

today

SHOW
REVIEW

39th International Dental Show • Cologne • 22-25 September 2021

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IDS 2021 gives impetus to the dental industry

Trade show attracted 23,000 visitors from 114 countries.

■ From 22 to 25 September, the 2021 International Dental Show (IDS), held six months later than usual owing to the COVID-19 pandemic, offered the dental industry and dental professionals the opportunity to experience products live and, above all, to socialise with one another in person. This IDS was the first to be held in a hybrid format, allowing visitors who were unable to travel owing to restrictions to participate digitally.

A total of 830 companies from 59 countries participated in IDS 2021 in an exhibition space of 115,000 m². There were 228 exhibitors and five additionally represented companies from Germany, together with 591 exhibitors and six additionally represented companies from abroad. The foreign share of company participation was 72%. Including estimates for the last day of the fair, more than 23,000 trade show visitors from 114 countries attended IDS 2021. Of these visitors, around 57% came from abroad—from Europe, especially Italy, France, the Netherlands and countries in eastern Europe, as well as from the Middle East and elsewhere overseas.

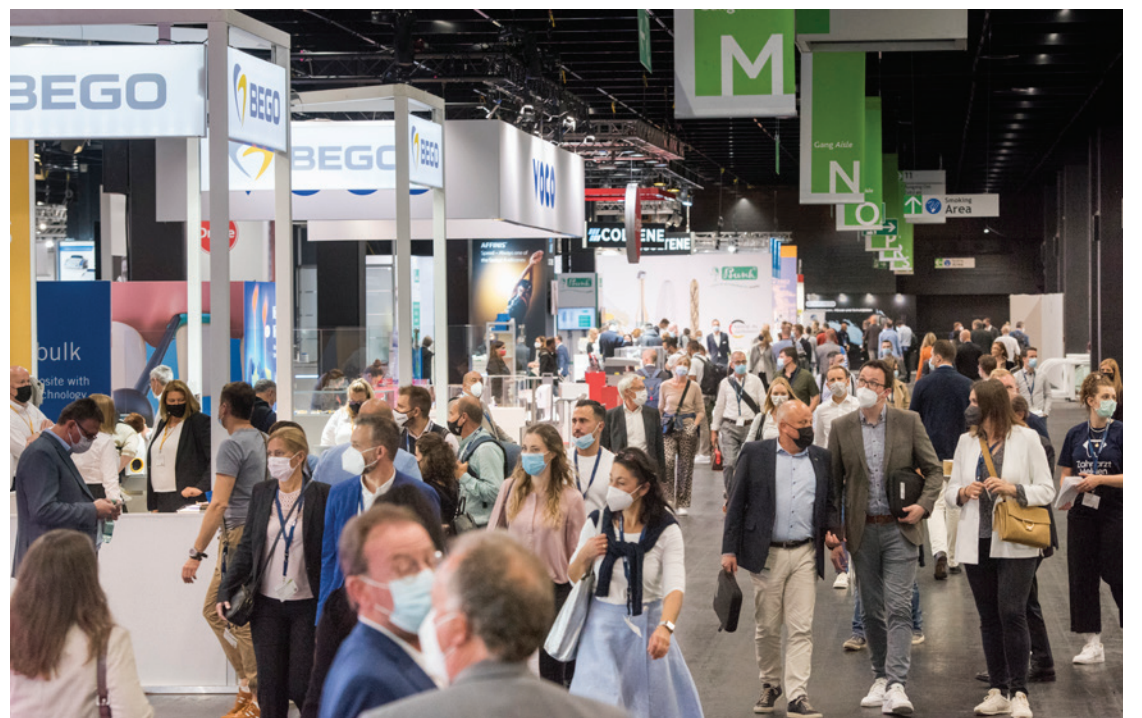
“Optimism has returned within the international dental family. We held intensive discussions with interested visitors and most of them ultimately came to make investment decisions,” said Mark Stephen Pace, chairman of the executive board of the Association of the German Dental Industry, which organises IDS.

For Pace, IDS 2021 marked a fundamental moment since the start of the pandemic in that the whole industry took up the opportunity to switch from crisis mode into working mode, “because it was the ideal place to take stock of the current situation and to identify future opportunities”.

IDS gave a comprehensive overview of the state-of-the-art in dentistry, emphasising the significant advancements in research and development, particularly the drive towards digital innovation.

Digital solutions gain momentum

Digital technology, such as remote care digital tools, intra-oral scanners, 3D diagnostics, CAD/CAM, radiography, CT and other imaging techniques, is playing an increasingly



▶ More than 23,000 trade show visitors from 114 countries attended IDS 2021, around 57% of whom came from abroad. (Image: Koelnmesse/IDS)

“We offered the physical meeting place here in Cologne in the exhibition halls and, in addition, the digital platform IDScconnect with added opportunities for presentations and networking, which was very well received.”

Oliver Frese, chief operating officer of Koelnmesse



▶ 3D printing has become one of the major trends in dental technology. (Image: Koelnmesse/IDS)

IDSconnect, the digital platform of the fair, featured 77 exhibitors from 16 countries with 88 daily contributions and 1,310 minutes of broadcast time. Oliver Frese, chief operating officer of IDS staging company Koelnmesse, commented on the hybrid format in a press release: “We offered the physical meeting place here in Cologne in the exhibition halls and, in addition, the digital platform IDScconnect with added opportunities for presentations and networking, which was very well received.”

important role in dentistry. The SARS-CoV-2 pandemic has hastened uptake and development in this regard, as these technologies have enabled dental practitioners to monitor treatment progress remotely, for example, and in many cases to continue with treatment. During IDS, new digital interfaces that allow for a truly integrated digital workflow were presented, and these also promote a more collaborative approach between the laboratory and practice for greater efficiency.

For instance, exocad's series of new Galway software releases underscores seamless digital workflows and simplicity of use. The new ChairsideCAD 3.0 Galway is highly automated, intuitive and optimised for practice use. “When we developed

the Galway releases, the focus was on increasing productivity for our customers,” said Novica Savic, exocad's chief commercial officer, in citing new features that simplify the design process. Instant Anatomic Morphing enables the anatomy of the teeth to

automatically adjust in real time for dynamic occlusion, and artificial intelligence-based detection of facial features makes smile design with Smile Creator faster and more accurate.



• Integration of artificial intelligence has accelerated in the dental industry. (Image: Koelnmesse/IDS)

« 1

Artificial intelligence: Possibly the next big thing

The benefits of the use of artificial intelligence (AI) are already tangible, and AI will most likely be a major future trend. From initial consultations, diagnosis and treatment planning through to surgical procedures and postoperative care, AI technologies are steadily being adopted by dental practices aiming to digitise and streamline their workflows.

The main focus of current dental AI research is the analysis of radiographs, and in the long run, this capability could lead from diagnostics to prognostics through to AI support in making therapy decisions.

American software company Pearl introduced Second Opinion, an AI software application that helps dentists detect pathologies and other conditions in dental radiographs. It is the first AI-powered device with this application to enter the European dental market and the latest addition to a range of products the company has developed that apply its patented computer vision technologies to bring

greater efficiency, accuracy and consistency to various dental industry stakeholders.

“AI is something we should look forward to rather than fear. It is not coming for our jobs; it is coming for the parts of our job that we do with least efficiency and that give us the greatest hassle,” said Dr Kyle Stanley, a specialist in implantology and chief clinical officer of Pearl. “Certainly, embracing AI alone cannot eradicate work-related stress, but the time AI will save us and the accuracy it can ensure will allow us to focus on the work only we can do—work, like preparing crowns, that requires human dexterity, intelligence and chairside manner,” he continued.

Another success story of the dental AI boom is undoubtedly DentalMonitoring. Founded in France in 2014, this orthodontics technology specialist has developed AI-powered solutions for conducting clinical analysis of images and 3D files, tracking tooth movement in a virtual setting and creating photorealistic simulations. From its humble beginnings as a start-up, DentalMonitoring has now grown to have over 400 employees across 53 countries, gathering invest-

ments from dental titans like the Straumann Group along the way.

At the company’s press conference at IDS, Philippe Salah, CEO and co-founder of DentalMonitoring, said: “Now, general dentists and orthodontists are able to monitor all their aligner and fixed appliance treatments, regardless of the brand, with the same, highly scalable, AI-driven workflow. In addition to controlling the treatment progress, they can actively set and monitor clinical goals for each patient. This means more active control, more productivity, and a new level of safety and confidence for their practice—a real game-changer for our industry.”

The current status and future of 3D printing

Additive manufacturing has become increasingly established, in part because it involves practically no loss of material. Crowns, bridges and denture bases, for example, can be fabricated in this manner using non-precious dental alloys (e.g. through selective laser melting, selective laser sintering, direct metal laser sintering or LaserCUSING).

The strengths of resin printing are primarily visible in models or occlusal splints. Veneers and gingival masks too are fabricated on the basis of an intra-oral scan using additive manufacturing. In addition, denture bases and teeth are printed and then bonded to form a full-arch or complete denture or are even fabricated in one piece through this technique. Furthermore, mock-ups can be printed from try-in resins.

