

# DEKA CO<sub>2</sub> Laser Platform



## Medical Device TECHNOLOGY

The **DEKA SMARTXIDE<sub>2</sub> CO<sub>2</sub>** is an advanced CO<sub>2</sub> laser providing power up to 60W, and can generate continuous short period, high peak power pulses. High peak power delivers laser energy very rapidly for efficient tissue vaporization with minimal penetration and collateral tissue damage. CO<sub>2</sub> energy is delivered by:

- Flexible fiber with aiming beam allows easy access in difficult to reach areas
- Free beam accessories such as the specialized micromanipulator
- Computer Pattern Generator for the ultimate in precision and speed

The **DEKA SMARTXIDE<sub>2</sub> CO<sub>2</sub>** laser is intended for use in applications requiring ablation, excision, incision and coagulation of soft tissue in ENT, GYN, Neurosurgery and General Surgery procedures.

### Dedicated Pulse Shape

DEKA incorporates exclusive Pulse Shape Design (PSD) technology allowing optimal pulse shape choice for each treatment, providing maximum benefit with minimum invasiveness for the best possible results.

- S-Pulse: Vaporization, cutting and ablation
- U-Pulse: Precision cutting and vaporization
- CW Mode: Vaporization and ablation



## Scanner Assisted Microsurgery

The HiScan Surgical system works with robotic technology for use in microsurgery. The laser beam focused by the zoom of the Micromanipulator is rapidly moved, providing optimal scanning features for tissue cutting and ablation.



### Multiple treatment patterns available:

- Line
- Arcs of circle up to full circle
- Full circle (filled)
- ONE SHOT stapedotomy spiral
- Clover
- Hexagon

#### *technical specifications* >>

Max Scanning Area	6.3mm x 6.3mm
Dwell Time	From 100 $\mu$ s to 45 ms
Selectable Ablation Depth	From 0.2 to 2mm
Scanning Modes	Power and Depth
Emission Modes	CW - UP

## Specialized Hybrid Micromanipulator with Computer Pattern Generator

The Easyspot Hybrid Micromanipulator provides full control in areas requiring extreme precision and accuracy. Combining a holographic lens and highly reflective mirrors, it provides the largest scanning features of any micromanipulator. The main scanning functions are micro-switch controlled by the joystick allowing the surgeon to operate without taking their eyes off the microscope.

### All scanning functions are controlled from the joystick:

- Rotation (step by step and fast)
- Ablation shape dimensions
- Scan-ON/Scan-OFF
- Centering operation

#### *technical specifications* >>

Optical Technology	Hybrid - holographic lens and mirrors
Spot Size	From 140 $\mu$ m to 4.5mm
Operative Field @ 400mm EFL	Min 20 x 18mm, Max 55 x 40mm

# Imperium

CO<sub>2</sub> Laser Fiber

The ForTec Imperium CO<sub>2</sub> Laser Fiber is compatible with all open port CO<sub>2</sub> lasers. It is available in 300 and 500 micron sizes, and packaged sterile for single-use.

- Efficient: 80% power delivery to fiber tip
- Effective: Treatment with high power capacity up to 30W
- Accurate: Integrated helium neon aiming beam
- Convenient: Renewable fiber tip during surgery



## Handpieces

Featuring a counterweight design with unique locking mechanism for head and neck procedures. These ENT handpieces are available in a variety of lengths and bend angles, with straight or spatula tip to facilitate dissection.

Specialized otology handpiece enables precise manipulation around confined anatomies.



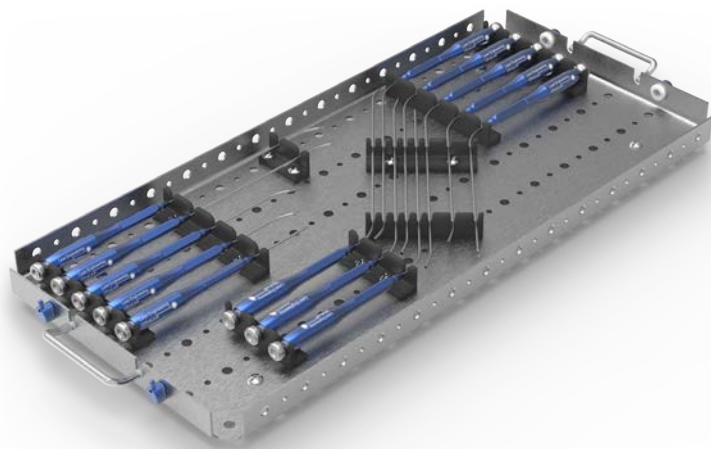
## GYN Handpieces

Laparoscopic handpieces are available in 34 and 40 cm (straight or 15 bend) working lengths for use in various GYN surgical procedures.



## Robotic Director

Coiled, highly flexible design with quick fiber connection allows full robotic wristed articulation during ENT and GYN procedures. Packaged sterile for single use.



## DEKA technical specifications >>

Wavelength	10.6 µm
Emission Modes	SP, DP, HP, UP, CW
Smart Pulse Power	0.1 to 15W
Ultra Pulse Power	0.5 to 60W
Continuous Wave	0.5 to 60W
Peak Power	270W
Emission Time	0.01 to 0.9 seconds
Delay Emission Time	0.3 to 5 seconds
Beam Delivery	7 mirrors, articulated arm with counterweight flexible fiber
Minimum Spot Diameter	0.14mm @ 200mm 0.25mm @ 400mm
Aiming Beam	Laser Diode @ 635 nm - 4mW Adjustable Intensity: 2 to 100% Aiming Light Off or Diode Off
Control Panel	10.4" LCD Touchscreen
Smoke Evacuation Channel	Integrated in all handpieces
Dimensions	75" (h) x 23" (w) x 22" (d)
Weight	281 lbs
Electrical Requirements	100 - 120 VAC, 50/60 Hz



## [ THE FORTEC ADVANTAGE ]

- ✓ Avoid capital and maintenance costs
- ✓ Experienced, professional technician support
- ✓ A stable, professional partner
- ✓ Large inventory of surgical technologies

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