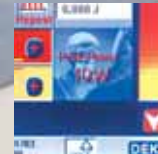


# Smart 2940D

Pulsed Er:YAG Laser



The evolution of laser technology in dentistry

Smart: laserline

# Smart 2940D

Pulsed Er:YAG Laser

The evolution of laser technology in dentistry

People needing dental care almost always put off going to the dentist for fear of feeling pain, with the result that dentists often have to resolve already compromised cases.

Over recent years enormous progress has been made with the Erbium laser technique and in the majority of cases applications do not even require an anesthetic.

All classes of cavitary preparations are possible with this type of laser and the pain patients usually experience is greatly reduced thanks to its "cold" vaporization of the hard tissues. Its extremely selective and refined action also allows for preserving the healthy

areas of enamel and dentine that are usually removed with ordinary rotating instruments. Added to which the thermal effect offers the benefit of obtaining highly decontaminated cavitary surfaces with etchings similar to the traditional ones. The effects and clinical applications of Erbium laser are not just limited to the treatment of hard tissues, as this also has a remarkable effect on soft tissues. Thanks to its modern up-to-date laser technology, **Smart 2940 D** is an extremely valid and futuristic dental aid, proving to be an efficient and safe therapeutic alternative in your daily practice.

## ERGONOMICS

**Smart 2940 D's** special design always ensures ease-of-use in daily practice: the layout of the controls, the shape of the handpieces, the position of the panel, every single detail is the fruit of years of collaboration with hundreds of experts. The patients and professionals' position, actions and most frequent movements are constantly monitored and studied in the aim of eliminating even the tiniest inconvenience, integrating all the suggestions and valid ideas deriving from such extensive experience in this sector.



## DESIGNING THE TECHNIQUE

**Smart 2940 D** is the brainchild of a design aimed at exalting the performance of Er:YAG laser applications in dentistry.

An average power of 7.7 W, frequencies and energies that are fully sufficient for carrying

out any application, plus more than 20 custom-designed programs, will guide you in choosing the most suitable clinical protocol for all the different applications. Twenty year's experience offered to you by Deka.



## THE EVOLUTION OF THE TECHNIQUE

Integrated heat control. The Er:YAG **Smart 2940 D** laser system supplies energy pulses at electronically controlled intervals, allowing

for rapid and efficient vaporizations of both hard and soft tissues with reduced heat content and effect on the surrounding tissues.

## HANDPIECES

Light, stylized handpieces transmit the energy emitted from the laser source without any alterations for optimizing clinical performance. **Smart 2940 D** exploits the potentials of a 7-mirrors articulated arm transmission system (world patent), that allows for maintaining the

laser energy unaltered and eliminates any negative effects of the position or curvature as happens with normal guides and optic fibers. Handpieces with or without contact guarantee the certainty of choosing the most effective operating instrument.



## ACCESSORIES AND OPTIONS

- Contact handpiece with sapphire tip, no-contact handpiece. Both are autoclavable and fitted with all-in-one cooling air/water spray.
- Safety goggles complying with EEC regulations.
- A wide range of technical and clinical manuals in English
- Fully autonomous system not requiring any external air/water connections.



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## TECHNICAL DATA

Laser type	Er:YAG
Wavelength	2940 nm
Energy on tissue	up to 700 mJ
Frequency	up to 20 Hz
Pulse length	from 80 to 450 µs
Transmission system	Articulated arm with 7 mirrors (patented)
Electronic control	Microprocessor
Control panel	LCD
Power supply	230 Vac / 8.5 A (max) / 50 – 60 Hz
Aiming beam	Laser Diode 1 mW @ 680 nm
Dimensions	145 cm (57") H, 23 cm (9") W, 65 cm (26") D 47 kg (104 lbs)



## MAIN APPLICATIONS


- CONSERVATIVE DENTISTRY
- PROSTHETICS
- SOFT TISSUE SURGERY

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## DEKA THE SCIENCE OF WELL-BEING

Deka is the medical division of the El.En.Group, Italian leader in the production of laser equipment. Founded in 1981 it operates in more than 40 countries throughout the world. The Group's activity covers the majority of industrial applications and laser sources with powers up to 6 kW. Deka produces laser equipment in compliance with the specifications of Medical Device Directive 93/42/EEC and adopts a quality assurance system certified by  according to the ISO 9001 and ISO 13485 standards.



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