of a printer, a VLS desktop laser packs sophisticated laser processing capabilities into an attractive, durable package. An optional computer-controlled air cleaner cart is available that allows a VLS desktop laser to be used without a dedicated exhaust system, making installation and operation even simpler. The ease of use and small footprint of the VLS desktop laser makes it easy to fit laser technology into your business, whatever it might be.

Laser Technology Benefits

- **Software Controlled** - The laser can be controlled by any software with a print function.
- **Multi-Material** - Process an endless number of materials available today and in the future.
- **Multi-Process** - Cut, engrave, mark, and produce photo images in one step.
- **Non Contact** - Modify material without applying any physical force.
- **On Demand** - Produce everything you need in real time, without waiting for hard tooling.

Uniquely Universal Features

- **ULR Laser Sources**
  Universal’s patented air-cooled free-space gas slab lasers produce an excellent quality beam with even power distribution and good near- and far-field characteristics, making them ideal for laser material processing.

- **High Power Density Focusing Optics™**
  High Power Density Focusing Optics (HPDFO) allow the laser beam to be focused to a much smaller spot, making it possible to engrave smaller text and produce sharper images at tighter tolerances.

- **Laser Interface™**
  This materials-based driver automatically determines the optimum processing settings for your target material. Just select the material type, enter in the material thickness, and start the laser system.

- **1-Touch Laser Photo™**
  1-Touch Laser Photo is a proprietary software package that makes it quick and easy to produce photographic images on nearly any material.
# System Specifications

<table>
<thead>
<tr>
<th></th>
<th>VLS2.30</th>
<th>VLS3.50</th>
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<tbody>
<tr>
<td><strong>Work Surface Area</strong></td>
<td>406 x 305 mm</td>
<td>610 x 305 mm</td>
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<tr>
<td><strong>Maximum Part Size</strong></td>
<td>476 x 370 x 102 mm</td>
<td>679 x 370 x 102 mm</td>
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<tr>
<td><strong>Dimensions</strong></td>
<td>660 x 356 x 635 mm</td>
<td>864 x 356 x 635 mm</td>
</tr>
<tr>
<td><strong>Rotary Capacity</strong></td>
<td>Max Diameter 127 mm with 38.1 mm lens&lt;br&gt;Min Diameter 25.4 mm with 50.8 mm lens</td>
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<tr>
<td><strong>Motorized Z Axis Lifting Capacity</strong></td>
<td>9 kg</td>
<td></td>
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<tr>
<td><strong>Available Focus Lenses</strong></td>
<td>38 mm&lt;br&gt;51 mm *standard</td>
<td></td>
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<tr>
<td><strong>Operating System Compatibility</strong></td>
<td>Requires a dedicated PC to operate. Compatible with Windows XP/Vista/7 – 32/64 bit</td>
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<tr>
<td><strong>PC Connection</strong></td>
<td>USB 2.0</td>
<td></td>
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<tr>
<td><strong>Cabinet Style</strong></td>
<td>Desktop</td>
<td></td>
</tr>
<tr>
<td><strong>Optics Protection</strong></td>
<td>Plumbed for compressed-air-based optics protection</td>
<td></td>
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<tr>
<td><strong>Laser Options</strong></td>
<td>10, 25, 30 Watts</td>
<td>10, 25, 30, 40, 50 Watts</td>
</tr>
<tr>
<td><strong>Approximate Weight</strong></td>
<td>32 kg</td>
<td>43 kg</td>
</tr>
<tr>
<td><strong>Power Requirements</strong></td>
<td>110V/10A; 220V-240V/5A</td>
<td></td>
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<tr>
<td><strong>Exhaust Connection</strong></td>
<td>One 76 mm port&lt;br&gt;255 m³/hr at 1.5 kPa</td>
<td>One 76 mm port&lt;br&gt;425 m³/hr at 1.5 kPa</td>
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</tbody>
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**USA**
7845 E. Paradise Lane
Scottsdale, AZ 85260
+1 480-483-1214
moreinfo@ulsinc.com

**Japan**
The Yokohama Landmark Tower
15th Fl. 2-2-1-1 Minato Mirai
Nishi-ku Yokohama-shi
Kanagawa-ken 220-8115 JAPAN
+81 45-224-2270
japansales@ulsinc.com

**Europe**
Lerchenfelder Gürtel 43
1160 Vienna, Austria
+43 1-402-22-50
eurosales@ulsinc.com

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1. Work area varies by speed and throughput
2. Maximum part size defined as used with 1.5 lens

**CAUTION** 
This Class 1 enclosure provides for safe operation without the need for an interlocked room or protective eyewear.