AcuPulse™ 40WG CO₂ Laser with FiberLase™ CO₂ Fiber

Dependable Performance Where You Want It
Expand your range of surgical procedures with the AcuPulse™ 40WG CO₂ laser and FiberLase™ CO₂ fiber. You can now guide the power of the CO₂ laser with the palm of your hand, while the two meter long, resilient FiberLase CO₂ fiber gets the laser beam to exactly where you need it.

The AcuPulse 40WG CO₂ laser assures highest control of beam delivery through the flexible fiber for smart tissue management. Three laser operation modes and three timed exposure modes give you freedom to customize beam delivery for your patient and the task at hand. Up to 40 Watts in Continuous Wave, 15 Watts in SuperPulse and 35 Watts Pulser energy, ensure treatment speed when you want it.

High quality, dependable fiber for treatment efficiency.

Durable fiber with excellent energy transmittance and renewable tip.

Compatibility with flexible endoscopes gives you access to the hardest to reach areas.
A variety of handpieces to assure you have the right tool for each patient’s treatment.

A clear aiming beam helps you precisely target and treat only the tissue you want.

Internal air supply avoids the hassle of gas management during surgery.

Three laser operation modes and three timed exposure modes for highest level of control.

**Example Clinical Applications:**
- Laser/tumor surgery in the larynx, pharynx, nasal, ear and oral structures and tissue
- Benign and malignant lesions and fibromas (nose and nasal passages)
- Benign and malignant tumor resection of oral, subfacial and neck tissues
- Stapedotomy
- Partial glossectomy
- Pulmonary bronchial and tracheal lesion removal
- Adult and juvenile papillomatosis polyps
- Stenosis, including subglottic stenosis
## Quality Beam Performance

Greater power with less beam divergence allows for maximal precision.

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**AcuPulse 40WG CO₂ Laser Technical Specifications**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>GA-0000140</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser Type</td>
<td>CO₂ Laser, sealed-off, DC excited</td>
</tr>
<tr>
<td>Wavelength</td>
<td>10.6 micron, infrared</td>
</tr>
<tr>
<td>Mode Structure</td>
<td>TEMoo</td>
</tr>
<tr>
<td>Laser Operating Modes</td>
<td>Continuous Wave (CW), Pulsed, SuperPulse</td>
</tr>
<tr>
<td>CW Power</td>
<td>1 - 40 W</td>
</tr>
<tr>
<td>SuperPulse Average Power</td>
<td>0.5 - 15 W</td>
</tr>
<tr>
<td>Pulsed Average Power</td>
<td>1 - 35 W</td>
</tr>
</tbody>
</table>

### Tissue Exposure Modes

<table>
<thead>
<tr>
<th>Type</th>
<th>Power (W)</th>
<th>On time (sec)</th>
<th>Off time (sec)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous</td>
<td>1.0 - 4.5</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>5.0 - 40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Pulse</td>
<td>1.0 - 4.5</td>
<td>0.05 - 1.00</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>5.0 - 40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Repeat Pulse</td>
<td>1.0 - 4.5</td>
<td>0.01 - 1.00</td>
<td>0.01 - 1.00</td>
</tr>
<tr>
<td></td>
<td>5.0 - 40</td>
<td></td>
<td></td>
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</tbody>
</table>

### Controls

- Multi-color, high resolution touch panel & footswitch

### Aiming Beam

- Up to 5mW red diode laser, 635 nm, adjustable intensity, blink on/off

### Beam Delivery

- Lumenis FiberLase CO₂ fiber

### Memory Settings

- 100 + custom memory setting capacity

### Laser System Cooling

- Self-contained, closed cycle

### CO₂ Fiber Cooling

- Self-contained internal low-flow air pump or option of external pressurized purge gas

### Electrical

- 100 – 240 VAC, 9 A, 50/60 Hz

### Dimensions

- 35 cm W x 40 cm D x 129 cm H (14.6 W x 15.8” D x 51” H)

### Weight

- 50 kg (110 lbs)

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**FiberLase CO₂ Fiber, Single-use disposable**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>2 meter long, 1.04mm outside diameter</th>
</tr>
</thead>
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<tr>
<td>Spot Size</td>
<td>295µm at fiber output</td>
</tr>
</tbody>
</table>

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1 Internal test Rpt – R&D PH-SB-201 Rev.0  
2 Other fiber manufacturer's reported beam divergence numbers

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