Lumenis Holmium Laser Fiber Line

Performance, Reliability and Flexibility
Lumenis fibers are specifically tailored and validated for optimal performance with the Lumenis family of lasers:
- Customized optical connection.
- Exact match of the optical specifications such as spot size, focal point location and focus angle.

**Risks of using non-Lumenis fibers**
The optical incompatibility of non-Lumenis fibers could result in energy loss due to leakage and decreased energy transmission, possibly affecting safety, clinical effectiveness, and overall laser system quality in the following ways:
- Reduced energy transmission may result in delivering less energy to tissue than the laser screen indicates, resulting in reduced and unexpected tissue or lithotripsy effect.
- Leaking energy may cause damage to the laser debris shield, delivery device, scope, or laser system. Leaking and may burn patient and/or operator.
- Leaking energy may cause premature fiber wear, resulting in suboptimal performance or fewer than expected number of uses for reusable fibers.

**Smart Fibers**

Lumenis’ fiber line also includes integrated SIS (Smart Identification System) technology which enables system detection of which fiber has been connected. These reusable and single-use fibers are custom designed to work with Lumenis laser systems.

**SIS Fiber**

- Self-retained cap protects fiber and laser from debris and damage
- Colored jacket improves visibility and provides additional strength, but is not necessary to channel energy
- Ergonomic connector displays name, size and lot number for convenience and tracking
- Robust strain relief minimizes fiber breakage at connector
- Cladding helps to keep laser energy within core
- Low OH silica core delivers full energy to treatment area
- Integrated SIS technology detects which fiber is connected
Variety of Delivery Solutions

**SlimLine™ family of fibers**
Designed for durability, flexibility and versatility in urological procedures.
- Available in 272, 365, 550 and 1000 micron.
- SlimLine™ 200 D/F/L the Smooth Tip fiber: Is designed for flexible ureteroscopy procedures. Enabling smooth initial fiber insertion through a deflected scope.
- Xpeeda™ D/S/L side-fire fiber: A tailored solution for BPH vaporization delivers maximal energy directly to the tissue while working in full contact.

**SlimLine SIS Endo**
- Suitable for orthopedic, neurology, spine surgery and pulmonary procedures
- Single-use, end-fire fibers
- Available in 272, 265 and 550 microns

**SlimLine SIS GI**
- Designated for ablation, vaporization, incision, excision, resection, coagulation and homeostasis in GI indications such as biliary/bile duct calculi, benign and malignant neoplasm.
- Single-use, end-fire fibers
- 365 micron
- Specialized fiber tip allows for easy passage through a cholangioscope.

**Risk Information:**
The use of the Lumenis Pulse™ and VersaPulse® PowerSuite™ laser systems and delivery devices in urology is contraindicated for patients who are unable to receive endoscopic treatments or are intolerant to prolonged anesthesia, as well as for resection or excision of large vascularized organs. Holmium lasers are intended solely for use by physicians trained in the use of the Ho:YAG (2.1 μm) wavelength. Incorrect treatment settings can cause serious tissue damage. The laser should be used only on tissues that are fully observable. See the system’s user manual for a complete list of contraindications and risks.
## Fiber Specifications

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<tbody>
<tr>
<td>Maximal input energy (J)</td>
<td>2</td>
<td>1.5</td>
<td>6</td>
<td>6</td>
<td>1.5</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>2</td>
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<tr>
<td>Maximal repetition rate (Hz)</td>
<td>80</td>
<td>40</td>
<td>80</td>
<td>80</td>
<td>40</td>
<td>80</td>
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<tr>
<td>Maximal input power (W)</td>
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<td>45</td>
<td>120</td>
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<td>45</td>
<td>120</td>
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<tr>
<td>Core diameter (µm)</td>
<td>230</td>
<td>272</td>
<td>365</td>
<td>550</td>
<td>272</td>
<td>365</td>
<td>550</td>
<td>955</td>
<td>550</td>
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<tr>
<td>Maximal outer diameter (µm)</td>
<td>390</td>
<td>450</td>
<td>580</td>
<td>780</td>
<td>450</td>
<td>580</td>
<td>780</td>
<td>1450</td>
<td>2500</td>
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<td>Tip outer diameter (µm)</td>
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<tr>
<td>(With Ball Tip)</td>
<td>450</td>
<td>450</td>
<td>580</td>
<td>780</td>
<td>450</td>
<td>580</td>
<td>780</td>
<td>1450</td>
<td>2500</td>
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<tr>
<td>Minimal fiber bending radius at maximum power (mm)</td>
<td>6mm</td>
<td>12mm</td>
<td>14mm</td>
<td>20mm</td>
<td>12mm</td>
<td>14mm</td>
<td>20mm</td>
<td>24mm</td>
<td>NA</td>
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<tr>
<td>Single Use (SU) or Multiple-Use (MU)</td>
<td>SU</td>
<td>SU</td>
<td>SU</td>
<td>SU</td>
<td>MU</td>
<td>MU</td>
<td>MU</td>
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</tbody>
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### Accessories

- Sterilization Tray
- Scissors
- Fiber Strippers
- Inspection Scope
- Cleaving Tool