

# today

SHOW  
PREVIEW

## A view on European dental markets



Markets in Europe have proven stable since the last IDS took place in 2011. An interview with ADDE president Dominique Deschietere.

» page 02

## IDS 2013 trends in focus



CAD/CAM and growth factors have become key areas of dental innovation. Dr Nilesh R. Parmar provides an overview.

» page 12

## A preview of the industry

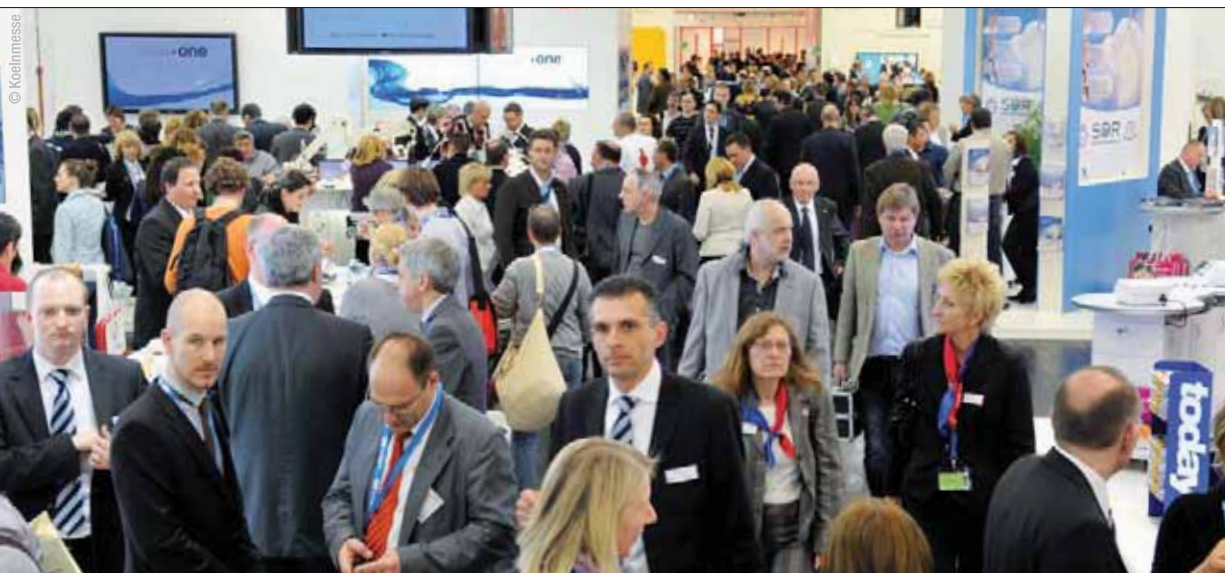


With more companies to be participating in IDS than ever before, there will be plenty of new products to see and discover.

» page 28

# High foreign demand drives the world's largest dental showcase

Number of exhibiting companies increases by more than 10 per cent/According to the organiser Koelnmesse, dental CAD/CAM, implant treatment and lasers will be mega trends at upcoming International Dental Show in Cologne, Germany



• The last IDS, held in March 2011, drew 1,954 exhibitors and 118,000 professional visitors to Cologne, according to reports.

■ The development of CAD/CAM and implantology will continue to be the determining trends at the next International Dental Show, representatives of the organiser Koelnmesse and the Association of German Dental Manufacturers (VDDI) told reporters at a press conference in December. Besides these mega topics, the use of lasers in different fields of dentistry will be given particular attention.

Reportedly, more than 2,000 dental manufacturers and distributors have registered for this year's event, which has been expanded by 5,000 sqm and will fully occupy another hall at the Koelnmesse fairground in Cologne. According to Koelnmesse's chief operating officer, Katharina C. Hamma, the increase in exhibitors is due to the high demand from companies abroad, which has grown by 10 per cent compared with the last IDS. While the number of domestic businesses will remain the same, almost two-thirds (68 per cent) of all companies exhibiting in 2013 will come from outside Germany.

"IDS will prove its position as the global leading trade show in the den-

tal industry once again. Its success is an endorsement of our trade show concept," Hamma explained. "Therefore,



• Katharina C. Hamma, Chief Operating Officer of Koelnmesse.

we will be retaining the successful formula for the upcoming event."

Her company, which hosts other well-known international trade events like Art Cologne and gamescom,

stages the global dentistry showcase in partnership with the commercial enterprise of the VDDI and the Society for the Promotion of the Dental Industry (Gesellschaft zur Förderung der Dental-Industrie) every two years. The last edition, held in March 2011, drew 1,954 exhibitors and 118,000 professional visitors to Cologne, according to reports.

Hamma announced that in addition to professional activities presented by the German Dental Association and the Association of German Dental Technicians' Guilds (VDZI), the Federal Association of Dental Alumni (BdZA) in Germany will be hosting a Generations' Lounge for the first time at next year's IDS, which is intended to serve as a meeting point for dental students, practice newcomers and established practitioners. Furthermore, visitors will be able to learn more about the latest products and technologies at the customary Speakers' Corner (in Hall 3.1).

The IDS app has recently been updated. The application, available for several smartphones, such as Apple's iPhone, allows users to search for in-

formation on exhibitors and products ahead of the show.

The next edition is scheduled to open its doors soon with the usual Dealers' Day on Tuesday, 12 March 2013. More than 120,000 dental professionals from Germany and abroad are expected to attend the event to update their knowledge on the latest developments and trends in dental equipment and materials, according to Hamma. ◀

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# Digital technology and CAD/CAM will determine dental market development

An interview with Dominique Deschietere, President of the Association of Dental Dealers in Europe



• Dominique Deschietere

■ Supported by growth in major markets like Germany, sales of dental equipment in Europe have proven relatively stable since the last IDS took place in 2011. *today international* had the opportunity to speak with Arseus Lab CEO and newly elected President of the Association of Dental Dealers in Europe (ADDE), Dominique Deschietere, Belgium, about the current state of the industry, and the challenges that lie ahead.

**today international:** Last year, the European Union announced the revision of its medical device regulations. How is this going to affect the dental industry?

**Dominique Deschietere:** The diversity and potential for innovation in our industry contribute to improved dental procedures and prosthetics, from which the patient can only bene-

fit. As the dental industry and the health-care sector in general produce a wide range of products, from extremely sophisticated devices to consumables, we as distributors need to be vigilant regarding medical device regulations. The regulatory framework provided by the EU for market access, international business relations and legal agreements is in the patient's best interest. However, we also think that these matters should be adapted to the dental distributor market.

**Why do the current regulations need to be changed at all?**

The main reason for the revision is that current EU legislation dates from the late 1990s and is considered insufficient by many for our rapidly changing market. In addition, some member states of the EU have tended to interpret some of these rules broadly, which is not necessarily to the benefit of the patient. It also makes competition uneven for those distributors who adhere to the regulations. Therefore, it is essential to impose new regulations in order to increase traceability of dental products within and beyond the borders of the EU.

**According to a 2011 survey by your organisation, sales of dental materials and equipment in Europe remained relatively stable. What is the current state of the industry on the continent?**

Preliminary figures from our latest survey of the industry show that,



• Visitors watching a product presentation at IDS 2011. According to Deschietere, European dental practitioners and laboratories have become rather reluctant to make large investments.

except for a few countries, the market has achieved good sales. There might be a slight decrease in traditional product segments, as old technologies are replaced by new ones but it is still too early to provide a clear picture on the current market situation. Unfortunately, not all figures from our 2012 industry survey are available yet. However, we would like to invite everyone to our

presentation to be held on Wednesday, 13 March, at 16:00 in the Blue Room at the Koelnmesse fairground.

**During a press conference in December in Cologne, the Chairman of the Association of German Dental Manufacturers, Dr Martin Rickert, said that the outlook for markets in Southern Europe is rather negative owing to the financial constraints the health-care sector is facing at the moment. What is the situation really like there?**

It is no secret that some countries in Southern Europe that suffered most from the financial crisis are showing a negative trend with regard to dental investments. It is likely that this will be reflected in the sales figures from last year.

the continent have become rather reluctant to make large investments.

**Where do you see the industry heading, and what segments are the most likely to grow in the next few years?**

We will definitely see significant growth in digital dentistry as new technologies like intra-oral scanners, as well as digital imaging and planning instruments, find their way into dental practices. Dental laboratories too are increasingly making use of CAD/CAM technology. Both these developments will determine how the market and the dental business models will develop in the future.

Europe has traditionally been one of the largest markets for dental

**“...it is essential to impose new regulations in order to increase traceability of dental products within and beyond the borders of the EU.”**

While sales of sundries and technical services increased slightly in 2011, equipment sales decreased by over 2 per cent. Have dentists become more wary of investments?

Socio-demographic developments and changing patterns of reimbursements by public health services and insurers have had an impact on patients' health-care spending.

As a result of the financial crisis, people have had difficulty accessing capital through bank loans, renting, etc. which means they have less money available for medical and dental care. Consequently, dental practitioners and laboratories throughout

material and equipment, rivalled only by North America. How important have markets overseas become?

It goes without saying that in terms of economic growth, spending ability and other factors, the BRIC countries hold great potential. Dental distributors in Europe will be involved in this process as we gain access to other products and technologies from around the world. From this, competition will only increase within the EU. Our members will have to follow these changes carefully and learn to respond to them in a professional and transparent manner.

Thank you for the interview. ◀

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## IDS Speakers' Corner

### TUESDAY, MARCH 12

- 14:00 – 14:30 **Dan McOwen**  
CBCT/DVT 2013: Latest information, comparisons and purchasing guidelines
- 15:30 – 16:00 **Prof. Gianni Gaetta**  
Velscope—saving lives, not only teeth

### WEDNESDAY, MARCH 13

- 11:00 – 11:30 **Dr. Fay Goldstep**  
Predictable proactive periodontal treatment
- 15:30 – 16:00 **Michael Bauer, M.Sc.**  
The Use of Erbium lasers for Stimulation of Bone Growth Factors (PDGF)/Erbiumlasereinsatz zur Stimulierung der Knochenwachstumsfaktoren (PDGF)

### THURSDAY, MARCH 14

- 11:00 – 12:00 **Dr. Gianluca Gambarini**  
TF adaptive—a novel approach to canal instrumentation
- 12:00 – 12:30 **Dr. George Freedman**  
Cement free implants and long term maintenance

### FRIDAY, MARCH 15

- 11:00 – 11:30 **Dr. Henriette Lerner**  
DVT 2013: Neuigkeiten, Vergleiche und Tipps zur Entscheidungsfindung
- 16:00 – 16:30 **Dr. Derry Rogers**  
Introduction of new SDI products. Your Smile. Our Vision.

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# Welcome to the International Dental Show 2013

By Dr Martin Rickert, Chairman of the Association of German Dental Manufacturers (VDDI)



• Dr Martin Rickert, Chairman of the Association of German Dental Manufacturers (VDDI).

■ The dental industry in Germany is very dynamic in every aspect, technologically and economically. Particularly in the last ten years, the field has seen the introduction of numerous preventative and treatment procedures, all of which were inconceivable a mere 15 years ago. New ceramic dental materials, synthetic filling materials, CAD/CAM in restorative dentistry, digital imaging and implant treatment planning—we have been working as a team in every area, keeping the German dental industry a world leader. Together, we are smart and full of ideas, as well as innovative and flexible in our thinking. Nowhere else can you feel this more than at the International Dental Show, which is to be held from 12 to 16 March in Cologne in Germany.

Well, what can you expect to see at the show? CAD/CAM is in-

creasingly finding its way into daily practice with an ever-expanding offering of intra-oral scanners of all varieties. Video signals, blue LEDs, the confocal principle, with or without scanning powder, you will have the opportunity to see and experience everything within a day to help you make your purchasing decision.

At the same time, once-closed systems can now be used with different software, production units and scanners. This flexibility offers numerous possibilities for you to optimise work procedures in your own practice and in collaboration with your dental partners.

Likewise, more and more options are becoming available to you owing to developments in the dental industry. The outsourcing of dental

work requiring large and expensive machinery has been en vogue for years. Recently, there has been the opposite trend, which has been a surprise to many, of insourcing previously outsourced manufacturing steps.

With the recent advancements in CAD/CAM technology, decisions regarding material selection can increasingly be tailored to every single patient. With state-of-the-art ceramic materials, dentists and dental technicians, for example, can work on multiple indications and with conventional metal ceramics using high gold-content alloys, which themselves are very up to date. Modern rapid-prototyping procedures could also become more important in the field of high-performance ceramics.

Is everything becoming digital then? The answer is yes, but everything is also becoming more biological and interdisciplinary—nowadays, dentists increasingly refer patients to other medical specialists. The fight against periodontitis and peri-implantitis has to be viewed in the context of systematic disease, a link clearly supported and illustrated by recent scientific results. Therefore, microbiological studies on genetics in particular have gained a more prominent role in dental science. In this field, the International Dental Show is also expected to showcase more precise and faster procedures.

In addition, innovations in the field of imaging have made their mark in the high-tech sector. Increasingly

combined into compact hybrid systems, intra-oral cameras, fluorescent cameras and even polymerisation lamps have become effective tools in the diagnosis of caries and in dental filling.

Owing to these developments, I am looking forward to the upcoming International Dental Show, and particularly to your visit and expert opinion on the innovations presented there. ◀◀

## The industry highlight of the year

By Katharina C. Hamma, COO of Koelnmesse

■ The countdown to the International Dental Show (IDS) has started. In a few weeks, the global dental community will meet once again in Cologne.

The IDS is the undisputed leading global trade show for the dental industry. A visit to the trade fair halls in Cologne is a must for dentists and dental technicians, other dental staff, members of the specialist dental trade, scientists and researchers. There is no other event in which the entire dental industry—including all international market leaders—presents such a wide range of products and services. The exhibition will be showcasing items from many areas, including dentistry and dental technology segments; infection prevention and maintenance; dental services; and all of the relevant information, communication and organisational channels.

This year, the show will occupy 150,000 m<sup>2</sup> of exhibition space for the first time. More than 1,950 companies from over 55 countries will be presenting the latest trends, as well as many innovations and services. Once again, the percentage of visitors and exhibitors from outside Germany will increase, as we are expecting to welcome 10 per cent more exhibitors from abroad than we had two years ago. Overall, 68 per cent of the exhibitors will be coming to Cologne from outside Germany. From this, it is clear that the IDS is cementing its position as the leading global trade fair.

Visitors to the IDS will be travelling to Cologne from all over the world. Two years ago, some came from as far away as the Bahamas, Trinidad and Tobago, Zimbabwe, Togo, Madagascar, Qatar, Oman, Laos, Cambodia, Tajikistan, Polynesia and Micronesia. This year we are expecting to welcome more than 120,000 visitors from every part of the world, professionals who want to take a closer look at the latest innovations in the industry. Such an international exchange of experiences and business deals is only possible at the IDS in Cologne.

Visitors can be sure that there will be no lack of innovations at the fair. The industry's innovative capacity is well known, and the IDS is the largest show of innovations in the world of dentistry. However, new products and technologies are only



• Katharina C. Hamma, chief operating officer of Koelnmesse.

one side of the coin. As usual, the supporting programme will offer added value. At the Speakers' Corner in Hall 3.1, for example, IDS exhibitors will provide information daily about new products, services and technical processes. They will also report on the latest scientific and research findings. In addition, the German Dental Association (BZÄK) and the Association of German Dental Technicians' Guilds (VDZI) will round off the events at the IDS with their professional activities.


For an event of this scope, excellent preparation is essential. We offer visitors a number of tools to enable them to plan their visit optimally. These tools include the current update of the IDS app for smartphones, which now features an exhibitor search function and a navigation system to guide visitors through the halls and to stands of their interest. The update also provides information about catering options, local services and the IDS supporting programme. Thanks to the Business Matchmaking 365 function, exhibitors and visitors can communicate with each other even before IDS 2013 begins and after it ends. The online schedule planner makes it possible to arrange meetings with exhibitors in advance via e-mail. Anyone wanting an overview of the latest products can search for them in advance using our online innovation database. All these features will make it much easier to prepare for a visit to the IDS.

You will not want to miss the IDS. It is the ideal business, information and communication platform for the entire world of dentistry. And that makes it essential for everyone active in the dental industry.

I wish you a successful IDS 2013 and a enjoyable stay in Cologne! ◀◀

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# EU faces serious recruitment problems in the health-care sector

■ The EU health-care sector is facing hard times. With an ageing work-force and insufficient new recruits to replace those who are retiring, the future does not look promising. Owing to demanding working conditions and relatively low pay in some health occupations, recruits are not attracted to the sector. A working document published by the European Commission (EC) last year demonstrates the gravity of the situation.

A while ago, the EU member states invited the EC to propose an action plan to assist them in tackling the key challenges facing the health work-force in the medium to longer term. This commission staff working document describes the current status of the sector, among other matters.

The health-care sector comprises workers who primarily deliver health-care services, including health professionals (doctors, nurses, midwives, pharmacists and dentists), allied health professionals, public-health professionals, health management, and administrative and support staff. Some people also work for the health-care sector indirectly, such as those employed in the health-care industries and support services, pharmaceuticals, medical device industries, health insurance, health research, e-health, occupational health, spa, etc.

Most health-care workers are female. More than 13.1 million women were employed in the sector in 2010, making up more than three quarters of the health work-force in the entire EU.

Health care is one of the largest sectors in the EU, with around 17.1 million jobs in 2010, which accounts for eight per cent of all jobs in the EU-27. The number of jobs in the sector increased by 21 per cent between 2000 and 2010, creating four million new jobs. According to the EC document, the health-care sector even continued to grow during the economic crisis, with the positive trend reflected in all age groups. Forecasts predict that it will remain a growing sector, even though employment growth will be more modest compared with 2000 to 2010.

## Lack of recruits

As the population ages, the demand for health care and thus for labour in this sector will increase dramatically. The number of elderly people aged 65 and over is projected to almost double over the next 50 years, from 87 million in 2010 to 152.7 million in 2060. According to the EC paper, long-term and formal care is likely to increase, with an expected reduction in the availability of informal careers, for example as a result of changing family structures.

Currently, most member states are facing critical work-force shortages in certain health professions and medical specialisations or geographical areas. Resulting from this, the retirement bulge is drastically shrinking

the EU's health-care work-force. In 2009, about 30 per cent of all doctors in the EU were over 55 years of age, and by 2020 more than 60,000 doctors or 3.2 per cent of all European doctors are expected to retire annually.

At the same time, not enough young recruits are coming through the system to replace those who leave. In Italy, 13,400 nurses were due to retire in 2010, but only 8,500 graduated in 2008/2009. Germany is facing serious difficulties in training a sufficient number of graduates, Slovakia has an insufficient number of nurses, midwives, physiotherapists, radiological



assistants and paramedics, and Hungary faces serious bottlenecks in supply caused by a reduced number of graduating nurses. Unfilled specialist training places have been reported in Austria, France, Hungary and Romania.

## Jobs not appealing

The reasons for the lack of health-care workers are well known. Even though the level of education among health-care and social workers is higher than average, many jobs in the sector are poorly paid. Overall wage levels in the health-care and social services sectors tend to be lower than in other sectors of the economy. This tendency is related to the high rate of female employment in the sector and to the sex pay gap. On top of this, employees are often faced with long and demanding working hours, stress or difficult work-life balance. Those factors are reasons to quit for those already working in health care and make the sector unappealing to recruits.

European nurses in particular are significantly unhappy with their working conditions. According to the EC document, many report that they intend to leave their hospital positions, with numbers reaching from 19 per cent in the Netherlands to 49 per cent in Finland and Greece.

## Dentists needed in Finland and the Netherlands

The commission estimates a potential shortfall of around one million health-care workers by 2020, increasing up to two million if long-term care and ancillary professions are taken into account. This means around 15 per cent of care will not be covered, compared with 2010.

The EU research project on health professional mobility and health systems (PROMeTHEUS) provides evidence from 17 European countries, for example Denmark, Finland, France, Germany and Romania, that there is an undersupply of health profession-

als in rural and sparsely populated areas, an oversupply of doctors in some urban areas, particularly in Germany, and an oversupply of nurses in Belgium. In addition, the number of medical specialists is increasing much more rapidly than the number of general practitioners.

A significant shortage of dentists is evident in Finland. Additionally, the Netherlands is short of dental surgeons. By 2020, there will be a shortage of 150,000 professionals in the group including dentists, pharmacists and physiotherapists in the EU. This means that up to 13.5 per cent of care will not be covered.

## Professionals leaving the EU

All 27 member states are experiencing migration of health professionals, but western and northern member states are also receiving health professionals from other countries. However, based on the limited data available, outflows have rarely exceeded three per cent of the domestic work-force.

The brain drain, the high outflow of health professionals, does not benefit the member states, as many health professionals migrate to non-EU countries, according to the EC. Health workers migrate to the US, Australia, New Zealand and Canada, and the inflows of foreign doctors with long-term permits have also increased markedly in non-EU member Switzerland (70 per cent increase between 2001 and 2008), where mainly German professionals go.

In Austria, Belgium, Denmark, Germany, the Netherlands and Poland, nearly 30 per cent of all migrant doctors come from outside the EU. This figure rises to 60 per cent in France and Italy, and to 80 per cent in Ireland and the UK.

## Action to be taken

In the document, the EC proposed three areas for action to help tackle the EU health-care work-force shortages: forecasting work-force needs and improving work-force planning methodologies, anticipating future skills needs in the health professions, and sharing best practice on effective recruitment and retention strategies for health professionals.

These areas for action reflect feedback from the commission's public consultation on the "Green Paper on the European Workforce for Health", which drew over 200 responses from several stakeholders.

The implementation of the actions requires enhanced collaboration—between the commission, the member states, stakeholders and social partners—and improved coordination across a range of policies (health, education, social, policy, employment, internal market, development and cohesion), the document says. Member states are urged to maximise the use of European funding instruments to support the actions to tackle health work-force shortages and to boost job creation in the health-care sector.

The complete document, including a detailed action plan to tackle the challenges for health-care systems, can be found in the document section at [www.hospage.eu](http://www.hospage.eu). ◀

## Effects of tooth whitening under inspection by European Union



■ The Council of European Dentists (CED) is currently conducting a one-year survey on possible negative side-effects of tooth whitening and bleaching products. The committee has called upon dentists in the EU to report their own and their patients' observations.

The survey includes tooth whitening and bleaching products that are not freely available on the market to consumers, that is, those

that contain between 0.1 and 6 per cent hydrogen peroxide. It runs until 31 October 2013. The initial results will be reported to the European Commission by the end of this year.

Dentists can access the survey anonymously and voluntarily online through the website of their national dental association. According to the CED, only a summary of all responses will be published once the survey has been completed. The research is being

carried out in accordance with an agreement between the CED and the European Commission that was signed in March 2010 owing to the increasing availability of tooth whitening products on the EU market. The agreement was signed to ensure appropriate tooth whitening treatment through qualified dental professionals and to improve patient safety.

Over one year ago, the Council of the European Union passed an amended directive on tooth whitening products, which resolved that tooth whitening or bleaching products containing more than 0.1 per cent and up to 6 per cent hydrogen peroxide will only be sold to dentists. Products with concentrations of up to 0.1 per cent continue to be freely available on the market.

The CED is a non-profit organisation, which represents over 340,000 dentists across Europe. It is aimed at the promotion of high standards of oral health care and effective patient-safety-centred professional practice in Europe.



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# Conical internal connections will fuel future growth in European dental implant market

By Dr Kamran Zamanian & Ian van den Dolder, iData Research Inc., Canada.

■ The dental implant and bone graft substitute market is the most rapidly advancing segment of dental technology, and leading competitors in this market must consistently develop new products supported by research from scientific and academic organisations to remain competitive. Recent cases have demonstrated that when

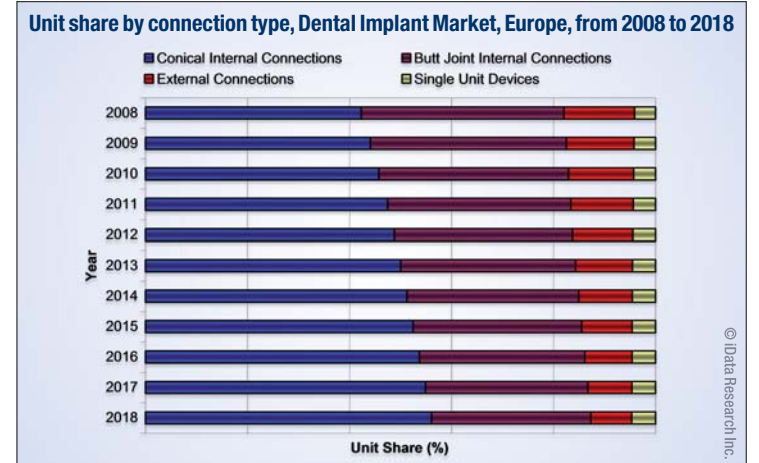
larger market shares in almost every European market. In many segments, these competitors are either regional or sourced from overseas markets such as Brazil, Korea and Israel. Regenerative products and barrier membranes have been particularly affected by consumer austerity, as these products are discretionary in many cases.

looked to expand their product portfolio or create new markets while they create package deals to offset competition from rapidly emerging lower-priced competitors. Significantly, many European and US companies involved in this market have begun to invest in rapidly emerging periphery markets such as Turkey.

## Increasing prevalence of conical internal connections

Dental implants are connected to final abutments in one of three ways: internal connections, external connections or single-unit devices in which the implant and abutment are already attached. Furthermore, internal connections have two sub-segments: butt-joint internal connections and conical internal connections.

Research has shown that a lack of intimate fit of the implant in the abutment or movement of the implant can provide an area for bacterial growth. Conventional butt-joint connections provide a connection that can result in micro-movement between the implant and the abutment, creating a pump effect for bacteria into the connection area. When bacteria are present in the micro-gap, they can cause inflammation, tissue recession and bone loss. Recent clinical studies have demonstrated that, on average, conical connections offer a smaller micro-gap than butt-joint connections, in addition to a greater mechanical level of stability. As a result, conical connection types have become hugely suc-



cessful in the dental implant market, and the majority of leading dental implant manufacturers have introduced conical internal connection products. Conical connection types will continue to represent one of the fastest-growing segments of the dental implant market.

## Turkey one of the fastest growing markets in the world

Turkey is one of the fastest-growing dental implant markets, congruent with strong economic growth that weathered the recession far better than the US and nearly any region in Europe. The technology of dental implants in this country has advanced rapidly, as most of the major players in the European market moved quickly to gain a strong market share in Turkey. Additionally, this market benefits from low labour costs, which adds to the incentive for implant companies to establish domestic subsidiaries or local distribution partners, fuelling options for consumers. Turkey is also a popular destination for dental tourism, especially among patients from more expensive European markets. From 2008 to 2018, the Turkish dental implant, final abutment and computer-guided surgery market is expected to grow at a compound annual growth rate of 20.4 per cent.

In May 2011, AGS Medikal Ürünleri, the first major Turkish company to produce dental implants, commenced operations in the province of Trabzon, on the coast of the Black Sea. The company was established with an initial 5 million Turkish lira investment. Market experts predict that the company will soon be joined by other Turkish dental implant manufacturers that will offer lower-priced products to compete domestically and later internationally with larger implant companies.

## EU medical tourism to strongly impact dental implant market

The EU directive on cross-border healthcare that comes into force in 2013 will have a strong impact on the European dental implant market. This directive will target the medical tourism market, which is significant, as dental treatment procedures account for nearly half of medical tourism in most major markets. The directive gives patients the right to be reimbursed for treatment they receive in other EU countries. This could lead to more Western Europeans traveling

to Eastern Europe, including Poland and Bulgaria, which are rapidly developing the quality of the medical services they offer.

The UK features one of the highest rates of outbound dental tourism, as patients are unaccustomed to large out-of-pocket costs for procedures, owing to the legacy of the National Health Service. Whereas rich patients from developing countries used to come to prestigious hospitals in the UK and elsewhere for treatment, outbound medical travel from the UK has been growing far faster than inbound over the past decade, as UK patients are increasingly traveling abroad for lower-cost care. Figures suggest more than 50,000 citizens of the UK go abroad for treatment annually. The number of outbound medical tourists from the UK rose by 170 per cent from 2002 to 2009.

## Dental implant companies follow success of conical internal connection

Internal connection types as a whole are becoming increasingly dominant in the dental implant market. Conical internal connections and butt-joint internal connections represented 83.4 per cent of implants with an internal connection in 2011. Conical internal connections is the fastest-growing segment of the market and expected to increase at a compound annual growth rate of 10.1 per cent by 2018.

NobelActive (Nobel Biocare) was one of the foremost early successes of conical connection types, and was rapidly adopted by consumers owing to clinical results demonstrating its greater stability and smaller micro-gap between implant and abutment. The majority of large companies now offer a conical connection, as this market is expected to overshadow butt-joint internal connections increasingly owing to the greater stability and perceived smaller-diameter micro-gap offered by conical internal connections. Many companies are combining these connection types with tapered shape and surface treatments as the current generation of premium products. ◀

iData Research is an international market research and consulting firm focused on providing market intelligence for the medical device, dental and pharmaceutical industries. For more information and a free synopsis of the above report, please contact iData Research at [dental@idataresearch.net](mailto:dental@idataresearch.net).



View of Istanbul. Turkey is expected to become one of the major growth markets for dental implants in Europe.

companies lose a segment of support from the scientific community, their market shares tend to suffer significantly.

The European dental implant and bone graft substitute market has been further challenged by recent economic instability and the eurozone crisis, which has created a consistent demand for lower-cost dental implant products. As a result, many lower-priced competitors have begun to seize

However, a growing number of consumers continue to demand high-quality products, guarantees of service and scientific improvements, which only premium manufacturers are equipped to offer. Conical internal connections is one such recent innovation, and currently constitute the fastest-growing connection type in the dental implant industry.

Many dental implant and bone graft substitute companies have

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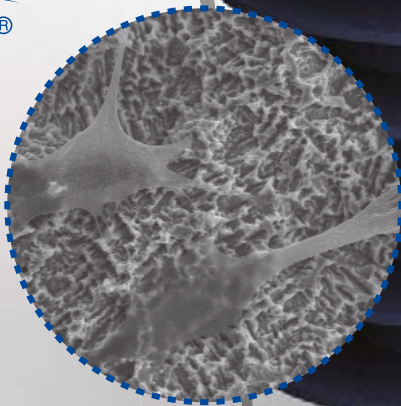
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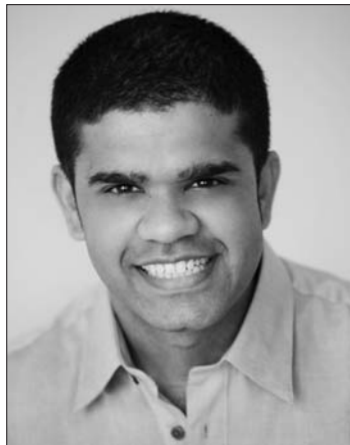
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# CAD/CAM and growth factors— Key areas of dental innovation

By Dr Nilesh R. Parmar, UK



Dr Nilesh R. Parmar

Dentistry has come along way since our colleagues were forced to use foot powered drills and mix amalgam from its bare components. Modern day dental equipment and materials are at the cutting edge of medical and dental innovation, and it's shows such as the International Dental Show (IDS) where the developments of the future are announced. Modern dentists no longer have merely a straight probe and a dental drill at their disposal. We now have scans, 3-D images, growth factors and an almost unlimited choice of materials available to use.

In writing this piece, I made a tough decision to focus on what I believe to be key areas of dental innovation. It is in these areas of imaging, CAD/CAM technology and growth factors that I believe are going to

be important in the dental surgery of the future.

## CAD/CAM

Computer-aided design/computer-aided manufacturing has had a presence in dentistry for nearly 20 years. However, only in the last ten years that developments have really made a difference in the reliability, ease of use and functionality of these devices. We now have CAD/CAM machines (e.g., CEREC, iTero, Lava) that can scan an entire arch, design and fabricate all-ceramic restorations in the practice. The popularity of chairside CAD/CAM units has never been greater. The materials that we are able to use in conjunction with CAD/CAM scanners have gone from monolithic, one shade blocks to multi-layered, all-ceramic, lithium-disilicate constructions that can be sintered and finalised in as little as 15 minutes.

The appearance of these restorations, although still needing a well-trained (and artistic) dentist, could be said to be on par with certain lab-based fabrications whilst maintaining the advantages of being a chairside single visit restoration. CAD/CAM technology is now almost universally used in the fabrication of dental implant abutments and bars, reducing construction times, designs and fit. Dentists are now beginning to use chairside CAD/CAM devices to restore dental implants without the need for any impressions.

## CBCT 3-D scanners and CAD/CAM integration

Cone beam computed tomography (CBCT) scans are now commonplace in dentistry, particularly in implant dentistry where Grondahl (2007) found that 40 per cent of all CBCT scans were

and soft tissues and their relationship to each other. For example, an implant can be planned in the implant software with the angulation of the implant taking into account the ideal position of the final crown, which can also be shown in the CBCT scan.

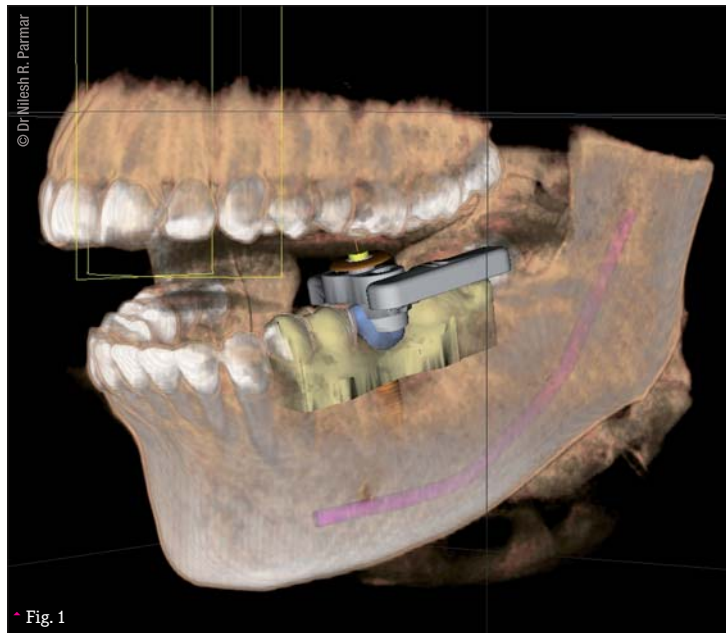


Fig. 1

taken for implant treatment. Where 3-D scans were reaching a shortfall was in actually relaying the information obtained into the mouth during the surgical procedure. One recent innovation has been to overlay scans of the patient's own teeth and soft tissues onto the CBCT scan data. This gives an accurate representation of the hard

In order to do this previously, the dentist would have to make a study model and then wax up the ideal final restoration contour, ensuring some barium sulfate within the wax in order for it to show up in the scan. This was both costly and time consuming. Recent developments have allowed one to take an intra-oral scan using a suitable device, such as a CEREC or iTero machine, and overlay this with the CBCT scan. No models, no wax ups; the procedure is almost instant and can be done with the patient in the chair. As a patient education tool, this visual format is invaluable, allowing patients to fully understand the proposed work and its execution.

Taking this one step further, guided implant surgery now allows us to not only plan implant placement using ideal restoratively driven protocols, but actually allows us to make a guided surgical stent, made in-house or by a lab, and place the implant through the stent. Studies have found that this is an accurate treatment modality that can be reliably executed. Flapless surgery with immediate temporisation has the ability to revolutionise the patient journey and help us to meet their expectations.

## Facial scanners

A small but rapidly developing area of digital dentistry is facial scanners. These are in their infancy at the moment, with a lot of companies still trying to iron out the bugs in the machines. Their potential applications in the field of plastic surgery,

facial aesthetics, orthodontics, implant surgery and orthognathic surgery are endless.

I have been fortunate to see a prototype facial scanner from Sirona and even managed to have my face scanned (Figs. 1 & 2). The detail achievable with these units is impressive. Once this information is combined with 3-D scans, teeth scans and jaw articulation, a fully working and movable representation of the patient's head can be compiled on the computer screen. Allowing for treatment planning and assessment to be carried out without any need to see the patient. One application of this may be in developing countries, where various experts from around the world can examine complicated facial reconstruction cases without them actually seeing the patient. As already mentioned, the opportunities for patient education are huge, and with procedures such as plastic surgery and orthognathic surgery being so difficult to properly consent for, facial scanners will greatly aid clinicians.

## Growth factors

Available for a long time in medicine and dentistry, growth factors have been the reserve of PhD students and professors until recently. The resurgence of the usage of platelet rich plasma (PRP) has come about with added research showing that using PRP can greatly improve osteoblast proliferation (Parmar 2009) and accelerate soft-tissue healing. Companies are now offering clinical courses for dentists to make, produce and use PRP in their own surgeries within 15–30 minutes. The main advantage of PRP is that it's free; is obtained from the patients' own blood, thus removing the risk of rejection; and can be made in vast quantities. As more research is published, coupled with simpler production kits, PRP use will increase in all aspects of invasive dental surgery.

The above is just a short description of what is being developed for the future. Dentistry has never been so intertwined with technology.



Fig. 2

The next ten years will prove to be exciting and I eagerly await to hear, see and use the new technologies that are being developed today. ◀

Dr Nilesh R. Parmar runs a successful five-surgery practice close to London and is a visiting implant dentist to a central London practice. His main area of interest is in dental implants and CEREC CAD/CAM technology.

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# The new soft-tissue handpiece in laser dentistry

By Drs Fay Goldstep & George Freedman, Canada



• Dr Fay Goldstep

■ While dental lasers have been commercially available for several decades and their popularity among patients is unparalleled, the dental profession has taken to this treatment modality rather slowly—although lasers have been thoroughly documented in the dental literature. The laser is an exciting technology, widely used in medicine, kind to tissue, and excellent for healing.



• Dr George Freedman

So why have lasers not been more widely embraced by the practising dentist?

There is a widely held perception in the profession that somehow the dental laser is not useful, too complicated, and too expensive. These concerns changed forever with the arrival of the diode laser on the dental market. There is now a conver-

gence of documented scientific evidence, ease of use and greater affordability that makes the diode laser essential for every dental practice.

## Diode lasers: The science in brief

LASER is an acronym for light amplification by stimulated emission of radiation. Lasers are commonly named for the substance that is stimulated to produce the coherent light beam. In the diode laser, this substance is a semiconductor (a class of materials that is the foundation of modern electronics, including computers, telephones and radios). This innovative technology has produced a laser that is compact and far lower in cost than earlier versions.

