

# Manufacturer News

maxon dental

## Ceramic drills for implantology

maxon motor, manufacturer of high-precision technical components made of high-performance ceramics, is now offering a new dental drill for metal-free preparation of implant beds. The company is seeking partners for international distribution. The ceramic drills are available in seven standard diameters, but can be produced in different sizes if required.

Patients who insist on metal-free treatment for implants and prosthetics often do not want to come into contact with metal in the preparation of their implants either. Users of traditional titanium implants can also benefit from the excellent properties of maxon's new ceramic drill.

Unlike traditional drills, maxon's ceramic version is based on three-lip drill geometry, which means that the implantologist can guide the drill securely and quietly. The ZrO<sub>2</sub> ceramic cutting edges are exceptionally sharp and undergo almost no wear and tear. Even after 100 applications, they are still sharp, while traditional steel drills must be discarded after around 20 applications. maxon's ceramic drill can be sterilised at least 100 times in standard autoclaves, representing an environmentally friendly and economic alternative to single-patient drills. The smooth surface of the new ceramic drills prevents the colonisation of bacteria. The white colour also means that the drilled bone material can be immediately assessed for its re-use for the bone structure. Reading the drill progress is made easier by the space markings engraved with the laser. maxon's ceramic drill is available in a range of diameters and lengths. If required, maxon can produce



these drills in any size, duly branded with the relevant partner firm's logo. maxon motor GmbH, Sexau, has been certified under ISO 13485:2003 for the development, production and distribution of ceramic implants. It also complies with these guidelines for the manufacture of these drills.

### maxon motor GmbH

Untere Ziel 1, 79350 Sexau, Germany

Tel.: +49-76 41/91 14-113

E-mail: ceramic@maxonmotor.com

www.maxonceramic.com

J. Morita

## 3D Accutomo provides four new image formats

New intermediate formats permit the ambitious diagnostician to make use of a total of nine imaging formats. J. Morita have now enhanced the capability of the 3D Accutomo by adding another four image sizes. Visitors to this year's IDS in Cologne were genuinely pleased to see the image quality across the whole range from Ø 40 x H 40 to Ø 170 x H 120 mm. Even the sceptics will be convinced by the resolution realized by the voxel size of 80 µm in the largest format. The large field of view (FOV) is suitable for the precise diagnosis of the whole head region. Enhanced image dynamics enable greater precision in the visualization of hard and soft tissue. The built-in flat panel detector (FPD) technology provides a 14-bit greyscale and creates a balanced distribution of the contrasts. The 3D Accutomo can



3D Accutomo 170: High resolution from ø 40 x H 40 mm up to ø 170 x H 120 mm

be used with many different applications, for example in the fields of implant therapy, for examinations of apical lesions, images of jaw joint, impactions, endodontics, restorative dentistry and surgery. The practitioner chooses between imaging regions without having to forego consistent high-resolution. Patient radiation dosage remains low. The especially developed zoom-reconstruction function is also a feature of the 170 version. This "magnifying lens" permits, for example, using a 80 x 80 image with a voxel size of 160 µm to produce detailed views of the regions of interest with a voxel size of 80 µm. And the enlarged image with 80 µm is even sharper. This eliminates the need to make secondary detailed images which could expose patients to X-rays unnecessarily.

### J. Morita Europe GmbH

Justus-von-Liebig-Straße 27a

63128 Dietzenbach, Germany

E-mail: info@jmoritaeuropa.com

Web: www.jmoritaeuropa.com

Sirona

**SIROLaser Advance sets new standards of user-friendliness and flexibility**

Sirona's SIROLaser Advance combines state-of-the-art laser technology with outstanding user-friendliness. The color touchscreen, clearly structured menus and self-explanatory symbols provide the ideal basis for easy operation. The SIROLaser Advance caters for a broad spectrum of applications. The pre-set programs ensure quick and effective therapy in the area of periodontics, endodontics, surgery and pain relief. If required the dentist can view additional information about each individual preset in a help menu. The dentist is free to adapt the SIROLaser Advance to his or her individual mode of working. Up to 24 different applications can be programmed. In his role as system administrator the dentist can also configure profiles for five additional users. In addition, the SIROLaser Advance anonymously stores the parameter data of each treatment session. For patient documentation purposes this data can be easily transferred to a PC with the aid of a USB flash drive.



