

UNILAS 10600

CO₂ Laser

Company Profile

Limmer Laser GmbH is a German company, specialising in the design, manufacture and sale of medical lasers and accessories. Our products cover all the major disciplines of human, dental and veterinary medicine. For each discipline a broad range of high quality accessories is available, such as the VACULAS smoke evacuator. The product range includes CO₂ Lasers, Diode Lasers and Specialty Lasers.

Instead of simply focusing on separate devices, our philosophy is to create multipurpose, integrated and highly functional work stations. Working with our many loyal customers all over the world, and our established network of suppliers and distributors, we will continue to provide innovative solutions for modern medicine far into the future.

We have a strong emphasis on research and development, production, service and training. Working in conjunction with hospitals and physicians is just as important as good communication. Product quality is our No. 1 priority: Our company is certified to the stringent European Quality Standard EN ISO 13485:2003.

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UNILAS 10600

UNILAS 10600 - Much More Precise than a Scalpel

The smart choice for both hospitals and private clinics: Superior technology combined with an easy-to-use interface. An extensive range of accessories. Ultrashort pulses with controlled energy emission for an ideal patient outcome. Do you expect anything less from one of the industry leaders? This is quality made in Germany.

This is the ideal laser for a whole range of disciplines:

- ENT (Otolaryngology)
- Dermatology & Aesthetic / Cosmetic Surgery
- Gynaecology
- Neurosurgery
- General Surgery
- Proctology
- Dentistry

Choose Your Individual Configuration

- **Articulated Arm**
Available as counterweight or spring version.
- **Handpiece, Scanner or Micromanipulator**
The laser is enabled for a whole range of high-precision, quality accessories that can be connected to the articulated arm.
- **Power**
Choose between 30, 40 and 50 Watts, and get the best out of the operating modes Continuous Wave, SuperPulse and Pulser Mode.
- **Color**
Pick one out of up to 100 different colors we offer.
- **Language**
The laser device supports various languages for the interface.
- **Smoke Evacuation**
Comfortably controls your VACULAS smoke evacuator.

- » Enables precise cutting with minimal carbonisation by ultrashort pulses
- » Adapts easily to microscopes and colposcopes from all major manufacturers
- » High mobility because of large 360° castor wheels

- » Easy-to-use interface
- » Engineered for highest safety standards

- » Controls external accessories such as smoke evacuator VACULAS 2005 by the ease of a footswitch press

Laser-controlled smoke evacuator
VACULAS 2005

One example: Maximum Precision in ENT

By an extensive range of accessories such as the Oral Pharyngeal Handpiece or the Nasal Probes Set, the laser becomes a perfect tool for precisely vaporising tissue.

Micromanipulator MicroSpot allows spot sizes of down to 0,15 mm even at 400 mm focal length, and is mounted comfortably to your microscope. The laser's ability to emit lower, fine-tuned amounts of energy is key in achieving an optimal treatment.

UNILAS 10600 assists you in all endoscopic and microsurgical laser treatments.



Nasal Probes Set

Micromanipulator MicroSpot



Micromanipulator MiniSpot



Laser Specula with smoke removal

Another example: Strong Tissue Effect in Gynaecology

For colposcopic applications, Micromanipulator MiniSpot enables a strong vaporisation effect at full control. The quick removal of areas of cell structures (e.g. dysplasia or condylomata) is enhanced by the robotic SurgiScan Scanner handpiece. You prefer working hands-free? Your choice is the SupraFokus handpiece with a special design for Gynaecology.

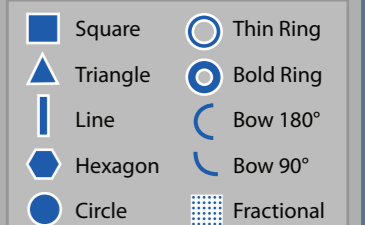
An effective smoke evacuator is mandatory in Gynaecology when potentially dangerous, bio-active particles occur, e.g. with condylomata. We feature the FLUID add-on for VACULAS 2005 for removal of both smoke and smaller amounts of liquids.

A final example: Fine-tuned Ablation in Dermatology

Dermatology and Aesthetic / Cosmetic Surgery require a very fine-tuned ablation, e.g. for skin rejuvenation. Accessories such as Scanner SurgiScan allow the quick treatment of larger surfaces.

To protect your staff and yourself, we strongly recommend the powerful Smoke Evacuator VACULAS 2005 with an efficacy of 99,99999995% @ 0,01µm for fully removing potentially dangerous particles.

Scan Figures of Scanner SurgiScan



Overview of the Technical Characteristics

Laser Type	CO ₂ Laser at the wavelength of 10.600 nm, TEM ₀₀ Mode		
Activation Profiles	Continuous, Single Pulse (0,1 - 20 s), Repeat Pulse (0,1 - 20 s)		
Beam Delivery	Articulated arm with 7 joints for an extensive treatment range of 150 cm		
Pilot Beam	red (635 nm), max. 10 mW, adjustable in 5 steps, special development for modern colposcopes / microscopes (minimal, round and bright focal point)		
Program Memory	5 individually adjustable sets of treatment parameters		

	Model ML30	Model ML40	Model ML50
Operating Modes & Power at Tissue			
Continuous Wave (CW)	2 - 30 Watts	2 - 40 Watts	2 - 50 Watts
SuperPulse ø	0,4 - 12 Watts	0,6 - 15 Watts	0,6 - 18 Watts
Max. SuperPulse Peak	300 Watts	400 Watts	500 Watts
Pulser Mode ø	0,4 - 30 Watts	0,4 - 40 Watts	0,4 - 50 Watts
Pulse duration & pause	5 - 300 ms	5 - 300 ms	5 - 300 ms
Electrical Requirements	230 V, 50/60 Hz	4 A	6 A
Weight & Dimensions	75 kg, 35 x 144 x 56 cm (W x H x D)		