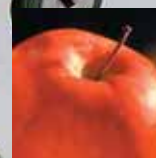
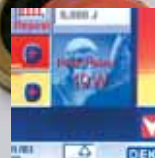


# Smarty – A800 Smarty – A900

Diode Lasers



The evolution of laser technology in dentistry

**Smarty-A800 and Smarty-A900 represent the natural evolution of laser technology, thus completing DEKA's range of lasers for use in dentistry.**

The constant innovation of DEKA products for dentistry has led the R & D Centre to create a new laser instrument capable of enhancing and completing its laser application proposal in dentistry. Diode lasers are now considered important instruments for those seeking to update their studios with a valuable, compact and efficacious aid, capable of acting as a valid backup to the therapeutic itinerary that every modern dental studio must follow today. The **Smarty-A** line includes two high tech proposals: **Smarty-A800** and **Smarty-A900**, two wavelengths allowing for different therapeutic solutions.

The advantages of **Smarty-A800** and **Smarty-A900** are immediately evident:

- In the vaporising and coagulating of soft tissues, with the benefits of a perfect haemostasis, also applicable in perfecting impressions thanks to the reduction of the use of anaesthetics and the total elimination of electro electro-scalpels;
- In decontaminating cement and dentine; in endodontic treatments that can be carried out in one single session, in periodontal and perimplantar lesions, and in perimplants, also possible with closed-flap.

The ergonomics, user-friendliness and safety are the key factors that have allowed Deka to provide the best possible therapeutic solution.

## ERGONOMICS

The special design of the **Smarty-A800** and **Smarty-A900** always allows the operator to feel at completely ease when using the laser: the positioning of the controls and the panel, the shape of the handpieces, every detail is the result of years of collaboration with hundreds of experts. The exclusive colour LCD **Touch Screen** increases and perfects use-friendliness. The position of the patients and the professionals, their most frequent actions and movements have been monitored and studied in an ongoing manner in the aim of eliminating even the most minute cause of discomfort, as well as integrating all the suggestions and valid ideas arising from extensive experience in this sector.





## USER-FRIENDLINESS

**Smarty-A800** and **Smarty-A900** represent the state-of-the-art in diode laser systems applied in odontostomatology. Average power up to 10 watt, frequency up to 150 Hz, with the possibility of modulating the pulse length from a minimum of 2 ms, the exclusive **CT·C** system (Computerised Temperature Control) and more than twenty different programmes that will guide you in

your choice of the most suitable clinical protocol for the various applications.

**Smarty-A800** and **Smarty-A900** are the only laser devices also capable of releasing the entire laser power in 200 µm fibres, without any problems for the operator.

Deka puts twenty year's experience at your disposal.



## CT·C SYSTEM: A TECHNICAL EVOLUTION

**Computerised Temperature Control** equals safety. **Smarty-A800** and **Smarty-A900** offer much more than a strict adherence to the 93/42/EEC standard concerning medical devices. **Smarty-A800** and **Smarty-A900** are capable of controlling the temperature of the diode

laser joint. The laser power remains constant throughout the operating session without any use limitations. Every application takes place in the outmost safety and is guaranteed by the experts that have helped develop the system.

## HANDPIECES

Light, stylised handpieces, flexible, resistant conductors of light waves, precision and safety, optimising of clinical performance: the versatility and completeness of the **Smarty-A800** and **Smarty-A900** allow for

a wide range of applications and combines the precision of contact optical fibres with the well-known clinical benefits of diode laser devices.



## ACCESSORIES AND OPTIONALS

- Adjustable handpiece, stylus handpiece, kit with 8 autoclavable tips, disposable tips
- Flexible optical fibres with a diameter of up to 600 µm
- Technical and clinical manuals in English
- Fully independent system that requires no other air/water connections.



# Smarty - A800 Smarty - A900

Diode Lasers

The evolution of laser technology in dentistry

## TECHNICAL DATA

	Smarty - A800	Smarty - A900
Type of laser	GaAlAs Diode	GalnAs Diode
Wavelength	810 nm	980 nm
Power on tissue	from 0.5 to 10 W	from 0.5 to 10 W
Frequency	up to 150 Hz	up to 150 Hz
Pulse length	from 2 ms to 2 s	from 2 ms to 2 s
Peak power	up to 10 W	up to 10 W
Transmission system	Optical fibres: 200, 300 and 600 µm	Optical fibres: 200, 300 and 600 µm
Electronic control	Microprocessor	Microprocessor
Control panel	Colour LCD Touch Screen	Colour LCD Touch Screen
Power supply	230 Vac / 1 A (max) / 50 – 60 Hz	230 Vac / 1 A (max) / 50 – 60 Hz
Aiming beam	Laser Diode 3 mW @ 635÷650 nm	Laser Diode 3 mW @ 635÷650 nm
Dimensions and Weight	27 cm (7") H, 26 cm (10") W, 36 cm (14") D 9 kg (20 lbs)	27 cm (7") H, 26 cm (10") W, 36 cm (14") D 9 kg (20 lbs)

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### MAIN APPLICATIONS

- ENDODONTICS
- PERIODONTOLOGY
- SOFT TISSUE SURGERY
- CONSERVATIVE
- IMPLANTOLOGY AND PROSTHESES


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VISIBLE AND INVISIBLE LASER RADIATION  
AVOID EYE OR SKIN EXPOSURE TO  
DIRECT OR SCATTERED RADIATION  
CLASS 4 LASER PRODUCT  
Max. diode laser power @ 980 nm: 10W  
Max. pilot laser power @ 650 nm: 3mW  
Classified by EN 60825-1 (2003-02)

[www.dekalaser.com](http://www.dekalaser.com)

### 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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