

MULTIPULSE

TFL VEGA Effect

PROVEN PERFORMANCE BUILT ON PHYSICS

- ★ VEGA Effect®
- ★ 1,378 W Peak power
- ★ Eight pulse durations
- ★ Lower power consumption
- ★ Excelling in soft tissue and stone treatments



YOUR UNIVERSAL TFL LASER SOLUTION

KEY FEATURES

1,378 W PEAK POWER

EXCELLING WITH THE NEW VEGA EFFECT®

In soft tissue and stone treatments

DIRECT COOLING

Resulting in lower power consumption

OPTIMIZED CONTROL

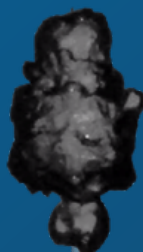
Eight pulse durations for tailored performance

TFL BUBBLE DYNAMICS - *Enhanced with the VEGA Effect®*

The MultiPulse TFL sets new standards in TFL Bubble Dynamics. Conventional TFLs consume a considerable share of their energy in forming and sustaining a vapor bubble. Because the bubble collapses while the laser pulse is still being delivered, the efficiency of energy transfer to the target is reduced. The concurrent implosion of the bubble and vaporization of the surrounding medium further destabilize its structure, resulting in an unpredictable shape.

By contrast, the *VEGA Effect®* produces a more stable and longer-lasting conical cavitation that markedly enhances energy transmission and procedural control. The rapidly formed vapor channel - driven by a concentrated pulse profile supports a larger proportion of energy to reach the target before it collapses (based on in-vitro tests).

**BUBBLE
DYNAMICS**
by TFL Technologies



**NEW
VEGA EFFECT**
by the MultiPulse TFL





APPLICATIONS

STONE TREATMENTS

The **VEGA Effect® for Lithotripsy** balances stone disintegration with minimal retropulsion. It generates a more stable and longer-lasting conical cavitation effect. As this cavitation collapses, it generates an implosion that draws the stone toward the fiber tip, rather than pushing it away. This inward movement reduces fragment migration, improving control for more precise and predictable lithotripsy procedures.

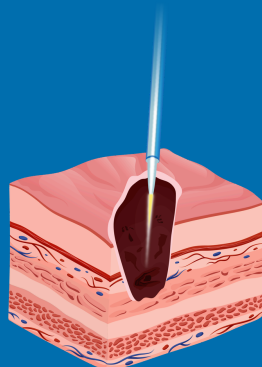
**STONE
DUSTING
ENHANCED**
with the VEGA Effect®



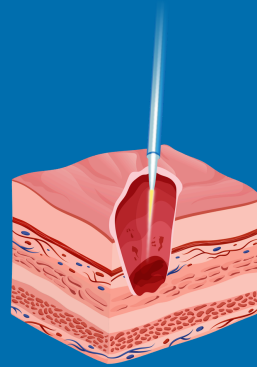
SOFT TISSUE TREATMENTS

Designed for soft tissue applications like BPH, the **VEGA Effect® for Soft Tissue Treatments** ensures precise ablation with minimal thermal spread. Its optimized energy delivery enables effective tissue removal while preserving surrounding structures and reducing bleeding.

**TISSUE
INTERACTION**
by TFL
Technology



**LESS
CARBONISATION**
with the VEGA Effect®
by MultiPulse TFL



MULTIPULSE TFL

Laser Source	Thulium Fiber Laser
Wavelength	1,940 nm
Emission Mode	Continuous Pulsed
Power	Up to 200 W (CW)
Pulse Energy	Up to 6 J
Repetition Rate	CW up to 2,500 Hz
Pulse Duration	0.1 - 12 ms in single pulse mode Unlimited in CW mode
Cooling	Internal cooling cycle
Control Panel	10.1" LCD display, vertical
Device Accessories	Bare fibers (reusable and single use) available in following diameters: 200, 272, 365, 400, 550, 600, 800, 1000 µm
Electrical Requirements	100–240VAC - 50/60 Hz – 2,400 VA
Dimensions and Weight	47 cm x 68 cm x 108 cm (W x D x H) - 125 kg
Population	Patients affected by urological and biliary conditions suitable for endoscopic or minimally invasive treatment.

MP TFL 003 0526 EN

Specifications are subject to change without notice.

DEVICE CERTIFIED ACCORDING TO
MEDICAL DEVICE REGULATION (EU)
2017/745 (MDR)

FDA 510(k) CLEARED UNDER K253100

ALWAYS THE
LATEST PRODUCT INFORMATION



JenaSurgical is the brand of
the surgical business unit of
Asclepion Laser Technologies.



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