In implantology and endodontics, drilling and orientation templates can be printed. In orthodontics, high precision is achieved with positioning trays (indirect bonding trays). The positions of the brackets are initially planned virtually, and the brackets then have to be cemented precisely in the correct position in the patient’s mouth. The template printed from resin provides additional security in this regard.

In an interview with Dental Tribune International (DTI), Patrick



Heikki Kyöstilä (left), president of Planmeca

“IDS 2021—a feeling almost like normal. In my view, IDS has been going on surprisingly well—about the same as normal. September as the new date for the fair has turned out to be the best choice. Friends and customers were coming up to say hello or to decide on and buy their new equipment. There were not as many visitors as in 2017 or 2019, and even for the future, I expect IDS to be a bit smaller than in the past. But we will still initiate and maintain a lot of communication here in Cologne—which is the fuel for innovation and success.”



Torsten Fremerey, executive director, EMS Electro Medical Systems

“It is a great pleasure to finally be able to present our new Guided Biofilm Therapy (GBT) products to the audience of IDS live again. It is great fun seeing the huge interest in our GBT protocol innovations and celebrating the live dental trade fair with the trade audience. Participating in IDS 2021 is a great success for EMS. The strong feedback from our customers confirms that GBT is the best prophylaxis of all time. EMS’s decision to make a strong appearance at IDS 2021 was spot on.”

Thurm, managing director and general manager for Europe at SprintRay, said: “Cost efficiency, speed and usability are key advantages of 3D-printing. The material used is the most important factor for innovation in upcoming fields. More and more indications can be printed already, and more are coming in the near future. If one has an intra-oral scanner, there is no reason why one should not invest in a 3D printer.”

According to Thomas Kwiedor, head of business development for 3D printing at BEGO, “3D printing is the most important manufacturing method of the future. [...] We ourselves are currently working intensively on a material that enables the

3D printing of artificial teeth. One area that will certainly be exciting is that of multi-material and multi-colour printing, which among other things, will make it possible to reproduce the light-optical properties of natural teeth in the best possible way. In the future, we will also encounter material combinations that enable different properties within one material. It can also be assumed that the automation of individual work steps, such as post-processing, will be further professionalised.”

The latest in restorative dentistry

Direct restorations have been an outstanding and innovative field for

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years. Since they represent the bread and butter of the vast majority of practices, even minor advances in procedures and materials have a clearly positive impact. IDS visitors had the opportunity to learn more about the latest developments in dental filling therapy, which is considered an extremely dynamic segment.

For example, VisCalor, the first composite to feature thermally controlled viscosity behaviour, was on display at the VOCO booth. "It is available in various VITA shades, allowing the dental professional to carry out aesthetic restorations in the anterior and posterior regions, in addition to performing bulk filling, with the material," said Dr Axel Bernecker, head of marketing at VOCO, in an interview with DTI.

GC Europe presented numerous new restorative products at IDS 2021. G2-BOND Universal, a universal two-bottle bonding solution which features excellent adhesive strength and has a wide range of indications. G-aenial A'CHORD is a technologically extraordinary universal composite that combines simplicity, aesthetics and functionality optimally in one product. EQUIA Forte HT is a glass hybrid restoration material that provides stability and aesthetics. G-CEM ONE, a new self-adhesive luting composite, impresses with its simple luting procedure, high adhesive force, problem-free removal of excess material and long-lasting aes-



Christian Mönninghoff (left), founder and CEO of BLUE SAFETY

"The reason for our participation lies our confidence in the basic hygiene competence in dentistry and our eager anticipation to finally be able to exchange news in the dental industry with like-minded innovation enthusiasts again. The COVID-19 period has been stressful for all of us. We are all the more pleased that IDS is happening and that the more than 800 exhibitors have put so much effort into it. It is a special trade show, and it is taking place under special circumstances. In terms of content, it is even more exciting than in earlier years."

thetic results. Initial LiSi Block, a fully crystallised lithium disilicate block with optimised physical properties, promises naturally beautiful restorations in just one appointment. Developed for the laboratory, Initial IQ ONE SQIN provides for highly aesthetic colourings and micro-layering with paintable ceramics.

Summary and outlook

Overall, IDS attendees learned how they can increase their practice and laboratory efficiency by using new, automated processing strategies. Software releases presented at IDS will enable this.

Many techniques, product innovations and prospects for the future



Sven Isele, general manager of sales and marketing at NSK Europe

"This IDS has once again demonstrated that lots of visitors to our booth have been delighted to try out our instruments and products live on-site. Of course, we're also thrilled that we have been able to use this year to show off our booth in its new NSK branding after all. Owing to the pandemic, we've largely had to forego the participation of our international colleagues. Nevertheless, our German and Austrian sales teams are giving their all to provide information to visitors in a comprehensive and expert fashion."

were to be found at IDS. For professional orientation, for research and development, and for the fine tuning of many practices and laboratories, this IDS was indispensable. It was probably even the most important edition in many years, according to Koelnmesse. IDS has adapted to the conditions, and its hybrid format of-

ferred visitors attractive added value. Particularly the technology-savvy dental industry participants employed digital tools as an enhancement to the physical event in the halls, pointing the way for many other industries too.

The next IDS will take place from 14 to 18 March 2023.

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1 Over the course of four days, over 23,000 trade fair visitors attended IDS 2021. - 2: EMS presented important innovations for its GBT protocol. - 3: IDS 2021 was staged in Halls 2, 3, 10 and 11. - 4: To provide a digital enhancement to the classic physical event, the free platform IDSconnect intended to maintain IDS's extensive international reach together with a successful on-site trade fair experience. - 5: Ribbon cutting ceremony. From left: Prof. Christoph Benz, Mark Stephen Pace, Gerald Böse, Lord Mayor Henriette Reker, Dr Markus Heibach, Dr Gerhard Seeberger, Oliver Frese, Lutz Müller. - 6: Owing to the COVID-19 pandemic, tickets could only be obtained in a digital format. - 7: Participants were asked to provide recognised digital proof of vaccination or COVID-19 recovery upon entering the trade fair premises. - 8: Talks at the ACTEON booth. - 9: 3D printing remains a major topic. - 10: IDS offered the dental industry and dental professionals the opportunity to experience products live again. - 11: Conversations at the COLTENE booth. - 12: IDS visitors had the opportunity to discover new products and, above all, to socialise with one another in person. - 13: Visitors explored Planmeca's products. - 14: At IDS, Align Technology showcased the most recent and innovative solutions from the Align Digital Platform. - 15: VOCO presented the first composite in the world to feature thermally controlled viscosity behaviour. - 16: Medical solution company DENTIS presented its offerings related to implant dentistry at IDS, including its novel implant UV activator. - 17: Osstem Implant had the single largest booth at the trade fair. (All photos: © koelnmesse)

“Our service meets all of the needs that arise in the dental clinic and laboratory”

An interview with Riccardo Molinelli from SHINING 3D.

By Jeremy Booth

■ Intra-oral scanners and 3D printers were two of the biggest topics in the halls of this year's IDS. At the show, Dental Tribune International visited the booth of SHINING 3D and spoke with Riccardo Molinelli, regional sales manager for the Europe, Middle East and Africa region, about the company and its new Aoralscan intra-oral scanner and AccuFab-L4D large-format dental 3D printer.

Could you please tell us about SHINING 3D?

The company was founded in 2004, and for the last 17 years, it has been focused entirely on the development of 3D-digitising and 3D-printing solutions. We are fully focused on the development of scanners and 3D printers for multiple applications. Indeed, dentistry is only one of the business areas served by the company. We also cover industrial and metrological applications and the 3D-digitising of most common objects. These different business units have application for both scanning and 3D printing.

What is the company offering to dental professionals?

We began developing dental scanners around 2012. We are proud to look back to our very first product, which was a desktop scanner for a dental laboratory, and to compare it with what we see around us here at our IDS booth—a full suite of digital solutions for both dental clinics and dental laboratories. Over the years, we have developed more powerful and better-performing desktop scanners, and we have also developed and launched 3D printers and our intra-oral scanning solution.

The company is exhibiting two new products at IDS: Aoralscan 3 and AccuFab-L4D. What should dental professionals know about these new products?

The first thing that I would say is that we can think about these two



2 Digital dentistry specialist SHINING 3D demonstrated its new Aoralscan 3 intra-oral scanner at the recent International Dental Show in Cologne. - 3 SHINING 3D said that IDS visitors were impressed with the Aoralscan 3—in particular with its scanning speed and the precision of the data collected. (© SHINING 3D)



products either as stand-alone solutions or as a bundled solution that has been developed specifically for a dental clinic. That does not mean that the L4D printer cannot be used in the laboratory. However, from our point of view, this is an ideal 3D printer for use with the intra-oral scanner in order to cover the needs of dentists. There is a series of different reasons behind this. Firstly, the footprint and design of the unit are ideal for clinics, where space is often limited. Furthermore, all of the possible applications that the printer is equipped for—such as printing crowns, orthodontic models and surgical guides—make it an ideal choice for dental clinics. One additional point I would like to stress is that the printer is an open system. This means that, if the dentist is already familiar with third-party materials, we can integrate those third-party materials into our 3D printer without any limitations.

We just saw a demonstration of the Aoralscan intra-oral scanner. How have dental professionals at IDS reacted to it?

Aoralscan is something that we are very proud of. We have worked on this technology for several years, and

what we see being demonstrated here at the booth is the result of our constant investment in research and development and in product improvements.