The SIROLaser Advance offers preset therapy programs for the most important laser applications in the field of periodontics, endodontics, surgery and pain relief.

The SIROLaser Advance is operated via the light-touch finger switch or via the optional foot control. In combination with the high-power rechargeable battery pack the SIROLaser Advance can be deployed flexibly in the dental practice.

**Sirona Dental Systems GmbH**

Fabrikstraße 31  
64625 Bensheim, Germany  
E-mail: [contact@sirona.de](mailto:contact@sirona.de)  
Web: [www.sirona.de](http://www.sirona.de)

Implant Direct

**The world's first one-piece Locator Implant**

Implant Direct, Europe's No. 1 Online Provider for Dental Implants, launches the world's first one-piece Locator Implant called GoDirect. This patented implant innovation by Dr. Gerald Niznick, US based pioneer in implant dentistry, incorporates a Locator component in a one-piece implant.



The implant will be launched in the diameters 3.0 mm, 3.7 mm, 4.7 mm and in the length 10 mm, 11.5 mm and 13 mm whilst the prosthetic Locator component comes in variable heights of 2 and 3 mm. The Locator interface is compatible with the currently available Locator prosthetic components, as well as instruments. The All-in-One Packaging approach of Implant Direct includes the Locator Implant, an impression cap and a

snap-on comfort cap for the direct price of 115 Euro per package. This innovative added value package allows to reduce costs for hybrid treatment options whilst maintaining high quality standards.

Implant Direct Europe  
Förllibuckstrasse 150  
CH-8005 Zürich, Switzerland  
Tollfree Infoline: 00800/40 30 40 30  
E-mail: [info-eu@implantdirect.com](mailto:info-eu@implantdirect.com)  
Web: [www.implantdirect.de](http://www.implantdirect.de)

Omnia

**Basic Implant Set by Omnia**

The sterile Basic Implant Set by Omnia was designed for implant surgery, where a suitable level of sterility and safety for both surgeon and patient is required. It is indicated for small surgery, packaged in double sterile wrapping and consists of one



operator gown SMS size L, one assistant gown, two operator caps, one patient cap, one drape 2-layers

50 x 75 cm with adhesive size, one patient drape 2-layers 75 x 90 cm with adhesive U-shape, tubing sleeves 120 cm Omnisleeve, and one waste bag

**Omnia S.p.A**  
Via F. Delnevo 190  
43036 Fidenza (PR), Italy  
E-mail: [info@omniasrl.com](mailto:info@omniasrl.com)  
Web: [www.omniasrl.com](http://www.omniasrl.com)

Straumann

**Roxolid™—Increasing the choice of treatment options**

Mechanical stability and osseointegration are of highest importance with small diameter implants. Designed specifically for dental implants, Roxolid™ has higher fatigue and tensile strengths than pure grade 4 titanium. Straumann's new high performance material is an alloy of titanium and zirconium – the only two metals commonly used in implantology that do not inhibit the growth of bone forming osteoblast cells which are essential for osseointegration. Preclinical studies have shown that bone integration is better with Roxolid than with pure titanium. Furthermore, Roxolid implants feature Straumann's SLActive® surface technology, cutting implant healing times in half as compared to the gold standard SLA® surface. This delivers peace of mind for

treatments with small diameter implants. Roxolid has been undergoing one of the largest clinical research programs ever undertaken by a dental implant company prior to market launch. Roxolid small diameter implants are expected to offer a number of advantages to dental professionals and patients, particularly in situations where space between teeth is limited or where bone preservation is a major concern. These benefits, combined with less invasive treatments, might open the door for clinicians to increase patients' acceptance to implant treatment.