Much of the research on lasers has focused on the 810 nm diode laser. This wavelength is ideally suited to soft-tissue procedures, since it is highly absorbed by haemoglobin and melanin. This gives the diode laser the ability to precisely cut, coagulate, ablate or vaporise the



© Fay Goldstep & George Freedman, Canada

• Fig. 1

target soft tissue with less trauma, improved post-operative healing and a faster recovery time. Given its incredible ease of use and versatility in treating soft tissue, the diode laser is the soft-tissue handpiece in the dentist's armamentarium.

The dentist can use the diode laser soft-tissue handpiece to remove, refine and adjust soft tissue in the same way in which the traditional dental handpiece is used on enamel and dentine. This extends the scope of practice of the general dentist to many soft-tissue procedures.

portability, high maintenance profile, confusion of operating tips, and complex procedural settings. Dentists are uncertain of which tip and settings to use for each procedure, and the need for a laser when their conventional techniques have served them well is not clear to them.

Enter the diode laser. It is compact and can easily be moved from one treatment room to another. Furthermore, it is self-contained, and does not have to be hooked up to water- or air-lines. It has one simple, replaceable fibre-optic operating tip.

## “Laser therapy expands the clinical scope of practice”

Treatment with the Picasso 810 nm diode laser (AMD Lasers; Fig. 1) has been shown to have a significant long-term bactericidal effect in periodontal pockets. *Aggregatibacter actinomycetemcomitans*, an invasive pathogen associated with the development of periodontal disease and generally quite difficult to eliminate, responds well to laser treatment. Scaling and root planing outcomes are enhanced when diode laser therapy is added to the dental armamentarium. The patient is typically more comfortable during and after treatment, and gingival healing is faster and more stable.

### Diode laser: Ease of use

Early adopter dentists thrive on new technologies. They enjoy the challenges that come with being the first to use a product. Most dentists, however, are not early adopters. Over the past two decades, lasers have intimidated mainstream dentists with their large footprint, lack of

The units come with several presets, although the operator quickly becomes so comfortable with the device that they are rarely needed. The power and pulse settings are easily adjusted to suit the particular patient and procedure.

Many dentists do not thrive on the challenges of brand new high-tech, high-stress technology. In fact, many lasers in the past promised to be user-friendly but were anything but. The 810 nm diode laser is a different experience; after a brief in-office demonstration, the dentist feels comfortable enough to use the laser handpiece to perform some simple clinical procedures. Further online training and lecture courses enhance both clinical comfort level and competency.

### Diode laser: Affordability

Laser technology has always come with a high price tag. Manufacturing costs are high and cutting-



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Fig. 2

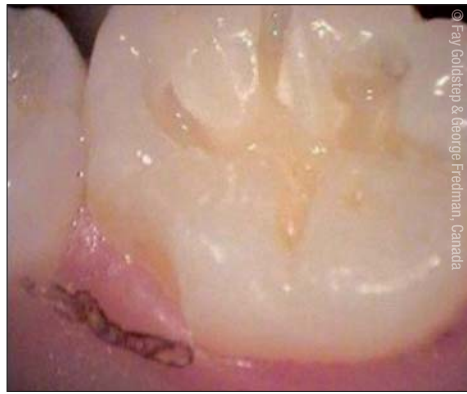


Fig. 3



Fig. 4



Fig. 5

edge technology commands steep prices, but diode lasers are less expensive to produce. Breakthrough pricing for this technology has now reached under US\$5,000. At this level, the diode laser becomes eminently affordable for the average practising dentist.

Gingivectomy, haemostasis and gingival troughing for impressions are easy entry points for the new laser user. The Picasso diode laser makes restorative dentistry a simple task. Any gingival tissue covering a tooth during preparation can easily be removed, as haemostasis is simultaneously achieved (Figs. 2–5).

The restoration is no longer compromised due to poor gingival conditions and there is no more battling with unruly soft tissue and blood. Gingival troughing prior to impression taking ensures an accurate impression, particularly at the margins, and an improved restorative

outcome. Packing cord is no longer necessary.

Operculectomy, excision and/or recontouring of gingival hyperplasia, and frenectomy are not commonly offered or performed by general dentists. However, they are examples of the expanded range of services readily added to the general practice with the diode laser. Dentists become more proactive in dealing with hyperplastic tissue that can increase risk of caries and periodontal disease. A frenectomy is now a simple and straightforward procedure.

Two types of diode lasers have been studied for their effects in laser-assisted periodontal therapy: (a) the diode laser (which emits high levels of light energy); and (b) the low-level diode laser (which emits low-intensity light energy). There is very compelling evidence in the dental literature that the addition of diode laser

treatment to scaling and root planing will produce significantly improved and longer-lasting results. Scaling and root planing is the gold standard in non-surgical periodontal treatment.

Low-level lasers for biostimulation have been used in medicine since the 1980s. The therapeutic effect is non-cutting and low intensity, and covers a much wider area than the traditional laser. Low-level laser therapy is treatment in which the light energy emitted by the laser elicits beneficial cellular and biological responses. At a cellular level, metabolism is increased, stimulating the production of adenosine triphosphate, the fuel that powers the cell. This increase in energy is available to normalise cell function and promote tissue healing.

The functions of the diode and low-level diode lasers have remained separate until recently. With

the Picasso biostimulation delivery tip, the diode laser is now able to provide both cutting and therapeutic effects.

When the low-level tip is used, the laser energy is delivered over a wider area, decreasing the energy level and producing a low-level therapeutic effect.

The soft-tissue diode laser has become an essential mainstream technology for every general practice. Its science, ease of use, and affordability make it simple to incorporate.

The laser is now the essential soft-tissue handpiece for the practice. In fact, there is a case for having a diode laser in each restorative and each hygiene treatment room. Diode lasers make restorative dentistry less stressful, more predictable and more enjoyable for the dental team and the patient.

Laser therapy expands the clinical scope of practice to new soft-tissue procedures that keep patients in the office. The patient's gingival health is improved in a minimally invasive, gentler manner. ◀◀

*Dr Fay Goldstep has served on the teaching faculties of the postgraduate programmes in aesthetic dentistry at SUNY Buffalo, the University of Florida (Gainesville) and the University of Minnesota (Minneapolis), and has been an ADA Seminar Series speaker. She is a consultant to a number of dental companies, and maintains a private practice in Toronto, Canada.*

*Dr George Freedman is a founder and past president of the American Academy of Cosmetic Dentistry, a co-founder of the Canadian Academy for Esthetic Dentistry and a diplomate of the American Board of Aesthetic Dentistry. He was recently awarded the Irwin Smigel Prize in Aesthetic Dentistry by the New York University College of Dentistry.*

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# Raising the bar for endodontic success: Where we were, where we are and where we are going

By Dr Gary Glassman, Canada

■ Vince Lombardi so eloquently stated, "Practice does not make perfect. Only perfect practice makes perfect." In other words, we can perform a procedure repeatedly over and over again and not obtain the expected outcome for success. We must continually advance in all disciplines of dentistry in order to provide our patients with the most predictable treatment regimens possible, understanding the greatest variable that stands in our way is the human variable. Elevating the standards of endodontic care is inexorably tied to an important dynamic in our armamentaria.<sup>48,50</sup>



• Dr Gary Glassman

The objective of endodontic treatment has continue to be a constant since root canal treatment was first performed; the prevention or treatment of apical periodontitis such that there is complete healing and an absence of infection,<sup>1</sup> while the overall long-term goal is the placement of a definitive, clinically successful restoration and preservation of the tooth. After all, the main objective in dentistry is to retain what nature has created!

From about 1985 to 1995 there was more change in clinical endodontics than in perhaps the previous 100 years combined. In these 10 years, clinical endodontics changed forever with the emergence and development of four very important technologies: the dental operating microscope (DOM), ultrasonics, nickel-titanium rotary file systems and mineral trioxide aggregate (MTA).<sup>2,3,50</sup>

## Where We Were

### The Dental Operating Microscope

Superior vision became attainable with the integration of the dental operating microscope (DOM). Diagnostically, the operating microscope is an indispensable aid in locating cracks and tracking vertically fractured teeth.<sup>2,4</sup> It allows a more detailed view of root canal intricacies, enabling the operator to more efficiently examine, clean and shape complex anatomy.<sup>5</sup> It provides superior resolution, thereby aiding the removal or bypassing of separated canals.<sup>6</sup> A microscope provides an improved surgical technique allowing for smaller osteotomies, shallower bevels and the location of isthmi and other canal irregularities,<sup>7</sup> thereby allowing unprecedented success rates of up to 96.8 per cent.<sup>8</sup> A DOM has sig-

nificantly shown to improve the probability of locating a second mesial buccal canal in maxillary molars. Baldassari-Cruz et al.<sup>9</sup> showed that the MB-2 canal was located in 90 per cent of maxillary molars with the operating microscope but only 52 per cent with unaided vision.<sup>50</sup>

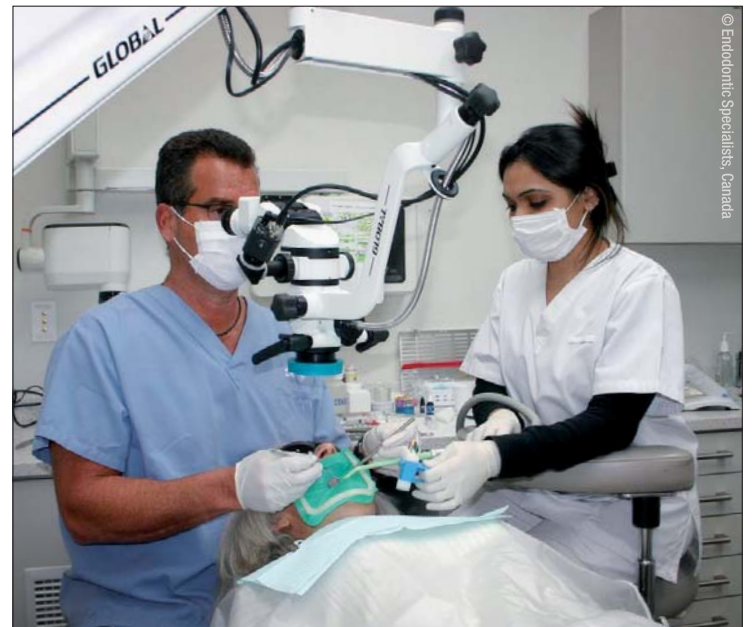
### Sonics

Piezoelectric ultrasonic energy, in conjunction with the DOM, drove microsonic (sonic and ultrasonic) instrumentation techniques that are minimally invasive, efficient and precise.<sup>2</sup> Refinement of access openings in a controlled and predictable manner, locating calcified canals with a reduced risk of perforation, removal of attached pulp stones, removal of intracanal obstructions (separated instruments, root canal posts, silver points and posts) and removal of the smear layer, biofilm and remaining debris are just some of the many uses that microsonics are capable of doing.<sup>2,10,11</sup>

In surgical endodontics, specially designed retro tips are used ultrasonically for superior root-end cavity preparation. This allows minimal removal of root structure down the long access of the root canal without the creation of a bevel for surgical access. This subsequently reduces the number of exposed dentinal tubules and minimizes apical leakage.<sup>10,50</sup>

### Nickel Titanium Instruments

Canal preparation procedures became more predictably successful



• The operating microscope has become an indispensable aid in the field.

with the emergence of nickel titanium files (NiTi) files.<sup>2</sup> This super-elastic alloy has shape memory, allowing for better maintenance of the original canal anatomy. These files produce less extrusion of debris, allow greater cutting efficiency and reduce the time for canal shaping compared to stainless-steel files. They are biocompatible, anticorrosive and do not weaken following sterilization.<sup>12,13</sup> Although full rotary has been the mainstay for nickel-titanium systems for years, reciprocating motors have taken the market by storm by allowing less debris extrusion and quicker negotiation to the apices and less file fatigue.

### Mineral Trioxide Aggregate

This decade of extraordinary change concluded with the introduction of mineral trioxide aggregate (MTA).<sup>2</sup> This remarkable and biocompatible restorative material has become the standard for pulp capping and has salvaged countless teeth that previously had been considered hopeless.<sup>2</sup> In vital pulp therapy, when MTA is used as a direct pulp cap to maintain pulp vitality, studies have shown that these areas were free of inflammation and all of them had calcified bridge formation after five months.<sup>49</sup>

MTA has proved to be the ideal pulpotomy agent in terms of dentin bridge formation and preserving normal pulpal architecture.<sup>49</sup> MTA produces favourable results when it is used as a root-end filling material in terms of lack of inflammation, presence of cementum and hard-tissue formation.<sup>49</sup> It is used to repair both furcal and lateral perforations with a relatively high degree of success and to seal both internal and external resorptive defects from an orthograde and retrograde approach.<sup>49</sup>

The treatment of teeth with open apices and necrotic pulps has always been a challenge for the dental practitioner. MTA can effectively be used as an apical barrier in teeth with necrotic pulps and open apices.<sup>49, 50</sup>

## Where We Are

### Irrigants and Irrigant Delivery Systems

Perhaps the greatest international attention in recent years has fo-

used on methods to improve endodontic disinfection in the root canal system.<sup>2</sup> The desired attributes of a root canal irrigant include the ability to dissolve necrotic and pulpal tissue, bacterial decontamination with a broad antimicrobial spectrum, the ability to enter deep into the dentinal tubules, biocompatibility and lack of toxicity, the ability to dissolve inorganic material and remove the smear layer, ease of use and moderate cost. The combination of sodium hypochlorite and EDTA has been used worldwide for antiseptics of root canal systems.<sup>15</sup> Sodium hypochlorite has the unique ability to dissolve necrotic tissue and the organic components of the smear layer.<sup>16-18</sup> It also kills sessile endodontic pathogens organised in a biofilm.<sup>19,20</sup> There is no other root canal irrigant that can meet all these requirements, even with the use of methods such as increasing the temperature<sup>21-25</sup> or adding surfactants to increase the wetting efficacy of the irrigant.<sup>26,27</sup>

Deminerizing agents such as EDTA have therefore been recommended as adjuvants in root canal therapy in combination with sodium hypochlorite<sup>20,28</sup> as they dissolve inorganic dentin particles and aid in the removal of the smear layer during instrumentation.<sup>29</sup> It is very important to note that while sodium hypochlorite has unique properties that satisfy most requirements for a root canal irrigant, it also exhibits tissue toxicity that can result in damage to the adjacent tissues, including nerve damage should sodium hypochlorite incidents occur during canal irrigation.<sup>15</sup> It is therefore very important that irrigant delivery devices are used that not only allow voluminous exchange right to the apex but also deliver them in a safe and effective manner without apical extrusion.

Root canal irrigation systems can be divided into two categories: manual agitation techniques and machine-assisted agitation techniques.<sup>11</sup> Manual irrigation includes positive pressure irrigation, which is commonly performed with a syringe and a side-vented needle. Machine-assisted irrigation techniques include sonics and ultrasonics, as well as newer systems

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# “Seeking new global partnerships”

An interview with Gary W. Price, CEO and president of the Dental Trade Alliance

■ The Dental Trade Alliance (DTA) has been representing the interests of the North American dental industry since 2004, when the American Dental Trade Association merged with Dental Manufacturers of America. It is also the organiser of the US pavilion at the upcoming International Dental Show (IDS) in Cologne. *today international* had the opportunity to speak with Gary W. Price, CEO and president of the dental trade organisation, about the state of the industry and the importance of the show to US manufacturers of dental equipment.

**today international:** At IDS Cologne 2011, the US dental industry was the second-largest group of manufacturers from one country. Are we going to see another increase in participation this year?

**Gary W. Price:** The International Dental Show is a very popular venue for the majority of American and Canadian companies. We see this in the increasing number of companies exhibiting under the joint US dental industry pavilion that we organize in Hall 4.2. For the period 2011-2015, we anticipate additional growth in participating exhibitors of roughly 15 per cent.

The IDS attracts the largest number of distributors, government health-care agencies and authorised buyers of any dental meeting that US manufacturers can attend. It gives our industry the best opportunity to connect with reputable and new strategic partners.

The recession seems to have had a significant impact on dental markets in North America. What's the

current state of the industry there and what are the most prominent trends?

Sales of oral health-care products and equipment have been increasing moderately since the economic downturn. Certain segments like digital radiography, however, are growing



© Gary W. Price

rapidly. This year is shaping up to be a good one for sales owing to pent-up demand and new dentists wanting the latest technology for their practices. Retiring dentists are also increasingly upgrading their equipment to make their practices more attractive to potential buyers.

How important is the IDS for American companies with regard to sales, as well as a being a showcase for innovation?

Based on demand for exhibition space, attendee registrations and hotel rooms, IDS 2013 is poised to be one of the best meetings ever in the dental industry. While every edition showcases new technologies, the reality is that

companies and dentists from around the world covet American dental products and equipment for their reliability, versatility and cost. Innovation is important but in general the world wants American products, whether they are new cutting-edge technologies or tried-and-true products used daily by dentists everywhere.

How does the show compare to the big US shows like the Chicago Midwinter Meeting or GNYDM?

The IDS is seven times larger than all the dental meetings in New York, Chicago or any show organised by the American Dental Association. While US meetings tend to be a more traditional model of companies selling to or educating dentists, American companies typically exhibit in Cologne because they are seeking new global partnerships.

The EU has recently announced a revision of its existing medical device regulations, which could also affect manufacturers of dental materials and equipment. Do you think that this will have any impact on your industry?

The DTA is keenly aware of changing European and other international regulations. The impact of these modifications will probably be low. Many US companies export to Europe and have EU specifications. Our organization is helping to bring international accreditation to the industry so that a company's products can be accredited and inspected once and approved for sale in most countries. This is something DTA has taken the lead on.

Thank you very much for the interview. ◀◀

such as the EndoVac (SybronEndo, USA), which delivers apical negative pressure (ANP) irrigation,<sup>30</sup> the plastic rotary F File (Plastic Endo, Lincolnshire, IL),<sup>31,32</sup> the Vibringe (Vibringe BV, The Netherlands),<sup>33</sup> the RinsEndo (Air Techniques Inc., USA),<sup>9</sup> and the Endo-Activator (DENTSPLY Tulsa Dental Specialties, USA). Of all the techniques listed, only the Endo Vac has repeatedly shown to break the apical vapour lock (the column of gas that is formed at the apical 3 mm of the root canal formed by the hydrolysis of organic tissue by sodium hypochlorite), produce a current of irrigant, remove debris and deliver voluminous amounts of irrigant to the apex without the risk of apical extrusion.<sup>15,50</sup>

## Lasers

The integration of lasers is a viable addition to the endodontic armamentarium and has the potential to overcome some of the challenges to successful root canal therapy.<sup>51</sup> Of particular benefit is the ability to avoid vibration pain upon access, even in “hot” teeth that are difficult to anaesthetise, and the three-dimensional ability to remove pulpal tissue, bacteria, smear layers and dentin from canal walls via laser energy and hydrophobic activity. Of particular significance is the ability of laser light to penetrate 1,000 microns into the dentinal tubules.<sup>52</sup> Bacterial infiltration into dentinal tubules has been reported to be 400 microns<sup>53</sup> and chemical rinses have a penetration depth of only 100 microns.<sup>54</sup> This results in the possibility of bacterial entombment and microleakage. The resulting disinfection and reduction of bacteria in the dentinal tubules is significant with respect to providing unparalleled levels of endodontic success.<sup>50</sup>

## Digital Radiography

Digital radiography has significantly reduced treatment time for endodontic procedures with far less exposure compared to conventional film. High-resolution digital images are instantaneously generated and easily manipulated for enhanced diagnostic performance. Digital storage of images is simple, allowing quick transfer and communication.<sup>34,35,50</sup>

## Cone-Beam Computed Tomography (CBCT)

What digital radiography has provided us for imaging in the present, CBCT (cone-beam computed tomography) will carry us into the future. CBCT technology has been around since the 1980s, however, only recently has it become a viable option for the endodontic office.<sup>36</sup> Cone-beam technology uses a cone-shaped beam of radiation to acquire a volume in a single 360-degree rotation, similar to panoramic radiography.<sup>36</sup> It has advantages over conventional medical CT, including increased accuracy, higher resolution, scan-time reduction and dose reduction.<sup>36</sup> Endodontic uses include but are not limited to diagnosis of odontogenic and non-odontogenic cysts, cysts vs. granulomas,<sup>37</sup> location of untreated canals and the diagnosis of certain root fractures. The extent of internal, external and cervical resorption can be accurately mapped and the presurgical evaluation of anatomic landmarks can be precisely surveyed.<sup>36,50</sup>

## Regenerative Endodontics

Regenerative endodontics has become an exciting possibility, allowing stem cells found in the dental pulp to regenerate and replace diseased tissue with healthy tissue and re-

talize a tooth.<sup>38</sup> The vascularisation of necrotic teeth with immature apices can be a significant challenge to the clinician. In the past, apexification procedures have allowed root length to continue, but the walls of the roots remained thin, allowing the high risk and probability of fracture. Revascularization techniques provide such a tooth the ability to not only continue linear root growth, but also to allow increased thickness of dentin on the root canal walls, which will ultimately allow retention of the natural tooth, obviating the need for extraction and implant replacement.<sup>39</sup> The technique is uncomplicated and easy to learn. Through the use of a specialized tri-antibiotic mixture, blood clot induction and its coronal sealing with MTA, many necrotic and immaturely developed teeth that would otherwise be extracted can now be retained.<sup>40,50</sup>

## Endodontics vs. Implants

With the advent of implants, patients were able to maintain their occlusion and health in those functional areas that were missing teeth. Unfortunately implants are also being used to replace viable teeth.<sup>41</sup>

If a tooth is sound from both a restorative and periodontal aspect, then endodontic therapy should be the treatment of choice. However, if a tooth is compromised from a restorative or periodontal perspective, then an implant may be considered.<sup>42</sup> Both root canal therapy and orthograde retreatment as a first and second line of intervention are more cost-effective compared to implant therapy. Current cost structures indicate that implants are limited to a third line of intervention.<sup>43</sup>

Confidence and embracing the advances in the science and art of endodontics is imperative if we are to continue to achieve and improve the successes that we have achieved. There are numerous studies that support the excellent clinical results of endodontic treatment.<sup>44</sup> Kim and Iqbal conducted a review of the relative success rates of endodontic treatment and implants. The literature review found equal survival rates of single-tooth implants and endodontically restored teeth. Both therapies had overall survival rates of 94 per cent, thus providing predictable outcomes.<sup>45,46</sup> However, implants have a longer mean and median time to function, and have a higher frequency of postoperative complications requiring additional treatment intervention.<sup>47,50</sup>

## Where We Are Going

Science and research will elevate the specialty of endodontics to its rightful pinnacle.<sup>48</sup> The cornerstone of our specialty's integrity and relevance must be built on a strong foundation of randomized clinical trials and evidenced-based endodontics.<sup>48</sup> The future of endodontics is bright as we continue to develop new techniques and technologies that will allow us to perform endodontic treatment painlessly and predictably, and continue to satisfy one of the main objectives in dentistry, that being to retain the natural dentition.<sup>14,50</sup> ◀◀

A complete list of references is available from the publisher. Dr Gary Glassman maintains a private practice in Toronto, Canada, and is on staff in the graduate department of endodontics at the University of Toronto's Faculty of Dentistry. The author of numerous publications, he is a regular contributor to today's sister publication roots the international magazine of endodontics.



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# “The surveillance of patients is each and every dentist’s duty”

An interview with Prof. Newell Johnson, Australia

Oral cancer poses a continuing challenge for dental practitioners worldwide. *today international* recently had the opportunity to speak with oral cancer expert Prof. Newell Johnson from Griffith University’s School of Dentistry and Oral Health in Southport, Australia, about the disease and new methods of identification and treatment.

**today international:** Oral cancer figures seem to be increasing worldwide, despite awareness campaigns run by dental organisations. Are we in danger of losing the battle against the disease?

**Prof. Newell Johnson:** There is some good news. In countries that have long had the reputation of having very high rates of oral cancer, such as parts of France, India and Sri Lanka, the rates of alcohol and tobacco-related oral cancer are indeed falling.



Prof. Newell Johnson

The same is true of the US, much of Western Europe, and Australia. Here rates are falling from a lower base.

In those countries or populations with traditionally very high rates,

however, hundreds of thousands still die of oral cancer every year. In parts of Eastern Europe and the former Soviet republics, rates of these cancers are rising, we think, because of still high tobacco use, abuse of alcohol and a poor diet.

The other piece of bad news is that the incidence of cancers of the oropharynx (as opposed to the lip and in the mouth itself) is also increasing worldwide.

**HPV has been identified as a growing risk factor for oral cancer. What part does the sexual transmission of the disease compared with more commonly known factors like smoking or drinking?**

Certain types of the human papillomavirus are indeed strongly associated with cancers of the upper aero-

digestive tract, particularly of the tonsils and base of the tongue, rather than in the mouth itself. These are the same viruses that we know cause cancers of the uterine cervix, penis and anus. It is generally thought that sexual transmission is involved. The evidence is largely circumstantial; that is, these cancers are more likely among younger adults, and there are associations with the number of sexual partners. Fortunately—if that is an appropriate word—these cancers are more sensitive to radiotherapy, and the survival rates/treatment outcomes are better than for most other head and neck cancers.

For the past decade, there have been extensive immunisation programmes against these particular papillomaviruses delivered to girls in many countries. These are intended to prevent cancer of the uterine cervix in later life. It will be very interesting to observe, in another 20 years or so, whether this has had an impact on upper aero-digestive tract cancers too. Fortunately, we are beginning to see boys now included in the immunisation programmes in some countries.

**Some forms of oral cancer have a patient survival rate of only 50 per cent. What makes it so difficult to achieve a more successful therapeutic outcome?**

The average survival at five years after diagnosis of oral cancer has hovered around 40 to 50 per cent for decades in most countries. In the high-volume specialised treatment centres, patients are indeed doing better, in terms of long-term survival and quality of life/minimisation of disability and side-effects.

The major reasons that we are not doing even better is because so many cases are diagnosed and treated so late, and/or patients have severe co-morbidities such as diseases of the cardiovascular system or cancers at other sites.

**Dentists can play a vital role in the identification of early signs of oral cancer. Is the profession sufficiently prepared for this role?**

Well, of course one cannot generalise. Many dentists and other members of the oral health team carry out excellent surveillance of each patient. This is indeed our duty. It might be called “opportunistic screening”. Many national dental associations, and the FDI World Dental Federation, vigorously promote such behaviour. There are many excellent training programmes for the detection of patients and lesions at risk. This should go hand in hand with support from dentists for tobacco prevention/cessation, moderation of alcohol consumption, promotion of healthy diets and good hygiene (oral and sexual) for all their clients.

On the other hand, the prevalence of potentially malignant disorders, and certainly of overt oral cancer, is low in many countries, so maintaining a high level of awareness and interest among general practitioners is diffi-

cult. Some are discouraged because cancer screening may not be a remunerable activity.

In South Asia, and emigrant communities therefrom, potentially malignant oral disorders are common, and we have much activity with the professions and the public in these parts of the world. Recently, a study published in the *Cancer Research* journal has proposed a method of treatment by blocking a protein that plays an important part in the spread and return of oral cancer.

**What are your views on this research and what are other promising therapeutic approaches?**

There are very many biochemical/molecular pathways involved in cell division, maturation, migration and metastasis, and death within tissues. Many are targets of investigation and manipulation. Some will prove irrelevant—or at best epiphenomena. Interference with some will also affect normal tissues, especially if they represent exaggeration of pathways that are part of normal cellular controls.

An attraction of this particular work is that it seeks to understand pathways critical to stem cells—those cells that provide the basis for continued cell renewal. At the moment, the observations on this pathway in human cancers have been explored in experimental animals. It is some way from human treatment trials, though there are many human studies of other putative biological treatments for oral and other cancers. In principle, this is the way forward.

**There are a number of oral cancer-screening systems available on the market but their penetration is still very low. Why is this technology not yet part of dental practice?**

For cancers, and for potentially malignant disorders, in the mouth itself, direct visual inspection and palpation, followed by referral or biopsy, is the best approach. Adjunctive screening tests have not been demonstrated to have utility beyond this and commercialisation can be counterproductive.

**You have already mentioned genetics. What role will it play in the evaluation of oral cancer in the future?**

Well cancer is, of course, a genetic disease. There is a small component of inherited genetic susceptibility, but nothing as important as with breast cancer, for example. There is a large component of acquired genetic abnormality, which is being gradually unravelled. So genetic testing is of increasing importance, perhaps for susceptibility, more so for early changes in the tissue during carcinogenesis, the latter perhaps detectable in saliva or blood too.

However, every cancer is a unique biological event in a unique individual. Detecting the spectrum of genetic abnormalities in the individual patient, and targeting these with particular designer drugs, or gene therapy or immunotherapy is exciting: we are in the era of personalised medicine. Extensive surgery, radiotherapy and chemotherapy have not brought the improved outcomes we so desperately need. For the afflicted, the future will be individualised biotherapies. For the world, the future must be primary prevention.

**Thank you very much for this interview. ◀◀**

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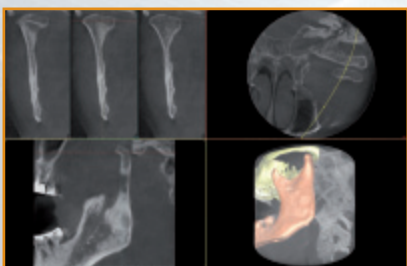
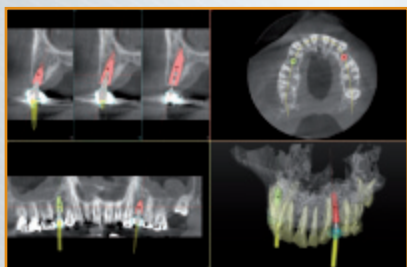
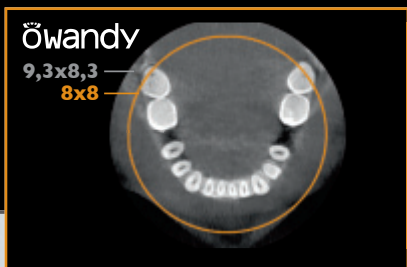
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# NSK aims for global leadership

A visit to the company's headquarters in Tokyo



• Eiichi Nakanishi, right, in talks with DTI Publisher and CEO Torsten R. Oemus.

It is no secret that the years since the global financial crisis have not been very kind to companies in Japan. First, the recession slowed business investments significantly down, then the negative effects of last year's tsunami and the massive destruction it wrought almost brought the world's third largest economy to a halt.

For NSK, one of the country's largest dental manufacturers, troubles in the home market are its least concern because the company conducts most of its business elsewhere. According to president and CEO Eiichi Nakanishi, with whom Dental Tribune International recently had the opportunity to speak at the company's headquarters in Tochigi, more than 80 per cent of the company's revenues are now generated by its operations outside of Japan. In the last three years, NSK has been performing particularly well in mature markets such as Europe and North America, where it boosted its presence with the opening of its new headquarters near Chicago last year, despite unfavourable conditions such as high market saturation and the ongoing decline of the yen against the dollar.

Since 2009, Nakanishi has also seen his company regaining its former market shares in Asia through centralised distribution and after-sales support offered by its new subsidiary in Singapore. Another significant contributor has been NSK's European office in Germany, which accounted for almost one third of the 22.2 billion Yen (\$278 million) in sales the company reported in 2011. "That is why economic conditions in our home market have little or no impact on our overall business. We really think globally," Nakanishi explains.

According to the 48-year-old, who has run the company since 2000, one of the major reasons for NSK's strong market position, even in established markets, is its dedication to innovation and quality, combined with the excellent after-sales service it is able to provide to customers in almost every country except North Korea. But this hasn't always been the case. Founded in the 1930s, the company had a rough start and operations were completely halted during World War II. Since the production of dental handpieces resumed in 1951, however, the company has grown exten-

sively and now employs more than 700 people in its Japanese offices in Tochigi and Tokyo.

NSK still produces most of the precision parts in-house, which, according to Nakanishi, is one of the reasons that dentists now identify the company with high-quality products. "We employ many good engineers and marketing people who help us to constantly improve our brand and make it more attractive to dentists," he says. One of NSK's recent innovations, launched at last year's IDS in Cologne, for example, is the Ti-Max Z series, a durable premium handpiece that is claimed to have the smallest heads and necks in the industry, as well as an exceptionally low noise level and virtually no vibration. The Surgic Pro surgical micromotor has also received much interest, particularly by dental implant surgeons, and is now distributed alongside systems by major implant manufacturers.



• NSK still manufactures most of the precision parts in-house.

NSK asserts it pays close attention to the needs of its customers, a philosophy that has resulted in products such as the S-max pico, which was developed solely for the treatment of patients with smaller mouths, such as children.

Moving into other markets is conceivable but unlikely to happen anytime soon, Nakanishi says. Even though his company has begun to enter new areas in the last decade with the launch of instruments such as ultrasonic scalers and polishers, its core business will remain dental handpieces and other small-motor equipment. "When it comes to handpieces, we have produced more innovations than our competitors," he remarks. "Our goal is to become the No. 1 company worldwide in this segment." ◀◀

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## BRUXZIR SOLID ZIRCONIA MEETS AN ANTERIOR AESTHETIC CHALLENGE



Fig. 1

As the R&D department of Glidewell Laboratories refines its processes, as well as improving the material's translucency, aesthetics continue to improve. Advancements to improve the aesthetic properties of BruxZir Solid Zirconia restorations were recently achieved as demonstrated in this case by Dr Michael C. DiTolla, Newport Beach, Calif., USA.

While Glidewell does not suggest that dentists suddenly switch all of their anterior restorations to BruxZir crowns, they may want to consider using it for patients with parafunctional habits or old PFMs, where an aesthetic improvement is essentially guaranteed, the company said.

During the first appointment, the PFM crowns on tooth #8 and #9 (Fig. 1) were removed with BruxZir Solid Zirconia crowns (Glidewell Laboratories). Then the shade was taken with help of the VITA Easyshade Compact which displayed the shade in both VITA Classical and VITA 3D-Master shades. Next, the selected 2M1 3D-Master shade tab was held to the tooth, along with the 1M1 3D-Master shade tab for contrast.



Fig. 2

The shade tabs in the mouth were photographed. PFG gel was placed into the sulcus of tooth #8 and #9 with an Ultradent syringe. Next, they were



Fig. 4a: Before.

anaesthetised with an STA Single Tooth Anesthesia System device. The Razor Carbide bur easily cuts through porcelain and metal substructures, and when used in combination with an KaVo ELECTROtorque handpiece, it easily cuts through the existing PFM. The crown was torqued with a Christensen Crown Remover.

After using a periodontal probe to ensure there is enough biologic

width to safely remove some tissue (Fig. 2), a NV MicroLaser was used to remove 1.5 mm of tissue. With the margins exposed, a 856-025 bur and

KaVo ELECTROtorque handpiece was used to drop the margins to the new gingival level.

The dental assistant relined Bio-Temps Provisionals (Glidewell Laboratories) on tooth #8 and #9 with Luxatemp provisional material. Using a thin, perforated diamond disc, the gingival embrasures were opened to avoid blunting the interproximal papilla, as well as to make sure



Fig. 3

the gingival margins were not over-extended and the emergence profile was flat. TempBond Clear was used to cement the BioTemps, and loupes

were used to inspect around the temps and gingival embrasures for excess cement.

After two weeks, the temps were removed and the preps cleaned with a KaVo SONICflex scaler. After trimming the gingival margin with the diode laser, an Ultrapak cord #00 (Ultradent) was placed, cutting the cord intraorally on the lingual to avoid any overlap. A second cord

(Ultrapak cord #2E) was placed before refining the preparation.

As the top #2E cord on tooth #8 was packed, the top cord on tooth #9 exposed the margin (Fig. 3). Now finishing the preps begun using a fine grit 856-025 bur.

Two moistened ROEKO Comprecap Anatomic compression caps were placed on the preps. Then the patient bit with medium pressure for 8-10 minutes. The Comprecaps were removed and the top cords pulled. For the impression, medium body impression material was applied around the preparations with a syringe and a bite registration was taken. Then the temporaries were replaced.

During the third and final appointment—another two weeks later—the temps were off, the BruxZir crowns were approved and a layer of desensitizer was placed on the teeth (G5 All-Purpose Desensitizer). A warm Air Tooth Dryer was used after applying both coats of the G5, while the assistant placed Z-PRIME Plus inside the crowns. The crowns were then loaded with a resin-modified glass ionomer cement (RelyX Luting Plus Automix) and seated, using a pinewood stick to ensure that they were fully seated and had the same length. In the “after” picture (Fig. 4b), there is not any porcelain on the BruxZir crowns.

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## A 'SAFE AND SIMPLE' IMPLANT SYSTEM

Unscrewing and bacterial infiltration are known to be some of the major factors leading to implant failure.

The S1 implant system manufactured and distributed by the Italian company Safe&Simple is supposed to eliminate the risks of breaking implants and bacterial infiltration by a perfectly sealed and stable abutment-fixture connection.

A modular design, enabling the clinician to customise the prosthesis and adjust it to all needs through the use of standardised components, makes the system also extremely versatile and price-competitive to other implant systems that are currently available on the market, the company said.

According to Safe&Simple, its S1 system is based on 15 years of research conducted in collaboration with the universities in Modena and Reggio Emilia and was designed on the premise to make dental im-



plantology “a streamlined, innovative and non-invasive practice with definite results”.

The implants are currently available in three diameters and in three lengths.

They are indicated for immediate loading procedures, two-stage implant surgery as well as for partial and total edentulism.

The system also comes with a surgical guide, called Fly one, that uses a stereolithographic model attached to the articulator.

Based in Pieve di Soligo in Northern Italy, Safe&Simple also offers regular and customised training courses held in partnership with renowned Italian dental schools and universities. Their implants will be on display during IDS in hall 10.2.

**SAFE&SIMPLE, ITALY**  
www.safeandsimple.net  
Hall 10.2 Booth L065



VISIT US AT IDS- HALL 4.2, STAND M78/N79

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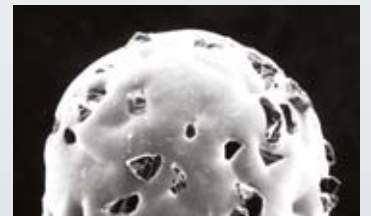
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### New Diamond Bur Tip

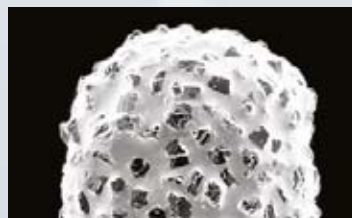


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**EASY IMPLANTATION WITH EASYFOR**

Based on a treatment method developed by implant specialist Dr Bruno Forengo from Italy over twenty years ago, the EasyFor implant system will be on display to visitors at IDS at booth K060 in hall 11.3.



Available in five different diameters and 10 lengths, the titanium-based implants of the EasyFor system boast a dual acidification sand-blasted surface that enhances long-term stability of hard and soft tissue for a beautiful, long-lasting smile.