This intra-oral scanner comes with a lot of nuances, both from the hardware and software point of view. The previous generation remains an excellent product, but what I can say about the new scanner at the end of

“Our philosophy is to provide products that have the longest possible lifetime—not only from the hardware point of view but also in terms of software.”

this four-day exhibition is that we have received extremely positive feedback from users from all around the world. We have had excellent feedback with regard to the scanning speed, the precision of the data collected, and the multiple applications and options that can be covered by this brand-new device.

The company has a global network. What are the advantages of this for dental clinics and laboratories?

We have a sales network that covers five continents and three offices. Our headquarters is located in Hangzhou in China, and we have offices in San Francisco in the US, and in Stuttgart in Germany. The greatest benefit of this structure is that, for technical support and sales

What more can you tell us about the software?

We work in partnership with exocad—the world leader in CAD—and through this partnership, we have direct integration of exocad software. Both our scanners and printers directly communicate with exocad in the most efficient way, and we also have integration with other software providers on the market.

What I can say is that we offer a fully open system. Our devices, scanners and printers are an open system that can communicate and interact with any other open system. Our philosophy is to provide products that have the longest possible lifetime—not only from the hardware point of view but also in terms of software. That is why we provide software licences that do not have annual fees and do not have fees involved for updates.

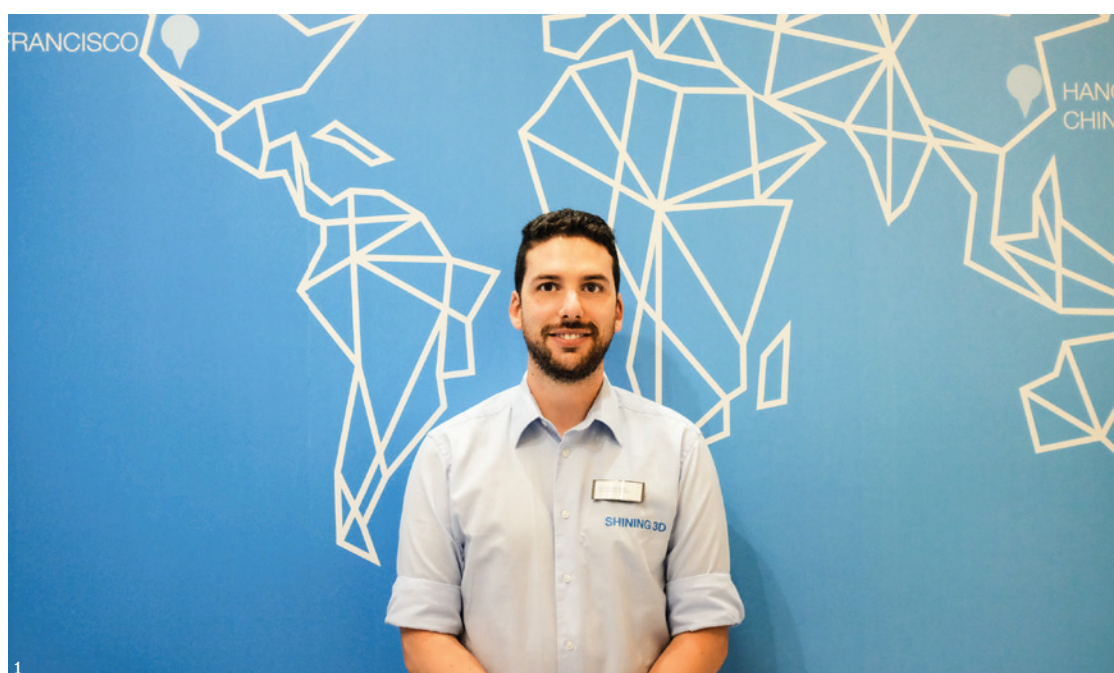
What should dental professionals watch out for in order to ensure that these digital tools remain an asset in their daily practice?

Digital dentistry represents an improvement and an advantage for dentists and dental technicians only if it is integrated into a complete system—only if the digital tools assist them from the beginning to the end of the treatment or task. Otherwise, it is possible that the technology can represent an obstacle.

If one company provides all the steps of the digital solution, and if that company has expertise in the different segments of this digital workflow—scanning, CAD and 3D printing—then this represents the greatest advantage for clinicians. There is a simple reason behind this: the learning necessary for the individual steps will be drastically reduced, owing to the fact that the customer will always be able to rely on the most direct support.

This is what SHINING 3D represents: a digital solution that is integrated, complete, constantly up to date, and accessible and affordable for all dentists and dental technicians. ◀

More information about SHINING 3D can be found at www.shining3d.com.



1 Riccardo Molinelli, SHINING 3D's regional sales manager for the Europe, Middle East and Africa region. (© Dental Tribune International)

Imagine the CADabilities

Exocad presented DentalCAD, exoplan and ChairsideCAD highlights at IDS 2021.

■ At IDS 2021, exocad, an Align Technology company, presented highlights of its three core products—DentalCAD 3.0 Galway, exoplan 3.0 Galway for implant planning and ChairsideCAD 3.0 Galway for single-visit dentistry.

The 360 m² booth was a central meeting point for exocad's global community at IDS. The trade show offered a rare opportunity for exocad users to meet specialists and developers from the Darmstadt-based software company in person. Visitors could linger at the booth's dozen software stations, learn about the 3.0

Galway release's highlights and ask exocad's software experts questions.

DentalCAD 3.0 Galway

Visitors experienced the 90 new and 80 additionally optimised features of DentalCAD 3.0 Galway. For example, they had the opportunity to try out the new Instant Anatomic Morphing. This feature automatically adjusts teeth in real time, greatly improving the speed and precision of anatomical tooth placement. Another exciting feature is parametric shape adjustment,

which can transform all tooth libraries from a younger to an older anatomy. At another station, on-site experts demonstrated how the Smile Creator module can automatically recognise facial features using new artificial intelligence-assisted technology. Other demonstrations included: the improved processing of bridge connectors and how multiple connectors can now be adjusted simultaneously, the creation of mock-up tooth set-ups and how the software supports virtually prepared models, and virtual tooth extractions.

Exoplan 3.0 Galway for implant planning

Exoplan 3.0 Galway is a powerful, open and efficient software package for virtual implant planning. Having over 40 new and over 60 improved features, the new Galway version represents a significant expansion of guided implantology possibilities and offers improved integration with exocad's DentalCAD software.

ChairsideCAD 3.0 Galway for single-visit dentistry

During IDS, dentists experienced the widest range of indications in the chairside CAD software market. That is because exocad's ChairsideCAD 3.0 Galway software offers a broad level of indications.

The joint platform with exocad DentalCAD, the world's leading CAD laboratory software, also unlocks unimagined possibilities for digital collaboration with tens of thousands of laboratories. More information can be found at <https://exocad.com/ids>. ◀◀



◀ For dental professional, who were unable to attend IDS in person, exocad offered live streamings during the show.



◀ IDS visitors had the opportunity to watch a number of live demonstrations at the exocad booth.



◀ At this year's IDS, exocad announced the release of ChairsideCAD 3.0 Galway, the next generation of its easy-to-use CAD software for single-visit dentistry.



◀ "Sharing ideas, discussing improvements, learning about new technologies that is really what IDS is all about," said exocad CEO Tillmann Steinbrecher. (All images: exocad)

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G-CAM: The ideal material for prostheses

Pioneer in graphene nanotechnology in dentistry exhibits at IDS.

■ The research by Spanish company Graphenano Dental on the reinforcement of polymer matrices has made it a pioneer of the use of graphene nanotechnology in dentistry. At the 2021 International Dental Show in Cologne, Graphenano Dental exhibited its products, such as the G-CAM disc for CAD/CAM milling systems, which relies on this technology.

Graphene is a form of carbon in which the atoms are arranged in a single layer in a 2D honeycomb lattice nanostructure. Among its principal properties are its high traction resistance, lightness, biocompatibility and low coefficient of thermal expansion. Furthermore, it is ecological and recyclable.

“Unlike zirconia, for example, which is still widely used, our graphene nano-reinforced biopolymer G-CAM disc has excellent blending properties,” explained Graphenano Dental General Manager Jesús Martínez. He went on to say that “the appearance is extremely natural and resolves all the mechanical, physico-chemical and biological failures of the rest of the materials currently used in the industry”.

The incorporation of graphene into polymers is an innovative strategy to improve mechanical properties, increasing the elastic modulus as well as the tenacity, reducing the appearance of cracks and/or the spreading of them, as well as decreasing the shrinkage rate during polymerisation.

“Our material also benefits patients, of course, as it is really light and a lot softer than zirconia. A zirconia prosthesis that weighs 70g may only weigh as little as 12g when manufactured using the resin and graphene combination. With G-CAM, patients feel no difference

to their natural teeth,” Martínez added.

G-CAM has a CE mark, and Graphenano Dental has thus mainly focused on the European market, but is steadily branching out. The South and North American markets are its next target. The G-CAM disc has

been submitted to the U.S. Food and Drug Administration for market clearance, and it will be available throughout the US in two to three months. To find out more about Graphenano Dental and the G-CAM disc, visit www.graphenanodental.com. ◀

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◀ Jesús Martínez, general manager of Graphenano Dental, met with Dental Tribune International at the 2021 International Dental Show to discuss the company's revolutionary products.


