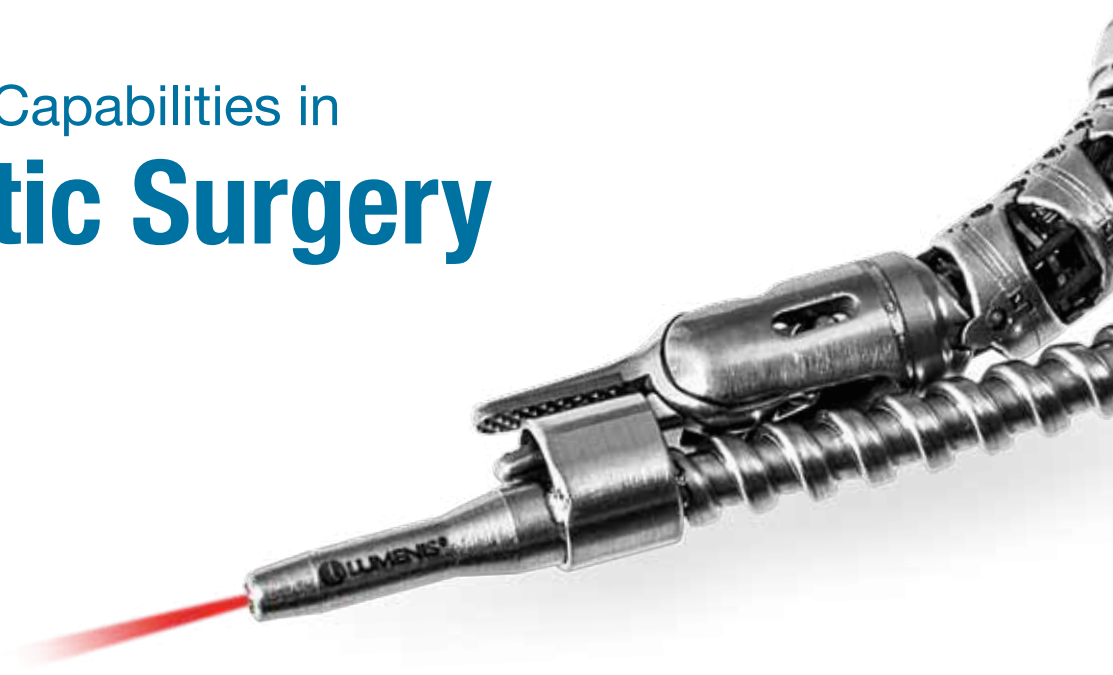




Extending Your Capabilities in
Robotic Surgery



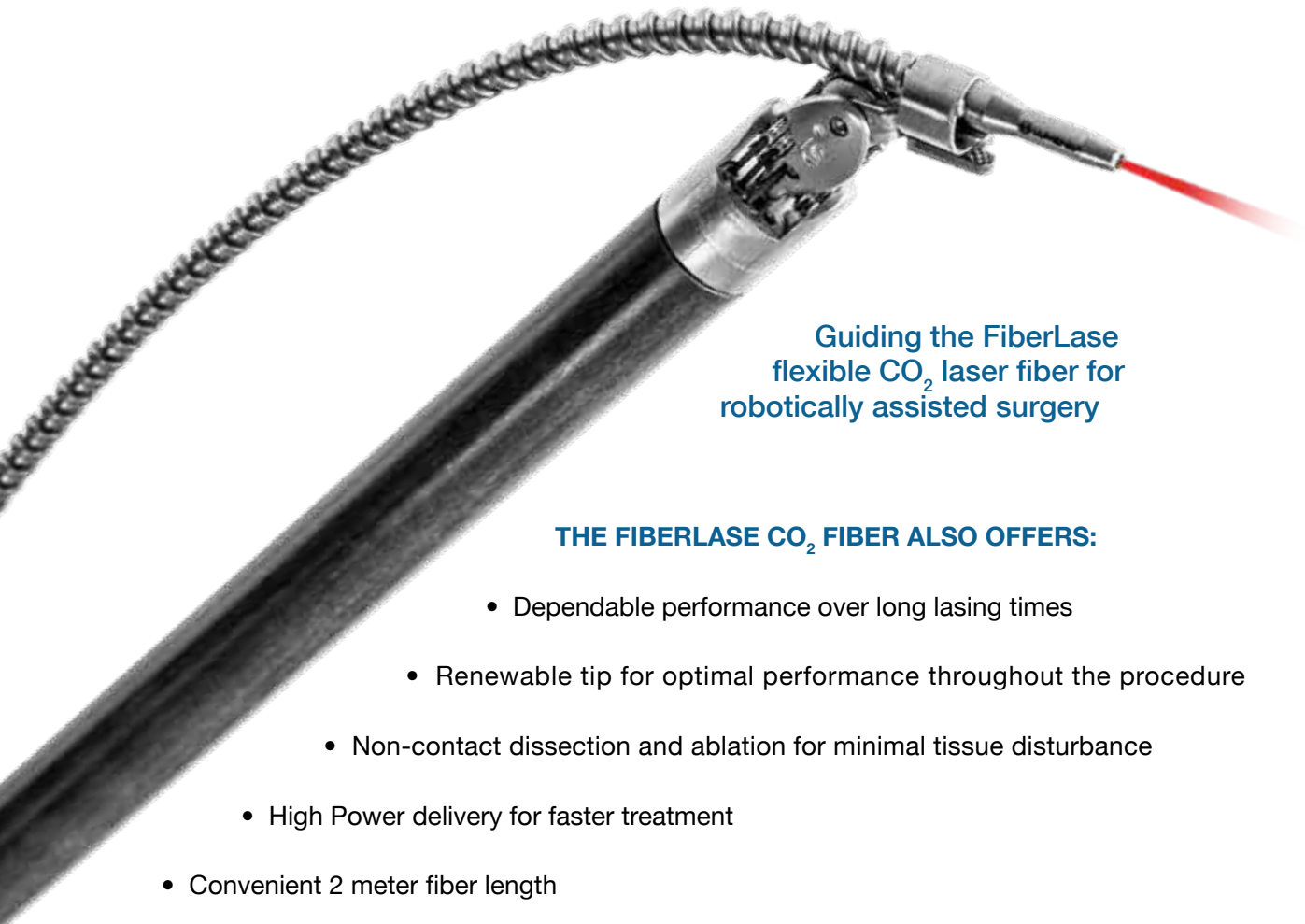
FiberLase™
Robotic Drop-In Guide

For Use With the AcuPulse™ 40WG CO₂ Laser and FiberLase Family of CO₂ Fibers

The FiberLase CO₂ Laser Fiber and Robotic Drop-In Guide Enhance Robot Utilization* with...

Superior Precision...

- Lower patient morbidity^(1,2) with minimal blood loss, less post-operative pain, and faster recovery
- Red aiming beam helps target and treat the diseased tissue
- Excellent energy transmittance for more control and faster treatment speed



Guiding the FiberLase flexible CO₂ laser fiber for robotically assisted surgery

THE FIBERLASE CO₂ FIBER ALSO OFFERS:

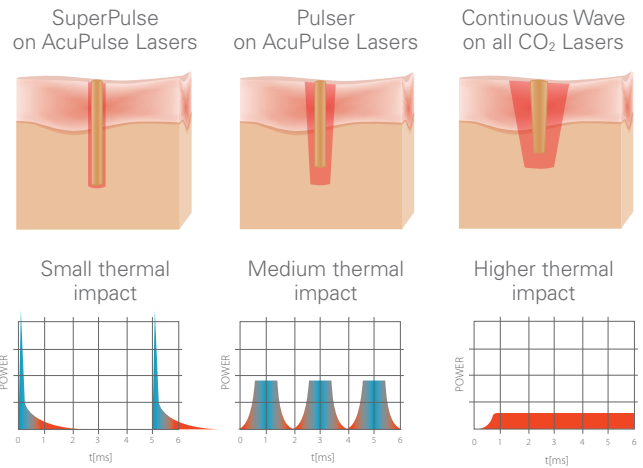
- Dependable performance over long lasing times
- Renewable tip for optimal performance throughout the procedure
- Non-contact dissection and ablation for minimal tissue disturbance
- High Power delivery for faster treatment
- Convenient 2 meter fiber length

...Better Thermal Control

The AcuPulse 40WG CO₂ laser assures highest control of beam delivery for smart tissue management. Three unique laser operation modes, SuperPulse, Pulser and Continuous Wave (CW) offer minimal, moderate and high thermal effect choices. This balances precision and hemostasis for optimal patient results.

CO₂ LASER THERMAL CONTROL WITH:

- Minimal effect on adjacent delicate tissue
- Lower zone of thermal injury as compared to a 2 micron thulium laser and other energy devices
- Potential for less adhesion and scar formation as a result of minimal thermal damage⁽³⁾



Example Clinical Indications



Courtesy of Ceana Nezhat, MD



Courtesy of Michelle Nisolle, MD