The system allows immediate loading as well as minimally invasive implant surgery through a surgical

guide. It also features a conical connection that allows platform switching. This is supposed to provide an antibacterial seal and prevent the occurrence of implant-abutment micro-motion.

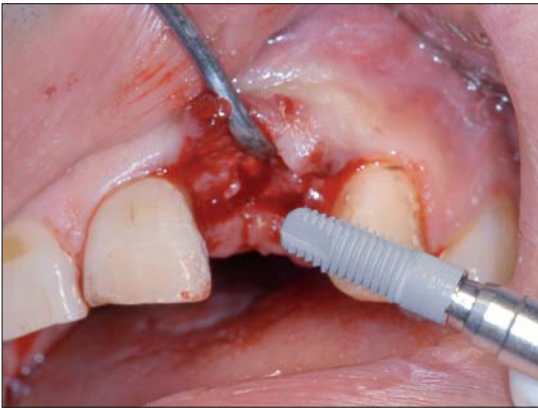
According to the company, the system was developed with a biological and biomechanical approach in mind and is based on year-long ex-

perience from specialists in the industry.

Available by the company with the same name since 2010, it aims to provide clinicians with cutting-edge products that are safe, reliable and easy to use in prosthetic implant rehabilitation procedures.

EasyFor says to offer full support to different customer needs as well as a number of training programmes that include Enterprise Content Management (ECM)—Basic & Advanced—for medical doctors and staff.

**EASYFOR, ITALY**  
[www.easyfor.it](http://www.easyfor.it)  
**Hall 11.3 Booth K060**



• Fig. 1



• Fig. 2

**ITALY'S ANSWER TO LOW COST DIODE LASERS**

Low cost diode lasers have increasingly found their way into dental practices thanks to their versatility and easy handling. The Italian medical and dental products manufacturer Dental Medical Technologies (DMT) is now adding another sophisticated device to the market with its new all-purpose diode laser Giotto.

Named after the 12<sup>th</sup> century Italian painter Giotto di Bondone, the laser can be used for a wide range of dental procedures, according to the Milan-based company. Boasting an effective power of 7 watts, it combines reliability with high clinical efficacy, they said. Safety has also been improved through an interactive software with touch-screen func-

tionality that guides the clinician and provides educational videos for up to 50 procedures that have been developed in cooperation with leading clinicians and institutions in the field of laser dentistry.

The company said it will offer the device for a net price of €3,900. The Giotto diode laser comes with a bleaching kit suitable for 12 applications, among other equipment. Visitors of IDS will be able to get hands on the company's complete portfolio including DMT's dual wavelength lasers Raffaello and Leonardo at its booth F058 in hall 10.1.

**DMT, ITALY**  
[www.dmt.biz](http://www.dmt.biz)  
**Hall 10.1 Booth F058**

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IDS 2013, Hall 4.1 Stand D018  
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Hall 4.1 Stand D030



Hall 4.2 Stand J018

**LAB QUALITY TOOLS NOW AVAILABLE FOR DENTISTS**

Processing using zirconium oxide has evolved from being a niche concept to one of the most common techniques to have ever been developed for dentistry. Probably more than ever, clinicians now need to have the right tools for preventing the formation of surface micro-cracks and for achieving the best results for their patients.

labs for years. At IDS 2013, this line is now also becoming available for dental practice in order to provide dental clinicians with a safe option to perform necessary adjustments professionally.



With this world premiere each stage of treatment can now be polished, according to the company, which makes these tools an alternative in addition to the familiar high quality achieved in the dental laboratory.

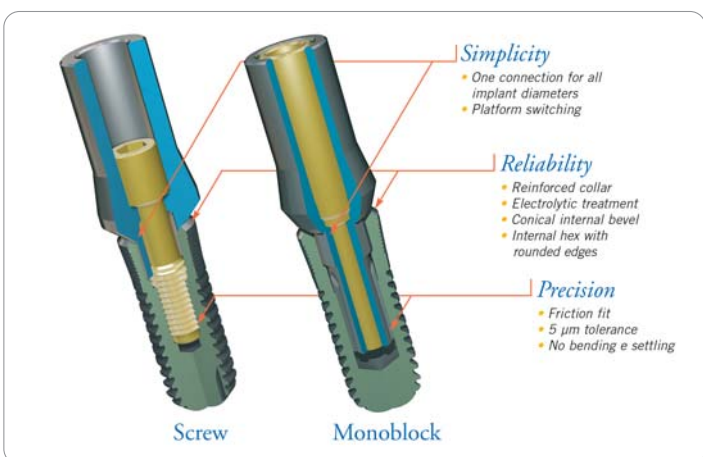
The polishing of lithium silicate ceramics also come with particular challenges as their unique design and micro-morphological structure require specially adapted material compositions.

An optimised heat flow is also supposed to prevent both local phase transitions, a cause for a non-uniform surface and material failure, the company said.

With DIACERA, EVE Ernst Vetter already introduced a specialised polishing system based on zirconium oxide and specifically developed for these challenges at IDS 2007. The system has been providing outstanding quality and safety required by dental

**EVE ERNST VETTER, GERMANY**  
www.eve-rotary.com  
Hall 10.1 Booth F043

**AN "ALL-IN-ONE" IMPLANT SOLUTION**

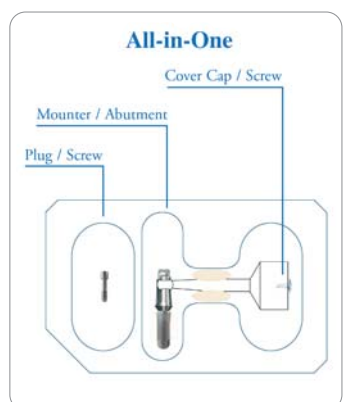


The Easy Grip line from T.F.I. System was designed for the purpose of providing dental professionals with everything that is needed for a standard clinical implant solution, according to the Swiss-Italian dental implant manufacturer.

the implant at 90° for easy insertion even when operational space is limited, a surgical and connecting screw, as well as a mounter that can be used as an abutment or as a screw.

All threaded implants of its Easy Grip line come in an "all-in-one" kit containing an implant, which is mounted over the original transfer system that engages the head of

According to T.F.I., its Easy Grip implants are receiving state-of-the-art surface treatment for high osseointegration that includes sandblasting, etching and plasma glow discharging. Quality controls on the implants and its individual components are performed during every step of the production process, the company said. Infection control requirements are also being met by the kit's package using a double blister.



The company, which is based in Rome, says that simplification of the surgical protocol, functionality and technical innovation are the cornerstones of its business. T.F.I. has been developing implants since 1994.

**T.F.I. SYSTEM, ITALY**  
www.tfisystem.it  
Hall 3.2 Booth D068

**CRANEX NOVUS E**

The next generation of CRANEX Novus e provides excellent image quality with extended imaging values as well as enhanced operation with the ClearTouch control panel. According to the manufacturer SOREDEX, a part of the Finish PaloDEX Group, the system was designed for fast operation at maximum efficiency as well as an easy workflow.



With a 9-second adult panoramic exposure time, the exposure of patients has been minimised and the potential for movement artifacts has

been reduced, the company said. In addition, the renowned SOREDEX 5-point patient stabilisation system guarantees accurate and stable patient positioning.

Operating worldwide, SOREDEX says to offer quality imaging systems of true diagnostic value, which are based on an in-depth understanding of daily practice.

**SOREDEX PALODEX GROUP, FINLAND**  
www.soredex.com  
Hall 11.2 Booth N050

**SUNI'S DIGITAL X-RAY SENSORS**

At its ISO-certified facility in San Jose, CA, in the US, Suni Medical imaging manufactures two lines of digital X-ray sensors, the flagship SuniRay sensor and the Dr Suni Plus sensor. This award-winning product line has propelled the company to a leadership position within the digital dental industry.

ies have also shown that SuniRay uses the lowest amount of radiation—as compared to competitive systems—to produce a true, diagnostic quality image.

of digital sensor technology for dental clinical applications, and is best known for designing and manufacturing sensors for many of the early leaders in this field. In 2002, however, the company added its own brand of high quality sensors and intraoral cameras to its product portfolio. Suni says that its corporate culture is built on three basic principles—technological innovation, continuous improvement and an exceptional customer service.

Recent improvements to the Dr SuniPlus have resulted in high ratings in the robustness category making the sensor one of the most durable products available on the market today.

Since its creation in 1995, Suni Medical Imaging has gained a leading position in the digital radiography market, pioneering the development

According to Suni, the Suni-Ray digital X-ray sensor offers high flexibility owing to an integrated USB module and a powerful software package that allows Window-based practitioners to use it with any practice management system. It has rounded corners for increased patient comfort and is available in two sizes for different anatomic requirements. Independent third-party stud-

ies have also shown that SuniRay uses the lowest amount of radiation—as compared to competitive systems—to produce a true, diagnostic quality image.

**SUNI MEDICAL IMAGING, USA**  
www.suni.com  
Hall 4.2 Booth K060

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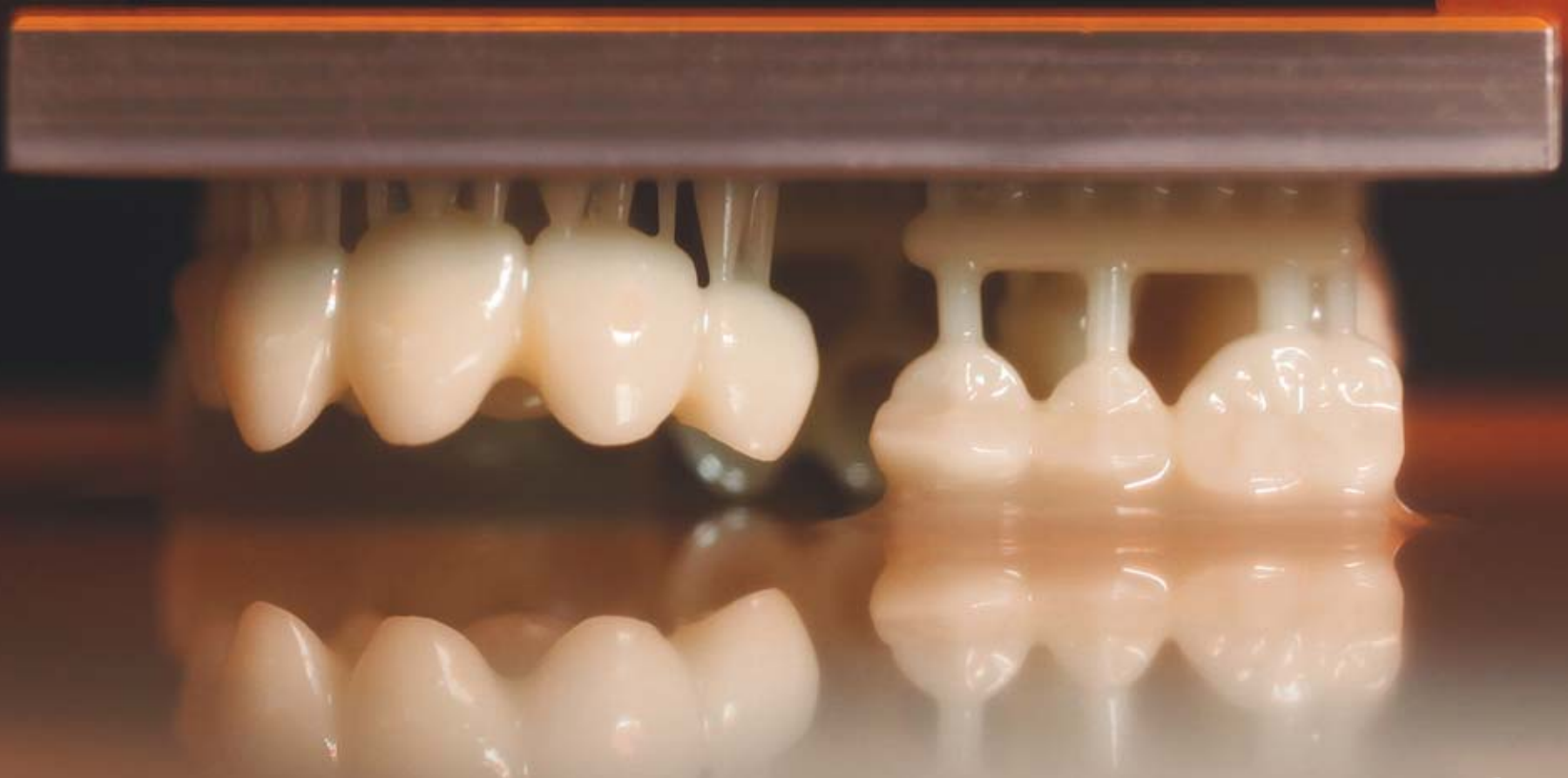
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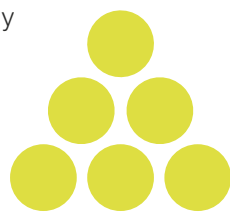
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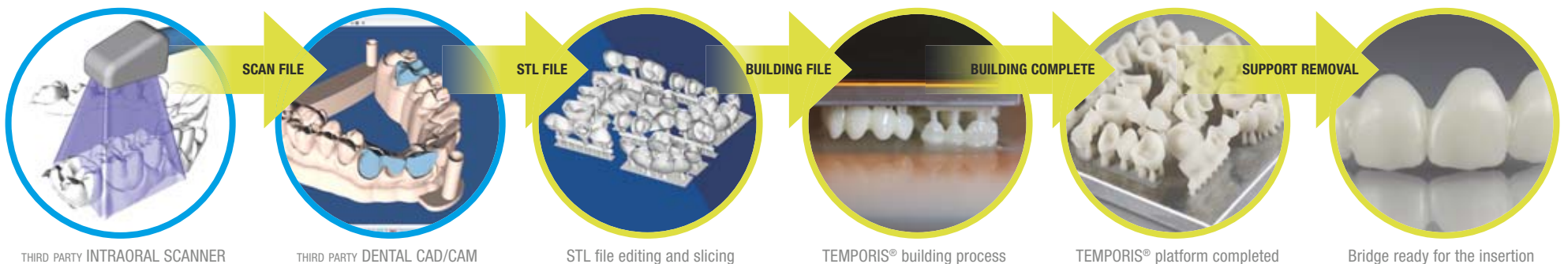


**DWS**

Additive Manufacturing



TEMPORIS® MANUFACTURING CYCLE



## REPORT ON IPS E-MAX SYSTEM STUDIES AVAILABLE FROM IVOCLAR VIVADENT

A scientific report combining more than 20 clinical *in-vivos* as well as *in-vitro* studies on Ivoclar Vivadent's all-ceramic system has been recently launched by the Liechtenstein

dental manufacturer. The report is intended to present—in a clear and structured manner—the most important studies on IPS e.max that have been conducted over the course of the past ten years.

They attest to the successful performance and reliability of the IPS e.max system, according to the company.

Among other things, the report summarises data on the clinical performance that cover longer periods of time: up to five years for zirconium oxide and up to ten years for lithium disilicate. An overall survival rate of 96.8 per cent for the entire system was calculated by combining the survival rates of IPS e.max Press (six studies), IPS e.max CAD (six studies) and IPS e.max ZirCAD (eight

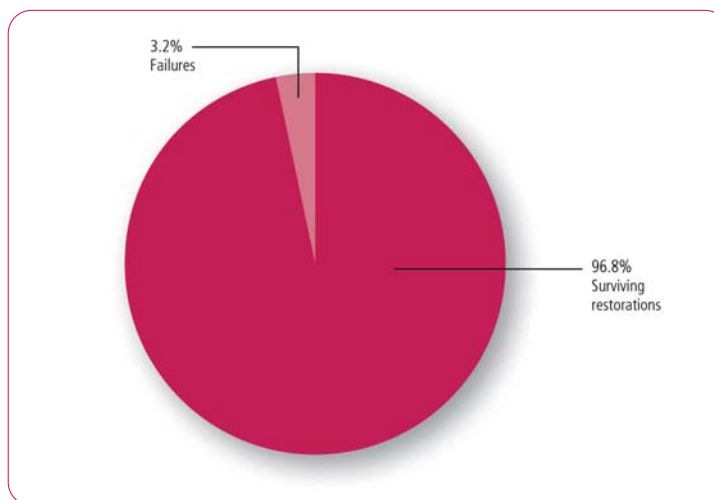


Fig. 2 Success and failure rates of restorations (crowns and bridges) fabricated with the IPS e.max system from Ivoclar (in per cent).

studies).

A total of 1,071 restorations were observed in all 20 studies.

Apart from these findings, the report also provides the results of a number of clinical trials that have focussed on the system's individual components, such as the lithium-

disilicate glass-ceramics IPS e.max Press and IPS e.max CAD, the zirconium oxide-based IPS e.max ZirCAD as well as related products such as IPS e.max ZirPress and IPS e.max Ceram.

According to the report, the survival rates of these materials ranged

between 93.7 and 98.4 per cent.

IPS e.max from Ivoclar Vivadent is a high-performance all-ceramic restorative system comprising lithium-disilicate glass-ceramic and zirconium oxide materials for the press and CAD/CAM technique.

The system is complemented by a universally applicable nano-fluorapatite glass-ceramic which is suitable for veneering all its components. Since development started more than a decade ago, the IPS e.max has also been investigated by researchers on a regular basis. Many reputable experts have contributed to what has become a valuable resource for scientific data on IPS e.max, according to Ivoclar Vivadent.

The IPS e.max Scientific Report Vol. 01/2001-2011 in English is available for downloading at the company's website.

**IVOCLAR VIVADENT AG,  
LIECHTENSTEIN  
[www.ivoclarvivadent.com](http://www.ivoclarvivadent.com)**



Fig. 1 The Scientific Report presents results from studies conducted on IPS e.max and its components over the course of the last 10 years.

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**USERS RANK PICASSO LITE MOST POPULAR  
DIODE LASER IN INDUSTRY REPORT**

AMD LASERS's diode laser Picasso Lite was recently voted the most popular dental laser, as surveyed by diode laser users in the most recent Clinicians Report titled "Are Diode Lasers Worth the Investment?"

In the June 2012 report, Picasso laser technology was evaluated and compared against eight other current diodes in the market. Clinicians Report (CR), an independent, non-profit, dental education and product testing foundation, concluded that "Picasso Lite has a good combination of features, ease of use, low cost, and is a valuable adjunct for soft tissue surgery and hemostasis".

Picasso Lite was awarded an Excellent-Good rating overall with top ratings in several categories, including hand piece and cord, simple controls, and has most affordable disposable tips amongst eight leading brands. According to CR, 73 per cent of clinicians surveyed would recommend a laser and 80 per cent felt it was a good investment.

Picasso laser technology continues to be the game changer it was in 2009 when it was launched. In three short years its popularity has skyrocketed, according to President and Founder of AMD.

"We gave doctors what they asked for, an affordable dental laser for soft tissue that was easy to use and had world class training

support," he said. "Picasso Lite delivered what no other laser could and continues to be the top pick against new lasers that are on the market."



AMD LASERS's diode laser Picasso Lite was launched to dental markets in the year 2010.

He added that "CR is the most highly respected global testing facility for dental products and is the 'go to' report used by the majority of clinicians looking to make educated product purchases."

Based in Tulsa, IN, in the US, AMD LASERS is an internationally recognized market leader in dental laser technology and education. Since 2011, the company belongs to the DENTSPLY International group.

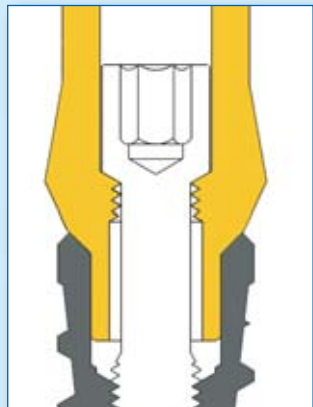
**AMD LASERS, USA**  
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**HALL 11.3 BOOTH E010**

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## JUVORA LAUNCHES NEXT GENERATION OF DENTURE MATERIAL AT IDS

JUVORA, a dental innovations company, has announced that the generation of denture material will be on display at this year's IDS.

tures, the JUVORA Dental Disc uses only the purest biomaterial sourced from the market leading provider of PEEK-OPTIMA biomaterials, Invibio®

metal free properties patients are free from allergy, thermal and electrical conductivity. Additionally due to the absence of metal the patient's taste remains unaffected.



Their JUVORA Dental Disc is the first approved high performance polymer device that allows the CAD/CAM of a removable denture framework from a non-metal.

Biomaterial Solutions (which has more than a decade of experience and proven success in over 4 million implanted devices globally).

By utilizing a high performance polymer, the JUVORA Dental Disc provides a number of distinct material benefits. First of all due to its

The material also offers an elastic modulus similar to bone and a high strength to weight ratio for increased flexibility in both denture design and manufacture. Other benefits include a high resistance to wear, abrasion and corrosion and X-ray transparency (which allows clinical diagnostics and treatment to be made through the denture without the need for screw fix denture removal or replacement).

"The JUVORA Dental Disc offers significant benefits for patients as both the design and material properties of the device enable the manufacture of precise, lightweight and comfortable non-metal removable dentures," said Marcus Jarman-Smith, JUVORA Technology Leader.

Compared to traditional metal casting methods, which are labour intensive with lengthy production



times, the JUVORA Dental Disc is specifically designed to take advantage of CAD/CAM manufacturing and design of removable dentures. By allowing removable dentures to be manufactured utilising digital processes, the JUVORA Dental Disc provides dental labs with a faster production route, reduced labour requirements, improved denture accuracy and reproducibility. Patients, therefore will receive a removable denture that is more comfortable because it has been precisely customised and accurately manufactured.

"For the first time, JUVORA has allowed high performance polymers to enter the automated route," said Joerg Schlegel, JUVORA Sales Leader.

"We understand the changing needs of the dental industry and it is through the use of the JUVORA Dental Disc that dental labs and dentists can take advantage of greater design freedom, flexibility and accuracy," he added.

**JUVORA, UNITED KINGDOM**  
www.juvoradental.com  
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## OPTICAL MEASURING MACHINES BY VICI VISION TO IMPROVE DENTAL IMPLANT PRODUCTION

Implants are high-precision medical devices that require constant quality controls during the manufacturing process. Developed to provide implant manufacturers and other industries with a reliable tool to precisely measure micromechanical components, the Italian company Vici Vision is offering an optical measuring machine that allows operators to use their CNC to an optimum by taking dimensional measurements like diameter, length and angle onsite, right next to the CNC lathe.



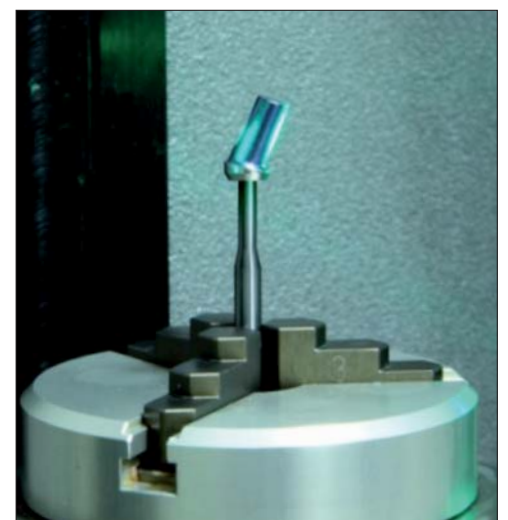
With the MTL X5, external dimensional controls can be carried in a single cycle that only lasts a few seconds, according to the Italian company. The system, which works as an enlarger, is easy to use for any operator and allows to pass from one batch to another with one mouse click. Machine parameters can be set with MTL X5 before values are out of tolerance to prevent discarded items. Furthermore, all data can be collected for statistical controls as well as for producing control certificates that are required to have for quality assurance in different markets.

With the MTL X5 the quality of dental implants can be significantly improved and machine downtimes reduced, which are key advantages in

the current challenging market environment. During IDS, the machine will be on display at Vici's booth in hall 2.2.

The company, based in Santarcangelo di Romagna near Rimini, Italy, has been manufacturing vision systems and industrial automation solutions since the late 1970s.

**VICI VISION, ITALY**  
www.vici.it  
Hall 2.2 Booth C011



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# *Giotto*

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# *Raffaello*

Diode Laser 7 Watt

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# *Leonardo*

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### DENTALEZ EXPANDS CLINICAL OFFERING WITH CANCER DETECTION DEVICE

A sophisticated novel device for the detection of oral pathologies including oral cancer will be on display from DentaleZ at the upcoming IDS in Cologne. According to the US dental group, the Identafi is able to detect biochemical and morphological changes in the cells of the mouth, throat, tongue, and tonsils. The small cordless handheld device uses a three-wave-length optical illumination and visualization system that allows dental professionals to identify oral mucosal abnormalities not visible to the naked eye, they said.



DentaleZ acquired the Identafi technology from biomedical and bio-optics technologies provider Trimira in early 2011. Along with the device, the company is offering a number of continuing education courses, educational seminars, and online resources geared toward



educating dental professionals on the specific use of the Identafi and oral cancer in general.

"We are extremely pleased to provide dental professionals with a device that can help them detect abnormal pathologies, including



oral cancer in its early stages, and possibly save lives," remarked Randy Arner, Vice President of Marketing for DentaleZ Group. "Because the signs and symptoms of oral cancer are often missed by the naked eye, Identafi technology enables dental professionals on the front line of oral cancer detec-

tion do just that—identify changes in the mouth that may be a sign of something more serious."

"This effective and affordable device aids in the early detection of oral cancer, which has reached epidemic levels, due in part to the lack of effective, broad-based early detection programmes," remarked Gordon Hagler, President and COO. "In addition to our full line of dental equipment, handpieces, utility room equipment, and dental lab products, our newest offering enables us to proudly proclaim the evolution toward a more clinical product mix from DentaleZ."

Comprising six product brands, the group manufactures a wide range of dental equipment including hand pieces, dental chairs, vacuum systems and dental simulation models.

**DENTALEZ, USA**  
www.dentalez.com  
Hall 4.2 Booth L079

AD



# SINO-DENTAL 2013

## June 9–12, 2013

China National Convention Centre · Beijing

### Joint Organizers

International Health Exchange and Cooperation Centre,  
Ministry of Health, P. R. China  
Chinese Stomatological Association  
Peking University School of Stomatology

### Supporter

Ministry of Health, P.R. China

Contact us: Ms. Sunny Ms. Carol  
Tel: (86)10-88393922/3917  
E-mail: info@sinodent.com.cn

www.sinodent.com.cn

### DENTAL MATERIALS LAUNCHED BY LASCOD



A reliable partner for dental laboratories and users of products making use of the latest CAD/CAM systems, the Italian company Lascod is going to bring a number of new products and dental materials to this year's International Dental Show. Among them will be Oklurest, a 90 Shore A-silicone for the purpose of orthodontic bite registration. According to the company, the material has a tixotropic, imperceptible consistency for patients with regular occlusion and remains dimensionally stable even during disinfection.

The 70 Shore laboratory A-silicone Xilgum can be used for a fast and detailed reproductions of gum morphology in order to survey cervical limits in prosthesis manufacturing with details definition of 20 µ. Also available to IDS visitors will be the Ergamix A+B laboratory A-silicone with details definition of

40 µ, which comes in the colours brown (for 70 Shore hardness) and blue (for 90 Shore hardness).

Specifically developed for master models, extractable strumps for permanent or temporary prosthesis as well as implants, the type 4 extrahard die stone Singletypo 4 Light Grey is said to improve chromatic contrast with materials used in the manufacturing of prosthesis like waxes, acrylics or aesthetic materials through its new colour soft grey

Originally a manufacturer of dental cements, Lascod manufactures and distributes a wide range of dental materials and instruments for use in different fields of dentistry.

**LASCOD, ITALY**  
www.lascod.it  
Hall 10.1 Booth D068

### IDS SEES NEW INTRAORAL CAMERA FROM ACTEON



Sopro, a division of the French Acteon Group, is presenting its latest development in the field of intraoral imaging exclusively to visitors of this year's International Dental Show. Officially available since June 2012, the new SOPROCARE camera is supposed to complete the company's market-proven range of SOPRO imaging devices that include internationally recognised products such as SOPRO 617, SOPRO 717 first and SOPROLIFE.

According to the company, the new camera uses light induced auto-fluorescence for improved assessment of a patient's oral health and for the early recognition of dental diseases like periodontitis. In PERIO mode, one of three modes, the device

is able to highlight gingival inflammation as well as old and new dental plaque. In addition, enamel-dental caries from stage 1 (ICDAS II) can be detected (CARIO mode) as well as the stability of micro lesions and their progression monitored (DAYLIGHT mode).

Acteon said that the new device is minimal-invasive compared to conventional methods of diagnosis and enhances communication through the fact that results of the clinical assessment can immediately demonstrated to and discussed with the patient.

**ACTEON GROUP, FRANCE**  
www.soprocure.com  
Hall 10.2 Booth M060

# BIOLASE & THE AACHEN DENTAL LASER CENTER (AALZ) A WORLDWIDE PARTNERSHIP FOR CLINICAL LASER EDUCATION, TRAINING AND RESEARCH



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(Actual Size)

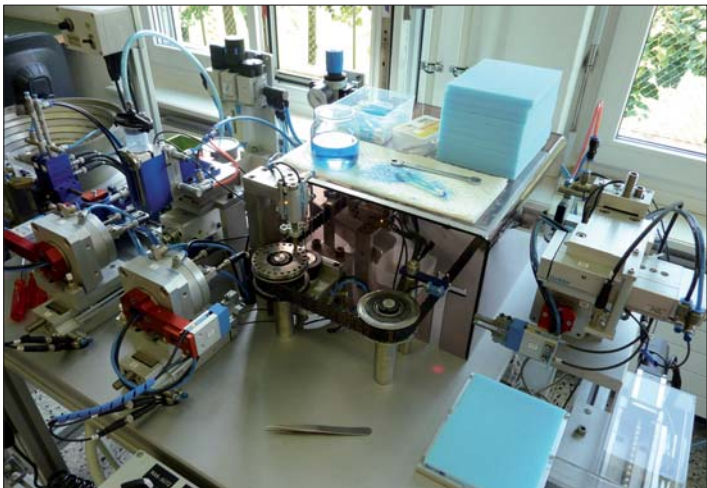
No foot pedal, power cord  
or external controls.

Visit us at BIOLASE Stand in Hall 4.2 N060

**Vertriebspartner in Deutschland**

*NMT München GmbH - sanfte Zahnheilkunde*  
[www.biolase-germany.de](http://www.biolase-germany.de)

**SWISS DENTAL DIAMONDS BY VANETTI SA**



In recent year, the Swiss dental manufacturer Vanetti has increasingly expanded its reach into international dental markets. Originally sold primarily in Switzerland and Italy, its Dia Tessin branded surgical instruments are now available to dentists and dental surgeons in almost 50 markets in Europe, North and South America, the Middle East and Asia.

Vanetti promotes its products actively through its participation at international trade fairs, such as the upcoming International Dental Show in Cologne, as well as through other marketing efforts. Based in Gordevio in the heart of the Maggia Valley, the company has been run by members of the Vanetti family since the late 1960s. In the mid 1990s, the company was transformed into a limited company by the current CEO and son of the company founder Pablo Vanetti.

According to the company, its success is based not only on the production and distribution of high-quality products but also on short delivery times and excellent customer services.

In order to achieve this, the company said to have pushed automation and rationalisation of its manufacturing processes to a maximum despite its small staff of eight in the company's headquarter, who make sure that products do not only have the quality that customers demand but also offer competitive prices.

More information about the company and its products are available on its website as well as its booth in hall 3.2 at IDS.

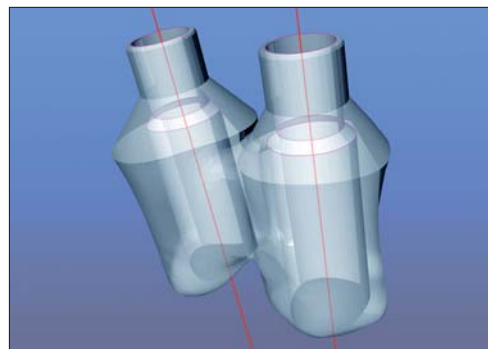
**VANETTI SA, ITALY**  
[www.vanetti.ch](http://www.vanetti.ch)  
**Hall 3.2 Booth D081**

**DENTAL CAM SOFTWARE ON DISPLAY BY CIMSYSTEM**

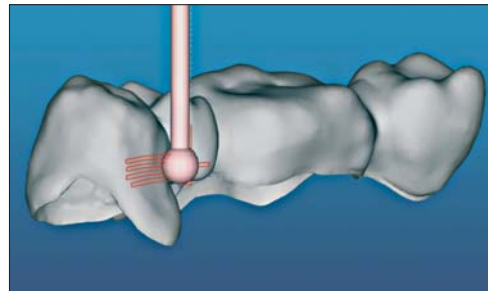
Ease of use and specific functions are the ingredients that make CIMsystem's SUM3D Dental a high productivity CAM application for the dental field. Dental labs, who are looking for the best technological solutions to improve efficiency and quality of production process, can take advantage of the huge CAM experience of CIMsystem to guarantee the production of precise items, in line with the end user's dentists' best expectations.

The first step of the process involves the acquisition of the geometries: whether it is a dental, intraoral or implant impression, the file is imported into SUM3D Dental which can acquire the geometry defined by .stl standard, as well as those coming from other formats, obtained from 3-D scanning or processed by a dental CAD. This flexibility allows to work with various clients without being tied to specific format standards. The definition of the best CAM work cycle is fully guided by SUM3D Dental, which recognizes automatically the item and, depending on the type and shape of the component to be implemented, predisposes the machining, by nesting the pieces on the blank to work accordingly to the path specifications and parameters chosen by the operator.

The accuracy of the machining is entrusted to the potential of the milling centre and to the support of software functions that, according to the type of material and the required characteristics of finish, make it possible to automatically identify the machining type



Automatic detection of holes and their angles.



Milling of undercuts with a lollipop tool on 3 and 4 axis machines.

and parameters. Thanks to the functionality of SUM3D Dental, it is possible to automate and simplify the operations even when working with high resistance materials. Whether it is titanium, cobalt-chrome, zirconia or lithium disilicate, it is possible to easily define the most suitable parameters for each CAM machining, taking into account the physical behaviour and withdrawal due to the material, thus ensuring a high degree of precision and surface quality finish of the final product.

The automations offered by the system facilitate the setting up of machining without the need of specific operator's experience, even if the flexibility of the software allows a skilled user to implement personalized choices based

on the criteria established by experience or by particular circumstances.

The operational simplicity meets the needs of an industry which is unused to a complex computer technology: with SUM3D Dental the operator can split the work and benefit from the strategies suggested from time to time by the software. It is also possible to store, in special libraries, custom procedures together with machine tools and machining parameters' customizations.

The dental world is characterized by procedures that are treated subjectively and the automation of SUM3D Dental meets the need to standardize these procedures with respect to the specificities of manufacturing, with the possibility for the operators to use their experience to intervene in a personalized way and with maximum flexibility when needed. The immediacy of the software and its ease of use allow the operator to reduce the learning curve and quickly achieve the highest levels of productivity.

CIMsystem's technical assistance provides a working relationship that not only solves current issues but also nourishes, through requests and suggestions, the continuous innovation that makes SUM3D Dental constantly updated with respect to the machines' technological evolution and the market needs.

**CIMSYSTEM, ITALY**  
[www.cimsystem.com](http://www.cimsystem.com)  
**Hall 3.2 Booth G069**

**ENLIGHTEN TO (R)EVOLUTIONISE TEETH WHITENING**



Recently conducted surveys in the US and the UK suggest that an increasing number of people are considering to have their teeth whitened by a dentist. With its evolution 3 system, the UK company Enlighten claims to offer the only teeth whitening system to guarantee VITA shade B1 irrespective of the starting shade.

Available both as Home and Office kit, the gel has the lowest concentration on the market and fully complies with the new EU legislation (6% Hydrogen Peroxide), according to the company. Enlighten also says that with its system, no lights, gingival protection or dehydration whitening is required.

The system comprises impression materials, as well as home and office whitening gels, desensitisers, tooth serum whitening toothpaste and locked seal lab for three patients.

Every kit also comes with a free tooth serum paste. For the purpose of practice branding, a number of materials for evolution marketing are available upon request.

Among other publications, the system has been featured by the Daily Mail, OK, Glamour and Heat magazine. The company, which is based in London, is now also looking for prospects to distribute the system internationally. Applicants are invited to visit their booth in hall 11.3 during IDS, Enlighten said.

Besides its line of whitening solutions, the London company also manufactures advanced oral care products including toothpaste and desensitisers.

**ENLIGHTEN SMILES, UK**  
[www.enlightensmiles.com](http://www.enlightensmiles.com)  
**Hall 11.3 Booth B080**



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### SULZER MIXPAC TO ATTEND AT IDS FOR THE FIRST TIME

An event as large as the IDS gives exhibitors the opportunity to present their latest innovations. It also brings a large number of manufacturers and users together for a few days which makes it an ideal forum not only for exchanging useful tips with others but also discussing burning issues such as counterfeiting in dental manufacturing.



One of the topics Sulzer Mixpac will be addressing at its booth in hall 3.2 is the hazards copies of original products can pose to unknowing users. On top of the financial damage that copying and product piracy can cause, it can also be potentially dangerous to both purchasers of forged dental products and patients, the Swiss manufacturer of multi-component systems for mixing, metering and dispensing said. Sulzer added that in the same way that banknotes need to be clearly marked, it is

vital to have a clear indication which products are originals.

Sulzer's Mixpac mixing tips are two-component static mixing solutions for dental applications having characteristic shapes and colours which are brands of Sulzer. They are exclusively produced in the company's automated factory in Haag, Switzerland, and can be identified by the Mixpac label stamped at the top bevelled edge of the tip. According to the company, the mixing tips are still

copied in such a convincing way that makes it impossible to clearly identify originals solely on the basis of the shape or the colour of the mixing tips. Therefore, it is important to know how to distinguish the originals from the copies, it stated.

Just recently, Sulzer filed a lawsuit in the US District Court for the Southern District of New York against dental materials manufacturer Spident USA and its Korean supplier, as well as International Safety Products DBA iDental in the US for having violated its trademark and patent rights at the 2012 Greater New York Dental Meeting.

Sulzer Mixpac is attending the International Dental Show for the first time this year. Visitors are invited to visit its booth in hall 3.2 and pick up a free Sulzer Mixpac stress ball.

**SULZER MIXPAC, SWITZERLAND**  
www.sulzer.com  
Hall 3.2, Booth G068

### INTRA-ORAL WELDING TO IMPROVE IMPLANT SURGERY OUTCOMES

Recent studies have demonstrated that it is possible to successfully rehabilitate the edentulous atrophic maxilla with a fixed, definitive restoration supported by an intra-orally welded titanium framework that is attached to axial and tilted implants on the same of implant surgery. The relatively new concept is based on fusion, also called "Syn-crystallization", a process characterised by the union of two metallic surfaces through the sharing of atoms forming a crystal lattice in the welding spot.