© Dental Tribune International



◀ With the aim of producing sustainable and biocompatible materials that reduce manufacturing costs and workload, Graphenano Dental launched its first commercialised product, G-CAM, with improved mechanical, chemical and biological properties.



◀ G-CAM bears a CE mark and is now available in more than 40 countries.

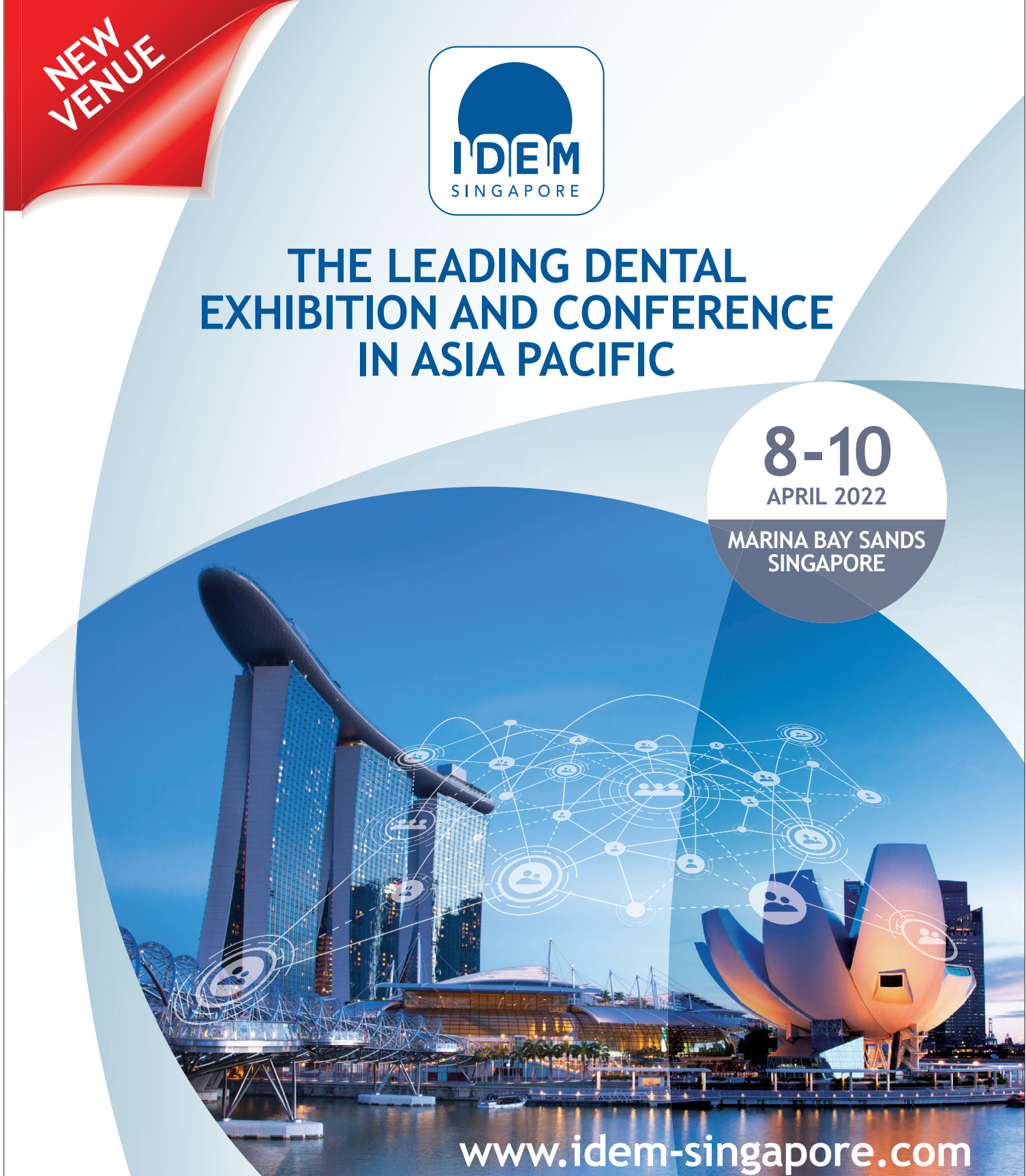


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“We’re giving dentists the ability to clearly communicate their diagnoses”

An interview with Pearl founder and CEO Ophir Tanz

■ At IDS, dental technology start-up Pearl introduced Second Opinion, an artificial intelligence (AI) software application that helps dentists detect pathologies and other conditions in dental radiographs. In this interview, Pearl founder and CEO Ophir Tanz speaks about why he developed Second Opinion and what dentists can expect from it.

Mr Tanz, you chose to leave your leading role in another AI company you founded, which focused on media, in order to launch Pearl. What made you turn to the dental field?

We spun Pearl out of my previous company, so it was a gradual shift. I’ve been interested in AI since I was a student. The early 2010s brought significant advances in the field. My previous company focused on media, which is largely visual, so we started working with computer vision, the category of AI that focuses on visual intelligence. I knew AI was a paradigm-shifting technology, and I started looking for new applications for our computer vision capabilities. Radiology was a fairly obvious choice. I investigated several medical fields and decided that dentistry would be the best. We began collecting and annotating radiographs to train an AI to perform dental diagnoses and assembled what is, to my knowledge, the largest collection of expertly annotated panoramic, bitewing and periapical images in the world. All that early development work took place at my previous company. Ultimately, I decided to spin off the dental division as Pearl, because I wanted to focus more on it. I guess you could say it was my baby. I saw how much potential it had to transform the dental field, and I wanted to give it my full attention.

You said you investigated several medical applications for AI. Why did you choose dentistry?

My dad’s a retired dentist, so I grew up in a practice, which may have influenced me a little. However, the main reason was that dentistry is uniquely suited to AI—at least compared with most other medical fields.

In what way?

It’s unique in several ways. In other fields you have radiologists—experts who are well educated and well paid. They are the gatekeepers who would have to give AI their blessing and push it forward in an organisation, but they would naturally feel threatened by something that might be able to do their job better than they could. They wouldn’t want to become redundant. Therefore, the threat of technology taking over the role of the key diagnostician creates a great deal of friction for anyone trying to introduce an AI radiology tool. However, in dentistry there is little of that friction because dentists aren’t radiologists. They’re asked to do that work, but it’s not their specialty and you’re not taking anything away from them by giving them a tool that helps them identify the conditions they’re trained to treat. Another difference is that, because of privacy concerns, there’s a much higher level of sensitivity around data associated with other medical fields. For brain cancer, lung cancer or mammography, it’s incredibly difficult to acquire the massive amounts of data that is needed to train the AI.

Was it easy to acquire data in dentistry?

Raw data, yes. You have to employ experts to annotate the data,



▲ Pearl announced at IDS 2021 that its Second Opinion AI solution is now commercially available in Europe. (© Dental Tribune International)

which is very time consuming and expensive, but obtaining radiographs is relatively easy. We actually have an excess of radiographs—far more than we will ever need to annotate. However, in other fields nobody wants to share imagery. And even when you are able to acquire that data, it’s incredibly scarce compared with what’s available in dentistry. If you do obtain that data, then of course, the final point of friction in other medical fields is that you’re

dealing with large hospital systems, which are quite hard to penetrate. These systems are incredibly bureaucratic. They’re legacy-oriented. It’s hard to sell into them. You go through the trouble to acquire data and convince radiologists to give your technology their blessing, only to be faced with the challenge of actually being accepted into the hospital system.

Would you say dentistry is more adaptable when it comes to new technologies?

Yes, for AI in particular. In dentistry, you have plenty of data, and you have dentists who won’t be adversely affected by AI—who, in fact, want it. In addition, it is easier to get into dental practices, as they are smaller, more agile and generally more interested in cost-effective innovation. Individual dentists and dental practices form a very entrepreneurial group. They want to make more money, deliver better care, and reduce overheads and liability. Also, they’re able to make adoption decisions directly, whether it’s an individual practice, a tenoffice group, or even a thousandoffice corporate dental company. I don’t mean to say there aren’t any hurdles for AI in dentistry, but they are considerably smaller than those in other medical areas.

What hurdles do you see as you prepare to release Second Opinion?

So far, dentists have been overwhelmingly positive, but I think convincing all dentists that AI assistance is a significant benefit will be very challenging. It seems un-

necessary to point out that all humans make mistakes. In order to encourage adoption of the product, we will probably have to raise more awareness of the surprisingly high level of diagnostic inconsistency among dentists. People don’t like to admit mistakes, though, even when they’re obvious. Therefore, it will probably be more productive to address that objection with education on how, even for perfect dentists, Second Opinion is extremely valuable as a patient communication tool.

How does it help with patient communication?

It’s an objective third party alongside the dentist and the patient. Patients generally have to place blind trust in their dentist. Whether the dentist’s diagnoses are objectively perfect or not, patients will visit another dentist if they have doubts or don’t like what they have been told. We’re giving dentists the ability to clearly communicate their diagnoses with the support of a tool that gives their patients a greater sense of assurance. It eliminates the doubt that makes patients seek a second opinion elsewhere—that is why we call it Second Opinion.

