

SmartXide²

THE POWERFUL CO₂ + DIODE LASER FOR YOUR MINIMAL INVASIVE APPLICATIONS IN SURGERY



- ⊕ HIGH POWER
- ⊕ WITH OPTIONAL DIODE WAVELENGTH
- ⊕ AUTOMATED CUTTING & ABLATION
- ⊕ ENABLES MINIMALLY INVASIVE PROCEDURES

JENA SURGICAL
LASER AT YOUR SIDE

AGILE AND ACCURATE

KEY FEATURES

- High power **CO₂ LASER**
- Ideal for **cutting and ablation**
- Diode and CO₂ RF laser source with **PSD®** (Pulse Shape Design) Technology
- High precision scanning systems
- Micromanipulator with exclusive **Hybrid Technology**
- Applicable in multiple surgical fields, e.g. ENT, gynecology and neurosurgery

APPLICATIONS & TECHNOLOGY

The SmartXide² system with CO₂ and optional **diode** laser sources is one of the most versatile and cutting-edge solutions available in the surgery market. The technology was developed to perform cutting and ablation of biological tissues in a well-defined and precise manner, with the possibility of selecting the optimal scanning shape from a wide range of possibilities.

It is suitable for **microsurgery in ENT, Gynecology, Neurosurgery and General Surgery**. SmartXide² provides the best support to the surgeon. In the operating room, it offers unmatched performance thanks to perfect synergy between following features:

- The CO₂ RF laser source with **PSD®** (Pulse Shape Design) technology, which allows complete pulses modulation, going from continuous emission (cw) to pulsed emission with extreme characteristics (U-Pulse)
- The two advanced scanning systems, **HiScan Surgical** (for a well-defined, uniform and controlled laser ablation) and **EndoScan** (for laparoscopic gynecological surgery and general surgery)
- The micromanipulator **EasySpot** with Hybrid technology, for perfect focusing of the CO₂ laser beam and joystick control of all major scanner functions. It is thus possible to manually set the ablation area shape, size (up to the maximum diameter of 6.3 mm), rotation and to change between Scan-ON/Scan-OFF modes, without having to look up from the operating microscope

SmartXide² is the only CO₂ laser that can be integrated with a diode module (maximum power up to 50 W) which widens its range of applications. The integration of the two surgical lasers is also possible after purchase, as well as upgrading of the accessories.



Micromanipulator EasySpot Hybrid



Scanning system
HiScan Surgical



Scanning system
EndoScan

SmartXide ² CO ₂ Laser	
Laser Source	CO ₂ RF-PSD
Wavelength	10,600 nm
Emission Shape	TEM ₀₀
Emission Mode	Continuous Wave (CW) - Smart Pulse (SP) - Deep Pulse (DP) - High Pulse (HP) - Ultimate Pulse (UP)
Power	CW: 0.5 W to 70 W (C80/C80H); up to 60 W (C60/C60H) UP: 0.5 W to 80 W (C80/C80H); from 0.5 W to 60 W (C60/C60H) SP: 0.1 W to 15 W (C80/C80H and C60/C60H) DP: 0.2 W to 15 W (C80/C80H and C60/C60H) HP: 0.1 W to 15 W (C80/C80H); up to 8 W (C60/C60H)
Emission Time	From 0.01 to 0.9 s
Delay Emission Time	From 0.3 to 5 s
Beam Delivery	Articulated arm with 7 mirrors and counterweight
Aiming Beam	Laser Diode @ 635 nm - 4 mW
User Database Lines	About 150 factory-stored protocols, upgradable by USB. Possibility of storing unlimited number of custom user protocols
Control Panel	10.4" LCD color touchscreen
Electrical Requirements	From 100 to 120 VAC - 50/60 Hz From 220 to 230 VAC - 50 Hz - 16 A
Dimensions and Weight	162 cm (H) x 56 cm (D) x 59 cm (W) - 95 kg for C60 and C80 (with folded articulated arm) 192 cm (H) x 56 cm (D) x 59 cm (W) - 100 kg for C60H and C80H (with folded articulated arm)
SmartXide ² Diode Laser	
Laser Source	Diode
Wavelength	940 nm or 980 nm
CW Power	30 W or 50 W
Operating Modes	Continuous Wave (CW) - Pulsed Wave (pw)
Exposure Modes	Continuous, single pulse, burst or repeated burst
Emission Time in PW (T _{on})	5 ms to 2000 ms
Delay Emission Time in PW (T _{off})	5 ms to 2000 ms
Burst Pulses in PW	2 to 50
Delay Between Bursts	0.5 to 5 s
Beam delivery	Bare Fiber 200 μm, 300 μm, 400 μm, 500 μm, 600 μm

JENA SURGICAL

LASER AT YOUR SIDE

JenaSurgical is the brand of the surgical business unit of Asclepion Laser Technologies. This brochure is not intended for the market of USA.



LASER APERTURE LASER APERTURE

DANGER - VISIBLE AND INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT
Max. CO₂ laser power @ 10.6 µm: 90 W
Max. pulsed length: 80 ms
Max. pulsed laser power @ 130-170 nm: 5 mW
Classified by IEC 60825-1 (2014-02)

DANGER - VISIBLE AND INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT
Max. diode laser power @ 800-980nm: 25W
Max. pulsed laser power @ 630-670nm: 9mW
Classified by IEC 60825-1 (2014-02)

MADE IN GERMANY ALWAYS THE
LATEST PRODUCT INFORMATION



Asclepion Laser Technologies GmbH
Brüsseler Str. 10 | 07747 Jena | Germany
www.jenasurgical.com