According to International Implant Company, the Verona company behind the concept, this rigid fixation reduces the mechanical stress exerted on each implant and prevents the risk of micromovements in relation to surrounding bone which has a significant impact on the peri-implant tissue response during immediate implant loading.

Owing to this immobility of the implant, treatment time for immediate temporisation at stage one surgery and costs can be reduced while resistance and durability of the prosthetic frame work can be improved, the company said.

The fusion is achieved through the use of the I.O.W. device which

applies mechanical pressure and an electrical current simultaneous up to the core fusion. Visual and acoustic signals are indicating when the welding process is performed and concluded.

The device offers a user-friendly LCD-TFT touchscreen display and customisable settings for the welding power. The fusion clamp is autoclavable.

**INTERNATIONAL IMPLANT COMPANY, ITALY**

**A.B. DENTAL DEVICES LTD.**  
www.intraoralwelding.com  
Hall 4.1 Booth C090

AD

# VICIVISION

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#### Geometric measurements:

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#### Nut measurements:

- Keys
- Asymmetries
- Angular timing between faces

#### Shape and rotation measurements:

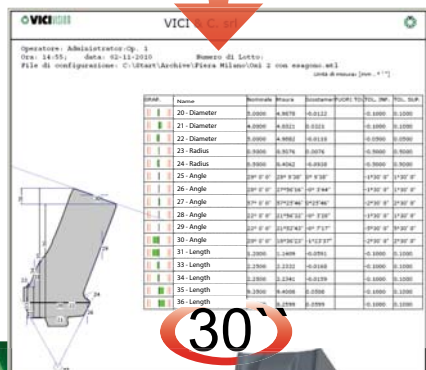
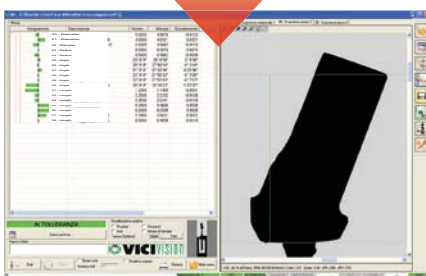
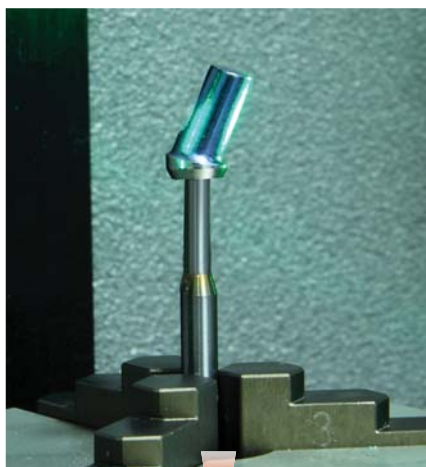
- Rotation diameters
- Angular timing between cams, holes and keys
- Circularity
- Coaxiality
- Run-out
- Cylindricity

#### Static measurements:

- Diameters
- Lengths
- Angles
- Radius
- Distances and angles between points and straight lines
- Average sphere diameter

#### Thread measurements:

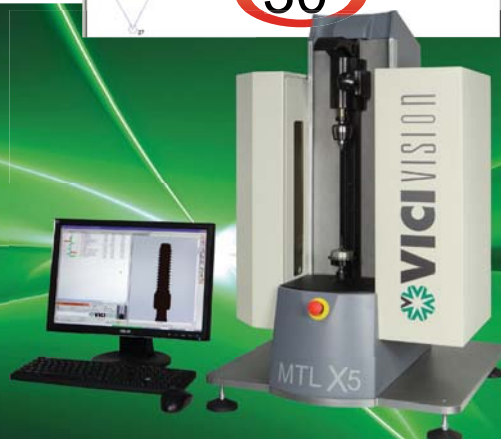
- Diameter: nominal, minor, pitch
- Crest angles
- Pitch
- Roller quota
- Thread length



**IDS**  
2013

Hall 02.2  
Booth C011

www.vici.it



### US COMPANY BEUTLICH PITCHES AT IDS



Since HurriCaine was introduced into the medical and dental markets over 40 years ago, dentists and medical professionals around the world have built better practices by easing their patients' pain, according to the manufacturer Beutlich Pharmaceuticals. The company also states that its topical anaesthetic containing 20% Benzocaine was the first of its kind, and remains the highest quality choice in the dental and medical marketplaces.

Beutlich's latest addition to its top product line is HurriCaine ONE, a non-aerosol unit dose topical anaesthetic spray that is said to virtually eliminate adverse events resulting from preventable medication errors.

The company now offers additional premium products that are

supposed to address challenges in oral and medical health care, such as the HurriSeal dentin desensitizer, HurriView and HurriView II plaque disclosing Snap-n-Go Swabs, Beutlich pH paper, HurriPAK periodontal anaesthetic starter kit, as well as CEO-TWO laxative suppositories and Peridin-C vitamin supplements.

Beutlich Pharmaceuticals has launched a high number of effective dental and medical products for pain management and preventative care since 1954. The products of the family-owned business are distributed in North American markets and around the globe. They will be also on display at this year's International Dental Show in Cologne.

**BEUTLICH, USA**  
www.beutlich.com  
Hall 4.2 Booth L076



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**IDS** Hall 11.2  
**2013** Stand R58



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Dr. Jose Navarro



Dr. Phillippe Russe



Dr. Stavros Pelekanos



Dr. Marius Steigmann

## Session 1

Heidelberg, Germany - May 2-5

## Session 2

Como, Italy - July 4-7

## Session 3

Maspalomas, Canary Islands - November 6-10

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# Useful information and travel tips

## Organisers

Gesellschaft zur Förderung der Dental-Industrie, the commercial enterprise of the Association of German Dental Manufacturers (VDDI)

## Koelnmesse

### Exhibition opening hours

► Daily from 9:00 to 18:00

### Admission online

- 1-day ticket: €13.00
- 2-day ticket: €17.00
- Season ticket: €21.00
- 1-day ticket for students/special ticket for children accompanied by adults: €7.50

### Admission on site

- 1-day ticket: €16.00
- 2-day ticket: €20.50
- Season ticket: €26.00
- 1-day ticket for students/special ticket for children accompanied by adults: €8.50

## IDS app

With an offline search, interactive hall plan, personal checklist and other interesting information regarding IDS 2013, the IDS app allows visitors to plan their trip at any time and from anywhere, according to Koelnmesse. Other services include a product database, information about the fairground, as well as integrated access to Business Matchmaking 365, a service that aims to bring visitors and exhibitors together even before the show. The app is free and can be downloaded from the iTunes Store and Google Play.

## Press and media

Free copies of the *today international* daily show newspaper will be distributed on site and provide visitors with the latest from IDS 2013, new products and things to do in Cologne. Daily news updates, photographs and videos in English will also be available online at [www.dental-tribune.com](http://www.dental-tribune.com).



## Passport and Visa

Owing to the Schengen regulations, nationals from a country of the European Union do not require a visa to enter the Federal Republic of Germany. All other foreigners require a visa for stays in the country. A visa is not required for semi-annual visits of up to 90 days for nationals of those countries for which the European Union has abolished the visa requirement. A current list is available on the website of the Federal Foreign Office at [www.auswaertiges-amt.de/EN](http://www.auswaertiges-amt.de/EN).

## How to get to Cologne

Cologne/Bonn airport is served by most European and international airlines. With more than ten million passengers per year, it currently ranks number six in a nationwide comparison of passenger statistics. As official airline of IDS 2013, Lufthansa is offering visitors reduced rates for flights from over 250 cities in around 100 countries to the airports in Cologne, Düsseldorf and Frankfurt/Main between 5 and 23 March 2013. In order to make use of the discount, users must visit [www.lufthansa.com/meetingsandevents](http://www.lufthansa.com/meetingsandevents) and enter the code "DEZZYL".

Visitors planning to travel by train can take advantage of the discounted fares offered by Deutsche Bahn ([www.bahn.com/i/view/](http://www.bahn.com/i/view/)).

## Airport transfer

Reaching Cologne by taxi (stand located at Terminal 2) costs between €25 and 30. A less-expensive alternative is the urban train (S-Bahn), which departs regularly from the Intercity-Express railway station in Terminal 1. With their IDS ticket, exhibitors and visitors can use buses, trams and urban trains on the local public transportation network of the Rhine-Sieg Transport Authority (VRS), including



Cologne © Tupungato

low compared with other European countries and limited to larger department stores, hotels, restaurants and petrol stations. Maestro cards, however, are accepted almost everywhere, with a few exceptions, like newspaper stands, bakeries and fast-food restaurants, which only accept cash. Banks are open from 8.30 to 16.30 on weekdays.

## Medical insurance

Although the German health-care system has declined slightly recently, the country still has a high standard of medical care. Emergency treatment, however, can be costly and therefore travel health insurance, which is of-

ferred by most insurance companies, is highly recommended.

## Weather

While average temperatures in Cologne range from 11 to 2°C (51-35°F), the weather in March can be very unpredictable. As spring starts on 20 March this year, warm clothes and rain gear are necessary when visiting the city.

## Links

- [www.germany.travel/en](http://www.germany.travel/en)
- [www.lonelyplanet.com/germany](http://www.lonelyplanet.com/germany)
- [wikitravel.org/en/Germany](http://wikitravel.org/en/Germany)
- [www.cologne-tourism.com](http://www.cologne-tourism.com)
- [www.nytimes.com/2012/04/01/travel/36-hours-cologne-germany.html](http://www.nytimes.com/2012/04/01/travel/36-hours-cologne-germany.html) ◀

AD



**XXII CONGRESSO**  
**ORDEM DOS MÉDICOS DENTISTAS**  
 PORTUGUESE DENTAL ASSOCIATION ANNUAL MEETING

**today**

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# GREATER NEW YORK DENTAL MEETING

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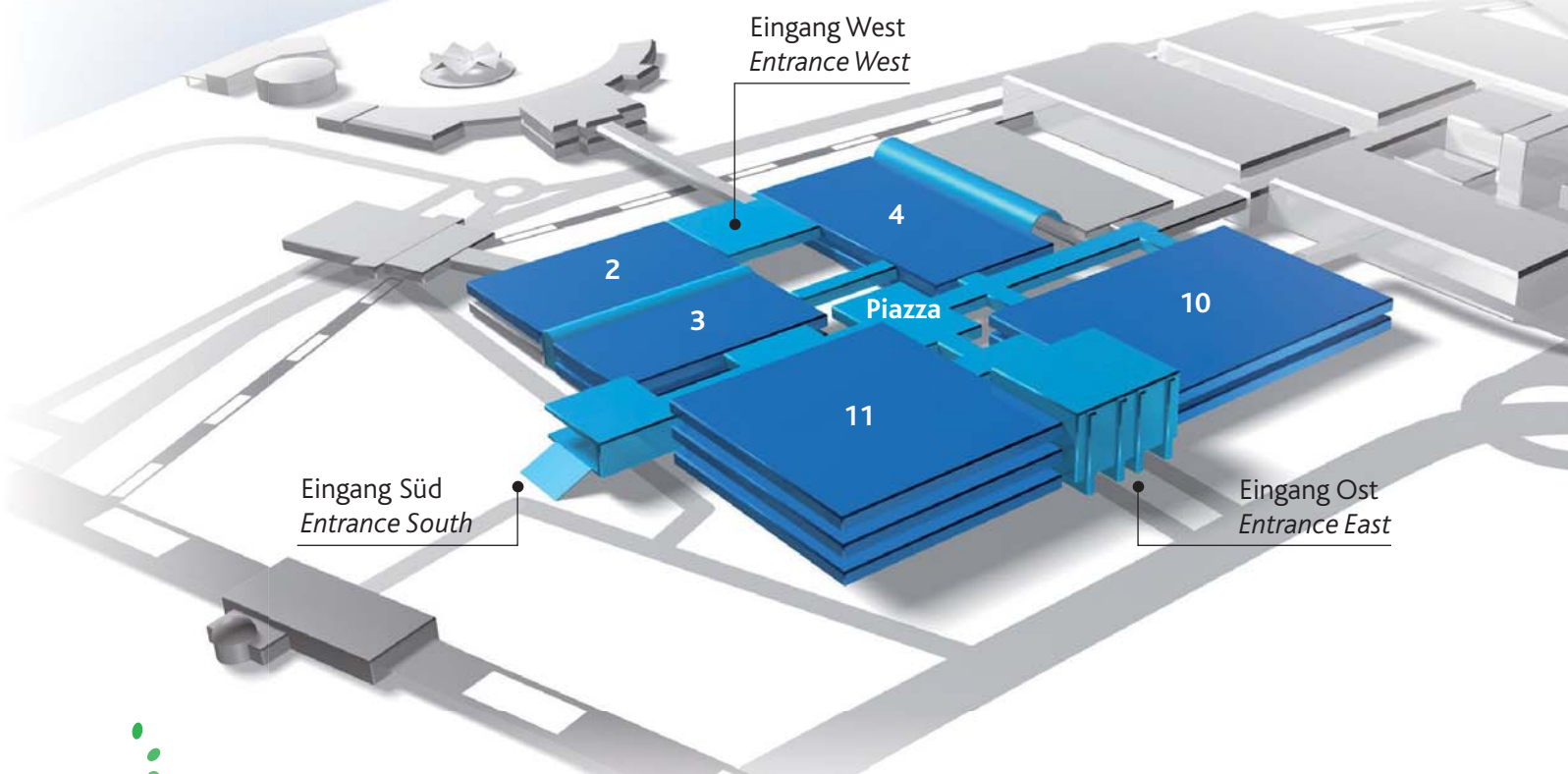


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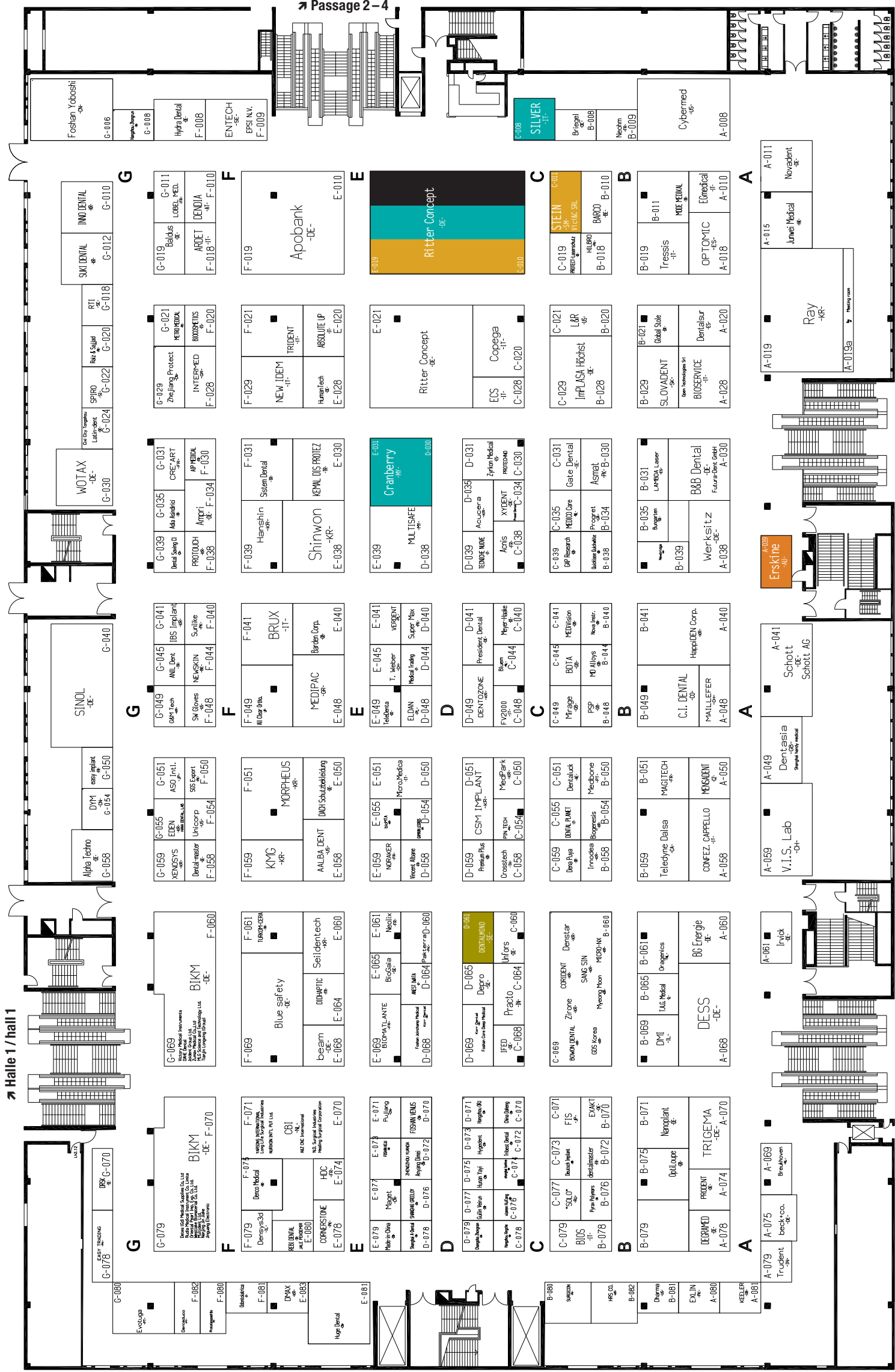
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# Halle Hall

## 2.2



### today Trend Index

- Implantologie
- Implantology
- Prävention/Parodontologie
- Prevention/Periodontology
- Veranstalter, Verbände & Depots
- Organisers, Associations & Trade
- Endodontie/Kons
- Endo/Conservative Dentistry
- Kieferorthopädie
- Orthodontics
- Kosmetische Zahnheilkunde
- Cosmetic Dentistry
- Laserzahnheilkunde
- Laser Dentistry
- Digitale Praxis
- Digital Practice
- Praxisseinrichtung
- Interior Design
- Zahntechnik
- Dental Technology
- Praxishygiene
- Hygiene and Sterilisation
- Praxismanagement
- Practice Management

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**PREMIUM  
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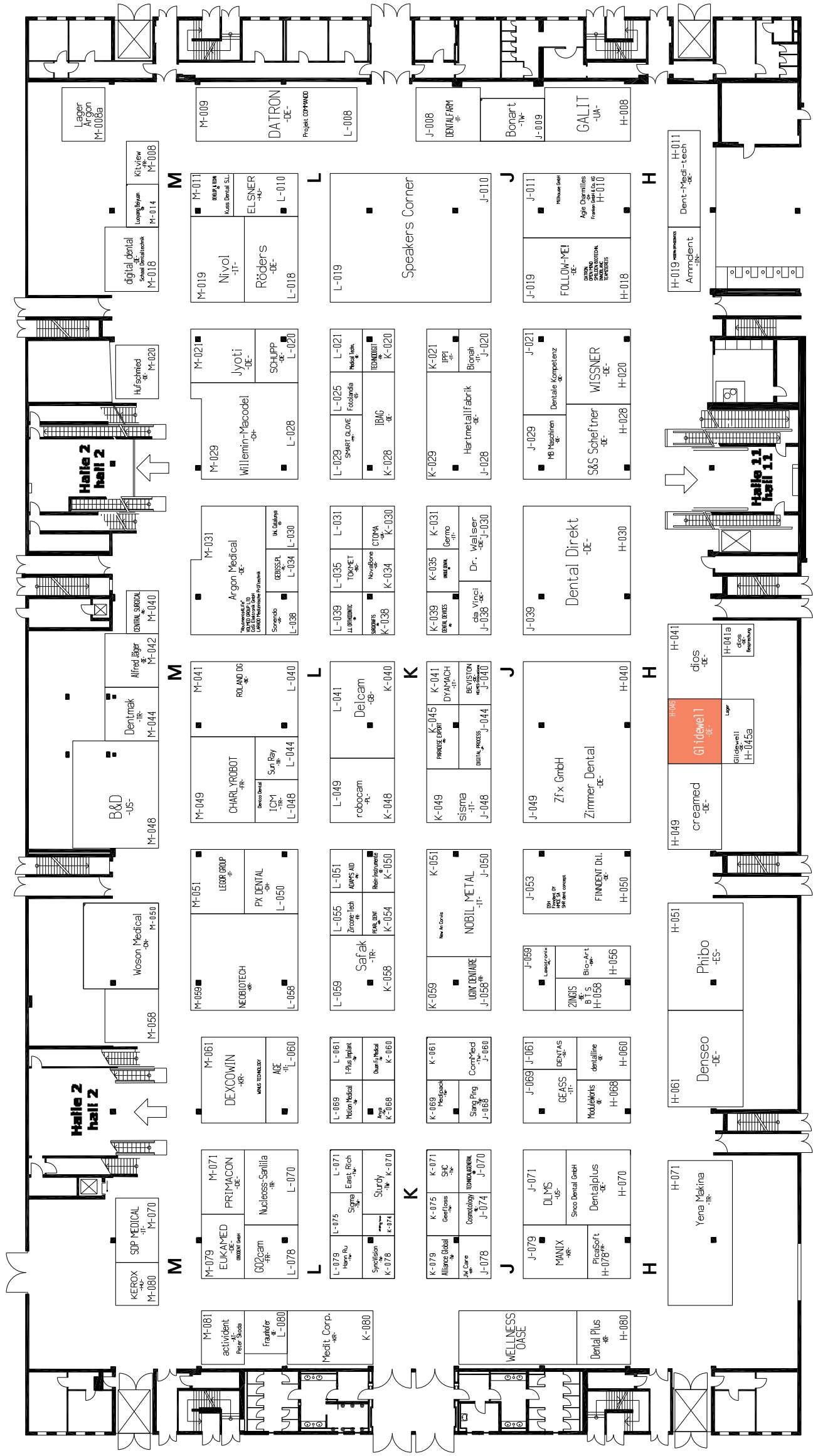
- ORIGINAL THERAPIE AIR-FLOW® FÜR DIE HÖCHSTEN ANSPRÜCHE IN DER MODERNEN, PROFESSIONELLEN ZAHNREINIGUNG ÜBER DAS GESAMTE BEHANDLUNGSSPEKTRUM MIT DEM NEUEN AIR-FLOW® handy 3.0
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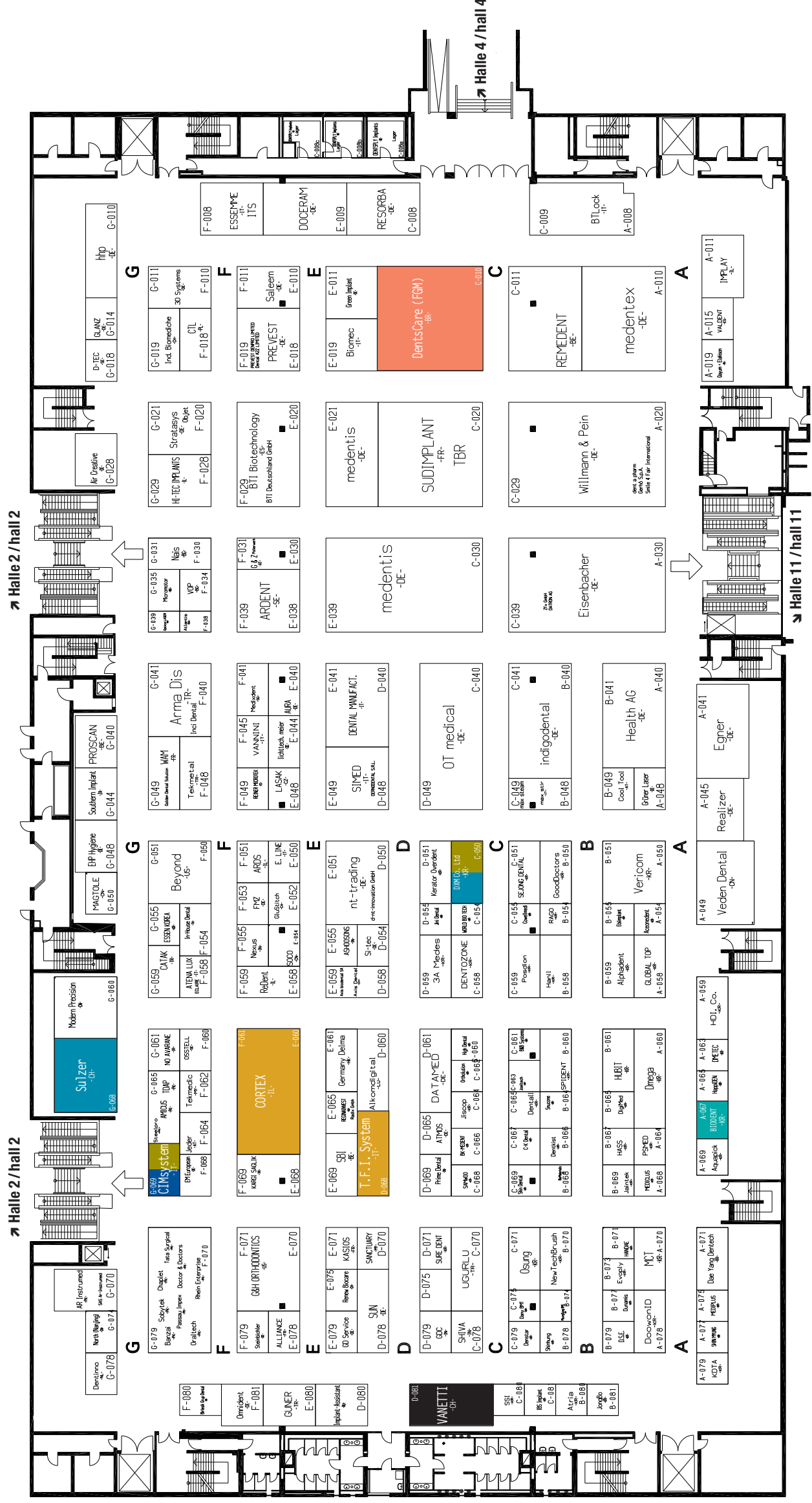
# Halle Hall 3.1



**today**  
**Trend Index**

- ..... Implantologie  
..... Implants
- ..... Prävention/Parodontologie  
..... Prevention/Periodontology
- ..... Veranstalter, Verbände & Depots  
..... Organisers, Associations & Trade
- ..... Endodontie/Konservative  
..... Endo/Conservative Dentistry
- ..... Kieferorthopädie  
..... Orthodontics
- ..... Kosmetische Zahnheilkunde  
..... Cosmetic Dentistry
- ..... Laserzahnheilkunde  
..... Laser Dentistry
- ..... Digitale Praxis  
..... Digital Practice
- ..... Praxiseinrichtung  
..... Interior Design
- ..... Zahntechnik  
..... Dental Technology
- ..... Praxishygiene  
..... Hygiene and Sterilisation
- ..... Praxismanagement  
..... Practice Management

# Halle Hall 3.2



### today Trend Index

- ..... Implantologie
- ..... Implants
- ..... Prävention/Parodontologie
- ..... Prevention/Periodontology
- ..... Veranstalter, Verbände & Depots
- ..... Organisers, Associations & Trade
- ..... Endodontie/Kons
- ..... Endo/Conservative Dentistry
- ..... Kieferorthopädie
- ..... Orthodontics
- ..... Kosmetische Zahnheilkunde
- ..... Cosmetic Dentistry
- ..... Laserzahnheilkunde
- ..... Laser Dentistry
- ..... Digitale Praxis
- ..... Digital Practice
- ..... Praxisrichtung
- ..... Interior Design
- ..... Zahntechnik
- ..... Dental Technology
- ..... Praxishygiene
- ..... Hygiene and Sterilisation
- ..... Praxismanagement
- ..... Practice Management

# Halle Hall 4.1



## today Trend Index

- Implantologie  
..... Implantology
- Prävention/Parodontologie  
..... Prevention/Periodontology
- Veranstalter, Verbände & Depots  
..... Organisers, Associations & Trade
- Endodontie/konservative  
..... Endo/Conservative Dentistry
- Kieferorthopädie  
..... Orthodontics
- Kosmetische Zahnheilkunde  
..... Cosmetic Dentistry
- Laserzahnheilkunde  
..... Laser Dentistry
- Digitale Praxis  
..... Digital Practice
- Praxiseinrichtung  
..... Interior Design
- Zahntechnik  
..... Dental Technology
- Praxishygiene  
..... Hygiene and Sterilisation
- Praxismanagement  
..... Practice Management

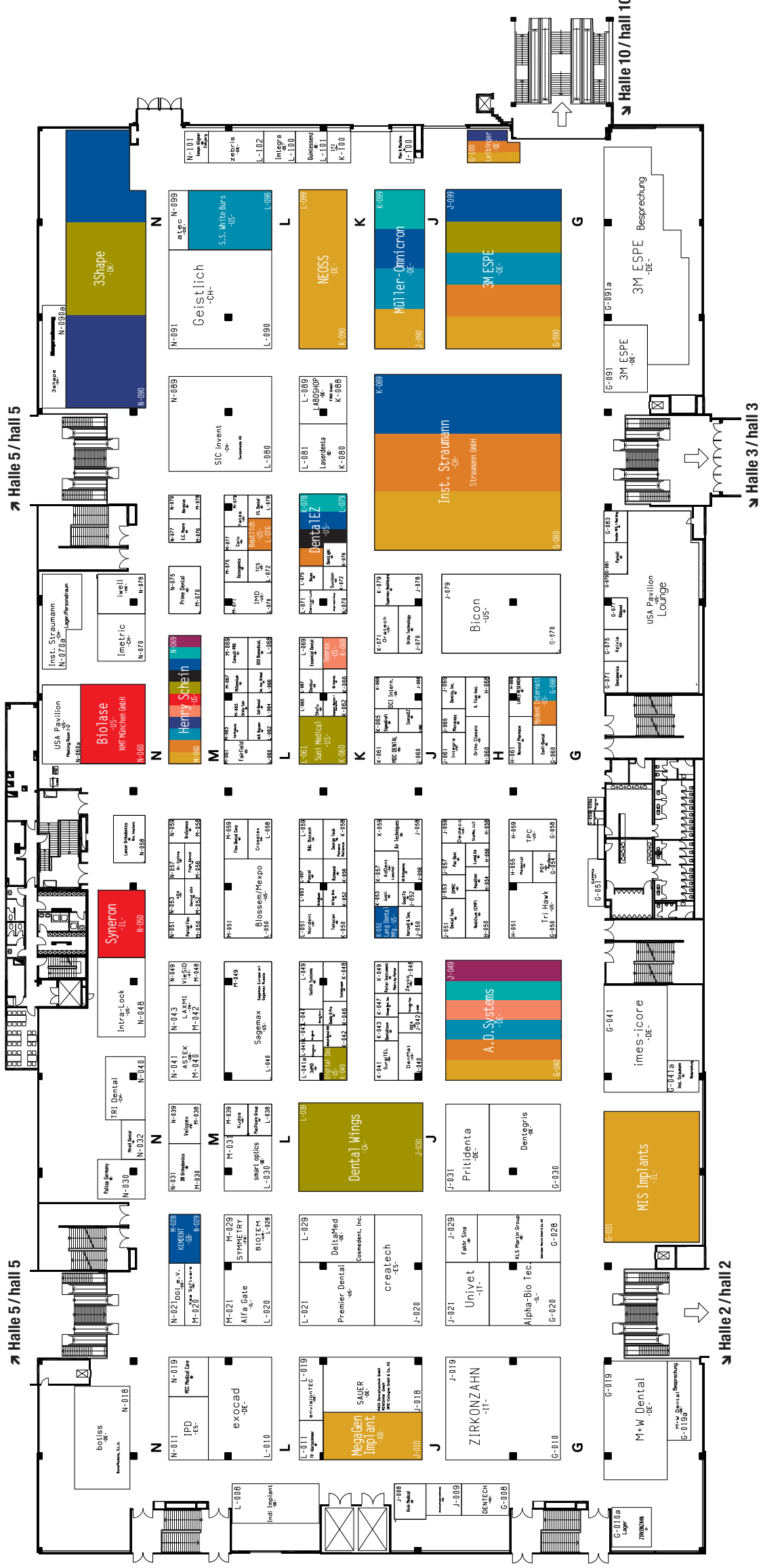
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IDS Cologne—12–16 March, 2013

## Hallenplan floor plan 4.2

**today**



### today Trend Index

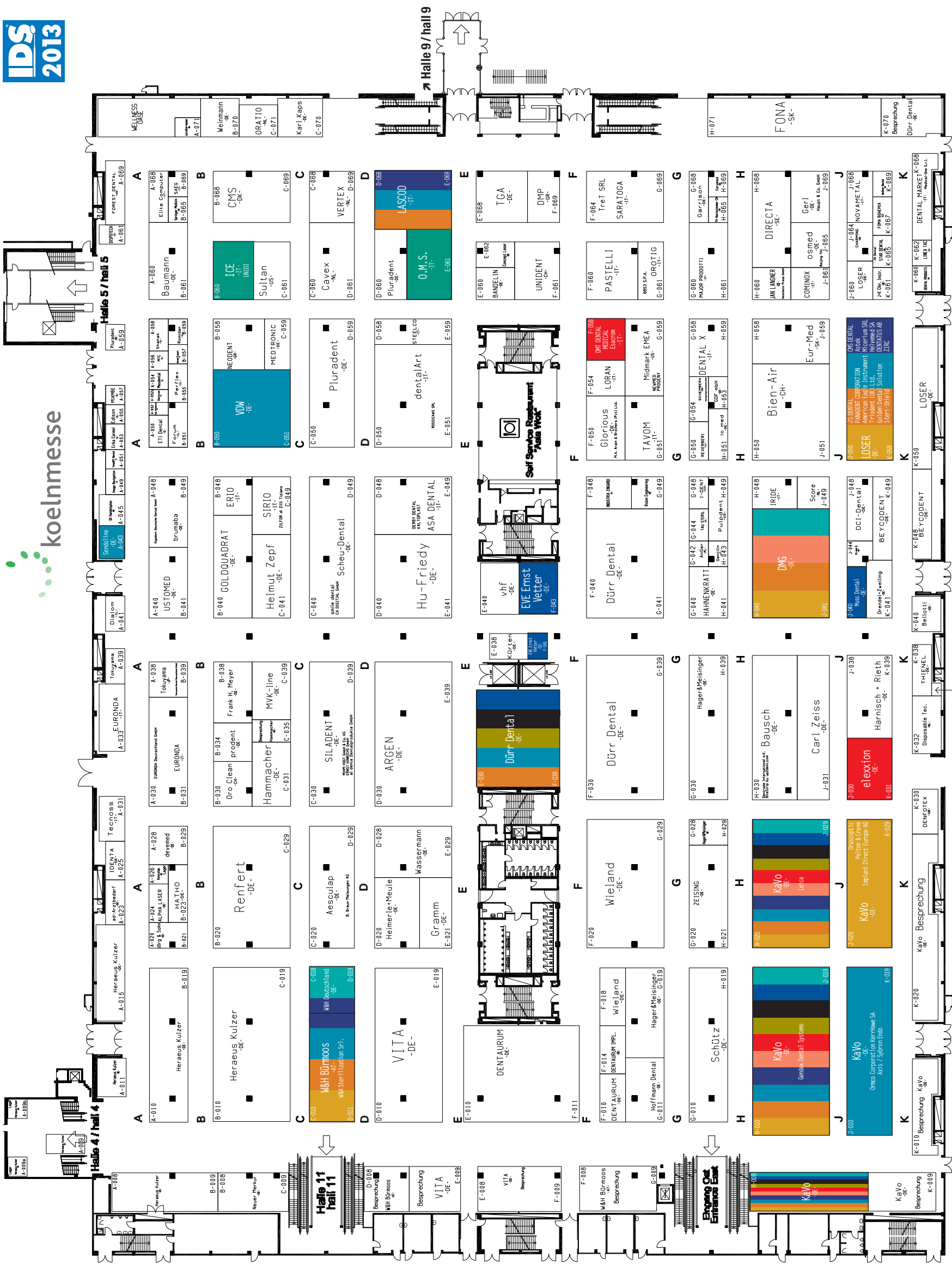
- Implantologie
- Implantologie
- Prävention/Parodontologie
- Prävention/Parodontologie
- Veranstalter, Verbände & Depots
- Organisers, Associations & Trade
- Endodontie/Kons
- Endo/Conservative Dentistry
- Kieferorthopädie
- Orthodontics
- Kosmetische Zahnheilkunde
- Cosmetic Dentistry
- Laserzahnheilkunde
- Laser Dentistry
- Digitale Praxis
- Digital Practice
- Praxiseinrichtung
- Interior Design
- Zahntechnik
- Dental Technology
- Praxishygiene
- Hygiene and Sterilisation
- Praxismanagement
- Practice Management