Is there anything you would like to add?

There’s so much that could be said about this topic. For now, I would just like to say that I’m looking forward to sharing this technology at IDS. Our team has worked extremely hard to deliver a highly accurate and complete radiological assistant, so it will be rewarding to see it put to use. ◀



▲ Ophir Tanz is the founder and CEO of Pearl. (© Dental Tribune International)

Extension of Ceramill CAD/CAM workflow

Digital solutions from Amann Girrbach lead the way into the dental practice.

■ With its Ceramill Direct Restoration Solution (DRS), Amann Girrbach has extended its integrated digital workflow to the dentist and thus closed the communication gap that existed between the dental practice and the laboratory. The new digital workflow from Amann Girrbach has been designed to enable interdisciplinary future-oriented collaboration and streamlined production processes that enable same-day dentistry.

In this process, both partners contribute their core competencies in order to provide patients with definitive and functional prostheses in a more timely and less complicated way. The delivery of smaller units is possible on the same day, depending on the local distance between the two partners.

Depending on the type of collaboration that is desired, three team workflows are available in combination with the corresponding Ceramill DRS Kits. In each case, the central basis of these workflows is AG.Live, a new digital platform that provides the infrastructure and patient case management procedures to support a level of consistency and efficiency that was previously unattainable. As such, AG.Live takes communication and collaboration between the practice and the laboratory to an entirely new level.

Virtual platform AG.Live creates freedom, more efficient processes and greater customer proximity

With AG.Live, Amann Girrbach has started the largest digitisation offensive in the company's history. This web-based portal for collaboration between laboratories and den-



tists offers comprehensive digital services at all levels. For example, AG.Live is a central tool for digital case management, networking, infrastructure, material management and support services. It is also a knowledge database that will gradually replace the company's previous C3 customer portal.

On the one hand, the platform networks machines and materials in the laboratory, thereby simplifying processes and increasing quality and reproducibility. On the other hand, the greatest advancement is that AG.Live connects the growing global network of dental professionals who are operating digitally. This bridges the interdisciplinary gap between dentists and dental technicians and facilitates future-oriented

cooperation. Furthermore, within this network of optimised and new partnerships, participants can focus on their strengths and better position themselves on the market.

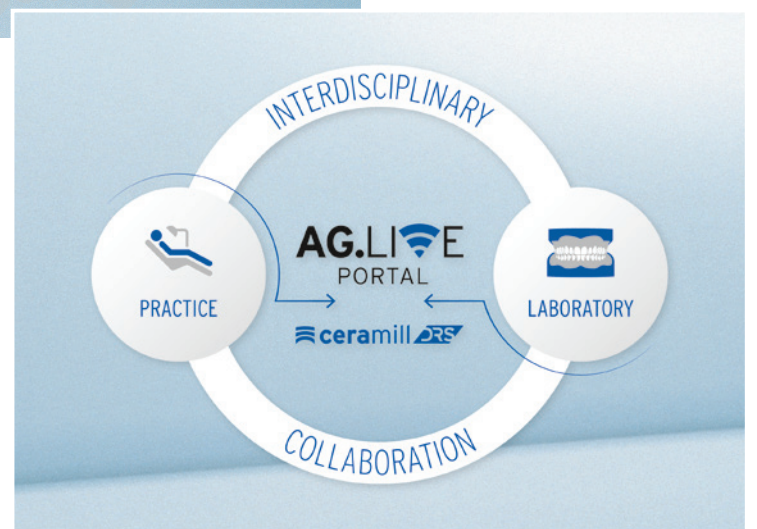
Extending the digital Ceramill CAD/CAM workflow to the dentist

The Ceramill DRS Connection Kit is the basic entry-level option, with which dentists and laboratories can already take full advantage of digitisation. It consists of a Ceramill Map DRS intra-oral scanner, the associated scan software and the connection to AG.Live. Any order data, including all the required information, can therefore be shared with the laboratory seamlessly and in real time via AG.Live. This eliminates the need

and this is possible on the same day in cases of simple restorations. Such timely delivery can lead to a better dental experience for the patient and could ultimately attract new patients to the practice and generate more orders for the laboratory.

If the preferred material is zirconia, the High-Speed Zirconia Kit, consisting of Zolid DRS zirconia and a corresponding Ceramill Therm DRS sintering furnace, can optimally support the laboratory in fabricating straightforward zirconia restorations on the same day.

In an additional step—which can provide patients with their prostheses even faster—the system in the dental practice can be upgraded at any time with the Ceramill DRS Production Kit. This allows simple restorations to be fabricated in the



for handwritten job sheets and conventional impressions. All that is necessary is the physical delivery of the restoration to the dental practice,

practice and placed in the patient's mouth in a single session.

All Ceramill DRS Kits are currently available for pre-ordering within Germany, and the High-Speed Zirconia Kit is already available to laboratories. Early bird DRS users benefit from particularly close support from the DRS specialists at Amann Girrbach. For further information and to pre-order, visit: www.ceramill-drs.com.

Free online presentation about the innovative Ceramill DRS

In this online presentation, Amann Girrbach explains why it places the dental laboratory at the centre of the prosthetic workflow and ensures the highest possible quality and patient satisfaction through close integration and digital exchange with the dentist. Even with the basic version, the Ceramill DRS Connection Kit and the link to the AG.Live digital platform, the practice and laboratory can connect in a unique manner and take full advantage of the benefits of digitisation. The presentation also explains interdisciplinary collaboration for restorations in a single session or on the same day, using the upgrades to the Ceramill DRS Production Kit and the DRS High-Speed Zirconia Kit.

The full presentation can be accessed at <https://bit.ly/3gocZM>, free of charge, in various languages.

More information can be found at www.amanngirrbach.com. ◀



“We like to maximise output and quality at an affordable price”

VOXELTEK offers dental technicians easy entry into the digital workflow. By Jeremy Booth



• The VOXELTEK team at IDS 2021, including László Diósi, global sales manager at VOXELTEK (right), and Tamás Liskai (centre), the company's product development manager.

■ 3D printing was a major topic at IDS 2021. Based in Budapest in Hungary, VOXELTEK develops and manufactures technology for dental laboratories and offers them an easy introduction to implementing a digital workflow and a quick return on investment. Dental Tribune International spoke with László Diósi, global sales manager at VOXELTEK, and Tamás Liskai, the company's product development manager, to find out more.

Can you please tell us about the company – when and how did you get started?

Liskai: The company was incorporated in 2013 in Budapest. At that

time, we started developing unique 3D-printing technology, and later we turned our focus to the dental industry. We saw that, with the ongoing development in the industry – namely with oral scanners and CAD/CAM software – there was an increasing demand for affordable desktop 3D printing in dentistry. We moved quickly so that any laboratory, small or large, could apply and use this technology. It was during IDS 2017 that we first pre-

What has changed since IDS 2017 in terms of the technology and what you are offering dentists?

Liskai: At that time, 3D printing was still relatively new and not as widespread as it is today. Accordingly, we had a lot of discussions with potential clients about the core, very basic, principles of the technology. In the last few years, we have spent much less time explaining the technology because people are more knowledgeable and they seem to know what 3D printing is all about. Not only are they more aware of it, but also they seem to un-

derstand what this technology can do for them in terms of the digital manufacturing of dental parts.

What we have seen in the market is that people buy 3D printers and then realise the cost of the materials—which is something that needs to be purchased continually, usually at a high price—and so they begin to shop around for cheaper materials, and this creates a problem because they often try to adjust their existing 3D printer so that it will work with that material. To counter this, we offer a wide range of our own materials, including resins, and these are all pre-set in the software of the printers, and we really try to encourage customers to use our materials.

Is this one of the things you are focusing on at IDS 2021?

Diósi: Yes! If visitors buy one of our 3D printers, as an IDS special, they will receive a two-year supply of our most commonly used material: VOXELTEK Pro. This is not only an attractive offer, but also helps to eliminate the possibility of customers trying to use other materials with our 3D printers, which can lead to negative outcomes that may be blamed on the hardware.

What are some of the highlights of the technology which you are offering?

Liskai: In terms of applications, our 3D printers are much more accessible—much more affordable—for small and mid-sized laboratories compared with some competitor products, which are in the higher price range. It goes without saying that we have always aimed to match, or even exceed, the quality that is being offered by some of the larger players in the industry. Naturally, however, we offer the printers at a lower price. To sum it up, we like to maximise output and quality at an affordable price.

ries have already realised that, with the wider use of intra-oral scanners, if they do not adopt the technology in the laboratory, then they may lose their existing customers.

What do you think about the new developments that are taking place in 3D-printing applications in dentistry?

Liskai: We have seen some very interesting developments in the field of 3D-printing materials, such as splint materials, directly printed clear aligners and permanent crowns, and these developments make us very excited about the near future of 3D-printing applications in dentistry.

We feel very proud and excited to be part of the revolution that is taking place, and we are doing our best to come up with our own developments and applications that will take 3D printing for dental applications even further.

If a dentist here at IDS asks you why he or she should get a 3D printer, what would you answer?

Diósi: If he or she wants to print reliable temporary crowns or models in a fast and efficient way, we have the solution to do that in-house.

