Manufacturer News

elexxion

Two wavelengths and 50 W pulse output in one machine

Among the products they presented at the IDS, elexxion AG, based in Radolfzell (Germany), included their internationally-patented combination laser elexxion delos. The elexxion delos combines two of the most frequently studied and scientifically recognised wavelengths (810 nm and 2,940 nm) in one machine so that both hard and soft tissue can be treated with one single machine. At present, according to elexxion, most applications can be reasonably treated with this combination system. For example, the elexxion delos can be used for the removal of concrements, decontamination, cavity preparation, root resection and bone ablation. Over 100 digitally stored indications can be accessed on a large touch screen and activated at a "touch". Output modifications can be easily and individually fine-tuned. The practitioner saves time, the dosage accuracy is guaranteed.



elexxion delos: 100 digitally stored indications can be easily activated using the touch screen

Especially for peri-implantitis therapy and the treatment of biofilm, elexxion has cooperated with the University of Düsseldorf on the development of special sapphire tips. These feature the ability to direct 90% of the laser's power lateral to the surface of the implant. Further advantages of the elexxion delos for soft-tissue applications are: Together with the ultra-short pulse durations of as little as 9 µs, the modern diode technology with its 50 W pulse output enables a gentle, efficient soft-tissue surgery at a speed which, according to elexxion, was previously unattainable. A flexible fibre guide is an additional relief for the dentist during treatment. At the same time, the newly developed fibre increases the output density thanks to an optimized beam profile. This means higher removal speed, for example in the tooth enamel. The machine can be connected comfortably to the internal compressed-air supply or to an external compressed-air supply. The external connection permits the water spray to be precisely adjusted and, thus, improves the removal performance. The elexxion delos combination laser can be purchased in Germany from the specialized distributor Pluradent.

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Syneron

The LiteTouch Edge

Syneron Dental has developed a new laser technology, the laser-in-handpiece design. This technology is incorporated in the new LiteTouch: Er:YAG laser system for both hard and soft tissue treatment which is currently sold all around the world. LiteTouch's laser chamber is located within the handpiece, distinguishing it from other dental lasers. This innovation eliminates the need for the optical table and the fiber or articulated arm typical in other laser systems, as well as the standard optical table. The novel LiteTouch handpiece—the size of a turbine drill—grants the dental practitioner great maneuverability, precision and speed. The LiteTouch system streams the laser beam straight to the handpiece, preventing the energy loss that accompanies fiber use.
Thus, efficiency is increased and reliable delivery guaranteed. Incorporating the smallest laser chamber in the industry, this system allows for the greatest possible flexibility, resilience and ease of maintenance. The importance of the laser handpiece can not be overstated. With this in mind, LiteTouch's designers created an elegant, ergonomic piece that incorporates the dentist's top priorities. While the LiteTouch handpiece looks and feels like a turbine drill, the system cuts like a laser. Its head swivels 360 degrees, giving the practitioner complete freedom within the oral cavity. A flexible cord enhances flexibility, and along with the best treatment angles and feather-touch accuracy, makes for top notch performance.



In addition, LiteTouch uses a novel mechanism that changes energy output. The amplitude of power per pulse is fixed for hard tissue and soft tissue and energy changes in accordance with pulse duration. For further information please contact:

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In this sense we wish a lot of fun while reading—online or with pleasure on paper.

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KaVo

Greater performance for more efficiency

The KaVo KEY 3 LASER with its gentle, effective and low-pain application in periodontics, conservative dentistry, endodontics and surgery has been established in dental practices for years. Together with a new periodontic handpiece, KaVo presents the new KEY 3 plus LASER with greater performance than its predecessors and variable pulse lengths at IDS 2009.
Through greater ablation speed in hard dental tissue and bone, treatment length is significantly reduced compared to conventional LASERs. Fine ablation with variable pulse length also permits finishing the cavity margins. As a result, better aesthetics can be achieved than with conventional technologies. KEY 3 LASERs already in the market can be easily upgraded, with a very positive effect upon value preservation of existing systems.
In periodontics, the unique feedback system of the KEY 3 LASER allows the selective, complete and low-pain removal of calculus, with excellent protection of the root support structures. Bacteria are killed and any biofilm on the tooth surface is dehydrated and deactivated. The new periodontic handpiece 2261 is small and features an impressively easy exchange of application tips.
In conservative therapy, the Er:YAG LASER is suitable for caries preparation, enamel/dentine conditioning and fissure sealing. With the aid of the special, caries contact handpiece, the diseased tissue may be removed with direct intimate contact of the tooth surface, while using the feedback system.
Furthermore, the KEY 3 plus LASER is suitable for numerous other indications in endodontics and surgery, such as drying and sterilising the root canal, implant exposure and root tip resection.

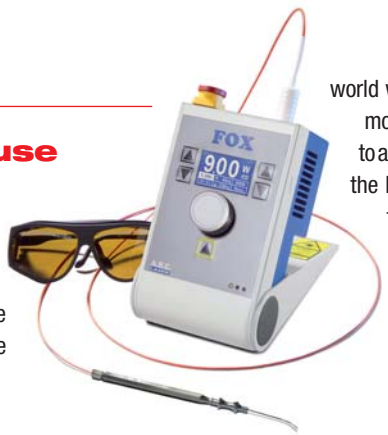


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A.R.C.

The easy to use Diode laser

Different wavelengths in combination with high output power have a name FOX. The first laser in the world which can work in cw or pulsed mode with no need to be connected to a wall outlet. Strong batteries allow the Dentist to perform laser surgery for more than 8 hours without recharging. 810 nm or 940 nm or even 1,064 nm is available when specified at the time of order. Output power up to 10 Watts at distal fiber end makes the Fox the first choice in Diode lasers. More than 2,000 lasers installed world wide are the result of performance reliability and confidence in our products.



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