AD



**Neoss – Das Implantat-System! Wir freuen uns auf Ihren Besuch! Halle 4.2, Stand K-90**



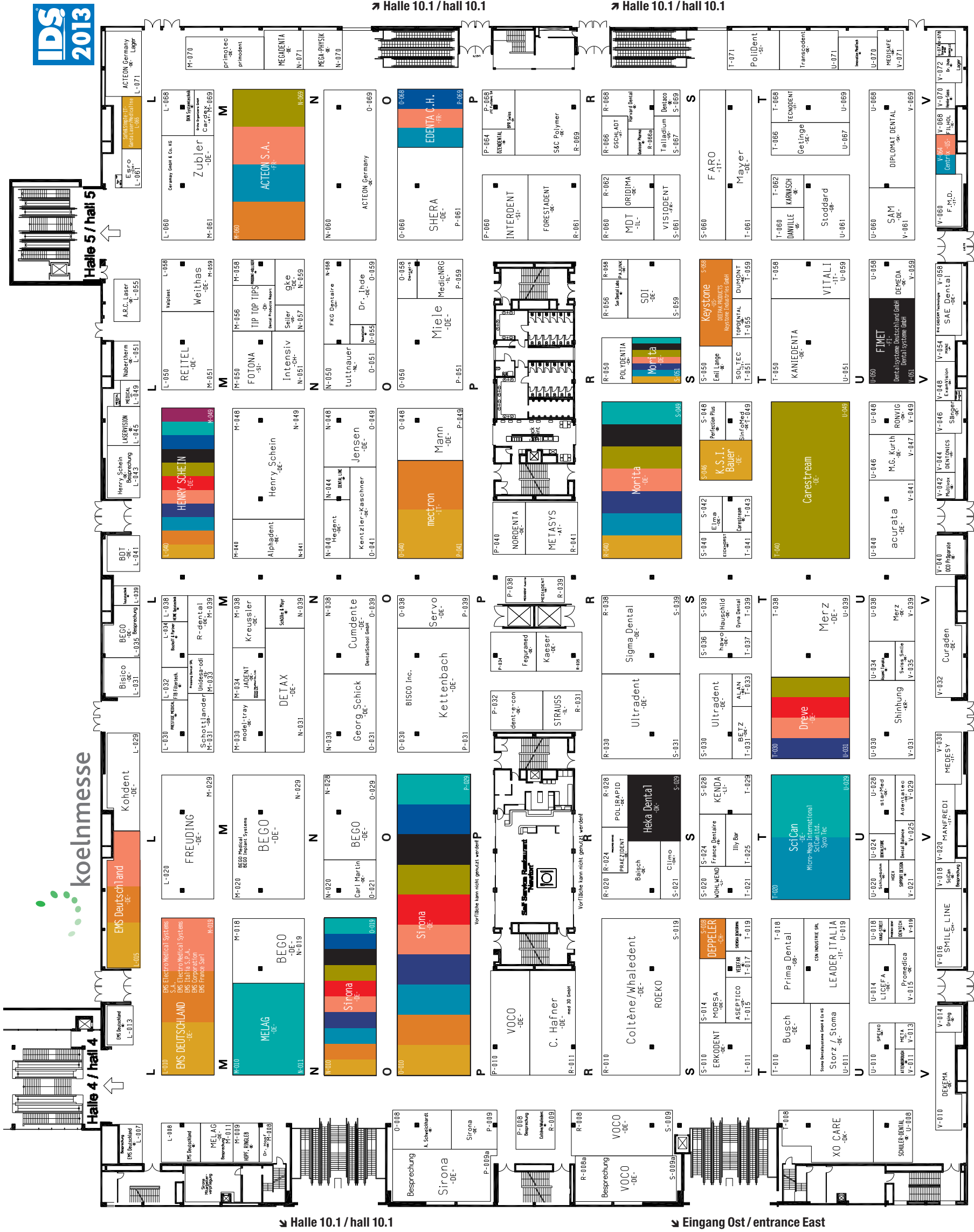


# Halle Hall 10.1

## today Trend Index

- Implantologie  
..... Implantology
- Prävention/Parodontologie  
..... Prevention/Periodontology
- Veranstalter, Verbände & Depots  
..... Organisers, Associations & Trade
- Endodontie/Kons  
..... Endo/Conservative Dentistry
- Kieferorthopädie  
..... Orthodontics
- Kosmetische Zahnheilkunde  
..... Cosmetic Dentistry
- Laserzahnheilkunde  
..... Laser Dentistry
- Digitale Praxis  
..... Digital Practice
- Praxiseinrichtung  
..... Interior Design
- Zahntechnik  
..... Dental Technology
- Hygiene und Sterilisation  
..... Hygiene and Sterilisation
- Praxismanagement  
..... Practice Management





# Halle Hall 10.2

## today Trend Index

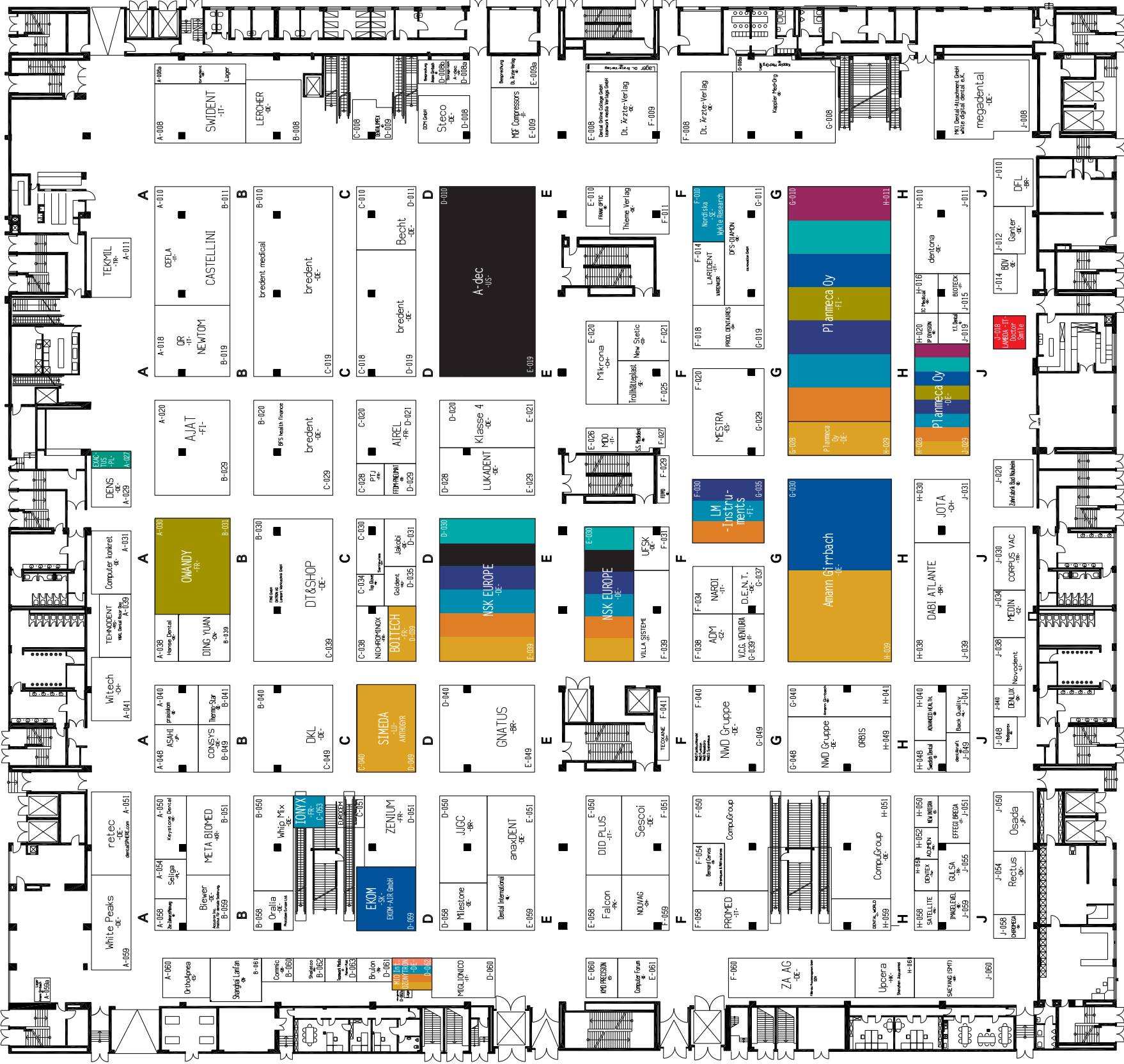
- Implantologie  
Implantology
- Prävention/Parodontologie  
Prevention/Periodontology
- Veranstalter, Verbände & Depots  
Organisers, Associations & Trade
- Endodontie/Kons  
Endo/Conservative Dentistry
- Kieferorthopädie  
Orthodontics
- Kosmetische Zahnheilkunde  
Cosmetic Dentistry
- Laserzahnheilkunde  
Laser Dentistry
- Digitale Praxis  
Digital Practice
- Praxisseinrichtung  
Interior Design
- Zahntechnik  
Dental Technology
- Praxishygiene  
Hygiene and Sterilisation
- Praxismanagement  
Practice Management

# Halle Hall

## 11.1

### today Trend Index

- Implantologie  
..... Implants
- Prävention/Parodontologie  
..... Prevention/Periodontology
- Veranstalter, Verbände & Depots  
..... Organisers, Associations & Trade
- Endodontie/Kons  
..... Endo/Conservative Dentistry
- Kieferorthopädie  
..... Orthodontics
- Kosmetische Zahnheilkunde  
..... Cosmetic Dentistry
- Lasierzahnheilkunde  
..... Laser Dentistry
- Digitale Praxis  
..... Digital Practice
- Praxiseinrichtung  
..... Interior Design
- Zahntechnik  
..... Dental Technology
- Praxishygiene  
..... Hygiene and Sterilisation
- Praxismanagement  
..... Practice Management



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Ein sehr gut modellierbares Nanohybrid-Komposit für die Verarbeitung in der Bulk-Technik. Es sorgt für eine neue Effizienz im Seitenzahnbereich.  
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### Voco GrandioSO Flow Spritzen set 5x 2g



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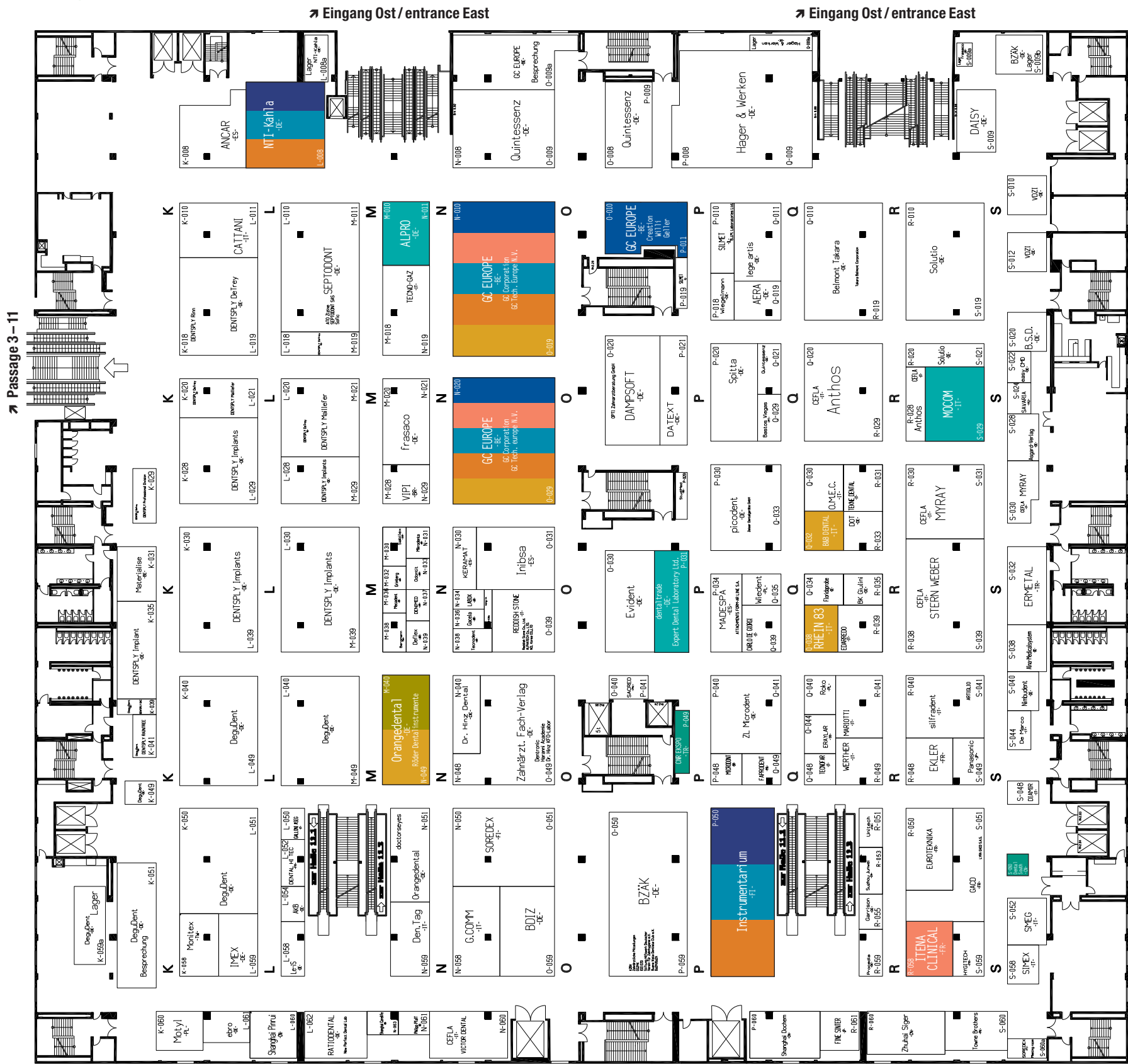
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# Halle Hall 11.2

## today Trend Index

- Implantologie  
Implantology
- Prävention/Parodontologie  
Prevention/Periodontology
- Veranstalter, Verbände & Depots  
Organisers, Associations & Trade
- Endodontie/Kons  
Endo/Conservative Dentistry
- Kieferorthopädie  
Orthodontics
- Kosmetische Zahnheilkunde  
Cosmetic Dentistry
- Laserzahnheilkunde  
Laser Dentistry
- Digitale Praxis  
Digital Practice
- Praxiseinrichtung  
Interior Design
- Zahntechnik  
Dental Technology
- Praxishygiene  
Hygiene and Sterilisation
- Praxismanagement  
Practice Management



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Eingang Ost / entrance East

Eingang Ost / entrance East

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## **NEU:** Philips ZOOM lichtaktives 6% H<sub>2</sub>O<sub>2</sub> Gel. Die Vorteile der Lichtaktivierung jetzt auch in der kosmetischen Zahnaufhellung.

Schon immer werden zur Zahnaufhellung auch lichtaktive, H<sub>2</sub>O<sub>2</sub> freisetzende Gele eingesetzt. In Studien zeigen sie Effektivität und überzeugende Ergebnisse.<sup>1</sup>

**NEU:** Mit dem Philips ZOOM lichtaktiven 6% H<sub>2</sub>O<sub>2</sub> Gel gibt es erstmals auch für die kosmetische Zahnaufhellung ein solches Produktkonzept.

### **Es enthält:**

- Amorphes Calciumphosphat (ACP): remineralisiert den Zahnschmelz durch Bildung einer neuen Hydroxylapatitschicht auf der Zahnoberfläche.
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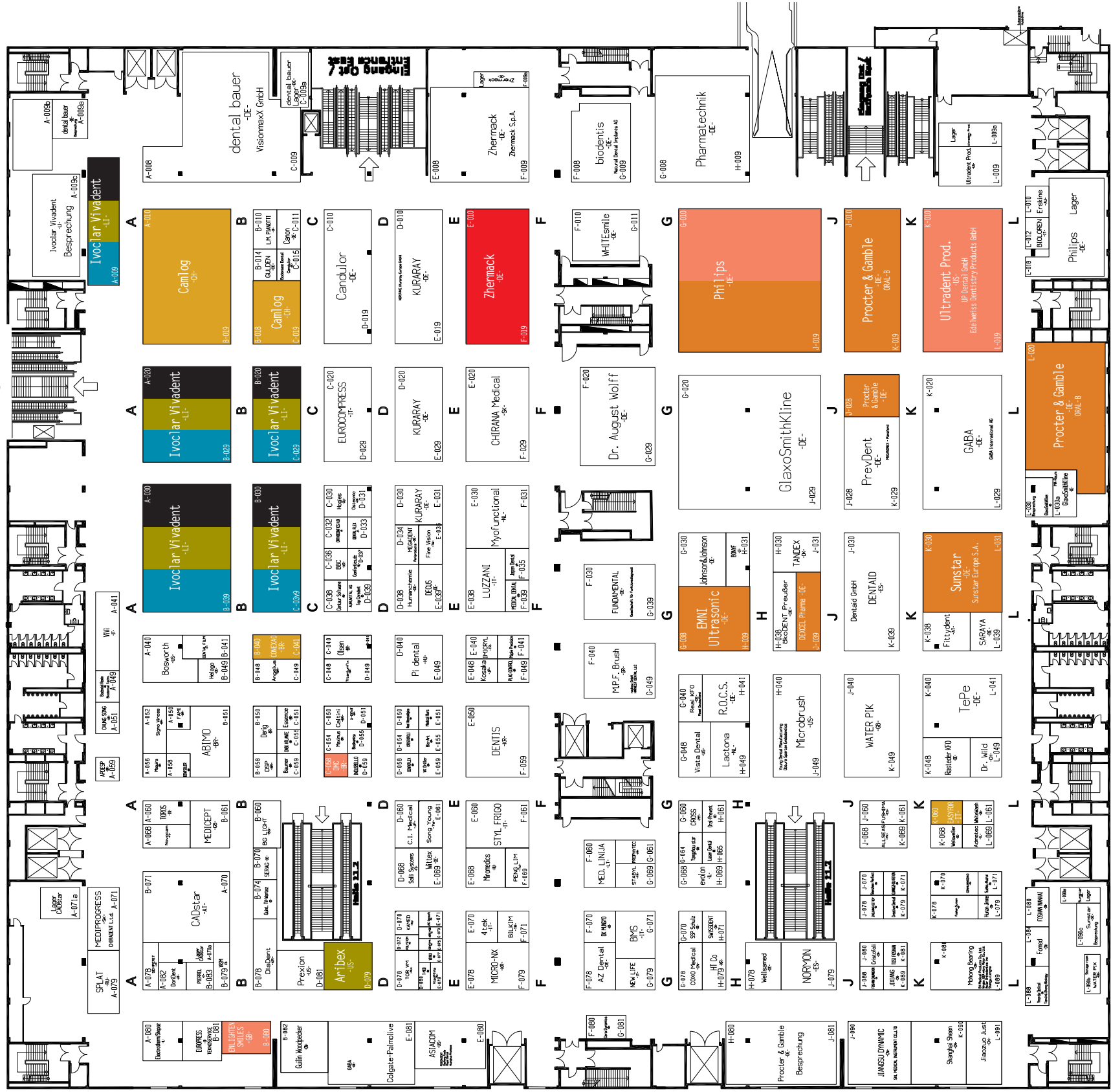
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<sup>1</sup> A Randomized, Parallel-Design Clinical Trial to Assess Tooth Bleaching Efficacy and Safety of Light versus non-Light Activated Chairside Whitening, in vivo study, Li Y, Lee S, Kwon S.R., Arambula M, Yang H, Li J, Delaurenti M, Jenkins W, Nelson M, Souza S, Ward M. Data on file.

## today Trend Index

- Implantologie  
..... Implants
- Prävention/Parodontologie  
..... Prevention/Periodontology
- Veranstalter, Verbände & Depots  
..... Organisers, Associations & Trade
- Endodontie/Kons  
..... Endo/Conservative Dentistry
- Kieferorthopädie  
..... Orthodontics
- Kosmetische Zahnheilkunde  
..... Cosmetic Dentistry
- Laserzahnheilkunde  
..... Laser Dentistry
- Digitale Praxis  
..... Digital Practice
- Praxiseinrichtung  
..... Interior Design
- Zahntechnik  
..... Dental Technology
- Präxishygiene  
..... Hygiene and Sterilisation
- Praxismanagement  
..... Practice Management

Passage 3-11



# BESSERE MUNDGESUNDHEIT\*

## GREIFBAR FÜR IHRE PATIENTEN

**IDS  
2013**

**Besuchen Sie  
uns auf der  
IDS Köln!**

Halle 11.3 Gang J Nr. 010  
Gang K Nr. 019

GINGIVITIS

KIEFERORTHOPÄDISCHE  
APPARATUREN

PLAQUE

VERFÄRBUNGEN

IMPLANTATE

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ELEKTRISCHE ZAHNBÜRSTEN

*Eine Empfehlung - Gesunde Zähne ein Leben lang*

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- ZAHNFLEISCHSCHUTZ: 93% der Patienten reduzierten ihren zu hohen Putzdruck innerhalb von 30 Tagen\*<sup>1</sup>
- GINGIVITIS: Rückgang gingivaler Blutungen um bis zu 32% nach 6 Wochen<sup>a2</sup>
- KIEFERORTHOPÄDISCHE APPARATUREN: Reduziert Plaque um 32% innerhalb von 8 Wochen<sup>b3</sup>
- PLAQUE: Entfernt bis zu 99,7% der Plaque, auch in schwer zugänglichen Bereichen\*<sup>c4</sup>

**References:** 1. Janusz K et al. *J Contemp Dent Pract.* 2008;9(7):1-8. 2. Rosema NAM et al. *J Periodontol.* 2008;79(8):1386-1394. 3. Clerehugh V et al. *J Contemp Dent Pract.* 2008;9(7):1-8. 4. Sharma NC et al. *J Dent Res.* 2010;89(special issue A):599.

\* im Vergleich zu einer herkömmlichen Handzahnbürste. \* bei Verwendung der Oral-B® Triumph im Modus Reinigen mit der Aufsteckbürste Oral-B® Tiefen-Reinigung. <sup>b</sup> bei Verwendung der Oral-B® Triumph im Modus Reinigen mit der Aufsteckbürste Oral-B® Ortho. <sup>c</sup> bei Verwendung der Oral-B® Triumph im Modus Tiefenreinigung mit der Aufsteckbürste Oral-B® Tiefen-Reinigung.

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verschiedenen Indikationen Ihrer Patienten zu erfahren  
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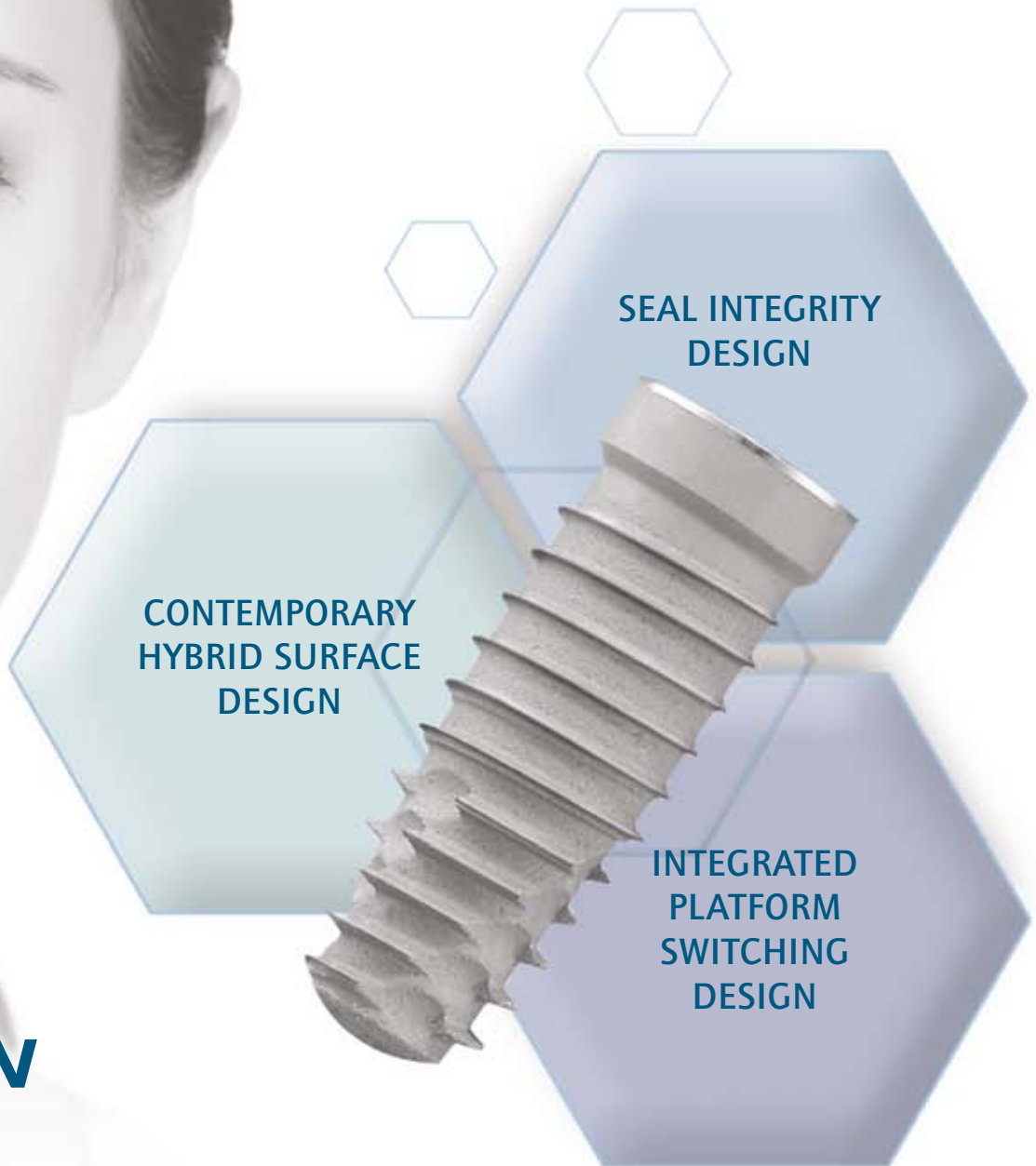
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The **3i T3**™ Implant is designed to deliver aesthetic results through tissue preservation.



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✓ Contemporary hybrid surface design with multi-level topography; media-blasted on the threaded region and dual-acid etched on the collar region

✓ Designed to reduce microleakage through exacting interface tolerances and maximized clamping forces<sup>1,2</sup>

Seal integrity test was performed by BIOMET **3i** July 2011 - June 2012. In order to test the implant systems, a dynamic-loading leakage test was developed and executed. The test set-up was adapted from ISO14801, Dentistry - Implants - Dynamic Fatigue Test for Endosseous Dental Implants. Five samples each of the BIOMET **3i** and three competitive implant systems were evaluated. Bench test results are not necessarily indicative of clinical performance.

✓ Optimized aesthetics with as little as 0.37mm of bone recession<sup>3</sup>

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1. Suttin et al<sup>†</sup>. A novel method for assessing implant-abutment connection seal robustness. Poster Presentation: Academy of Osseointegration, 27th Annual Meeting; March 2012; Phoenix, AZ. [http://biomet3i.com/Pdf/Posters/Poster\\_Seal%20Study\\_ZS\\_AO2012\\_no%20logo.pdf](http://biomet3i.com/Pdf/Posters/Poster_Seal%20Study_ZS_AO2012_no%20logo.pdf)
2. Suttin Z<sup>†</sup>, Towse R<sup>†</sup>. Dynamic loading fluid leakage characterization of dental implant systems. ART1205EU BIOMET **3i** White Paper. BIOMET **3i**, Palm Beach Gardens, Florida, USA. <http://biomet3i.com/Pdf/EMEA/ART1205EU%20Dynamic%20Loading%20T3%20White%20Paper.pdf>
3. Östman PO<sup>††</sup>, Wennerberg A, Albrektsson T. Immediate Occlusal Loading Of NanoTite Prevail Implants: A Prospective 1-Year Clinical And Radiographic Study. Clin Implant Dent Relat Res. 2010 Mar;12(1):39-47.

<sup>†</sup>Mr. Suttin and Mr. Towse contributed to the above research while employed by BIOMET **3i**.

<sup>††</sup>Dr. Östman has a financial relationship with BIOMET **3i** LLC resulting from speaking engagements, consulting engagements and other retained services.



# IDS 2013 – Ausstellerliste *IDS 2013—Exhibitors list*

Firma Company	Halle Hall	Stand Booth	Firma Company	Halle Hall	Stand Booth	Firma Company	Halle Hall	Stand Booth	Firma Company	Halle Hall	Stand Booth
1 FOR ALL	11.1	D028 E029	Accutron Inc.	11.1	B059	Agie Charmilles Management SA	03.1	H010 J011	Alna-Medicalsystem GmbH	11.2	S038
2INGIS N.V.	03.1	H058	Ace Surgical Supply Co., Inc.	04.2	M060 N069	AGS MEDIKAL LIMITED COMPANY	04.1	F016	Alpha Techno GmbH	02.2	G058
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3A MEDES	03.2	D059	Acnis International	02.2	C038	Aichi Steel Corporation	11.1	D028 E029	Alpha Dent Implants Ltd.	04.1	B031
3D Systems GmbH	03.2	F010 G011	ACTEON Germany GmbH	10.2	N060 O069	AIP MEDICAL	02.2	F030	ALPHA LASER GmbH	10.1	A024
3DIEMME srl (Ltd)	04.1	C091	ACTEON S.A.	10.2	M060 N069	Air Creative GmbH	03.2	G028	Alpha-Bio Tec Ltd.	04.2	G020
3dMD	04.2	L041a	activident GmbH	03.1	M081	Air Techniques, Inc.	04.2	J058 K059	ALPHADENT Co., Ltd.	03.2	B059
3M Deutschland GmbH 3M ESPE	04.2	G091 G090 J099	Acucera, Inc.	02.2	D035	AIREL	11.1	C020 D021	Alphadent nv	10.2	M040 N041
3shape A/S	04.2	N090	ACUMEN Surgical Pvt., Ltd.	11.1	H052	Aixin Medical Equipment Co., Ltd.	04.2	J008	ALPHATECH Co., LTD.	11.2	O039
4TEK SRL	11.3	E070	acurata GmbH & Co.KG	10.2	U040 V041	OY AJAT Ltd.	11.1	A020 B029	ALPRO MEDICAL GMBH	11.2	M010 N011
8853 S.P.A.	10.1	G061	ad-Arztbedarf GmbH	10.1	A023	Guangzhou Ajax Medical Equipment Co., Ltd.	04.1	A011	ALYANTE SRL	02.2	A028
<b>A</b>			ADAM'S AID CORPORATION	03.1	L051	AKB GmbH dental-handwerker	11.2	L054	Amann Gurrbach GmbH	11.1	G030 H039 G040 H041
A & Z CNC International	02.2	E070 F071	AdDent, Inc.	10.2	R038 S039 K057	Akrus GmbH & Co. KG	04.1	A051	AMD Lasers, LLC	11.3	E010 F019
A-dec International Inc.	11.1	D010 E019	Adentatec GmbH Competence in Dental	10.2	V029	Aktion zahnfreundlich e.V.	Passage	V005	American Dental Association (ADA)	Passage	V006 N053
A. Schweickhardt GmbH & Co. KG	10.2	O008	ADEPT WATER TECHNOLOGIES A/S	02.2	E074	al dente Dentalprodukte GmbH	10.1	C030 D039	American Dental Systems GmbH Günther Jerney	04.2	G040 J049
A. Titan Instruments	04.2	H068	Adia Asindirici Teknolojileri Muhendislik Makina Metal Sanayi ve Ticaret Ltd. Sirketi	02.2	G035	Alan & Co s.a.	10.2	T033	American Eagle Instrument	10.1	J050 K059
A.R.C. Laser GmbH	10.2	L055	ADIN Dental Implant Systems Ltd.	04.1	F031	Alfa Gate Ltd.	04.2	L020 M021	AMICUS ENTERPRISES	03.2	G065
a.tron3d GmbH	04.1	A039	ADM, a.s.	11.1	F038	ALFRED JÄGER GmbH	03.1	M042	Amrit Chemicals & Minerals Agency (Ammdent)	03.1	H019
AALBA DENT, INC.	02.2	E058	Admetec Solutions Ltd.	11.3	L069	Alkomdigital Sarl	03.2	D060	AMPri Handelsgesellschaft mbH	02.2	F034
A.B. Dental Devices Ltd.	04.1	C090 D091	ADVANCED HEALTHCARE LTD.	11.1	H040	All Star Orthodontics	04.2	K052	anaxDENT GmbH	11.1	E051
Abrasive Technology	04.2	M078 N079	AEEDC DUBAI	Passage	V006	ALLIANCE	03.2	E078	Antoni Carles, S.A.	11.2	K008
ABSOLUTE UP S.r.l.	02.2	E020	AERA EDV-Programm GmbH	11.2	Q019	Alliance Global Technology Co., Ltd.	03.1	K079	ANEST IWATA Air Tech s.r.l.	02.2	D064
Abu Samra Medical	04.1	D019	AERS-MED Ltd.	11.3	E073	Alliances Ceramiques	11.1	F054	Angelus Indústria de Produtos Odontológicos S/A	11.3	B048 C049
„Abutments4Life“ Fräszentrum-Ortenau KG	03.1	M031	Aesculap AG	10.1	C020 D029	ALLSEAS	11.3	J068 K069			
			Aesthetic Press GmbH	10.1	H060	allshape AG	04.1	B061			
			AGE SOLUTIONS SRL	03.1	L060	Alltion (Wuzhou) Co., Ltd.	10.2	M034			

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Firma Company	Halle Hall	Stand Booth
AnGer G & A Mfg	10.1	G042
ÖZEL ANIL DIS PROTEZ LABARATUARI TIC. LTD. STI.	02.2	G045
ANIS-DENT LTD	04.1	D012
ANTHOGRYR SAS	11.1	C040 D049
Anthos	11.2	Q020 R029 R028
Anya Biochemistry Enterprises Society	03.1	K068
Anyang Dimei Dental Material Company	02.2	D072
APCD – SAO PAULO DENTAL ASSOCIATION	Passage	V006
APDESPBr Associacao dos técnicos em Prótese Dentária	11.3	A059
Apixia Inc.	04.2	G075
Deutsche Apotheker- und Ärztebank eG	02.2	E010 F019
APOZA Enterprise CO., LTD.	04.1	E018 F019
Aqualizer by Jumar Corporation	04.2	H054
Aquapick	03.2	A069
AR Instrumed	03.2	G070
Arbeitsgemeinschaft für Keramik in der Zahnheilkunde e.V.	Passage	V004
ARDENT AB	03.2	E038 F039
ARDET. Dental & Medical Devices S.r.l.	02.2	F018
ARDS IMPLANTS LTD	03.2	F051
ARGEN Dental GmbH	10.1	D030 E039
Argon Medical Productions & Vertriebs GmbH & Co. KG	03.1	M031 M008a
Aribex Inc./NOMAD	11.3	D079
ARIES s.n.c.	04.1	F071
ARMA DENTAL URETIM SISTEMLERI SAN. Ve TIC. LTD. STI	03.2	F040 G041
ARTIGLIO SNC	11.2	R040 S041
ASA DENTAL S.p.A.	10.1	D048 E049
ASAHI ROENTGEN IND. CO., LTD	11.1	A048
ASEPTICO	10.2	T015
Asgard-Verlag Dr. Werner Hippe GmbH	11.2	S028
ASHOOSONS	03.2	E055
ASIACOM International LLC	11.3	E080
Asmat Corporation	02.2	B030
ASO International, Inc.	02.2	G051
Astar Orthodontics Inc	11.3	K080 L089
ASTEK INNOVATIONS LTD.	10.1	J050 K059
	04.2	M040 N041
ASTRA MOBILI METALLICI	11.3	E060 F061
atec Dental GmbH	04.2	N099
ATENA LUX s.r.l.	03.2	F058
Atlantis Ltd.	03.2	F038
ATMOS Medizintechnik GmbH & Co. KG	03.2	D065
ATO Zizine	11.2	L010 M011
ATRIA Inc.	03.2	B080
ATTACHMENTS FORM-AR LINE S.A.	11.2	P034
ATTENBOROUGH BRUSH LTD	10.2	V011
AURA-DENTAL Inh. Norbert Gelhart	03.2	E040
Deutsche Aurumed Edelmetalle NORD GmbH & Co. KG	04.1	F051
AURUVITAL AG	11.3	D039
Avanti Technology GmbH	04.1	C052
AVINENT IMPLANT SYSTEM, S.L.	04.1	D040
Axis biodental SA	03.2	D058 E059
AXIS Dental SárI	03.2	D058 E059
AZ DENTAL GMBH	11.3	F078

**B**

B & B Dentalservice GbR	02.2	A030
B. & B. DENTAL SRL	11.2	Q032
B&B Systems	03.2	C061
B&D Dental Technologies	03.1	M048
B&L Biotech USA, Inc.	04.2	L059

Firma Company	Halle Hall	Stand Booth
B.S.D. GmbH	11.2	S020
BA International, Ltd.	04.2	M060 N069
Back Quality Europe B.V.	11.1	J041
Karl Baisch GmbH	10.2	R020
Baldus Medizintechnik GmbH	02.2	G019
Bandelin electronic GmbH & Co. KG	10.1	E060
Banzai Corporation (Pvt) Ltd.	03.2	F070 G079
BARCO	02.2	B010
The Barden Corporation (UK) Ltd.	02.2	E040
Bastos Viegas, s.a.	11.2	Q029
dental bauer GmbH + Co. KG	11.3	A008 C009
Baumann Dental GmbH	10.1	A060 B061
Baumer S.A.	11.3	C059
Dr. Jean Bausch GmbH & Co. KG	10.1	H030
BBC	11.3	C036
BDIZ EDI e.V. Bundesverband der implantologisch tätigen Zahnärzte in Europa e.V.	11.2	O059
BDT GmbH	10.2	L041
The British Dental Trade Association	02.2	C045
BDV GmbH	11.1	J014
beam GmbH	02.2	E068
Alfred Becht GmbH	11.1	C010 D011
beck+co. marketing.coaching. training – Bianca Beck	02.2	A075
BEGO Bremer Goldschlägerei Wilh. Herbst GmbH & Co. KG	10.2	N028 O029 M020 N029 M018 N019
BEGO Implant Systems GmbH & Co. KG	10.2	N028 O029
BEGO Medical GmbH	10.2	N028 O029
Beijing Smart Technology Co., Ltd.	04.1	C055
Beijing YHJ Science and Trade Co., Ltd.	10.1	J065
Bellotti GmbH & Co. KG	10.1	K040
Belmont Takara Company Europe GmbH	11.2	Q010 R019
Karl Berg GmbH	04.1	A020
Bergmann S.A.	11.2	M038
Bernard Cervos Societ é B.C.S.	11.1	F054
Berufsgenossenschaft Energie Textil Elektro Medienerzeugnisse	02.2	A060
BETZDentalgeräte GmbH	10.2	T031
Beulich Pharmaceuticals, LLC	04.2	L076
BEVISTON GmbH	03.1	J040
BEYCODENT Beyer + Co. GmbH	10.1	K048 K049
Beyes Dental Canada Inc.	04.2	L075
Beyond Dental and Health Inc.	03.2	F050 G051
BFS health finance GmbH	11.1	B020 C029
BG LIGHT LTD	11.3	B060
BH Medical Products Co., Ltd.	11.3	K080 L089
Bicon Dental Implants	04.2	J079 G070
Bien-Air Dental SA	10.1	H050 J051
Biewer Medical Medizinprodukte	11.1	B059
BIKM Exhibition Service GmbH	02.2	F070 G079 F060 G069
BILKIM TIBBI URUNLER LTD. CO	11.3	F071
Bio Concept Co., Ltd.	04.1	A009
Bio Implant	04.2	N058
BIO-ART EQUIPAMENTOS ODONTOLÓGICOS LTDA	03.1 11.3	H056 E055
BIOCOSMETICS S.L.	02.2	F020
BIODENT CO., LTD.	03.2	A067
Biodenta Swiss AG	04.1	D049
Biodental Remin Limited	11.3	A049
Biodental Technologies Pty Ltd	11.3	A049
biodentis GmbH	11.3	F008 G009