Laparoscopic GYN:

- Endometriosis Surgery
- Adhesiolysis



Courtesy of George Lawson, MD



Courtesy of Marc Remacle, MD

Head and Neck (TORS):

- Tongue Base Surgery
- Tonsillar Cancer

Additional Benefits of the FiberLase CO₂ Fiber and Drop-In Guide System

- Preservation of robotic convenience and enhanced robotic utilization*
- FiberLase Drop-In Guide can pass through a 5 mm trocar sleeve channel
- Fiber tip renewable during procedure
- Durable flexible guide enhances fiber access in minimally invasive surgery



Drop-In Guide Specifications

Product	FiberLase Robotic Drop-In Guide
Part Number	AC-0001300, Pack of 5
Usage	Supplied sterile , single use
Length	80 cm nominal
Largest outer diameter	5.0 mm
Coil diameter	2.1 mm
Robotics compatibility	Std. needle drivers or similar
Compatible laser	AcuPulse 40WG CO ₂ laser
	• SuperPulse: 0.5 – 15 Watts
	• Pulser: 1 – 35 Watts
Compatible fiber	FiberLase flexible CO ₂ laser fiber

FiberLase CO₂ Fiber

Specifications	2 meter long, 1.04 mm outside diameter
Spot Size	295µm at fiber output

References:

1. Christel Meuleman et. al.; Outcome after multidisciplinary CO₂ laser laparoscopic excision of deep infiltrating colorectal endometriosis, Reproductive BioMedicine Online, Vol. 18, No. 2, 2009, 282 - 289
 2. Robert Albee; Excision of Endometriosis with the Carbon Dioxide Laser; in Surgical Management of Endometriosis, Edited by David Redwine, Publ. Martin Dunitz, 2004
 3. Erica Schipper, Camran Nezhat; Video-assisted laparoscopy for the detection and diagnosis of endometriosis: safety, reliability and invasiveness; International Journal of Women's Health 2012;4, 383 – 393
- * Robotic statements have not been evaluated by Intuitive Surgical