Liskai: The dentist could shop elsewhere and spend a lot more money in order to get the same solution, or he or she could come to us and get a solution of equal quality for a lower price. ◀

More information can be found at www.voxeltek.com.



• The system currently consists of a high-resolution 3D printer with fast printing capabilities, a desktop 3D scanner, a resin storage unit and a post-polymerising chamber for final polymerisation of the printed parts.

time, we started developing unique 3D-printing technology, and later we turned our focus to the dental industry. We saw that, with the ongoing development in the industry – namely with oral scanners and CAD/CAM software – there was an increasing demand for affordable desktop 3D printing in dentistry. We moved quickly so that any laboratory, small or large, could apply and use this technology. It was during IDS 2017 that we first pre-

derstand what this technology can do for them in terms of the digital manufacturing of dental parts.

What is important for customers when they approach you, and what should they be aware of?

Diósi: Certainly, they are looking for 3D printers that are fast, reliable and versatile when it comes to what they offer and the options related to the printing materials that can be used.

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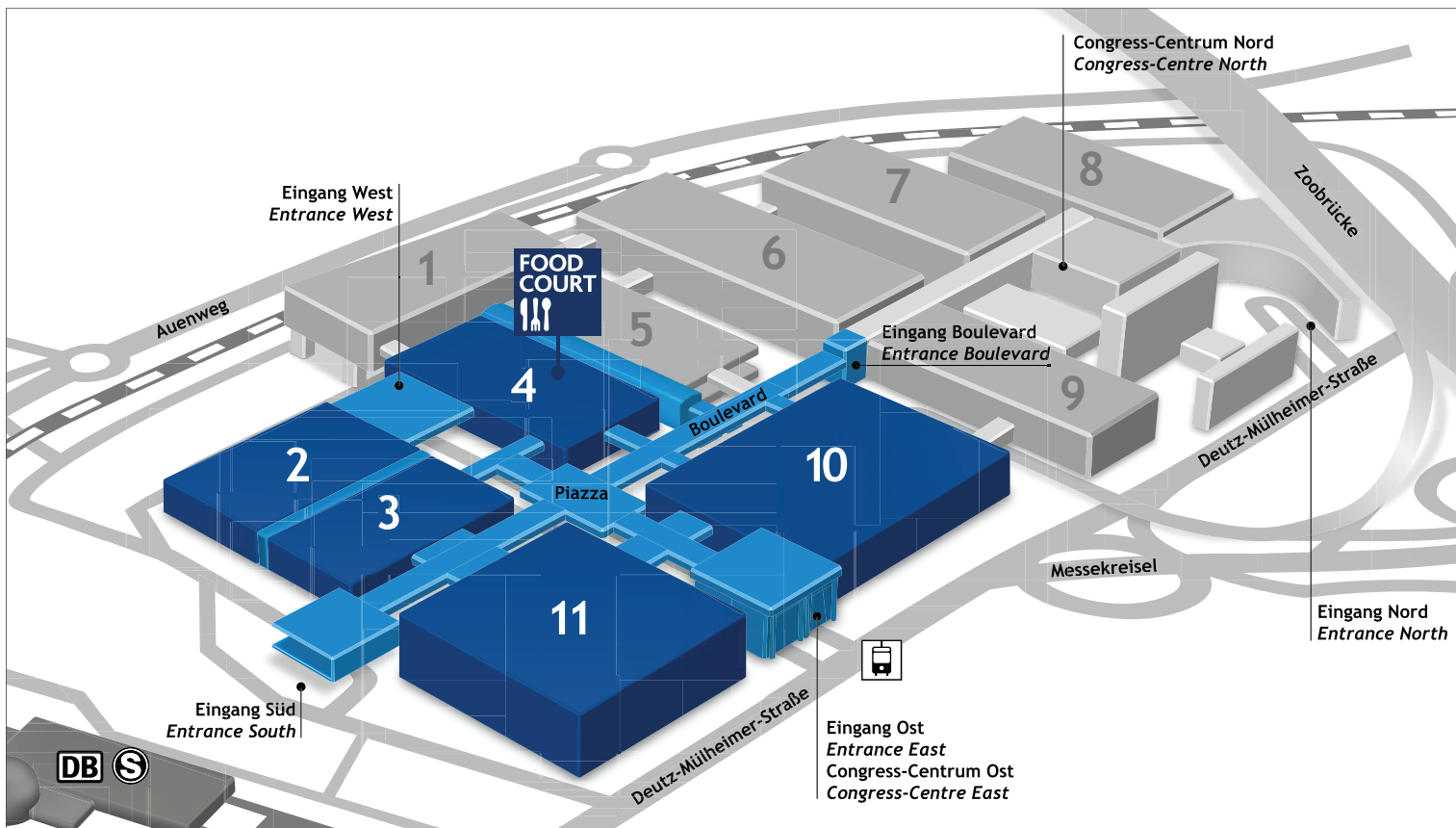
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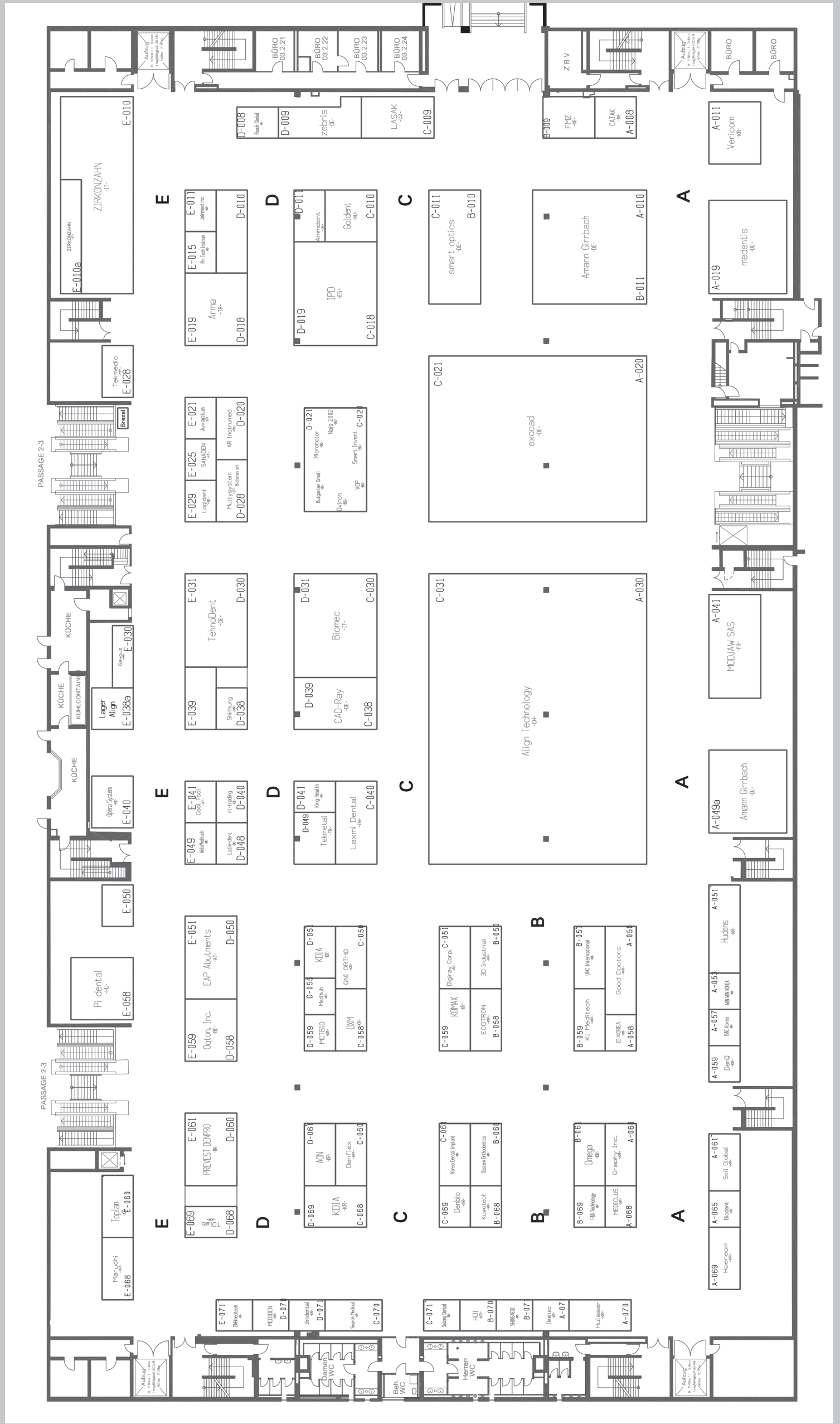
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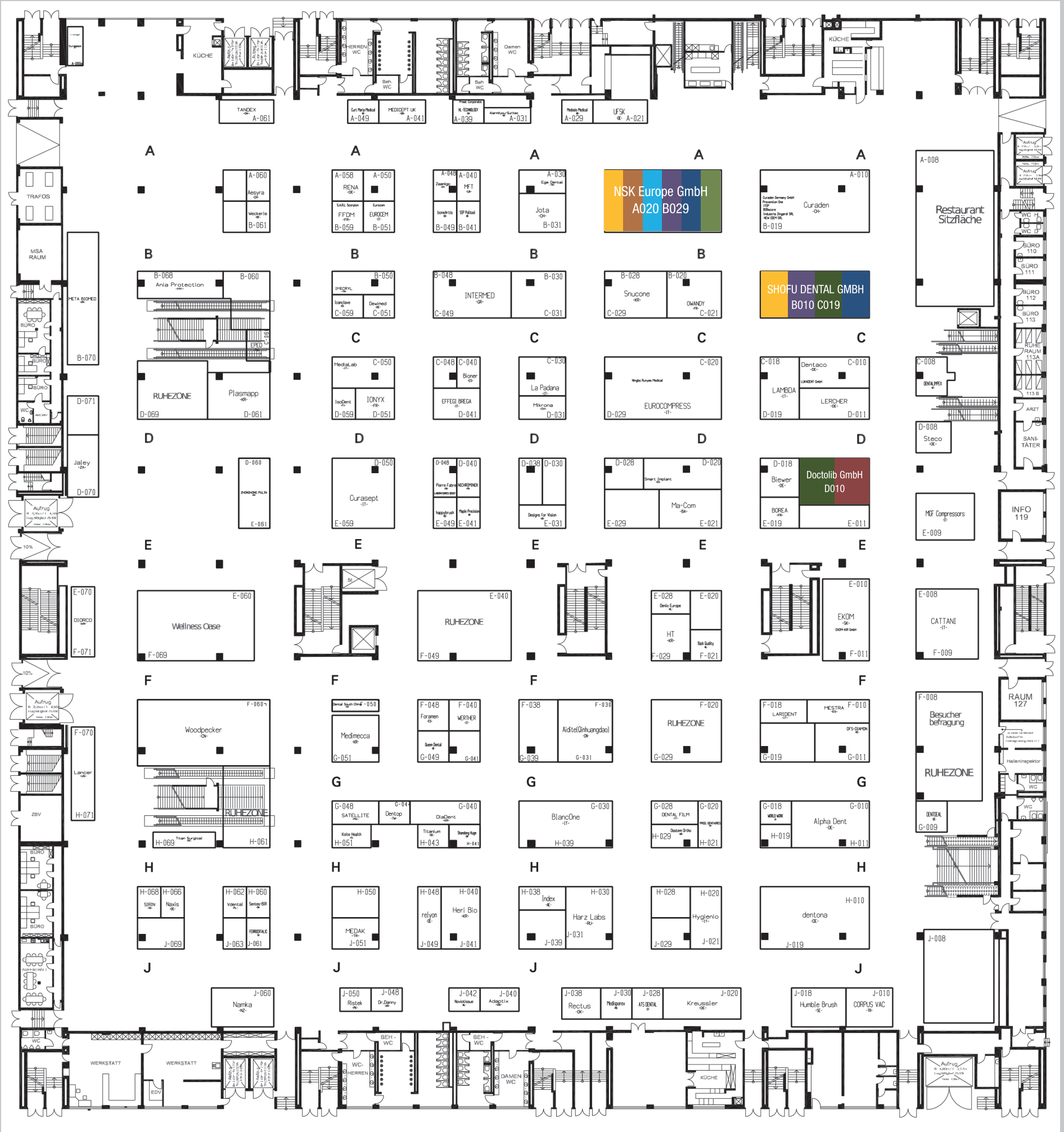
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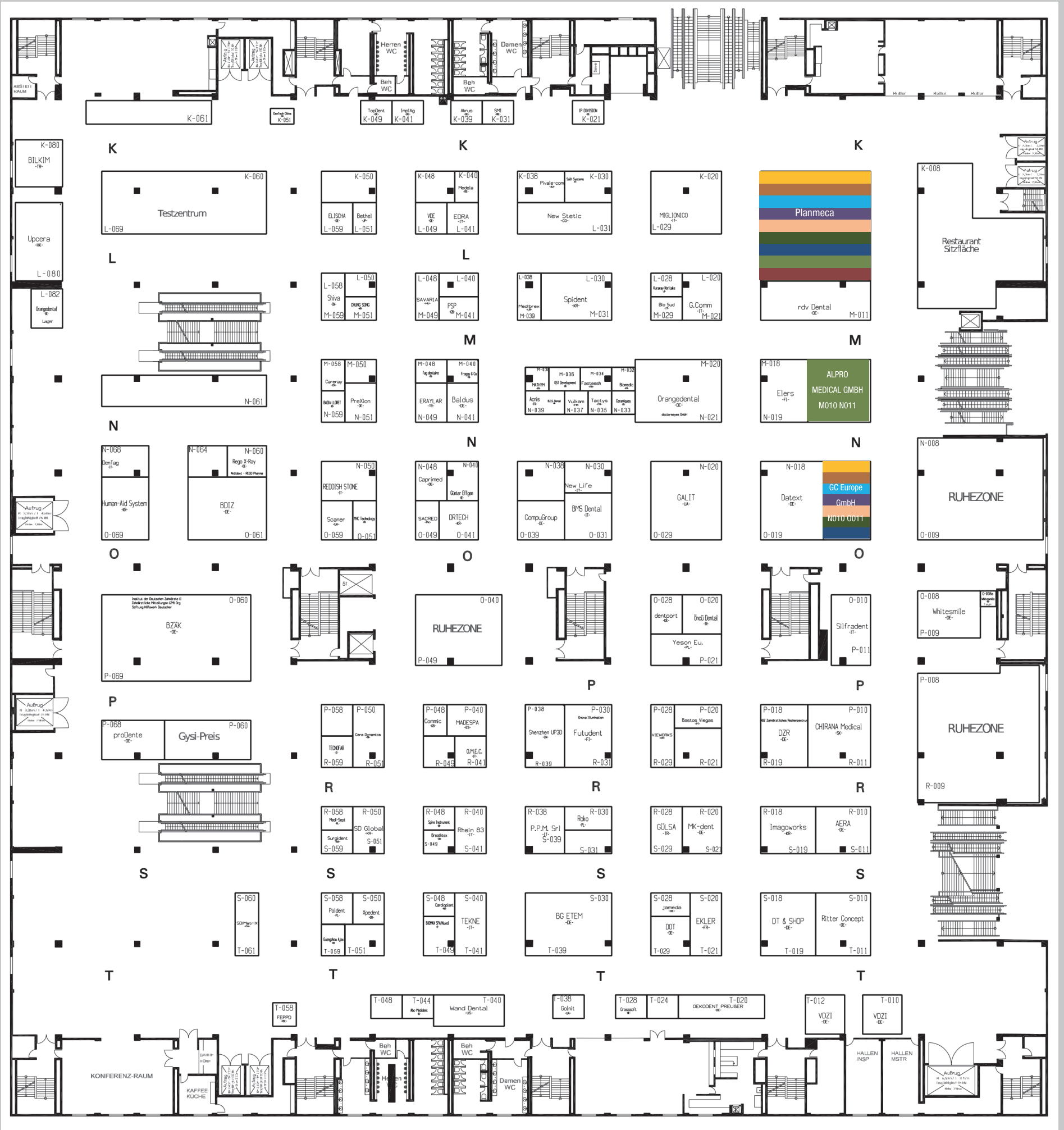