Firma Company	Halle Hall	Stand Booth
Biodinamica Química e Farmaceutica Ltda	11.3	D055
BioGaia AB	02.2	E065
Biogenesis Co., Ltd.	02.2	B054
Bioimplon GmbH	04.1	E014 F015
Biolase Inc.	04.2	N060
BILOREN srl	11.3	L012
BioMaterials Korea Inc.	03.2	B068
BIOMATLANTE SA	02.2	E069
Biomec S.r.l.	03.2	E019
bioMTA	02.2	E055
Bionah GmbH	03.1	J020
BIOS s.r.l.	02.2	B078 C079
BIOSERVICE SRL	02.2	A028
biotec S.R.L.	04.1	D021
BIOTECH INTERNATIONAL	11.1	D039
BIOTECK S.p.A.	11.1	J015
BIOTEM. Co., Ltd.	04.2	L028
Birlesik Grup Dental Dis Ve Discilik Malzemeleri Ins. San.	03.2	F080
Prof. Dr. Bischoff & Bischoff Büroservice GbR	10.2	L034
BISCO Inc.	10.2	O030 P031
Bisico Bielefelder Dentalsilicone GmbH & Co. KG	10.2	L031
BiteStrip by up2dent.com pixel-town OHG	10.1	H030
BIVO AKRILIK Sanayi Ve Dis Ticaret A.S.	04.1	D014
B.J.M. Laboratories Ltd.	11.2	P010
BK Giuliani GmbH	11.2	R035
BK-Medent	03.2	C066
BKN Systemtechnik GmbH	10.2	L068
Mexpo International Inc. Blossom	04.2	L050 M051
BLUE SAFETY GmbH	02.2	F069
Bluem/5 Pillars Research B.V.	02.2	C044
BMS DENTAL S.r.l.	11.3	G071
BMT Chirurgische Instrumente	04.1	C100
Bodensee Dental GmbH	11.3	C015
Bonart Co., Ltd.	03.1	J009
BoneModels, S.L.U.	04.2	N018
BONYF AG	11.3	H031
Tekmetal San. ve Tic. Ltd. Sti.	03.2	F048
Bosworth Company	11.3	A040
botiss dental GmbH	04.2	N018
BOWON DENTAL Co., Ltd.	02.2	B060 C069
BPR Swiss GmbH	10.2	P068
B. Braun Melsungen AG	10.1	C020 D029
ABIMO – Brazilian Medical Devices Manufacturers Association	11.3	B051
bredent GmbH & Co. KG	11.1	C018 D019 B010 C019 B020 C029 A008a
bredent medical GmbH & Co. KG	11.1	B010 C019
Briegel Dental	02.2	B008
Britesmile	11.3	G010 J019
Brulon International	11.1	D061
brumaba GmbH & Co. KG	10.1	A048 B049
BRUX SRL	02.2	F041
BTI Biotechnology Institute, S.L.	03.2	E020 F029
BTI Deutschland GmbH	03.2	E020 F029
BTLock International srl	03.2	A008 C009
BTS Distribution Germany UG (limited)	03.1	H058
Buena Vista Dentista Club e.V. Verband der Zahnärztinnen	11.2	O050 P059
Bundesverband der Zahnmedizin- studenten in Deutschland (BdZM) e.V. Bundesverband der zahnmed. Alumni in Deutschland	11.2	O050 P059

Firma Company	Halle Hall	Stand Booth
Bundeszahnärztekammer Arbeits- gemeinschaft der Deutschen Zahnärztekammern e.V.	11.2	O050 P059
Bungarten GmbH	02.2	B035
BUSCH & CO. GmbH & Co. KG	10.2	T010

**C**

C-K Dental Ind. Co., Ltd.	03.2	C067
C-TECH IMPLANT srl	04.1	B009
C.I. Dental X Ray S.A.S.	02.2	B049
CA DIGITAL GmbH	10.1	C040 D049
CADdent GmbH Laser- und Fräszentrum	04.1	B040
CADstar GmbH	11.3	A070 B071
Caltini Indústria e Comércio de Móveis L	11.3	C050
CALZAVARA S.p.A.	11.1	E050
CAMLOG Biotechnologies AG	11.3	B018 C019 A010 B019 D031
Candolor Dental GmbH	11.3	C010 D019 C015
Canon Deutschland GmbH	11.3	C011
Cardex Dental	10.2	M069
Carestream Health Deutschland GmbH	10.2	T040 U049 T043
Carl Martin GmbH	10.2	N020 O021
CASTELLINI	11.1	A010 B011
CATAK Dis Deposu	03.2	G059
CATTANI S.p.A.	11.2	K010 L011
Cavex Holland BV	10.1	C060 D061
CBI Ministry of Foreign Affairs	02.2	E070 F071
ce.novation GmbH	11.1	G011
CEFLA DENTAL GROUP	11.2	Q020 R029 N060 S030 R038 S039 R030 S031 R028
Cendres+Métaux SA	04.1	B020
CENTAUR SOFTWARE DEVELOPMENT CO. PTY LIMITED	11.3	C038
CENTRAL SURGICAL Co. Ltd.	03.1	M040
Centrix, Inc.	10.2	V064
Cera Dynamics Ltd.	11.3	F080 G081
Ceramay GmbH & Co. KG	10.2	L060 M061
CERAMED GmbH	10.1	H069
Céramiques & Réfractaires	11.1	F054
CeramTec GmbH	04.1	B051
Creative Dental	11.3	K079
CERKAMED	04.1	C079
Champions-Implants GmbH	04.1	B071
Changsha Zhongnan Dental Medical Devices Co., Ltd.	02.2	D079
Chaplet International Pvt. Ltd.	03.2	F070 G079
CHARLYROBOT	03.1	M049
CHARMING Dentalprodukte GmbH	10.1	J064
Chicago Dental Society	04.2	K047
China Daheng Group, Inc.	02.2	C070
CHIRADENT L.t.d.	11.3	A071
CHIRANA Medical, a.s.	11.3	E020 F029
CHIROMEGA s.r.o.	11.1	J058
Ti-oss Co., Ltd.	04.1	A008
Chuan Fu Medical Instrument Co., Ltd.	03.1	K060
CHUNG SONG INDUSTRIAL CO.	11.3	A051
C.I. MEDICAL CO., LTD.	11.3	D060
CIMsystem s.r.l.	03.2	G069
Cleankeys, Inc.	04.2	L041b

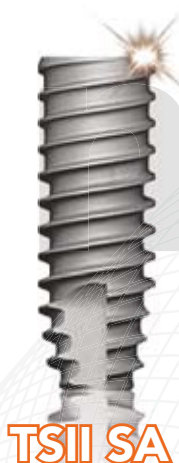
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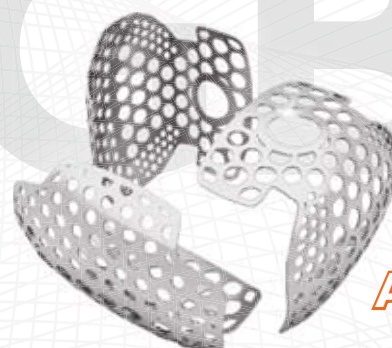


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- 09<sup>30</sup> - 10<sup>00</sup> Uhr (Englisch)
- 10<sup>00</sup> - 10<sup>30</sup> Uhr (Deutsch)
- 14<sup>00</sup> - 14<sup>30</sup> Uhr (Englisch)
- 15<sup>00</sup> - 15<sup>30</sup> Uhr (Deutsch)

Stand  
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Halle  
**4.1**

**Hands-on Möglichkeiten**  
Implantate, GBR und  
Sinusbodenelevation  
täglich von 09<sup>00</sup>-18<sup>00</sup> Uhr

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Intelligente Augmentationstechnik mit dem OSSTEM SMARTbuilder™ vorgestellt von  
Dr. med. Stefan Steckeler vom 13.-15.03. täglich 10<sup>30</sup> bis 11<sup>00</sup> Uhr sowie 15<sup>30</sup> bis 16<sup>00</sup> Uhr.

Firma Company	Halle Hall	Stand Booth
Climo A/S	10.2	S021
CMS Dental ApS	10.1	J050 K059 B068 C069
CNR EKSPLO FUARCILIK A.S.	11.2	P049
Coalition Technology Co., Ltd.	04.1	B010
Codent Technical Industrial Corporation Limited.	04.1	B018
CoHo Technology Co., Ltd.	04.1	C013
Colgate-Palmolive GmbH	11.3	E081
Coltène Whaledent GmbH + Co. KG	10.2	R010 S019
Columbia Dentoform®	04.2	L079 K078
Comcotec Messtechnik GmbH	04.1	B039
comforties.de	11.3	D037
COMINOX s.r.l.	10.1	J061
Projekt COMMANDD TU-Darmstadt (Institute PTW,DiK)	03.1	L008 M009
ComMed Technologies Co., Ltd.	03.1	J060 K061
Commic International Ltd.	11.1	B060
CompuGroup Medical Dentalsysteme GmbH	11.1	F050 H051
Computer konkret AG dental Software	11.1	A031
Computer Forum GmbH	11.1	E061
Concept Laser GmbH	10.1	E062
CONEXAO Sistemas de Próteses Ltda	11.3	B040 C041
CONFEZIONI CAPPELLO SRL	02.2	A058
Confi-Dental	04.2	G060
Consult-Pro/DHC Marketing Inc.	04.2	M069
CONSYS GmbH	11.1	B049
ContacEZ, LLC	04.2	J062
The Cool Tool GmbH	03.2	B049
Copega s.r.l.	02.2	C020
Core 3d centres International N.V.	04.1	D030
CORIDENT Company Co., Ltd.	02.2	B060 C069
Corix Medical Systems	04.2	M077
CORNERSTONE CORPORATION	02.2	E078
CORPUS VAC Vacuum Systems & Equipment Co. Ltd.	11.1	J030
CORTEX Dental Implants Industries Ltd.	03.2	E060 F061
CoSi Elektronik GmbH	03.1	M031
Cosmedent, Inc.	04.2	L029
Cosmotology B.V.	03.1	J074
Cowellmedi Co., Ltd.	03.2	C055
COXO Medical Instrument Co., Ltd.	11.3	G078
CRANBERRY (M) SDN. BHD.	02.2	D030 E031
CRE'ART Collection Sarl by Christian Ferrari	02.2	G031
creamed GmbH & Co. Produktions- und Handels KG	03.1	H049
createch medical, SL	04.2	J020
Creation Willi Geller International GmbH	11.2	O010 P011
Cristofoli Medical Equipment Co.	11.3	J080
CRISTOFOLI EQUIPAMENTOS de Biosseguranca Ltda.	11.3	D054
CROSS PROTECTION (M) SDN. BHD.	11.3	G060
Crosstech Diamond Tools Company Ltd.	02.2	C058
Crosstex International, Inc.	04.2	L058
CSM Implant	02.2	D051
CSN INDUSTRIE SRL	10.2	U019
CTL – Centre of Laser Technology- Lasersystems Ltd.	03.2	F018
CTOMA PUBLIC JOINT- STOCK-COMPANY	03.1	K030
Cumdente GmbH	10.2	N038 O039
Curaden GmbH (Schweiz)	10.2	V032
CustomAir®	04.2	L079 K078
Cybermed Inc.	02.2	A008

**D**

d-nt-innovation GmbH	03.2	D050 E051
D-TEC AB	03.2	G018
D.E.N.T. GmbH	11.1	G037

Firma Company	Halle Hall	Stand Booth
D.S.E.	03.2	B079
da Vinci Künstlerpinselwerk DEFET GmbH	03.1	J038
DABIATLANTE S/A – Ind. Med. Odontológica	11.3 11.1	C055 H038 J039
DACH Schutzbekleidung GmbH & Co. KG	02.2	E050
Dacotan LTD	10.1	A052a
Daddy D Pro, Inc.	04.2	K046
Dae Yang Dentech Co., Ltd.	03.2	A071
DAE YOUNG Precision Company	04.1	A061
DAHE Dental System Co. Ltd.	02.2	F060 G069
DAISY Akademie + Verlag GmbH	11.2	S009
DAMPSOFT Software Vertrieb GmbH	11.2	O020
DANVILLE MATERIALS INC.	10.2	T060
Dany BMT Co., Ltd.	03.2	C075
DATAMED Computerservice Ltd.	03.2	D061
DATEXT Beratungsgesellschaft für Daten- und Textverarbeitung mbH	11.2	P021
DATRON AG	11.1	B030 C039 03.2 A030 C039 03.1 L008 M009 H018 J019
DB Orthodontics Limited	04.2	M030 N031
DC International	04.2	K066
DCI International	04.2	J068 K069
DCI-Dental Consulting GmbH	10.1	J048
DCM GmbH	11.1	D008
CARLO DE GIORGI SRL	11.2	Q039
De Marco s.r.l.	11.2	S044
DECUS Dekorationsartikel	11.3	E039
Dedeco International, Inc.	04.2	H058 J059
DEEPAK PRODUCTS	10.2	S058
DEFLEX (NUXEN S.R.L.)	11.2	N039
DEGOS Dental GmbH	04.1	B078
DEGRAMED GmbH	02.2	A078
DequDent GmbH	11.2	K040 L049 L040 M049 K049 K050 L051 K039 K041
DEKEMA Dental-Keramiköfen GmbH	10.2	V010
Delcam Plc	03.1	K040 L041
Germany Delma Medical Supplies (HK) International Ltd.	03.2	E061
DeltaMed GmbH	04.2	L029
Demed e.K.	10.2	M034
DEMEDA GmbH Praxiseinrichtungen	10.2	U058 V059
Dena Puya Ltd.	02.2	C059
Denbur, Inc.	04.2	L067
Far East Group/Denco Medical Co., Ltd.	02.2	F075
Dendia GmbH	02.2	F010
DENFOTEX RESEARCH Ltd.	10.1	K030
Denimed S.A.	11.2	N037
Denken Co., Ltd.	04.1	C066
DENLUX A/S - Dental Electronic A/S	11.1	J040
DenMat Holdings, LLC	04.2	J040
DENS GmbH	11.1	A029
Denseo GmbH	03.1	H061
DENSTAR CO.	03.2 02.2	C079 B060 C069 F079
Densys3d	02.2	F079
dent a pharm Produktionsgesellschaft mbH	03.2	A020 C029
dent-e-con e.K.	10.2	P032
Dent-Medi-tech UG & Co.KG	03.1	H011
Dentack Implants Ltd.	04.1	B060
Dentaco GmbH & Co. KG	10.2	S069
Den.Tag Srl	11.2	N059
DENTAID GmbH	11.3	J030 K039

Firma Company	Halle Hall	Stand Booth
DENTAID S.L.	11.3	J030 K039
dentAkrift Dentalservice + Einrichtungen	11.1	J049
ÖZEL ÖZENDENTAL DIS. PROTEZ LAB. LTD. STI.	10.2	P064
Dental A2Z LIMITED	03.2	E018 F019
Dental Balance GmbH	10.2	V025
Dental Burs USA	04.2	L047
DENTAL DEVICES	03.1	K039
Dental Direkt Handels GmbH	03.1	H030 J039
DENTAL FILM s.r.l.	11.3	B041
DENTAL FLEX ITALIA S.A.S.	11.3	D033
DENTAL HI TEC SARL	11.2	L052
Dental International b.v.	11.1	E059
Dental Laboratory Milling Supplies	03.1	J071
DENTAL LINE LTD	10.2	N044
DENTAL LOW COST	03.2	A015
DENTAL MARKET s.r.l.	10.1	K068
Dental Nanotechnology Limited	02.2	E041
Dental Online College GmbH	11.1	E008 F009
DENTAL PLANET Di Barozzini Marco & C. SAS	02.2	C055
Dental Plus Co., Ltd.	03.1	H080
Dental Products of India... A division of the BBTCL	10.1	K060
Dental Products Report Advanstar Communications Inc.	10.2	M056
Dental Saving Club	02.2	G039
DSH Dental Service Hamburg	03.1	H050 J053
Dental South China International Expo	11.2	S050
Dental Technologies, Inc.	04.2	J051
Dental Tribune International GmbH	04.1	D064 F065
Dental USA, Inc.	04.2	M052
Dental Wings Inc.	04.2	J030 L039
DENTAL WORLD srl	11.1	H059
DENTAL X S.p.A.	10.1	G058 H059
DENTAL-EXPO Russia JSC „DE-5“	Passage	V006
Dental-master.ge ltd	02.2	F058
Dental-Moving	02.2	E064
Dental-S Mariusz Szajda	10.2	O058
dentalArt S.p.A.	10.1	D050 E051
Dentale Kompetenz Birgit Stührenberg GmbH & Co. KG	03.1	J021
DentalEZ®	04.2	L079 K078
DentalEZ Group	04.2	L079 K078
C.I.E. Dentalfarm Srl	03.1	J008
Dentalimpex-Stockenhuber GmbH	11.1	C008 D009
Dentall	03.2	C065
dentalline GmbH & Co. KG	03.1	H060
DENTALMASTER	02.2	B072
DENTALMATIC	11.1	F058
Dentalmind AB	02.2	D061
Dentalplus GmbH	03.1	H070
Dentalpoint Germany GmbH	04.1	F032
DentalSchool GmbH	10.2	N038 O039
dentalSPHERE.com (IPS – Oliver Wesner – Individual Project Solutions)	11.1	A051
Dentalstore & Edizioni Lucisano S.r.l.	10.2	U024
Dentaltown/Farran Media, LLC	04.2	K043
dentaltrade GmbH & Co. KG	11.2	P031
Dentaluck Medical Equipment	02.2	C051
Dentamerica, Inc.	04.2	G071
DENTAS SELIMOVIC Midhat S.P.	03.1	J061
Dentasia(Europe) co., ltd	02.2	A049
DENTATUS AB	10.1	J050 K059
DENTAURUM GmbH & Co. KG	10.1	F010 E010 F011
DENTAURUM IMPLANTS GmbH	10.1	F014
Dentca	04.2	N055
Dentco Dental Dis Protez Laboratuvari	03.1	L048
DENTECH Dental Instruments Manufacturer & Trade Deposit Co.	04.2	G008

Firma Company	Halle Hall	Stand Booth
DENTECH CORPORATION	10.2	V019
Dentech China 2013 Shanghai UBM- Showstar Exhibition Service Co., Ltd.	04.1	E008
Denteduco – Modelos Dentários Unipessoal, Lda	02.2	F082
Dentegris Deutschland GmbH	04.2	G030
Dentex Dental Industrial Corp.	11.1	H054
DENTFLEX INDÚSTRIA E COMÉRCIO LTDA.	11.3	E051
DENTIMA Russian Dental Exhibition	11.3	E075
Dentinno Ceradure Products b.v.	03.2	G078
DENTIS Co., Ltd.	11.3	E050 F059
DENTIUM Co., Ltd.	04.1	F060
DENTIXsoft ITL Systemhaus für Datentechnik GmbH	11.2	S020
Dentkist Inc.	03.2	B066
DentLight, Inc.	04.2	K076
Dentmak Dis Hekimliği Tibbi Cihazları San. Ve Tic. Ltd. Sti	03.1	M044
Dentmate Technology Co., Ltd.	04.1	D100
DENTOFLEX COM. DE MAT. ODONTOLOGICOS LTDA	11.3	D058
dentona AG	11.1	H010 J011
DENTONICS, INC.	10.2	V044
DENTOPLAST s.a.r.l.	04.1	C095
Dentorium	04.2	K070 L071
DENTOZONE CORPORATION	03.2 02.2	C058 D049
Dentrade International e.K.	10.1	H030
Dentronic	11.2	N048 O049
Dentscler – Industry of Dental Equipments	11.3	A058
DENTSPLY Professional Division	11.2	K029
DENTSPLY DeTrey GmbH	11.2	L020 M021 K018 L019 K029 L018 M019 K020 L021
DENTSPLY GAC	11.2	K039
DENTSPLY Implants Manufacturing GmbH	11.2	K030 L039 L030 M039 K035 L028 M029 K028 L029
DENTSPLY Maillefer	11.2	K020 L021 L020 M021
DENTSPLY RAINTREE Essix Glenroe	11.2	K041
DENTSPLY Rinn	11.2	K018 L019
Denttito, Inc.	04.2	J069
DEPELER S.A.	10.2	S018
Depro AB	02.2	D065
DERBY DENTAL	10.1	D048 E049
Derig Industria E Comercio Ltda	11.3	B050
Deringer-Ney, Inc.	04.1	C081
DERNODENTAL S.R.L.	03.2	D048 E049
Desgram di Consonni Claudio	04.1	B094
DESS Dental Smart Solutions GmbH	02.2	A068
DETAX GmbH & Co. KG	10.2	N031
Detes (Gd) Medical Supplies Co, Ltd.	02.2	F070 G079
Deutsch Implant S.R.L.	02.2	C073
Deutsche Aurumed Edelmetalle GmbH	04.1	F051
Deutsche Gesellschaft für Zahn-, Mund- und Kieferheilkunde (DGZMK)	11.2	O050 P059
Deutscher Ärzte-Verlag GmbH	11.1	E008 F009 F008
DZV Deutscher Zahnärzte Verband e. V.	11.1	F060
DEVELOPMENT & TECHNOLOGY OF DENTAL SYSTEMS, S.L.	03.1	M011

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Firma Company	Halle Hall	Stand Booth
devedem GmbH	10.1	A028 B029
DEXCEL Pharma GmbH	11.3	J039
DEXCOWIN CO., LTD.	03.1	M061
DFL INDÚSTRIA E COMÉRCIO S/A	11.1	J010
DFS-DIAMON GmbH	11.1	G011
Deutsche Gesellschaft für Implantologie im Zahn-, Mund- und Kieferbereich e.V.	04.2	N021
DGOI e.V. Deutsche Gesellschaft für Orale Implantologie	04.1	A100 A079b
DGZI e.V. – Deutsche Gesellschaft für Zahnärztliche Implantologie e.V.	04.1	D053
Dharma Reserach, Inc.	02.2	B081
DiaDent Group International	11.3	B078
Dialom Diamond Tools Ltd.	10.1	A041
DIAMIR S.r.l.	11.2	S048
DIASWISS S.A.	04.1	D059
DIDHAPTIC SAS	02.2	E064
DigiMed Corporation	03.2	B065
digital dental solutions gmbh	03.1	M018
Digital Dental	03.1	J071
Digital Doc, Inc.	04.2	K040
DIGITAL PROCESS LTD.	03.1	J044
DING YUAN DENTAL LAB., LTD	11.1	B039
DIO Implant	04.1	A030
DIOP GmbH	10.1	G010 H019
dios Daten-Informations- und Organisationssysteme GmbH	03.1	H041
DIPLOMAT DENTAL s.r.o.	10.2	U068 V069
Gesellschaft für Funktions- diagnostik DIR System mbH & Co. KG	11.3	F030 G039
DIRECTA AB	10.1	H068
UGURLU DISCILIK GIDA ENDUSTRI & INSAAT URUNLERI SAN.TIC.LTD. STI	03.2	C070

Firma Company	Halle Hall	Stand Booth
Discus Dental	11.3	G010 J019
Disposable Technology B.V.	10.1	K032
DISPOTECH SRL	10.1	A061
DK MUNGYO CORPORATION	11.3	F070
DKL CHAIRS GmbH	11.1	B040 C049
DMAX Co.,Ltd.	02.2	E083
DMC-Cologne GmbH & Co. KG	04.2	J018
DMC Equipamentos Ltda	11.3	C058
DMEGA Co., Ltd.	03.2	A060
DMETEC Co., Ltd.	03.2	A063
DMG Chemisch-Pharmazeutische Fabrik GmbH	10.1	H040 J041
DMI Innovative Medical Technology LTD	02.2	B069
DMP LTD	10.1	F069
DMRC Dental	04.2	J053
DMT DENTAL MEDICAL TECHNOLOGIES SRL	10.1	F058
DOCERAM Medical Ceramics GmbH	03.2	E009
Shanghai Dochem Industries Co., Ltd.	11.2	P060
Doctor & Doctors International	03.2	F070 G079
Doctor Smile by LAMBDA SpA	11.1	J018
doctorseyes GmbH	11.2	N051
DoowonID	03.2	A078
DoriDent Dr. Hirschberg GmbH Dentalwarenerzeugung	11.3	A082
DOT GmbH	11.2	R033
Dr. Collins	04.2	N057
Dr. Hinz KFO-Labor	11.2	N048 O049
Drendel + Zwieling DIAMANT GmbH	10.1	K041
Dreve Dentamid GmbH	10.2	T030 U031
VK Driller Equipamentos Eléctricos Ltda	11.3	E059

Firma Company	Halle Hall	Stand Booth
Drive Implants	04.1	B029
DRS International GmbH	04.1	D058
DRSK Development AB	02.2	G070
DSP Industrial Ltda.	11.3	B058
DT&SHOP GmbH	11.1	B030 C039
DUMONT INSTRUMENTS & CO SA	10.2	T059
Dunamis Dental Co., LTD	03.2	B077
DÜRR DENTAL AG	10.1	F030 G039 F040 G041 E030 F039
Dux B.V. (Dux Dental)	04.1	A058
DWS s.r.l.	04.1	A069
DXM Co., Ltd.	03.2	C050
DYAMACH S.r.l.	03.1	K041
DYM Foshan duoyimei Medical Instrument Co., Ltd	02.2	G054
Dyna Dental Engineering B.V.	10.2	S038 T039
DYNA-MESS Prüfsysteme GmbH	04.1	F011
<b>E</b>		
E. LINE SRL	03.2	E050
E.C. Moore Company, Inc.	04.2	M076 N077
E.G.S. s.r.l.	04.1	A013
East Rich Enterprise Co., Ltd.	03.1	L071
easy C.M.D. GmbH	11.2	S022
easy implant	02.2	G050
EASY TRADING	02.2	G078
EASYFOR S.r.l.	11.3	K060
EasyOil	02.2	C008
Ebiimplant	03.2	B055
ebro Electronic GmbH	11.2	L061

Firma Company	Halle Hall	Stand Booth
ECLAIRE Srl	03.2	F058
ECS srl	02.2	C028
EDARREDO s.r.l.	11.2	R039
Edelweiss Dentistry Products GmbH	11.3	K010 L019
EDEN Ltd.	02.2	G055
EDENTA AG	10.2	O068 P069
Edison Medical - C.T.I.	10.1	A055
EFFEGI BREGA S.R.L.	11.1	J051
EGmedical S.r.l.	02.2	A010
Egner Dental-Manufaktur Inh. Joachim Egner e.K.	03.2	A041
E.H.P. Hygiene Produkte GmbH	03.2	G048
EICKHORST & Co. KG	10.2	S040 T041
Eisenbacher Dentalwaren ED GmbH	03.2	A030 C039
EKLER SARL	11.2	R048
EKOM spol. s.r.o.	11.1	D059
EKOM-AIR GmbH	11.1	D059
ELDAN D.Dziura, E. Burkiewicz SD.J. OHG	02.2	D048
ELETTROLASER s.r.l.	11.1	G039
elexion AG	10.1	J030 K031
Elite Computer Italia s.r.l.	10.1	A068
Elma Hans Schmidbauer GmbH & Co. KG	10.2	S042
Elsner Dent Kft.	03.1	L010
ELSODENT	10.2	M058
EM European Manufacturing GmbH	03.2	F068
EMMI Ultrasonic GmbH	11.3	G038 H039
EMS Corporation	10.2	L010 M019
EMS Electro Medical Systems GmbH	10.2	L010 M019 L015 L013 L008
EMS Electro Medical Systems Espana SL	10.2	L010 M019
EMS France Sarl	10.2	L010 M019
EMS Italia S.P.A.	10.2	L010 M019
EMS Electro Medical Systems S.A.	10.2	L010 M019
EMVAX KG	11.3	F040 G049
EN MediPart (Asia Pacific) Sdn Bhd No.8-D, Galeri Empire Jalan Empayar	10.2	R038 S039
ENLIGHTEN SMILES LIMITED	11.3	B080
ENTECH AB	02.2	F009
envisionTEC GmbH	04.2	L019
EOS GmbH Electro Optical Systems	04.1	F050
EPED Inc.	04.1	C011
EPSI N.V.	02.2	F009
ERAYLAR AKRILIK SAN. INS. TAAH. VE DIS TIC. A.S.	11.2	Q044
Erika Carmel	10.1	A053
ERIO s.r.l.	10.1	B048
ERKODENT Erich Kopp GmbH	10.2	S010 T011
ERMETAL TIBBI CIHAZ PAZARLAMA IMALAT SANAYI IC VE DIS TICARET LIMITED SIRKETI	11.2	S032
Erskine Products Pty. Ltd.	11.3	L010
	02.2	A039
Esacrom S.r.l.	10.1	F058
Esbjerg Dentallaboratorium ApS	04.2	N101
Esro AG	10.2	L061
ESSEMME Components s.r.l.	03.2	F008
ESSEN KOREA Corp.	03.2	G055
Essence Dental	11.3	C051
Essential Dental System, Inc.	04.2	L069
ETI Dental Industries	10.1	A050
EUKAMED e. K.	03.1	M079
Eur-Med Slovakia GmbH	10.1	H058 J059
EUROCEM s.r.l.	11.1	C051
Eurocom di Poletto Renato	11.1	C051
EUROCOMPRESS di Garofalo Rag. Giuseppe	11.3	C020 D029

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ISTANBUL

**3-6 APRIL 2014**

**12<sup>th</sup> ISTANBUL ORAL AND DENTAL HEALTH  
APPARATUS AND EQUIPMENT EXHIBITION  
12. INTERNATIONALE DENTALMESSE - ISTANBUL**

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Firma Company	Halle Hall	Stand Booth
EURONDA S.p.A.	10.1	A033 A030 B031
EURONDA Deutschland GmbH	10.1	A030 B031
EUROPRESS S.r.l.	11.3	B081
EUROTEKNIKA	11.2	R050
EVE Ernst Vetter GmbH	10.1	F043 F041
EVIDENT GmbH	11.2	O030
evolun Ltd.	11.3	G068 H069
Evoply	03.2	B073
Evotuga - Produção e comercialização de equipamentos, Lda	02.2	G080
EXACTUS sp.j.	11.1	A027
EXAKT Advanced Technologies GmbH	02.2	B070
ExamVision ApS	10.2	V048
Excellence 25 Marketing GbR	10.2	V025 T038 U039
M/s EXLIN PVT LTD	02.2	A080
exocad GmbH	04.2	L010
Expert Dental Laboratory Ltd.	11.2	P031
<b>F</b>		
F.M.D. s.r.l.	10.2	V060
F1 Dentalsysteme GmbH	10.2	U050 V051
F1-Dentalsysteme Deutschland GmbH	10.2	U050 V051
Fairfield Orthodontics, LLC	04.2	L060 M061
FairImplant GmbH	04.1	C050 D051
Fakhr Sina Co., Ltd.	04.2	J029
Falcon Surgical Co. (Pvt.) Ltd.	11.1	E058
FAMI Ltd.	11.3	A050
FAPRODENT sarl	11.2	Q049
Far East Group/ Junwei Medical Co., Ltd.	02.2	A015
Far East Group/Upcera Co., Ltd.	11.1	H060
FARO S.p.A.	10.2	S060
FDI - World Dental Federation	Passage	V006
FDZ GmbH	11.1	F051
Feguramed GmbH	10.2	P034
FEPPD VZW	11.1	F029
FFDM-Pneumat	11.1	D029
DentsCare Ltda (FGM Dental Products)	03.2	C010
FIBU-doc Praxismanagement GmbH	11.1	F060
FIDE (Fédération de l'Industrie Dentaire en Europe) V003b	Passage	
FILHOL DENTAL	10.2	V068
FIMET OY	10.2	U050 V051
FINE SINTER CO., LTD.	11.2	R061
FINE VISION ELECTRONICS CO., LTD.	11.3	E035
FINNDENT Deutschland GmbH	03.1	H050 J053
Finndent OY	03.1	H050 J053
FINO GmbH	11.1	B030 C039
	04.2	K088 L089
FIS Inc.	02.2	C071
Fittydent International GmbH	11.3	K038
FKG Dentaire SA	10.2	N058
Flight Dental Systems	04.2	M056
Floridaprobe Thomas Wientjens	11.2	Q034
Flow Dental Corporation	04.2	M059
Michael Flussfisch GmbH	04.1	C101
FMZ Feinmechanisches Zentrum GmbH	03.2	F053
FOLLOW-ME! TECHNOLOGY SYSTEMS GmbH	03.1	L008 M009 H018 J019
FOMA BOHEMIA spol. s.r.o. (Ltd)	10.1	K067
Fomed Industries Inc.	11.3	L084
FONA Dental s.r.o.	10.1	H071
FOREST DENTAL PRODUCTS INC.	10.1	A069
FORESTADENT Bernhard Förster GmbH	10.2	R061
Forum Engineering Technologies (96) Ltd.	10.1	B051

Firma Company	Halle Hall	Stand Booth
Foshan Anle Medical Apparatus Co., Ltd.	04.1	B041
FOSHAN CHUANGXIN MEDICAL APPARATUS CO.,LTD	11.3	J088
Foshan Core Deep Medical Apparatus Co., Ltd.	02.2	D069
Foshan Joinchamp Medical Device Co., Ltd.	02.2	D068
FOSHAN KEJU MEDICAL APPARATUS CO., LTD	02.2	E073
Foshan Nanhai Ziann Medical Apparatus Co., Ltd.	11.3	L080
Foshan Suntem Medical Apparatus Co., Ltd.	11.3	K078
FOSHAN VENUS MEDICAL EQUIPMENT COMPANY LIMITED	02.2	D070
Foshan Yoboshi Medical Equipment Co., Ltd.	02.2	G006
Fotolandia Dental	03.1	L025
FOTONA d.d.	10.2	M050
Four D Rubber	10.2	R038 S039
Frank Dental GmbH	04.1	B040
FRANK OPTIC PRODUCTS GmbH Optische Technologien	11.1	E010
Franken GmbH & Co. KG Fabrik für Präzisionswerkzeuge	03.1	H010 J011
frasaco GmbH	11.2	M020 N021
Freier Verband Deutscher Zahnärzte e.V.	Passage	V001
Freuding Labors GmbH dental + medical	10.2	L020 M029
FTB Filtertechnik Brockmann GmbH & Co. KG	10.2	L032
FUNDAMENTAL SCHULUNGS- ZENTRUM Arnold + Osten KG	11.3	F030 G039
FUSHIMA, S.L.	11.3	J060 K061
Fussen Technology Co., Ltd.	04.1	B062
Futudent	11.3	A068
Futura-Dent GmbH	02.2	A030
FV2000 Surgical Instruments de Veronique Fortuna	02.2	C048
<b>G</b>		
G & Z Instrumente GmbH	03.2	E030 F031
G&H ORTHODONTICS	03.2	E070 F071
G&M Tech Inc.	02.2	G049
GABA GmbH	11.3	K020 L029 E081
GABA International AG	11.3	K020 L029
GACD S.A.S.	11.2	S051
Gacela S.R.L.	11.2	N036
GALIT	03.1	H008
GALLONI ASEG S.P.A.	11.2	L050
Gamain LEGROS S.A.S.	02.2	D054
GAMMA Medizinisch- wissenschaftl. Fortbildungs GmbH	04.2	G051
Josef Ganter Feinmechanik Inh. R. Müller GmbH	11.1	J012
Jiangyin Gaofeng Tools Co.	11.3	E080
GAP Research Co.	02.2	C039
GAPADENT KOREA Co., Ltd.	04.1	B041
Garda Laser SHC	10.2	L065
Garrison Dental Solutions	11.2	R055
	10.1	G068
Gate Dental Services Ltd.	02.2	C031
GC Corporation	11.2	N010 O019
GC EUROPE N.V.	11.2	O010 P011 N020 O029 N010 O019
GC Tech. Europe N.V.	11.2	N010 O019
G.Comm S.r.l.	11.2	N058
GD Service GmbH	03.2	E079
GDC Marketing	03.2	D079
GDS Korea	02.2	B060 C069

Firma Company	Halle Hall	Stand Booth
GEASS S.r.l.	03.1	J069
GEBDI Dentalproducts GmbH	04.1	A020
GEBISS.PL	03.1	L034
Gebrüder Martin GmbH & Co. KG	04.2	G028
Geefloss Corporation	03.1	K075
Geiger Edelmetalle GmbH	04.1	F051
Geistlich Pharma AG	04.2	N09 L090
Gendex Dental Systems	10.1	H010 J019
General Implants GmbH Deutschland	04.1	D050
Genimpex Srl	04.1	C093
Genoray Co., Ltd.	04.1	C098 D099
GENTILIN SRL	10.1	H043
JSC Geosoft Dent	11.3	E071
Gerhó S.p.A.	03.2	A020 C029
Gerl GmbH	10.1	J069
Germo S.p.A.	03.1	K031
Gesellschaft für dentale Forschung und Innovation mbH	10.1	H053
Gestenco International AB	04.1	C058
Getinge Infection Control AB	10.2	T066 U067
GF AgieCharmilles	03.1	H010 J011
GF Dental	04.1	C093a
GFDI mbH (Gesellschaft zur För- derung der Dental-Industrie mbH) V003a	Passage	
Gigadent Deutsche Dental GmbH	10.1	A048 B049
Gingi-Pak	10.2	R038 S039
GK Handelsplan GmbH	10.1	A045
gke GmbH	10.2	N059
GLAMSMILE	03.2	C011
GLANZ Trading & Services	03.2	G014
GlaxoSmithKline Consumer Healthcare GmbH & Co. KG	11.3	G020 J029
Glidewell Europe GmbH	03.1	H045
Global Stole A/S	02.2	B021
Global Surgical Corporation	10.2	R038 S039
GLOBAL TOP Inc.	03.2	A058
Glorious Enterprises	10.1	F050
GluStitch Inc.	03.2	E052
GNATUS EQUIPAMENTOS- MÉDICO ODONTOLÓGICOS LTDA	11.1	D040 E049
GO2cam International, SAS	03.1	L078
Golden Dental Solution	10.1	J050 K059
	03.2	G049
Goldent Hungary Ltd.	11.1	D035
GOLDQUADRAT GmbH	10.1	B040
Good Fit, Inc.	04.2	J052
Good Doctors Co., Ltd.	03.2	B050
Gramm Technik GmbH	10.1	E021
Greater New York Dental Meeting	Passage	V006
Green Implant System Technologie GmbH & Co.KG	03.2	E011
Grimberg Dentales S.A.	11.2	M032
Grüner Laser Products GmbH & Co. KG	03.2	A048
<b>H</b>		
HANDELSAGENTUR GSCHLADT	10.2	R066
Guangzhou Riton Biotech Co., Ltd	11.3	K071
Guilin Veirun Medical Technology Co., Ltd.	02.2	D077
Guilin Woodpecker Medical Instrument Co., Ltd.	11.3	B082
GULDEN MEDIZINTECHNIK e.K.	11.3	B014
GULSA TIBBI CHZ. VE MALZ. SAN. VE TIC. LTD. STI.	11.1	J055
Guner Kuyumculuk Kalip Makine Sanayi LTD. STI.	03.2	E080
HAAG-STREIT DEUTSCHLAND GmbH	10.2	U018
Hader SA	10.2	M040 N041
C. Hafner GmbH + Co. KG Gold- und Silberscheideanstalt	10.2	R011