After having obtained regulatory clearance, Roxolid is now available in North America and in Europe.

**Institut Straumann AG**

Peter Merian-Weg 12  
CH-4052 Basel, Switzerland  
E-mail: info@straumann.com  
Web: www.straumann.com

Dr. Ihde Dental

**Dr. Ihde Dental—the implant company**

Dr. Ihde Dental is a well-known manufacturer of consumables and implant systems active in Germany

and in many parts of Europe. The company is in the business of marketing all popular implant systems and prosthodontic accessories for all implant-supported indications, along with a broad range of everyday little helpers and consumables for the dental office and laboratory.

Dr. Ihde Dental has been producing implant systems since 1996, turning into a true implant company, an international player in this market. All implant lines are continuously expanded, improved, and updated to incorporate and accommodate the most current scientific findings in oral implantology. In addition, Ihde Dental closely cooperates with well-renowned oral implantologist of many years' standing to ensure that its implants meet all the requirements of everyday clinical practice. All implants are produced

in Europe, meeting the most stringent German and Swiss quality standards. The Dr. Ihde Dental implant lines have been proven for many years and can be used simply and safely for all indications. Some systems are designed to permit immediate loading, The KOS implant, for example, allows this attractive treatment modality to be employed in a manner that is particularly appreciated by patients. The implant is inserted transgingivally; the definitive restoration can be delivered within only five days.

**Dr. Ihde Dental GmbH**

Erfurter Straße 19  
85386 Eching, Germany  
E-mail: info@ihde.com  
Web: www.ihde-dental.de

AD

Since our beginnings, we have always been focused on quality and innovation toward the battle against cross - contamination and infections.

In the last 20 years, we have ensured safety and protection to you and your patients, with advanced and reliable products. Tools that represent the ideal solution for who is operating in dentistry, implantology/oral surgery and general surgery.

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OMNIA S.p.A.  
Via F. Delnevo, 190 - 43036 Fidenza (PR) Italy  
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www.omniasrl.com

CAMLOG

**Cooperation with Materialise Dental and SICAT**

The CAMLOG® Guide System, the precise system for safe, template-guided implantation and temporary restoration can from now on also be used with the planning softwares from Materialise Dental and SICAT. The computer-aided, three-dimensional planning systems Materialise Dental "SimPlant®", SICAT "GALILEOS Implant" and "SICAT Implant" enlarge the CAMLOG® Guide System application possibilities not only through further program options but also through centrally manufactured drilling templates. With the new coop-

erations, CAMLOG users are offered an ideal expansion of possibilities in addition to the CAMLOG® Guide System's specific advantages such as:

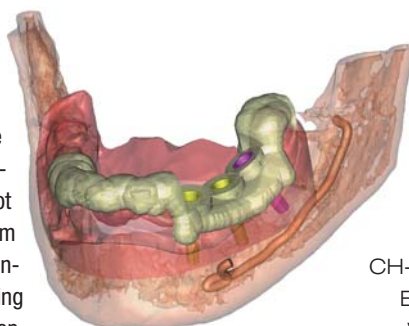
- \_ only few drills necessary;
- \_ only one guiding sleeve with fixed depth stops on drills and insertion posts of the implants;
- \_ accurate guidance of instruments and implants;
- \_ no investment in additional instrument trays.

C. HAFNER's „CeHa imPLANT®" and IVS' „coDiagnostiX®" planning systems continue to be compat-

ible with the CAMLOG® Guide System and allow decentralized fabrication of drilling templates in the dental laboratory.

**CAMLOG Biotechnologies AG**

Margarethenstrasse 38  
CH-4035 Basel, Switzerland  
E-Mail: info@camlog.com  
Web: www.camlog.com



# THE BUSINESS OF DENTISTRY



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s.ng@koelnmesse.com.sg

Europe Only  
Ms Daniela Basten  
Tel: +49 221 821 3267  
Fax: +49 221 821 3671  
d.basten@koelnmesse.de

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