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		F031	BIOMAX SPA/Nuvola	11.2	T049			R011	Diagnocat Inc	10.2	R047
Akrus GmbH & Co. KG	11.2	K039	Biomec SRL/Oxy Implant	3.2	C030	Commic International Ltd.	11.2	P048	Diashine Polish	10.2	R046
Aktident – REGO Pharma	11.2	N060				CompuGroup Medical Deutschland AG,			DIASWISS S.A.	2.2	E069
Akzenta International SA	10.1	B028	Bionah GmbH	3.1	J019	Geschäftsbereich Telematikinfrastruktur	11.2	O039	Digiray Corp.	3.2	C051
		C029	Bioner S.A.	11.1	C040	Copega s.r.l.	10.2	M051	Digital Dental	2.2	D070
Alan & Co s.a.	10.2	S032	Biotech Srl – BTK	10.1	E040	Coramex SA Division of Corix Medical Systems	10.2	P048			E071
Alarm4you – Suritec	11.1	A031				CoreBone Ltd.	2.2	D061	DIORCO Co., Ltd	11.1	E070
Albert Waeschle Ltd.	10.1	G029	BIOTEM CO., LTD.	2.2	A041	Corident	3.1	M051			F071
Align Technology Switzerland GmbH	3.2	A030	Bisico Bielefelder Dentalsilicone			CORPUS VAC Vacuum Sistemleri Sanayi ve			DISPOTECH SRL	10.1	A042
		C031	GmbH & Co. KG	10.2	L031	Ticaret Limited Sirketi	11.1	J010	DMEGA Co., Ltd.	2.2	C070
Alpha Dent Implants GmbH	11.1	G010	BlancOne	11.1	G030	Coruo	3.1	M060			3.2 B061
		H011				CosmoLab Manufacturing	11.1	D071	Dmetec Co., Ltd.	3.2	A071
ALPHA LASER GmbH	10.1	F021	Blossom – Mexpo International Inc.	10.2	P050	CROSSSOFT GmbH	11.2	T028	DMG – Chemisch-Pharmazeutische		
ALPRO MEDICAL GMBH	11.2	M010	BLUE SAFETY GmbH	2.2	A030	Cumdente GmbH	10.2	N024	Fabrik GmbH	10.1	G018
		N011				Curadent AG	11.1	A010	DMP Dental Industry S.A.	10.1	B019
Amann Gairbach GmbH	3.2	A010	BMS Dental S.r.l.	11.2	O031			B019	DNHmedtech Co.	3.2	E071
		B011	BOBscore	11.1	A010	Curaden Germany GmbH	11.1	A010	Doctolib GmbH	11.1	D010
		A049a						B019	Doctor Smile	11.1	C018
Amazing Industries	3.1	J048	Bondent Dental Group	10.1	A038	Curasept Spa	11.1	D050			D019
American Dental Systems GmbH	10.2	M040	boneArtis AG	11.1	B049			E059	doctoreyes GmbH	11.2	M020
		N041	Bonegraft Biomaterials Co.	2.2	E065	Curt Maria Medical GmbH	11.1	A049			N021
Amrit Chemicals & Minerals Agency			Bontempi	10.2	M053	Cybermed Inc.	2.2	A081	DOT GmbH	11.2	T029
(Ammdent)	3.2	D011	BOREA SAS	11.1	E019	D.T.U. Srl	10.2	L056	Dr. H. Stamm GmbH Chemische Fabrik	10.1	F019
Andrew Medical srl	10.2	L061	BPR Swiss GmbH	10.2	N029	Daddy D Pro, Inc.	10.2	S048a	Dr. Jean Bausch GmbH & Co. KG	10.1	G010
Ania Protection Sdn Bhd	11.1	B068	Braxton Mf. Co., Inc.	10.2	R041	DAEGU TECHNOPARK	3.1	L050g			H011
Anton Gerl GmbH	10.1	G030	Brit Ortho	2.2	E058			M051g	Dr.Danny Co., Ltd	11.1	J048
		H039	BRUMABA GmbH & Co. KG	10.1	A028			L060g	Dreve Dentamid GmbH	10.2	O010
		G035	Buchholz GmbH Die Praxiseinrichter	10.2	L037			M061g			P011
AON Co., Ltd.	3.2	D061	Bulgarian SME Promotion Agency BSMEPA	3.2	C020	DATEXT Beratungsgesellschaft für Daten-			Dr-Kim Co.	2.2	C020
Apollo Implant Components Sp. z o.o. Sp. K.	10.2	N037				und Textverarbeitung mbH	11.2	N018	DRTECH Corporation	11.2	O041
AR Instrumed	3.2	D020						O019	DSI Dental Solutions Ltd	2.2	D061
AR Instrumed Deutschland GmbH	3.2	D020				DATRON AG	3.1	J010	DT&SHOP GmbH	11.2	S018
ARDET Dental & Medical Devices S.r.l.	10.1	F016	Bundesverband der zahnmedizinischen					L011			T019
		G017	Alumni in Deutschland e.V. (BdZA)	11.2	O060	Decera/ Mira Jung	3.2	D068	DTDS – Development and Technology of		
ARGEN Dental GmbH	10.1	C020						E069	Dental Systems S.L.	3.1	M029
		D029	Bundesverband der Zahnmedizinistudierenden			DemeTech Corporation	2.2	B060	D-TEC Lighting Systems	10.1	F042
Aries Medical S.R.L.	10.2	L058	in Deutschland e.V. (bdzm)	11.2	O060	Denbio Co., Ltd	3.2	C069	DÜRR DENTAL SE	10.1	E030
ARIES MEDICAL SRL	11.2	M011				Dendia GmbH	10.2	T022			F031
Arma Dental Uretim Sistemleri			Bundeszahnärztekammer – Arbeitsgemeinschaft der			Denflex Co., Ltd.	3.2	C060	DXM Co., Ltd.	3.2	C058
San Ve Tic Ltd Sti	3.2	D018	Deutschen Zahnärztekammern e.V. (BZÄK)	11.2	O060	Denlo Europe B.V.	11.1	E028	Dyamach s.r.l.	3.1	L061
		E019				DenQ	3.2	A059	Dynaflex Orthodontics	10.2	R053
Aseptico, Inc.	10.2	R014	BUSCH & CO. GmbH & Co. KG	10.2	R010	Denstar Co., Ltd.	3.1	M061	DYNA-MESS Prüfsysteme GmbH	2.2	B040
ASI Dental Specialties	10.2	S053a	Business France	11.2	M038g	Dentac	11.2	O020	Dynamic Abutment Solutions	10.2	T019
Asiga Pty Ltd	3.1	L030				Dentaco GmbH	11.1	C010	Dynamo Stol ApS	10.1	A039
ASTRA MOBILI METALLICI	10.1	A040				DenTag Srl	11.2	N068	DZR Deutsches Zahnärztliches		
ATI Advanced Technology Inc.	3.1	J080	C4W	3.1	J038	DENTAL DEVICES	10.2	T024	Rechenzentrum GmbH	11.2	P018
ATS DENTAL s.r.l.	11.1	J028				Dental Direkt GmbH	10.2	N031			R019
Aurelia Gloves div. of Supermax	10.2	R042a	CA DIGITAL GmbH	10.1	B040	DENTAL FILM s.r.l.	11.1	G028	EAP(R) Produktions- und		
Avalon Biomed	10.2	P058				Dental Innovative Design LLC	10.2	S049	Patentverwertungs GmbH	3.2	D050
B&B Dental SRL	10.1	B041	CAD-Ray Manufacturing GmbH	3.2	C038	DENTAL MARKET s.r.l.	10.1	B043			E051
B&E Korea Co., Ltd	3.2	A057				DentalMonitoring	2.2	B051	Eastdent Co., Ltd	2.2	D050