Firma Company	Halle Hall	Stand Booth
Hager & Werken GmbH & Co. KG	11.2	P008 Q009 Q009a B050
E. HAHNENKRATT GmbH Dentale Medizintechnik	10.1	G040 H041
Karl Hammacher GmbH	10.1	C031
HANA DENTAL, LAB	02.2	G055
HANDAE CHEMICAL CO.,LTD.	03.2	B071
Handler MFG. Co., Inc.	04.2	G083
Handpiece Headquarters	04.2	M060 N069
Hangzhou ORJ Medical Instrument & Material Co., Ltd.	02.2	D071
Hangzhou Xingchen 3B Dental Instrument & Material Co., Ltd.	02.2	C078
Hangzhou Zhongrun Medical Instrument Co., Ltd.	02.2	G008
Hanil Dental Ind. Co., Ltd.	03.2	B058
Hann Ru Enterprise Co., Ltd.	03.1	L079
Hans Korea Co., Ltd.	04.1	B066
Hanse Dental GmbH	11.1	A038
Hanshin Medical Co., Ltd.	02.2	F039
Happi-Den Corporation	03.2	A065
	02.2	A040 B041
Haranni Academie Fortbildungs- zentrum für Heilberufe	11.2	N048 O049
Maschinenbau Harnisch + Rieth GmbH & Co.KG	10.1	J038 K039
Hartmetallfabrik Andreas Maier GmbH	03.1	J028 K029
G. Hartzell & Son, Inc.	04.2	J050
Harvard Dental International GmbH	10.2	R068
HARVEST DENTAL LLC	11.3	F040 G049
HASS CORP.	03.2	B067
HATHO GmbH	10.1	B023
Josef Haunstetter Sägenfabrik KG	10.2	O055
Haupt & Co. GmbH	10.1	J069
Hauschild & Co. KG	10.2	S038 T039
Hawo GmbH	10.2	S036 T037
HDI, Co.	03.2	A059
HDX CORPORATION	04.1	A021
Healing Surgical Corporation	02.2	E070 F071
Health AG (EOS Health Honorarmanagement AG)	03.2	A040 B041
Hedent GmbH	10.2	N040
Heimerle + Meule GmbH	10.1	D020
HEINE OPTOTECHNIK GmbH & Co. KG	10.2	L038
Heka Dental A/S	10.2	S029
Helago-Pharma GmbH	11.3	B049
Heliocos GmbH	04.1	B030
HELMES-Innovations	03.1	J040
Helvemed SA	10.1	J050 K059
Hema-Imex W.+S. Dörken GbR	11.1	D028 E029
Henke-Sass, Wolf GmbH	10.2	V070
Henry Schein, Inc.	04.2	M060 N069
Henry Schein Dental Deutschland GmbH	10.2	M048 N049 L040 M049
Heraeus Kulzer GmbH	10.1	B010 C019 A010 B019
Heraeus Kulzer, Inc.	10.2	R038 S039
Hexagon International (GB) Ltd.	04.1	B090a
HGEX Dentalvertriebs GmbH	10.2	V021
hnp AG	03.2	G010
HI-TEC IMPLANTS LTD	03.2	F028 G029
High Dental Korea Co.,Ltd.	03.2	C060
HILBRO INSTRUMENTS (PVT) LTD.	02.2	B018
ERNST HINRICHS GmbH	10.1	C030 D039
Dr. Hinz Dental Vertriebs- gesellschaft mbH & Co. KG	11.2	N040

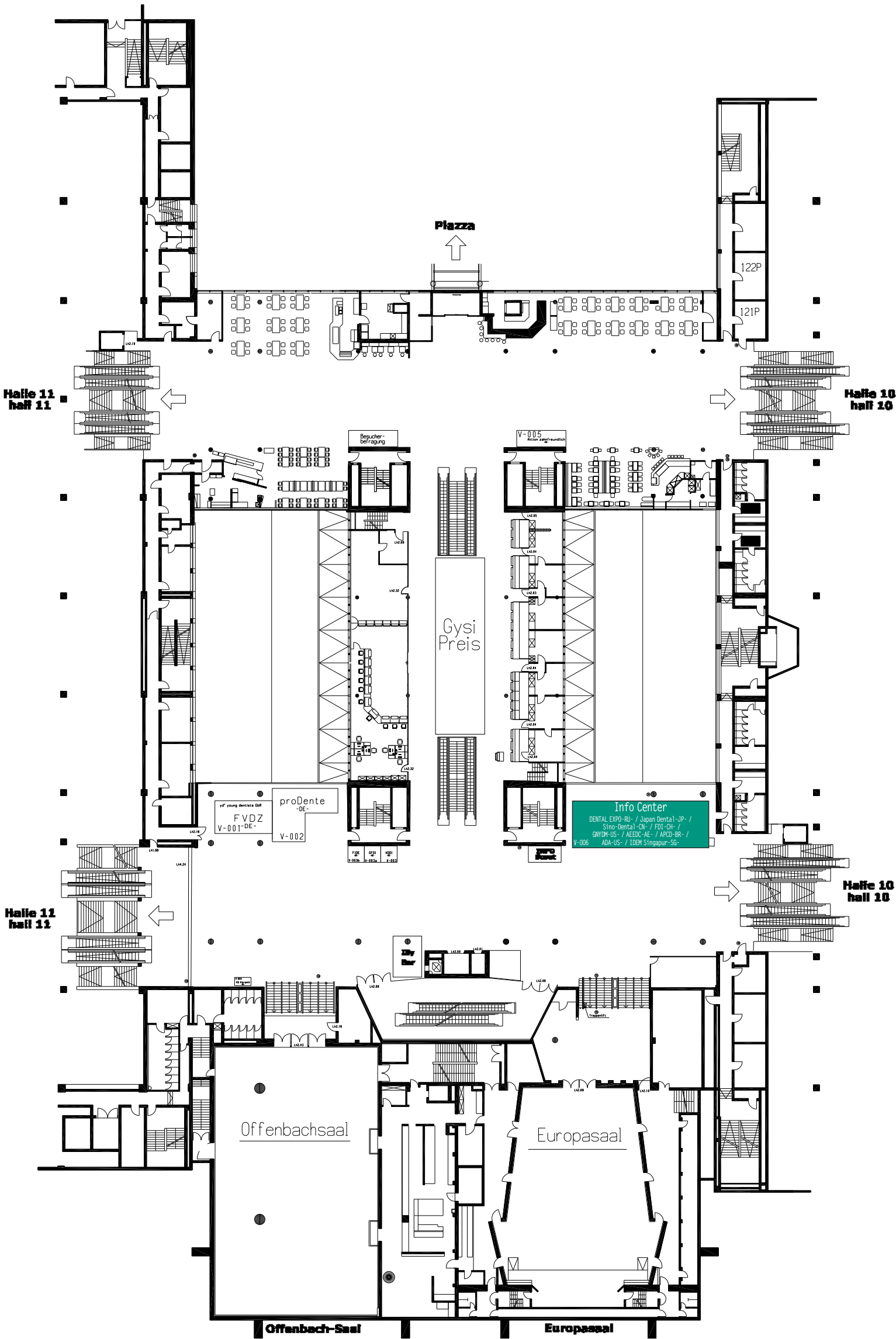
Firma Company	Halle Hall	Stand Booth
HMCE SA	03.1	H050 J053
Hoffmann Dental Manufaktur GmbH	10.1	G011
Hogies Australia Pty Ltd.	11.3	C030
Dr. Hopf GmbH & Co. KG	10.2	M008
HOPF, RINGLEB & CO. GmbH & Cie	10.2	M009
Hospimed Mfg.	04.1	B090
HRS CO., LTD.	02.2	B082
HT Co., Ltd.	11.3	H079
Hu-Friedy Mfg. Co., LLC		
Zweigniederlassung Dtl.	10.1	D040 E041
Huanghua Promise Dental	11.3	E080
HUBIT Co., Ltd.	03.2	B061
Hufschmied		
Zerspanungssysteme GmbH	03.1	M020
Huge Dental Material Co., Ltd.	02.2	E081
Humanchemie GmbH	11.3	D038
HumanTech Germany GmbH	02.2	E028
Hunan Yayi Medical Equipment Co., Ltd.	02.2	D075
Hunan Jinme Dental		
Handpiece Company Co., Ltd.	11.3	L079
Hung Chun Bio- S Co., Ltd.	04.1	C018
Hydra Dental GmbH	02.2	F008
Hygedent Inc	02.2	D073
Hygiene360 AG	10.1	B030
HYGITECH	11.2	S059
Hypodent International s.r.o.	04.1	C091a
I		
IBAG Deutschland GmbH	03.1	K028
IBS Implant Co., Ltd.	03.2	C081 G041
ic med GmbH	10.1	H051
IC Medical GmbH	11.1	H016
ICE – Agenzia per la promozione all'estero e L'Internazionalizzazione imprese italiane	10.1	B060
ICM OTOMASYON ELEKMAK. BILG.SAN. TIC. LTD. STI.	03.1	L048
Interdisciplinary Dental Education Academy – IDEA	04.2	J042
iDENT MFG. CO., LTD.	04.1	C064
I-DENT Innovations for Dentistry SA	10.1	G048
IDENTA Dental Material GmbH	10.1	A025
IMPLANTS DIFFUSION INTERNATIONAL	04.2	J009
Institut der Deutschen Zahnärzte (IDZ) mit Zentrum Zahnärztliche Qualität (ZZQ)	11.2	O050 P059
8th IFED World Congress c/o Quintessence Publishing	02.2	C068
Institut für zahnärztliche Lachgas Sedierung	11.2	M018 N019
Dr. Ihde Dental GmbH	10.2	O059
Ilk Dental	10.1	K065
Image Navigation LTD.	10.1	A049
IMAGELEVEL N.V.	11.1	J059
IMD-USA, Inc.	04.2	L070 M071
imes-icore GmbH	04.2	G041
Imetric 3D GmbH	04.2	N070
IMEX Dental und Technik GmbH	11.2	L059
IMICRYL DIS MALZEMELERI SAN. ve TIC. A.S.	11.3	E040
IMPLAMED IMMEDIATE LOADING S.R.L.	04.1	E019
Implant Direct Europe AG	10.1	J020 K029
Implant-Assistant	03.2	D080
ImPLASA Höchst GmbH	02.2	B028 C029
IMPLAY TECHNOLOGIES, LTD	03.2	A011
Integra OHG	04.2	L100
In-House Dental Art Co., Ltd.	03.2	F054
Inci Dental Tibbi Malz. San. Tic. Ltd. Sti	03.2	F040 G041
Indi Implant Systems GmbH	04.2	L008
indigodental GmbH	03.2	C041 B040
INDUSBELLO Industria De Instrumentos Odontologicos Ltda.	11.3	D059
INDUSTRIA ZINGARDI SRL	10.1	F048
Industrie Biomediche Insubri Sa	03.2	G019

Firma Company	Halle Hall	Stand Booth
Infinident Services GmbH	10.2	O010 P029
Infodent S.r.l.	04.1	B090b
Weinmann GmbH Infratronic-Solutions	10.1	B070
Inibsa Dental S.L.U.	11.2	O031
Inman Aligner Straight Talk Seminars	04.2	N101
INNO DENTAL co. Ltd.	02.2	G010
INNOBLANC GmbH	03.1	H018 J019
Innodea Co., Ltd.	02.2	B058
Innovation MediTech GmbH	10.2	U070
Fraunhofer-Institut für keramische Technologien und Systeme IKTS	03.1	L080
Institut für dentale Sedierung Dr. Frank G. Mathers	11.1	B059
Institut Straumann AG	04.2	G080 K089
Instrumentarium Dental, PaloDEx Group Oy	11.2	P050
Integra	04.2	J061
Intensiv SA	10.2	N051
INTERDENT d.o.o.	10.2	P060
INTERMED S.A.	02.2	F028
International Association for Orthodontics	04.2	L066
Intra-Lock International, Inc.	04.2	N048
Invivio Biomaterial Solutions Ltd.	04.1	D018
IONYX SA	11.1	C053
IP DIVISION GmbH	11.1	H020
Implant Protesis Dental SLU	04.2	N011
IPPI SRL	03.1	K021
IRIDE INTERNATIONAL s.r.l.	10.1	H048
Irvick techn. GmbH	02.2	A061
Irvick technologies Ltd.	02.2	A061
OOO. Irvick-RUS	02.2	A061
Isolite Systems	04.2	L049
ISOMED S.r.L	04.1	D102
The Israel Export & International Cooperation Institute	10.1	B057
ITENA CLINICAL	11.2	R058
ITI International Team for Implantology	04.2	K100
ITL Dental Corporation	04.2	L078
ITS Italy	03.2	F008
Ivoclar Vivadent AG	11.3	B030 C039 B020 C029 A030 B039 A020 B029 A009
Ivoclar Vivadent GmbH	11.3	B030 C039
iwell Milling Centre Co., Ltd.	04.2	N078
J		
J+K Chirurgische Instrumente GmbH	10.1	K061
J.J. ORTHODONTICS -India	03.1	L039
JADENT microscopes and more e.K.	10.2	M034
Jaintek Co, Ltd.	03.2	B069
Jakobi Dental Instruments	11.1	D031
Japan Dental Supply Corp.	11.3	F035
Japan Dental Trade Association	Passage	V006
Jeder GmbH	03.2	F064
Jensen Dental	10.2	N048 O049
JIANGSU DYNAMIC MEDICAL TECHNOLOGY CO.,LTD.	11.3	J090
Jiaozuo Just Medical Devices Co., Ltd.	11.3	L091
Shenzhen Jiayuanmei Dental Lab Co., Ltd.	11.1	H060
Jinguang Electronic Appliances Co., Ltd.	02.2	F070 G079
Jini Dental	03.2	D055
Jiscop Co., Ltd.	03.2	C064
JIXIANG CERAMIC INDUSTRY CO., LTD	11.3	K089
JJGC IND. E COMERCIO DE MATERIAIS DENTARIOS SA.	11.1	D050
Joeltech	03.2	C063
JOHNSON & JOHNSON GmbH	11.3	G030
Joident Group Ltd.	02.2	F060 G069
JongBo International	03.2	B081

Firma Company	Halle Hall	Stand Booth
Jörg & Sohn GmbH	10.1	A020 B021
JOTA AG	11.1	H030 J031
JS DENTAL	10.1	J050 K059
JTC Fullident SA	10.2	P068
Justi	04.2	K053
JUVORA LTD	04.1	D018
JW Care Co.	03.1	J078
Jyoti Ceramic GmbH	03.1	M021
K		
K.S.I.-Bauer-Schraube GmbH	10.2	S046
Kaesar Kompressoren AG	10.2	R035
KALABHAI KARSON PVT. LTD.	04.1	F049
KALTOPLAST	10.1	D048 E049
KAMED	11.3	D070
Kamemizu Chemical Industry Co., Ltd.	04.1	C072
KANIEDENTA GmbH & Co. KG Dentalmedizinische Erzeugnisse	10.2	T050 U051
Kappler Med+Org GmbH	11.1	G008
Karl Kaps GmbH & Co.KG	10.1	C070
KARGI SAGLIK HIZMETLERI LIMITED, CORPORATION	03.2	E068 F069
KARNASCH Professional Tools GmbH	10.2	T062
KASIOS	03.2	E071
Kassenzahnärztliche Bundesvereinigung Körperschaft des öffentlichen Rechts	11.2	O050 P059
KaVo Dental GmbH	10.1	K020 K010 K009 J020 K029 J010 K019 H020 J029 H008 H010 J019
Kea Software GmbH	04.2	M020
KEELER LTD	02.2	A081
KEMAL DIS PROTEZ Sag. Urun. San. Tic. Ltd. Sti.	02.2	E030
KEMDENT ASSOCIATED DENTAL PRODUCTS LTD	04.2	M028 N029
KENDA AG	10.2	S028 T029
Kentzler-Kaschner Dental GmbH	10.2	O041
KERAMAT S.L.	11.2	N030
JALE PEKDEMIR KERAMOS SERAMIK Kerator Overdenture Attachment System (Daekwang I.D.M.)	03.2	D051
KEROX Ltd.	03.1	M080
KerrHawe SA	10.1	J010 K019
Kettenbach GmbH & Co.KG	10.2	O030 P031
Keystone Industries GmbH	10.2	S058
Keystone Industries	10.2	S058
Keystone Dental GmbH	11.1	A050
KITVIEW	03.1	M008
Klasse 4 Dental GmbH	11.1	D020 E021
Helmut Klingel GmbH CNC-Zerspanung	04.1	F030
KLS Martin Group – Gebr. Martin GmbH & Co. KG	04.2	G028
Koelnmesse Pte. Ltd.	Passage	V006
KMD PRECISION EUROPA, S.L.	11.1	E060
KMG (Ku Myung Global)	02.2	F059
KNOWMEDICAL SRL	03.1	M070
Kohdent Roland Kohler Medizintechnik GmbH & Co. KG	10.2	L029
Komet Dental Gebr. Brasseler GmbH & Co. KG	04.1	A080 B089 A078 B079
KDTA Korean Dental Trade Association	03.2	A079
Korr Dental Geräte Technik GbR	02.2	D069 D068
KOSAKA DENTAL SUPPLY CO., LTD.	11.3	E048
Kreussler & Co. GmbH	10.2	M038

Firma Company	Halle Hall	Stand Booth
Kudos International Holdings Limited	04.2	M039
Daniel Kürten GmbH & Co.KG	10.1	E038
KURARAY EUROPE GmbH	11.3	D030 E031 D020 E029 D010 E019
Kuss Dental S.L.	03.1	M011
L		
L&R Manufacturing Company	02.2	B020 C021
L.M. PIANOTTI s.r.l.	11.3	B010
Breukhoven b.v. Labomed Europe	02.2	A069
LABOSHOP GmbH	04.2	K088 L089
LABOX - VIA Londra S.A.	11.2	N034
Lachgasgeräte TLS med-sedation GmbH	11.2	M018 N019
Lactona Europe B.V.	11.3	H049
LAMBDA SpA	11.1	J018
LAMBDA Laser Productos y Equipos Medicos S.L.	02.2	B031
Lampert Werktechnik GmbH	11.1	B030 C039
Lancer Orthodontics	04.2	N058
Lang Dental Mfg. Co., Inc.	04.2	K051
EMIL LANGE Zahnbohrerfabrik e.K.	10.2	S050
Jan Langner Laboratorium	10.1	H060
LARADO Medizinische Prüftechnik GmbH & Co.KG	03.1	M031
LARES RESEARCH	04.2	H069
LARIDENT S.R.L.	11.1	F014
LASAK Ltd.	03.2	E048
Laschal Surgical Instruments, Inc.	04.2	K057
LASCOD S.p.A.	10.1	D068 E069
Laser Dental	11.3	H065
Laserdenta GmbH	04.2	K080 L081
LASERVISION GmbH & Co. KG	10.2	L045
lasotronix	03.1	J059
Latin-dent oHG	02.2	G024
LAXMI DENTAL EXPORT PRIVATE LIMITED	04.2	M042 N043
LayerWise NV	04.1	D011
LEADER ITALIA s.r.l.	10.2	U019
Leadfeeders	03.2	C011
lege artis Pharma GmbH + Co.KG	11.2	Q011
LEGOR GROUP SpA	03.1	M051
Otto Leibinger GmbH	04.2	G100
Leica Mikrosysteme GmbH	10.1	H020 J029
Le-IS Stahlmöbel GmbH	11.2	L058
LEONE S.p.a.	04.1	A068
LERCHER GmbH & Co. KG	11.1	B008
Licefa Kunststoffverarbeitung GmbH & Co. KG	10.2	U014
lichttechnik rolf meier	03.2	E044
LINEA TAC S.R.L.	10.1	K062
LinuDent	11.3	G008 H009
LM-Instruments Oy	11.1	F030 G035
LOBEL MEDICAL	02.2	G011
Long Life Surgical Industries	02.2	E070 F071
LORAN S.R.L.	10.1	F054
LOSER & Co GmbH	10.1	K050 J060 J050 K059
LUKADENT GmbH	11.1	D028 E029
LumaLite, Inc.	04.2	H056
Luoyang Beiyuan Special Ceramics Co., Ltd.	03.1	M014
LUZZANI DENTAL s.r.l.	11.3	E038
LYRA GACD S.A.S.	11.2	S051
M		
M+W Dental Müller & Weygandt GmbH	04.2	G019
M.A. Arain & Brothers (Pvt) Ltd.	10.1	F050





# passage 10-11

## today Trend Index

- Implantologie  
.....  
Implantology
- Prävention/Parodontologie  
.....  
Prevention/Periodontology
- Veranstalter, Verbände & Depots  
.....  
Organisers, Associations & Trade
- Endodontie/Kons  
.....  
Endo/Conservative Dentistry
- Kieferorthopädie  
.....  
Orthodontics
- Kosmetische Zahnheilkunde  
.....  
Cosmetic Dentistry
- Lasierzahnheilkunde  
.....  
Laser Dentistry
- Digitale Praxis  
.....  
Digital Practice
- Praxiseinrichtung  
.....  
Interior Design
- Zahntechnik  
.....  
Dental Technology
- Präxishygiene  
.....  
Hygiene and Sterilisation
- Praxismanagement  
.....  
Practice Management

Firma Company	Halle Hall	Stand Booth
M.P.F. Brush Co.	11.3	F040 G049
Dr. Mach GmbH & Co. KG	04.1	D080
MACK Dentaltechnik GmbH	04.2	J018
Made-in-China.com	02.2	E079
MADESPA S.A.	11.2	P034
Maget Dental	02.2	E077
MAGITECH		
INNOVATION IMPLANTS	02.2	B051
Magtole Medical Instrument Co., Ltd.	03.2	G050
Maia360 LTD	11.2	N008 O009
MAILLEFER INSTRUMENT TRADING SARL	02.2	A048
MAJOR PRODOTTI DENTARI S.p.A.	10.1	G060 H061
Man & Machine Europe	04.2	J100
MANFREDI Srl	10.2	V020
MANI, INC.	10.2	V054
MANIX CO., LTD	03.1	J079
Mann GmbH	10.2	O048 P049
Maple Precision	11.3	F041
Maquira Dental Products	11.3	A056
MARIOTTI & C. s.r.l.	11.2	R041
Masel Deutschland	11.3	G040
Materialise Dental NV	11.2	K031
Matrx by Parker	04.2	K049
max steam	03.2	C049 B048
max stir s.r.l.	03.2	C049 B048
Maxigen Biotech Inc.	04.1	B012
Maxillent Ltd.	04.1	C067
Maximus Instrumentais	11.3	C054
maxon motor GmbH	04.1	A070
Mayer GmbH Innenarchitektur + Möbelmanufaktur	10.2	T061
MB Maschinen GmbH	03.1	J029
MC Bio Srl	04.1	B092
MCC Medical CareCapital AG	04.2	N019
MCT (Mr. Curette Tech)	03.2	A070
MD Alloys	02.2	B044
MDC Dental	04.2	J060 K061
MDO Di Marco Dell'Olio	11.1	E026
MDT Micro Diamond Technologies Ltd.	10.2	R060
Mecadent – KMD	11.2	M036
mectron s.p.a.	10.2	O040 P041
med3D GmbH	10.2	R011
Medbone - Medical Devices Unip. Lda.	02.2	B050
Medental International, Inc.	04.2	H055
medentex GmbH	03.2	A010
Medentika GmbH	04.1	A050
Medentika Implant GmbH	04.1	A050
medentis medical GmbH	03.2	C030 E039 E021
Medentools GmbH	03.1	L078
MEDESY s.r.l.	10.2	V030
MEDIADENT Austria Stahlmöbelwerk GmbH	10.2	P038 R039
MEDIADENT Germany Stahlmöbelwerk GmbH	10.2	P038 R039
NORIS MEDICAL LTD.	04.1	B070
MEDICAL S.R.L.	10.2	L049
MEDICAL DENTAL PACIFIC	11.3	F039
Medical Instinct GmbH	04.1	A079
Medical Labo M. Lilian Meunier	11.1	A041
Medical Technology Promedt Consulting GmbH	03.1	L021
Medical Trading S.R.L.	02.2	D044
Medicaline S.r.l.	10.2	L065
Medical-One S.r.l.	10.1	K068
MEDICEPT UK LTD.	11.3	B061
UAB „MEDICINOS LINIJA“	11.3	F060
MEDICLUS Co., Ltd.	03.2	A068
MedicNRG Ltd.	10.2	P059
MEDICO Care BV	02.2	C035
MEDIN, a.s.	11.1	J034
TH.KAZANTZIDIS S.A. „MEDIPAC“	02.2	E048

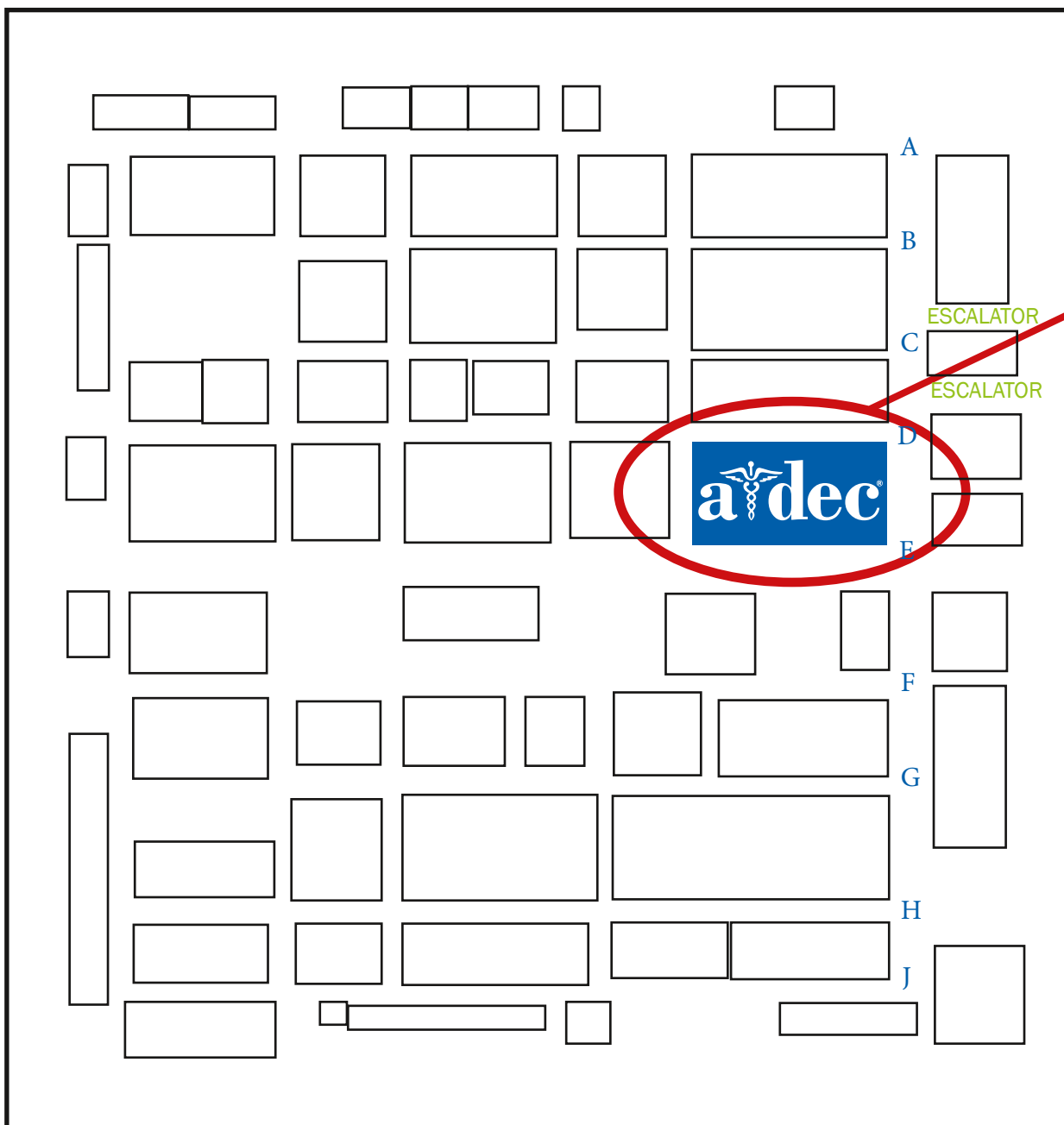
Firma Company	Halle Hall	Stand Booth
Medipack Medical Packaging Mfg.	03.1	K069
MEDIPLUS	03.2	A075
MEDIPROGRESS L.t.d.	11.3	A071
MEDISAFE UK Limited	10.2	V071
Medisporex (PVT) Ltd.	11.1	J048
Medit Corporation	03.1	K080
MEDIvision	02.2	C041
MEDIXDENT PTE LTD.	03.2	F041
MedPark	02.2	C050
MEDTRONIC GmbH	10.1	C059
Megadent-Deflogrip Gerhard Reeg GmbH	11.3	D034
MEGADENTA Dentalprodukte GmbH	10.2	N071
megadental GmbH	11.1	J008
MEGAGEN IMPLANT Co., Ltd.	04.2	J010
MEGA-PHYSIK Gesellschaft für physikalische Messtechnik mbH & Co. KG	10.2	N070
MEGASONEX – Panaford B.V.	11.3	J028 K029
Hager & Meisinger GmbH	10.1	G030 H039 G028 H029 G019
MELAG Medizintechnik oHG	10.2	M010 N011
MENSADENT s.r.o.	02.2	A050
Meodental Ltd.	10.1	A054
Merz Dental GmbH	10.2	U038 V039 T038 U039
MESTRA – TALLERES MESTRAITUA S.L.	11.1	F020 G029
META	10.2	V013
META BIOMED CO., LTD.	11.1	B051
Metal Industries Research & Development Center	04.1	B014
METASYS Medizintechnik GmbH	10.2	R041
METOXIT AG	04.1	B069
METRO MEDICAL	02.2	G021
Frank H. Meyer GmbH	10.1	B038
Meyer-Haake GmbH		
Medical Innovations	02.2	C040
MFI	03.2	C011
M.G. Kurth GmbH	10.2	U046 V047
MGF Compressors S.r.l.	11.1	E009
MIAMBE	10.1	A057
Micerium SRL	10.1	J050 K059
Micro Tech. Corp.	04.1	B096a
Micro-Mega International Manufactures SA	10.2	T020 U029
MICRO-NX CO., LTD.	11.3	E078 F079 B060 C069
Micro.Medica srl	02.2	D050 E051
Microbrush International	11.3	H040 J049
MicroCeram GmbH	04.1	B078
Microcopy	04.2	J065
MICRODONT LIMITED	11.2	P048
Micromotor Ltd.	03.2	G035
Micron Corporation	04.1	C078
Midmark EMEA	10.1	G059
Miele & Cie. KG	10.2	O050 P051
MIGLIONICO SRL	11.1	D060
MIHM-VOGT GmbH & Co. KG	10.1	C030 D039
Mikrodenta S.R.L.	11.2	N031
Mikron Agie Charmilles SA	03.1	H010 J011
Mikrona Technologie AG	11.1	E020
Milestone Deutschland GmbH	11.1	D058
Millennium Dental Technologies, Inc.	04.2	M067
Millhouse GmbH Technologiezentrum	03.1	H010 J011
MIO Int. OZONYTRON GmbH	11.1	D062
Mirage Dental Products Ltd.	02.2	C049
Mirell Dental Implants Systems	04.2	N032

Firma Company	Halle Hall	Stand Booth
Miromedics Professional kft	11.3	E068
MIS Implants Technologies Ltd.	04.2	G031
MK-dent GmbH	04.1	A060
MK1 Dental-Attachment GmbH	11.1	J008
MLG Science and Technology Ltd.	02.2	F060 G069
MOCOM SRL	11.2	S029
MODE MEDIKAL SANAYI VE TICARET LIMITED SIRKETI	02.2	B011
model-tray GmbH für rationellen Dental-Bedarf	10.2	M030
Modern Healthcare Corp.	04.1	C012
MODERN ORTHODONTICS	03.1	H019
Modern Precision Dental Instruments Co., Ltd.	03.2	G060
ModuleWorks GmbH	03.1	H068
Mohong Bearing Co., Ltd.	11.3	K080 L089
Mokuda Denal Co., Ltd.	04.1	C097
MÖLLER-WEDEL GmbH	10.2	U018
Mölnlycke Health Care GmbH	10.2	R038 S039
Monitex Industrial Company Ltd.	11.2	K058
Monotrac Articulation	04.2	G059a
J. Morita Europe GmbH	10.2	S051 R040 S049
Morpheus Co., Ltd.	02.2	F051
MORSA Wachswarenfabrik Sallinger GmbH	10.2	S014
Motion Dental Equipment Corp.	03.1	L069
Motyl s.c. – Zakład Produkcji Narzedzi Sciernych	11.2	K060
MOZO-GRAU, S.L.	04.1	D029
MS Dental Systems Ltd.	04.1	F031
MTC Industries & Research Carmiel Ltd.	10.1	A056
Müller-Omicron GmbH & Co. KG	04.2	J090 K099
Multident China Ltd.	02.2	F070 G079
Multisafe (M) SDN. BHD.	02.2	D038 E039
Multivox – Petersen GmbH	10.2	V042
Muss Dental GmbH	10.1	J040
MVK-line GmbH	10.1	C039
Mydent International, Inc.	04.2	G068
Myeong Moon DENTAL Co., Ltd.	02.2	B060 C069
Myofunctional Research Europe B.V.	11.3	E030 F031
MYRAY	11.2	S030 R030 S031
MyungSung OMS	03.2	B074
N		
N.D. Surgical Industries	02.2	E070 F071
Nabertherm GmbH	10.2	L051
Nais Ltd.	03.2	F030 G031
NAKAMURA DENTAL MFG. CO. LTD.	04.1	D067
Nanjing Jin Jiahe I./E. Co., Ltd.	02.2	F070 G079
Nanoplast Höchst GmbH	02.2	B071
NARDI COMPRESSORI S.r.l.	11.1	F034
Natim Handels GmbH	11.3	L049
Natural Dental Implants AG	11.3	F008 G009
NAVADHA ENTERPRISES	04.1	B068 C069
NCL Korea CO., LTD.	11.2	O039
Nemris GmbH & Co. KG	04.1	D078
Neo Dental Chemical Productions Co., Ltd.	04.1	D079
NEOBIOTECH CO., LTD.	03.1	L058 M059
NEODENT S.A.	10.1	B058
NEOHM	02.2	B009
NEOLIX SAS	02.2	E061
NEOMAX ENGINEERING Co., Ltd.	04.1	C065
Neoss GmbH	04.2	K090 L099
NevinLabs®	04.2	L079 K078
NEW ANCORVIS S.r.l.	03.1	J050 K051

Firma Company	Halle Hall	Stand Booth
NEW IDEM S.r.l.	02.2	F029
NEW INTEGRA, S.L.	11.1	H050
NEW LIFE RADIOLOGY s.r.l.	11.3	G079
New Perfect Dental Lab	11.2	L062
New Stetic S.A.	11.1	F021
Newbridge Financial	02.2	B039
NEWMED SRL	10.1	G059
NEWSKIN EUROP	02.2	F044
NewTechBrush Co., Ltd.	03.2	B070
NEWTOM	11.1	A018 B019
NEXUS MEDODENT (NMD)	03.2	F055
NICHROMINOX S.A.S.	11.1	C038
NIKO DENTAL GmbH	04.1	D015
Nimbudent GmbH	11.2	S040
Ningbo JSDA Electronic Industry Co. Ltd.	11.3	K080 L089
Ningbo Rinover Medical Instrument Co., Ltd.	04.1	F018
Nissin Dental Products Inc.	04.1	C068 D069
Nivol S.r.l.	03.1	M019
NMT München GmbH	04.2	N060
NO AVARANE AZAR noum	03.2	G061
Nobel Biocare Services AG	04.1	A090 B099 A091
Nobilium Company (Division of CMP Industries LLC)	04.2	H050
NOBIL METAL S.p.A.	03.1	J050 K051
NORAKER SA	02.2	E059
Nordent Manufacturing, Inc.	04.2	L051
NORDENTA Handelsges. mbH	10.2	P040
NORDIN S.A.	04.1	A038
Nordiska Dental AB	11.1	F010
NORITAKE (Kuraray Europe GmbH)	11.3	D010 E019
NORMON	11.3	J079
North (Nanjing) Instrument Technology Industries Group	03.2	G074
NOUVAG AG	11.1	F059
Nova Instruments UK	02.2	B040
NovaBone Products, LLC	03.1	K034
NOVADENT Dentaltechnik GmbH	02.2	A011
NOVAMETAL Europe s.r.l.	10.1	J068
Novocam Medical Innovations Oy	11.3	A068
Novocol Pharmaceutical	04.2	H061
Novodent Ets.	11.1	J038
NSK Europe GmbH	11.1	E030 D030 E039
nt-trading GmbH & Co. KG	03.2	D050 E051
NTI-Kahla GmbH		
Rotary Dental Instruments	11.2	L008
NUCLEOSS SAN. TIBBI CIHAZLAR LTD. STI	03.1	L070
NUOVA A.S.A.V. snc di Leoni Franco e Attilio	04.1	F038
NURIKON INT'L PUT Ltd.	02.2	E070 F071
NWD Fachbuchhandel	11.1	F040 G049
NWD Funktion	11.1	F040 G049
NWD Gruppe Nordwest Dental GmbH & Co. KG	11.1	F040 G049 H049
NWD Reisebüro	11.1	F040 G049
NWD.S Systemhaus	11.1	F040 G049
O		
Objet GmbH	03.2	F020 G021
OBODENT GmbH	03.1	M079
Obtura Spartan Endodontics	11.3	H040 J049
OCO Biomedical, Inc.	04.2	L068
OCO Präparate GmbH	10.2	V040
Odontit S.A.	11.2	N033
ODONTO MAGIC S.R.L.	11.1	H050

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Firma Company	Halle Hall	Stand Booth
ODONTOIATRICA INNOVATIONS s.a.s.	02.2	F081
OEMdental	04.2	M028 N029
OEMUS MEDIA AG	04.1	D060 F061
ökoDENT Preußner OHG	11.3	H038
Olsen Indústria e Comércio S/A	11.3	C040 D041
O.M.E.C. Snc di Renato Carnevale	11.2	Q030
OMNIA S.P.A.	04.1	C088 D089
OMNIDENT GmbH	03.2	F081
O.M.S. S.p.A. OFFICINE MECCANICHE SPECIALIZZATE	10.1	E061
Onewaybiomed GmbH	04.1	B058
OPEN MIND Technologies AG	03.1	H018 J019
Open Technologies Srl	02.2	A028
OPTI Zahnarztberatung GmbH	11.2	O020
Optiloupe ltd	02.2	B075
OPTICAL METROLOGY Ltd. (OPTIMET)	04.1	F040
OPTOMIC ESPANA, S.A.	02.2	A018
Oragenics	02.2	B061
Oral-B / P&G Professional Oral Health	11.3	L020 J010 K019
Oral-Prevent GmbH	11.3	H061
ORALIA medical GmbH	11.1	B058
ORALPLANT SUISSE SA	04.1	D088
Oraltech Instruments Pvt. Ltd.	03.2	F070 G079
orangedental GmbH & Co. KG	11.2	N051 M040 N049
Orascope Research, Inc.	10.2	R038 S039 J020 K029
Oratech	04.2	K071
ORATIO B.V.	10.1	C071
ORBIS Dental Handelsgesellschaft mbH	11.1	G048 H049
ORIDIMA Dentalinstrumente GmbH & Co. KG	10.2	R062
Oriental Pearl Imp. Exp. Co. Ltd.	02.2	F070 G079
Ormco Coporation	10.1	J010 K019
Oro Clean Chemie AG	10.1	B030
OroScience	04.2	M058 N059
OROTIG s.r.l.	10.1	G061
J.H. Orsing AB	10.2	V014
Ortho Organizers GmbH	10.2	M069
Ortho Classic	04.2	H060
Ortho Organizers	04.2	M060 N069
Ortho Technology Inc.	04.2	J070
Ortho-Tain	04.2	M065
OrthoApnea	11.1	A060
ORTHODONTICS H.D. DI ROBERTO PALUDETTI & C SNC	11.3	C032
Ortholution Co., Ltd.	03.2	C062
OrthoQuest, Inc.	04.2	L053
OSADA ELECTRIC CO., LTD.	11.1	J050
osmed gmbh	10.1	J065
OSSTELL AB	03.2	F060
OSSTEM IMPLANT Co., Ltd.	04.1	A010 B019
Osteogenics Biomedical, Inc.	04.2	M075
OSTEONIC Co., Ltd.	11.3	D031
OSUNG MND CO., LTD.	03.2	C071
OT Medical GmbH	03.2	C040 D049
OWANDY S.A.S.	11.1	A030 B031
OXY IMPLANT	03.2	E019

## P

Pac-Dent International, Inc.	04.2	J057
Pacificare Group Limited	04.2	L038
PAJUNK GmbH	10.2	R058
PAKTERRA International	02.2	D060
Palmeri Publishing Inc.	11.1	D063

Firma Company	Halle Hall	Stand Booth
Paltop Germany GmbH	04.2	N030
PANADENT CORPORATION	10.1	J050 K059
Panasonic Healthcare Co., Ltd.	11.2	S049
PARADISE EXPORT CO	03.1	K045
Parkell Inc.	04.2	G081
Partial Flex	04.2	M050 N051
Pascal International	10.2	R038 S039 L057
Passau Impex	03.2	F070 G079
PASTELLI S.R.L.	10.1	F060
PDT, Inc.	04.2	G054
PEARL DENT (KOREA) CORPORATION	03.1	K054
Pelton & Crane	10.1	J020 K029
Pemaco Inc.	04.2	K058
PENG LIM ENTERPRISE CO., LTD.	11.3	F069
Perfection Plus Ltd.	10.2	S048
Perflex ltd Perla Ben simon	10.1	B055
PeriOptix, Inc.	04.2	G054
Periproducts	11.3	D034
Peter Skoda Zahntechnisches Labor GmbH	03.1	M081
Philipp-Pfaff-Institut Fortbildungsein- richtung der Landes Zahn-Ärzte- kammern Berlin & Brandenburg GmbH	11.2	N061
PHARMATECHNIK GmbH & Co. KG	11.3	G008 H009
Phibo Dental Solutions, S.L.	03.1	H051
Philips GmbH	11.3	G010 J019
Phoenix Implants GmbH	04.1	C059
PHOENIX DENT CO., Ltd.	10.2	V019
Photolase Europe Ltd.	11.1	B058
Pi dental Manufacturing Co. Ltd.	11.3	D040 E049
PicaSoft SAS	03.1	H078
picodent Dental-Produktions- und Vertriebs-GmbH	11.2	P030 Q033
PIERREL PHARMA s.r.l.	11.3	B083
SHANGHAI PIGEON DENTAL MFG. Co., LTD.	11.3	E080
Pin Tech Instruments	02.2	C054
PLAC-CONTROL Ltd.	11.3	F049
Planmeca Vertriebs GmbH	11.1	G028 H029
Planmeca Oy	11.1	H028 J029 G010 H011
Pluradent AG & Co. KG	10.1	C050 D059 D060 A059
Pluralux Lichtsysteme + Leuchten	10.2	U058 V059
Po Ye X-Ray Mfg., Corp.	04.1	C019
PointNix Co., Ltd.	04.1	D020 F029
POL-INTECH Sp. z o.o.	04.1	B080
PoliDent d.o.o.	10.2	T071
Polierwerk - Inh. Pablo Ullrich (Einzelfirma)	03.2	E030 F031
POLIRAPID Dr. Montemerlo GmbH & Co. KG	10.2	R028
POLYDENTIA SA	10.2	R050
POLYSTOM	11.3	D072
Porter Instrument	04.2	K049
Posdion Co., Ltd.	03.2	C059
Practo Technologies Pvt. Ltd.	02.2	C064
PRAEZIDENT GmbH	10.2	R024
PRAEZIMED SERVICE GmbH	10.2	R024
praxiskom GmbH	11.1	A040
Premier Dental Products Company	04.2	L021
Premium Plus UK Ltd.	02.2	D059
President Dental GmbH	02.2	D041
Pressing Dental SRL	10.2	M033
Pressl Dental Solutions GmbH	02.2	C034
Prestige Medical Ltd.	10.2	L030
PrevDent GmbH	11.3	J028 K029
PREVEST DENPRO GmbH	03.2	E018 F019

Firma Company	Halle Hall	Stand Booth
PREVEST DENPRO LIMITED	03.2	E018 F019
Prexion, Inc.	11.3	D081
Prima Dental Group	10.2	T018
PRIMACON Maschinenbau GmbH	03.1	M071
Prime Dental Manufacturing, Inc.	04.2	M070 N075
Prime Dental Products Pvt. Ltd.	03.2	D069
primodent Joachim Mosch e.K.	10.2	M070
primotec - Joachim Mosch e.K.	10.2	M070
PRINTEX s.r.l.	03.1	L031
PRISMAN Pharma International AG	04.1	F081
Pritidenta GmbH	04.2	J031
proDente e.V.	Passage	V002
Procedia GmbH	11.2	R059
Procter & Gamble GmbH	11.3	L020 J010 K019 J020 K021 H080 J081
prodent systems GmbH & Co. KG	10.1	B034
PRODENT Dentalbedarf GmbH	02.2	A074
ProDentis France Dentaire	10.2	S024
PRODONT-HOLLIGER S.A.S.	10.2	M058
PRODUITS DENTAIRE S.A.	11.1	F018 G019
PROGENY	10.1	G059
PROGRET Ltd. Research-and- Production Company	02.2	B034
PROMED S.R.L.	11.1	F058
Promedica Dental Material GmbH	10.2	V015
PROMODENT	10.1	A045
PROPHYTEC	11.3	G061
PROSCAN CVBA	03.2	G040
PROTECHNO	02.2	C030 D031
PROTECT-Laserschutz GmbH	02.2	C019
Prototipopadrão, Lda	02.2	F080
PROTOUCH I.A.	02.2	F038
Prowital GmbH	04.1	F010
PSM Medical Solution	03.1	H060
PSMED, Inc.	03.2	A064
PSP Dental Co. Ltd.	02.2	B048
PTC - Productivity Training Corporation	03.1	H028
PTJ INTERNATIONAL S.A.S.	11.1	C028
Pujiang Optoelectronic Technology Co. Ltd	02.2	E071
Pulpdent Corporation	10.1	H049
Purgo	04.1	E015
PX DENTAL SA	03.1	L050
PYRAX POLYMARS (Partnership)	02.2	B076

## Q

Qayum + Elahisons (Pvt.) Ltd.	03.2	A019
Qinhuangdao Aidite High-technical Ceramics Co., Ltd.	11.3	K070
QR S.r.l.	11.1	A018 B019
Queisser Pharma GmbH & Co. KG	10.2	R066a
Quen Lin Instruments Co., Ltd.	04.1	C010
Quicklase Quickwhite International	02.2	B038
Dentalsur 2003, S.L.	02.2	A020
Quickwhite - Quicklase	02.2	A020
Quintessenz Verlags-GmbH	11.2	O008 P009 Q021 N008 O009
Quintessenz TV-Wartezimmer GmbH	11.3	B074

## R

R+K CAD/CAM Technologie GmbH & Co. KG	10.2	V058
R-dental Dentalerzeugnisse GmbH	10.2	M039
R.O.C.S. Trading GmbH	11.3	H041
Radix GmbH	03.2	E065
RAGO C&V Co., Ltd.	03.2	B054
Ragy Mondverzorging	10.2	R038 S039
Raiz & Sajjad Surgical Pvt. Ltd.	02.2	G020
RAMVAC®	04.2	L079 K078

Firma Company	Halle Hall	Stand Booth
Rasteder KFO Spezial-Labor GmbH	11.3	K048
RATAJCZAK & PARTNER Rechtsanwälte	11.2	O059
RATIODENTAL INTERNATIONAL GmbH	11.2	L062
Ray Co., Ltd.	02.2	A019
raybow GmbH	11.3	F040 G049
RDV Dental	04.1	F071
Real KFO GmbH Fachlaboratorium für Kieferorthopädie	11.3	G040
Real Odontologica Ind. E. Com. Ltda	11.3	D050
Realizer GmbH	03.2	A045
REBI DENTAL medikal imalat ithalat ihracat ltd. sti	02.2	E080
Rectus ApS	11.1	J054
Reddish Stone Co., Ltd.	11.2	O039
REDDISH STONE SAS	11.2	O039
ReDent Nova Ltd.	03.2	E058 F059
REGINAINVEST GmbH	03.2	E065
REINER MICROTEK S.L.	03.2	F049
REITEL Feinwerktechnik GmbH	10.2	L050 M051
Reliance Dental Mfg. Co.	04.2	K058
Remedent N.V.	03.2	C011
Renew Biocare AG.	03.2	E075
Renfert GmbH	10.1	B020 C029
RENISHAW GmbH	04.2	J018
RESISTA Ing. C.A. Issoglio & C. Srl	10.2	T047
RESORBA Medical GmbH	03.2	C008
retect Kunststofftechnik GmbH	11.1	A051
Reverberi Arnoldo S.r.l.	10.1	G050
Rhein Enterprises Pvt. Ltd.	03.2	F070 G079
RHEIN 83 srl	11.2	Q038
Rhein-Instrumente e.K.	03.1	K050
Ribbon, Inc.	10.2	R038 S039 G077
Richmond Dental & Medical	04.2	K056
Ritter Concept GmbH	02.2	E021 C010 E019
River 8	03.2	C011
robocam	03.1	K048 L049
RODENT AG	11.3	A082
Röder Dentalinstrumente GmbH & Co. KG	11.2	M040 N049
Röders GmbH	03.1	L018
ROEKO	10.2	R010 S019
Roko s.c.	11.2	Q040
ROLAND DG	03.1	L040 M041
Rolence Enterprise Inc.	04.1	C014
Romidan Ltd.	10.1	B059
RONVIG Dental Mfg. A/S	10.2	U048 V049
ROSSICAWS SRL	10.1	D050 E051
Royal Dental	11.3	E080
RTI Electronics AB	02.2	G018
Ruida Medical Instrument Co. Limited	02.2	F070 G079
DENTAL MANUFACTURING S.p.A. - Ruthinium Group	03.2	D040 E041

## S

S&C Polymer Silicon- und Composite Spezialitäten GmbH	10.2	R069
S&S Scheffner GmbH	03.1	H028
Sabilex de Flexafil S.A.	11.2	M030
SACRED INTERNATIONAL	11.2	O040 P041
SAE Dental Vertriebs GmbH -International-	10.2	V058
SAEG srl	10.1	B069
SAESHIN PRECISION CO., LTD.	04.1	F048
Safak Makina Yedek Parca Sanyi Ve Ticaret A.S.	03.1	K058 L059
Safe Implant Elite Ceram	04.1	D013
Safe&Simple s.r.l.	10.2	L065

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Firma Company	Halle Hall	Stand Booth
Saga Dental Supply A/S	04.1	B096
Sagemax Bioceramics Inc.	04.2	L040 M049
Sagemax Europe srl	04.2	L040 M049
Sagemax Russia	04.2	L040 M049
M. Saleem Chirurgische Instrumente	03.2	E010 F011
Salli Systems/ Easydoing oy Ltd.	11.3	D068
SAM Präzisionstechnik GmbH	10.2	U060 V061
SAMWOO Co., Ltd.	03.2	C068
Sanatmetal Ltd.	04.1	F041
SANCTUARY HEALTH SDN. BHD.	03.2	D070
SANG SIN DENTAL LAB	02.2	B060 C069
Sänger GmbH	10.2	V046
SANISWISS AG	11.1	C030
Sanitex di M. Barzaghi	04.1	B092a
Sapient Dental/Beaming White	04.2	K062
SARATOGA S.p.A.	10.1	F064 G069
SARAYA Europe	11.3	L039
SAS Ar-Instrumed	03.2	G070
SATELLITE INDUSTRIES	11.1	H058
Satou Dental Material Co.Ltd.	04.1	C095a
SAUER GmbH	04.2	J018
SAVARIA-DENT Kft.	11.2	S024
SBI NV	03.2	E069
Scanderra GmbH	10.1	F048
Schaal Dentaltechnik	03.1	M018
Schembera GmbH	10.1	G054
Scheu-Dental GmbH	10.1	C040 D049
Georg Schick Dental GmbH	10.2	N030 O031
Schlumbohm GmbH & Co. KG	10.2	U020
Schott AG Lighting and Imaging	02.2	A041
Schott AG	02.2	A041
Davis Schottlander & Davis Ltd	10.2	M031
SCHULER-DENTAL GmbH & Co. KG	10.2	U008
Schülke & Mayr GmbH	10.2	N039
M. E. SCHUPP Industriekeramik GmbH & Co. KG	03.1	L020
Schütz Dental GmbH	10.1	G010 H019
SciCan GmbH	10.2	T020 U029
SciCan Ltd.	10.2	T020 U029
Score BV	10.1	J049
SDI Germany GmbH	10.2	S059
SDP MEDICAL DIVISION SRL	03.1	M070
SDS Dentalhandels GmbH & Co. KG	04.1	B038
Sego Soft Prozessdokumentation	04.1	B039
SEIL GLOBAL Co., Ltd.	02.2	E060
Seiler Precision Microscopes Div. of Seiler Inst. & Mgf. Co., Inc.	10.2	N057
Sejongdental	03.2	C051
SELIGA MICROSCOPES Sp. z.o.o.	11.1	A054
SEMPERIT Technische Produkte Gesellschaft mbH Segment Sempermed	11.3	A078
Sendoline AB	10.1	A043
SEPTODONT SAS	11.2	L010 M011
SEPTODONT GmbH	11.2	L010 M011
SERAG-WIESSNER KG	11.3	B070
Servo-Dental GmbH & Co.KG	10.2	O038 P039
Sescoi GmbH	11.1	F051
SGS Dental Implant System Holding	04.1	D070
SGS Export International	02.2	F050
Shahak & Co. Diamond Tools Ltd.	10.1	A058
Shalcatco (PVT) Ltd.	11.1	B062
Shanghai A-Dental Products Co., Ltd.	02.2	D078
Shanghai Carelife International Trading Co., Ltd.	11.2	N063
SHANGHAI GREELLOY INDUSTRY CO., LTD.	02.2	D076
Shanghai handy medical equipment co., ltd	02.2	A049
Shanghai Lanfan Medical Instrument Co., Ltd.	11.1	B061

Firma Company	Halle Hall	Stand Booth
shanghai lanhine healthcare., ltd	02.2	C074
Shanghai Pinrui Medical Equipment Co., Ltd.	11.2	L060
Shanghai Sheen Medical Instrument Co., Ltd.	11.3	K090
Shangyu Longma Machinery + Electronics Co., Ltd.	11.3	K080 L089
SHC TECHNOLOGY CO., LTD.	03.1	K071
Guangzhou Conghua Shenghua Industry Co., Ltd.	04.1	F101
Electrotherm Marketing Ltd. (ShenPaz)	11.3	A080
Shenzhen Perfect Medical Instruments Co., Ltd.	11.3	J070
SHERA Werkstoff-Technologie GmbH & Co. KG	10.2	O060 P061
SHIN DENTAL Co., LTD. (Allcares)	03.2	C069
SHIN MYUNG DENTAL CO.	03.2	A077
SHINHUNG CO., LTD.	10.2	U030 V031 B078
Shinwon Dental Co., Ltd.	02.2	E038
Shioda Dental Company	04.1	D065
M/S. SHIVA PRODUCTS (Proprietary Concern)	03.2	C078
SHOFU DENTAL GMBH	04.1	A040 B049
Shofu Dental Corporation	04.2	L065
SHR dent concept GmbH	03.1	H050 J053
Shu Dental Laboratories, Inc.	04.2	L043
Si-tec GmbH Dental-Spezialartikel	03.2	D054
SIA ORTHODONTIC MANUFACTURER S.r.l.	04.1	B098 C099
Siang Ping Enterprise Co., Ltd.	03.1	J068
SIC invent AG	04.2	L080 N089
SICAT GmbH & Co.KG	10.2	O010 P029
Zhuhai Siger Medical Equipment Co., Ltd.	11.2	R060
Sigma Dental Systems-Emasdi GmbH	10.2	R038 S039
Sigma Medical Supplies Corp.	03.1	L075
SigmaGraft, Inc.	04.2	K065
Signo Vincens Equipamentos Odontologicos Ltda	11.3	A052
SILADENT Dr. Böhme & Schöps GmbH	10.1	C030 D039
silfradent s.r.l.	11.2	R040 S041
SILMET LTD.	11.2	P019 P010
SILVER s.n.c.	02.2	C008
SIMED s.r.l.	03.2	D048 E049
SIMEDA	11.1	C040 D049
SIMEX ITALIA s.r.l.	11.2	S058
Sinco Dental GmbH	03.1	H070
SinfoMed GmbH	10.2	T049
Sino-Dental 2013 International Health Exchange and Cooperation Centre, Ministry of Health	Passage	V006
SINOL	02.2	G040
SIRIO DENTAL SRL	10.1	C049
Sirona Dental Systems GmbH	10.2	O010 P029 P009 N010 O019
SISCON MEDICAL GmbH	04.1	D009
sisma S.p.A	03.1	J048 K049
SisoMM bvba	04.1	F045
Sistem Dental Medikal San. Tic. Ltd. Sti	02.2	F031
SKL MEDICAL INSTRUMENT CO., LTD	11.3	J090
Slovadent, s.r.o.	02.2	B029
SMART GLOVE CORPORATION SDN. BHD.	03.1	L029
smart optics Sensortechnik GmbH	04.2	L030 M031
SMEG SPA	11.2	S052
SMILDEN BIOTECHNOLOGY Co. Ltd.	03.1	H018 J019

Firma Company	Halle Hall	Stand Booth
Smile 4 Fair International Dentale Handelsgesellschaft mbh & Co. KG	03.2	A020 C029
smile dental Handelsgesellschaft mbH	10.1	C040 D049
SMILE LINE SA	10.2	V016
SAEYANG MICRO TECH Co., LTD.	11.1	J060
SNUCONE Co.,LTD.	03.2	B064
Sobytek Instruments co	03.2	F070 G079
SOCO Precision Instrument Co., Ltd.	03.2	E054
Sofic	11.2	L010 M011
Solidscape, Inc.	04.2	K048
„SOLO“	02.2	C077
SOLTEC S.r.l.	10.2	T051
solutio GmbH zahnärztliche Software + Praxismanagement	11.2	R020 S021 R010 S019
Song Young International Co.	11.3	E061
SOREDEX PaloDEX Group Oy	11.2	N050 O051
Southern Implants	03.2	G044
SPEIKO – Dr. Speier GmbH	10.2	U010
SPIDENT CO., Ltd.	03.2	B060
SPIRO d.o.o. (Limited)	02.2	G022
Spitta Verlag GmbH & Co. KG	11.2	P020
„SPLAT-COSMETICA“ Ltd.	11.3	A079
Spring Health Products, Inc.	04.2	G059
Springer Medizin Springer-Verlag GmbH	10.1	B065
S.S. Medident International	11.1	F027
S.S. White Burs, Inc.	04.2	L098
SSI Co., Ltd.	03.2	C080
SSP Schulz-Dental	11.3	G070
STABYL SAS	11.3	G069
StaiNo, LLC	04.2	H058 J059
Star Dental®	04.2	L079 K078
Star Dental Medikal San. Tic. Ltd. Sti.	10.1	K065
starMed Bodenbunrg, Rimmele und Haid GbR	10.2	U028
steco-system-technik GmbH & Co. KG	11.1	D008
STEELCO S.p.A.	10.1	D058 E059
Steelpro	03.2	G065
STEIN SRL	02.2	C011
Steinbichler Optotechnik GmbH	03.2	F079
Steri-Shield	10.1	J050 K059
Vereinigte Papierwarenfabriken GmbH Stericlin	10.1	G054
STERN WEBER	11.2	R038 S039
Stiftung Hilfswerk Deutscher Zahnärzte für Lepra- u. Notgebiete	11.2	O050 P059
Stoddard Manufacturing Company Limited	10.2	U061
Stoma Dentalsysteme GmbH & Co KG	10.2	U011
Storz am Mark GmbH	10.2	U011
Stratasy GmbH	03.2	F020 G021
Straumann GmbH	04.2	G080 K089
STRAUSS & CO. Industrial Diamonds Ltd.	10.2	R031
strohm + maier Produktions- und Vertriebsgesellschaft mbH	10.1	A071
StudiMed GmbH	11.2	P029
Sturdy Industrial Co., Ltd.	03.1	K070
STYL FRIGO S.N.C. Di Manias Giorgio E.C.	11.3	E060 F061
SUDIMPLANT SAS	03.2	C020
SUKI DENTAL INC.	02.2	G012
Sultan Healthcare	10.1	C061
Sulzer Mixpac AG	03.2	G068
SDS Summit Dental Systems	11.1	C008 D009
SUN Oberflächentechnik GmbH	03.2	D078
Sun Dental Laboratories GmbH	10.2	R056
SUN MEDICAL CO., LTD.	04.1	C070 D071

Firma Company	Halle Hall	Stand Booth
Sun Ray Dis Tic Ltd Sti	03.1	L044
Suni Medical Imaging Inc.	04.2	K060 L061
SUNLIKE INDUSTRIES	02.2	F040
SunMax Biotechnology Co.,Ltd.	04.1	C015
Sunstar Europe S.A.	11.3	K030 L031
Sunstar Deutschland GmbH	11.3	K030 L031 L090c
Super Max Enterprises	02.2	D040
Supermax Healthcare Inc.	04.2	J078 K079
SUPPORT DESIGN AB	10.2	V021
SURE DENT CORPORATION	03.2	D071
SURGICON (PVT.) LTD.	02.2	B080
SURGICRAFTS	03.1	K038
SurgiTEL/Scientific Corporation	04.2	K041
Suvison America Corp.	04.2	K072
Suzhou Huarui Medical Equipment Co., Ltd.	11.3	L071
SUZHOU JUNWEI MEDICAL EQUIPMENT CO., LTD.	11.2	R053
SVENSKA DENTORAMA SWEDEN AB	10.2	T019
Shen Wei (USA) Inc.	02.2	F048
Sweden & Martina S.p.A.	04.1	F070
Swedish Dental Supplies AB	11.1	H048
SWIDENT S.R.L.	11.1	A008
Swiss Smile c/o Curaden GmbH (Schweiz)	10.2	V035
SWISSDENT Cosmetics AG	11.3	H071
Swissmeda AG	04.2	L080 N089
SycoTec GmbH & Co. KG	10.2	T020 U029
SYMMETRY MEDICAL Parc d'Activités du Moulin	04.2	M029
SyncVision Technology Corporation	03.1	K078
Syneron Medical Ltd.	04.2	N050
T-MED	11.3	D080
T-Plus Implant Tech. Co., Ltd.	03.1	L061
T.A.G. Medical Products Corp. Ltd.	02.2	B065
T.F.I. System srl	03.2	D068
Takara Belmont Corporation	11.2	Q010 R019
Talladium International Implantology	10.2	S067
TALLADIUM CORPORATION	10.2	S067
Asami Tanaka Dental Enterprises Europe GmbH	10.2	U034
Tanchy Instruments	04.1	C097a
TANDEX A/S	11.3	H030 J031
Tata Surgical Pvt. Ltd.	03.2	F070 G079
TAU STERIL DI BIANCHI G. E C. SNC	10.1	G044
George Taub Products & Fusion Co., Inc.	04.2	K058
TAV Dental Ltd.	04.1	E011
TAVOM S.p.A.	10.1	G051
TBF TISSUE ENGINEERING	04.1	E010
TBR IMPLANTS GROUP	03.2	C020
TBS Medical LLC.	04.1	B062
Trade Development Authority of Pakistan (TDAP)	03.2	G065
TDV Dental Ltda.	04.1	B059
teamwork media GmbH	11.1	E008 F009
teamwork media srl	11.1	D063
TEAMZIEREIS GmbH	03.1	H018 J019
TECHNICAL & GENERAL Pvt. Ltd.	03.1	J070
TECHNODIGIT SARL	03.1	K020
Tecniche Nuove SpA	02.2	D039
TECNO-GAZ Industries	11.2	M018 N019
Tecnodent S.A.	11.2	N038
TECNODENT SRL	10.2	T068 U069
TECNOFAR S.p.A.	11.2	Q048
TECNOMED ITALIA s.r.l.	04.1	B021
Tecnoss Dental S.r.l.	10.1	A031
TEHNODENT d.o.o.	11.1	A039

Firma Company	Halle Hall	Stand Booth
TEKMEDIC (m) SDN BHD	03.2	F062
TEKMIL TIBBI ARAC VE GERECLER TIC. VE SAN. LTD. STI.	11.1	A011
TEKNE DENTAL s.r.l.	11.2	R031
TEKNOSERVICE Dental Design	11.3	B081
Tekscan, Inc.	04.2	K050
TeleCash GmbH & Co. KG	11.2	O030
TeleDenta GmbH	02.2	E049
Teledyne Dalsa	02.2	B059
TempOff-Dental Ltd.	10.1	A051
Temrex Corporation	04.2	K068
TEOXANE Laboratories SA	11.1	F041
TePe Mundhygieneprodukte Vertriebs-GmbH	11.3	K040 L041
Teutotechnik Med. Geräte-, Produktions- und Vertriebs-GmbH	10.2	L039
TGA GmbH	10.1	E068
Thermoplastic Comfort Systems, Inc. (TCS)	04.2	L072
Thermo-Star GmbH	11.1	B041
Georg Thieme Verlag KG	11.1	F011
THIENEL Dental e.K. Thomas Thienel	10.1	K038
Tianjin Longxing (Group) Imp. & Exp. Co., Ltd.	02.2	F060 G069
TianJinLiZhong Biology Development Co., Ltd.	11.3	L088
Tidi Products, LLC	04.2	M063
TIP TOP TIPS Sári	10.2	M056
Titaniumfix	11.3	C048 D049
TOKMET-TK LTD.	03.1	L035
Tokuyama Dental Corporation	10.1	A039 A038 B039
Tokuyama Dental Deutschland GmbH	10.1	A038 B039
Tonsor Medical Instrument Co., Ltd.	02.2	G024
Top Caredent GmbH	11.3	D039
Top Glove Sdn. Bhd.	11.1	C034
Top Implants Ltd	10.1	A052
TOPDENTAL Products Ltd.	10.2	T055
TOR VM	11.3	D078
Tornado-Tipp Imaging	04.2	J046
TOROS DENTAL ITH. IHR. INS. SAN. TIC. LTD. STI.	11.3	A060
TOSI FOSHAN MEDICAL EQUIPMENT CO., LTD	11.3	K081
Towne Brothers (Pvt) Ltd.	11.2	S060
TPC Advanced Technology, Inc.	04.2	H059 G058
Transcodent GmbH & Co. KG	10.2	U071
Tre T SRL	10.1	F064 G069
Tree-Oss	02.2	C073
Tressis Italia srl	02.2	B019
TRI Dental Implants Int. AG	04.2	N040
Tri Hawk International	04.2	G050 H051
Tribest Dental Products Co., Ltd.	02.2	C072
Tribune Group GmbH	04.1	D068 F069
TRIDENT S.R.L.	02.2	F021
TRIGEMA Inh. W. Grupp e. K.	02.2	A070
TRINON Titanium GmbH	04.1	C080 D081
Triodont (UK) Ltd.	10.1	J050 K059
Trollhätteplast AB	11.1	F025
Trudent International	02.2	A079
TURKOM-CERA MADENCILIK GIBA VE ENERSI SAN.TIC.LTD.STI.	02.2	F061
tuttnauer europe b.v.	10.2	N050 O051
TV-Wartezimmer GmbH	10.1	H065
TV-Wartezimmer GmbH & Co.KG	04.2	L011
Twinklers Ltd.	03.2	D075

## U

U.S. Commercial Service	04.2	N058a
UFSK-International OSYS GmbH	11.1	F031
UGIN' DENTAIRE SAS	03.1	J058 K059

Firma Company	Halle Hall	Stand Booth
Ultradent Products, Inc. USA	11.3	L009 K010 L019
ULTRADENT Dental-Medizinische Geräte GmbH & Co. KG	10.2	S030 R030 S031
ULTRALIGHT OPTICS INC	03.1	L038
UMUTSAN DISCILIK SAN. TIC. LTD. STI	04.1	C051
Unfors RaySafe GmbH	02.2	C060
Unicorp Instruments Inc.	02.2	F054
UNIDENT S.A.	10.1	F061
Unidesa-odi Union Dental S.A.	10.2	M033
UNIDI	10.1	B060
UNIQUE DENTAL Co.	03.1	K035
Unitech Sarl	11.2	R051
United Dental USA	04.2	K042
Universidad Internacional de Catalunya	03.1	L030
Univet s.r.l.	04.2	J021
UP Dental GmbH	11.3	K010 L019
US Orthodontic Products	04.2	J056
US Pavilion	04.2	N060a G079
USTOMED INSTRUMENTE Ulrich Storz GmbH & Co. KG Hersteller von Chirurgie- und Dentalinstrumenten	10.1	A040 B041

## V

V&KL Dental Rotor Doo	11.1	A039
V.C.G. VENTURA CERAMIC & GRAPHITE SRL	11.1	G039
V.I.S. Lab SA	02.2	A059
Valplast International Corp.	10.2	L058 M059
VANETTI SA	03.2	D081
VANNINI DENTAL INDUSTRY s.r.l.	03.2	F045
VARENKOR	11.1	F014
Vatech Global	11.2	M040 N049
	04.1	F090 D090 F099
VDDI e.V. (Verband der Deutschen Dental-Industrie e.V.)	Passage	V003
VDW GmbH	10.1	B050 C051
Wirtschaftsgesellschaft Deutscher Zahntechniker-Innungen mbH	11.2	S012 S010
VEDEFAR N.V.	10.2	T017
Veden Dental Labs Inc.	03.2	A049
Velopex International S.A.R.L.	04.2	M038 N039
VELscope Vx	04.2	M060 N069
LED Dental, Inc.	04.2	M060 N069
Verdent Ltd.	02.2	E041
Verein für Zahnhygiene e.V.	11.2	O050 P059
VERICOM Co., Ltd.	03.2	A050 B051
VERIFY + LLP	11.3	L061
Verlag Neuer Merkur GmbH	10.1	B008 C009
VERTEX-DENTAL B.V.	10.1	C068 D069
vhf camfacture AG	10.1	E040
Vi.me.S GdbR	10.1	J044
Vici & C. SRL	02.2	C011
VICTOR DENTAL EQUIPMENT	11.2	N060
Victory Medical Instruments Co. LTD.	02.2	F060 G069
VieSiD Vienna School of Interdisciplinary Dentistry e.V.	04.2	M048 N049
VILLA SISTEMI MEDICALI S.P.A.	11.1	F039
Vincent Albane S.A.S.	02.2	D058
Vincenzo Fiume S.r.l.	04.1	B094a
VIPI LTDA	11.2	M028 N029
VISIODENT SA	10.2	S061
Vision Engineering Ltd.	10.1	G049

Firma Company	Halle Hall	Stand Booth
VisionmaxX GmbH	11.3	A008 C009
Vista Dental Products	11.3	G048
VITA Zahnfabrik H. Rauter GmbH & Co. KG	10.1	D010 E019
VITALI srl	10.2	T058 U059
VIVAX	11.3	E077
Vivi S.r.l.	11.3	A041
VladMiVa	11.3	E079
VOCO GmbH	10.2	R008 S009 P010
VOLMED GROUP LTD	03.1	M031
VOP LTD.	03.2	F034
VR2M	11.3	B079

## W

W&H Sterilization Srl.	10.1	C010 D011
W&H Dentalwerk Bürmoos GmbH	10.1	C010 D011
W&H Deutschland GmbH	10.1	C018 D019
W.R. Rayson Export, Ltd.	04.2	L062
Dr. Walser Dental GmbH	03.1	J030
WAM	03.2	G049
Wassermann Dental-Maschinen GmbH	10.1	D028 E029
WATER PIK, INC.	11.3	J040 K049
T. Weber Dental Manufaktur & Co.	02.2	E045
Wilhelm Weisweiler GmbH & Co. KG Verbandstoffe	11.3	K068
Johannes Weithas KG	10.2	L058 M059
Wellsamed GmbH & Co.KG	11.3	H078
Werksitz GmbH W. Milewski	02.2	A038
WERTHER INTERNATIONAL S.p.A.	11.2	R049
Westlake Biomaterial Co. Ltd.	02.2	F070 G079
Whip Mix Europe GmbH	11.1	B050
white digital dental e.K.	11.1	J008
White Peaks Dental Systems GmbH & Co. KG	11.1	A059
WHITEsmile GmbH	11.3	F010 G011
WhiteWash Laboratories Ltd.	11.3	L061
WIEDENT Sp.J.	11.2	Q035
Wiegelmann Dental GmbH	11.2	P018
Wieland Dental + Technik GmbH & Co. KG	10.1	F020 G029 F018
Dr. Wild & Co. AG	11.3	L049
Willemin-Macodel SA	03.1	L028 M029
Willmann & Pein GmbH	03.2	A020 C029
WINUS TECHNOLOGY CO., LTD.	03.1	M061
WISSNER Gesellschaft für Maschinenbau mbH	03.1	H020
Witech SA	11.1	A041
Wittex GmbH	11.3	E069
WOHLWEND AG	10.2	S020 T021
Dr. August Wolff GmbH & Co.KG	11.3	F020 G029
Wollner-Dental GmbH	10.1	K069
WORLD BIO TECH	03.2	C054
Indian Dental Association	03.2	D069
WORLD WORK SRL	04.1	C071
Woson Medical Instrument Co., Ltd.	03.1	M050
WOTAX Steuerberatungsgesellschaft mbH	02.2	G030
Wright Health Group	04.2	K070 L071
WRP/REMESCO Handelsges.m.b.H	10.2	R038 S039
Wykle Research	11.1	F010

## X

X-DENT – EQUIPAMENTOS ODONTOLÓGICOS	11.3	D051
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Firma Company	Halle Hall	Stand Booth
XENOSYS Co., Ltd.	02.2	G059
xiamen Huifang Biotechnology Co.,Ltd.	02.2	C076
XO CARE A/S	10.2	T008
XYDENT GmbH	02.2	C034

## Y

Y.T dental Solutions Ltd.	11.1	J019
YAMAHACHI DENTAL MFG., CO.	04.1	B088 C089
Yamamoto Precious Metal Co., Ltd.	04.1	D073
YANGZHOU STAR TOOTHBRUSH CO., LTD.	11.3	G064
YARSONS INTERNATIONAL	02.2	E070 F071
Yates Motloid	04.2	M079
YDM CORPORATION	04.1	C061
yd <sup>2</sup> young dentists GbR	Passage	V001
Yena Makina San. Ve Tic Ltd.	03.1	H071
Yeti Dentalprodukte GmbH	04.1	A020
Ymarda Optical Instrument Factory	11.3	L088
YOSHIDA DENTAL MFG. CO., LTD.	04.1	C060 D061
Young Dental Manufacturing	11.3	H040 J049

## Z

Z-Systems GmbH	04.1	D010
ZA-Zahnärztliche Abrechnungsgenossenschaft eG	11.1	F060
Zahnärztliche Mitteilungen	11.2	O050 P059
Zahnärztlicher Fach-Verlag GmbH	11.2	N048 O049
Zahnfabrik Bad Nauheim GmbH & Co. LUXOR KG	11.1	J020
Zantomed GmbH	04.1	B050
Zahnmedizinisch-Biowissenschaftliches Forschungs- und Entwicklungszentrum Witten GmbH	Passage	V005
ZDA - Zirconia Development & Applications SAS	04.1	D041
zebris Medical GmbH	04.2	L102
Zeiser Dentalgeräte GmbH	11.2	P030 Q033
ZEISING GNATHOLOGIE GmbH	10.1	G020 H021
Carl Zeiss Meditec AG	10.1	J031
ZENIUM SAS	11.1	D051
Helmut Zepf Medizintechnik GmbH	10.1	C041
Zeyco	04.2	J048
Zfx GmbH	03.2	A030 C039 H040 J049
ZHEJIANG GETIDY MEDICAL INSTRUMENT CO., LTD.	11.3	J078
Zhejiang Protect Medical Equipment Co., Ltd.	02.2	G029
ZHENGZHOU YUANDA ELECTRONIC CO., LTD.	02.2	D072
Zhermack GmbH Deutschland	11.3	E010 F019 E008 F009
Zhermack S.p.A.	11.3	E008 F009
ZILFOR di Zilli Tiziano	10.1	C049
Zimmer Dental GmbH	03.1	H040 J049
ZIRC	10.1	J050 K059
Zircon-Tech SARL	03.1	L055
ZIRKONZAHN GmbH	04.2	G010 J019
Zirone DENTAL LAB	02.2	B060 C069
ZL Microdent-Attachment GmbH & Co. KG	11.2	P040 Q041
Zoll-Dental	04.2	L064
Zubler Gerätebau GmbH	10.2	L060 M061
Zumax Medical Co., Ltd.	02.2	F060 G069
Zyrkon Medical, S.L.	02.2	C030 D031



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