Firma Company	Halle Hall	Stand Booth	Firma Company	Halle Hall	Stand Booth	Firma Company	Halle Hall	Stand Booth	Firma Company	Halle Hall	Stand Booth
ebro – Xylem Analytics Germany Sales GmbH & Co. KG	10.2	L008	G & Z Instrumente GmbH	10.2	S038	ICE – Agenzia per la promozione all'estero e l'internazionalizzazione delle imprese italiane	10.2	L049g	Kohdent Roland Kohler Medizintechnik GmbH & Co. KG	10.2	L029
ECLAIRE Srl	10.2	L061	G.Comm S.r.l.	11.2	L020			L050g	Koite Health Oy	11.1	H051
Ecleris USA	10.2	R056			M021			M051g	KOMAX CO., LTD.	3.2	C059
ECOTRON Co.,Ltd	3.2	B058	G.N Dental Instruments	10.2	S030			L051g	Korea Dental Devices Industry Association	3.2	A051g
ECS srl	10.1	F049	Galbiati Italia srl	10.2	M059			L058g			A058g
Edarredo S.r.l.	10.2	L054	GALIT Private Company	11.2	N020			M059g			B059g
EDRA LSWR S.p.A.	11.2	L041			0029			L060g			A060g
EDS Essential Dental Systems	10.1	F040	Garrison Dental Solutions	10.1	B039			M061g			B069g
Effegi Brega S.R.L.	11.1	D041	GAVOUZ Corp.	3.2	E030			L061g			A061g
EG Medical S.r.l.	2.2	A008	GC Corporation	11.2	N010			L068g			A070g
Ege Dental Endüstri	11.1	A030			0011			M069g			C079g
EKLER	11.2	S020	GC GERMANY GmbH	11.2	N010			L070g			B050g
		T021			0011						C059g
EKOM spol. s.r.o.	11.1	E010	GDF Gesellschaft für dentale Forschung und Innovationen GmbH	10.1	F046	ID KOREA CO., LTD. IDEAS DENTALES	3.2	A058			B060g
		F011			E040	IEETU CO., LTD.	3.1	L058			C069g
EKOM-AIR GmbH	11.1	E010	GDT Implants	2.2	E040	i-LINQ NOVODENT SA	10.2	M028			C050g
		F011	Genoray Co., Ltd.	10.1	E048	iLumi Sciences	10.2	S051a			D059g
Elaboro GmbH	3.1	M040	GENTILIN SRL	10.2	M061	Imagoworks Inc.	11.2	R018			C060g
Elers Medical Composites	11.2	M018	Germo SPA	10.2	M063			S019			D069g
		N019	GFDI mbH Gesellschaft zur Förderung der Dental-Industrie mbH	10.2	P008	imes-icore GmbH	10.2	R028			C068
ELISCHA Medical GmbH	11.2	L059			L061	IMICRYL DIS MALZEMELERI SAN. ve TIC. AS	11.1	B050			D069
Elma Schmidbauer GmbH	10.2	R035	Ghimas S.p.A.	10.2	L061	ImplAg, Implantologie-Agentur Thomas					C070g
EMERITALIA srl	10.2	L061	GIESSE TECHNOLOGY SRL	2.2	E041	Wachtel e.K.	11.2	K041			D070g
EMS Electro Medical Systems GmbH	10.2	L010	Global D	10.2	M048	Implant Protesis Dental 2004 SL	3.2	C018			D051
		M019	Glorious Enterprises	10.1	F025			D019			E060g
		L011	GNI ORTHO	3.2	C050	Implantswiss-Novodent SA	10.2	M028			C061
		L021	GO2cam International	3.1	J038	Inci Dental Ltd. Sti	3.2	D018			J020
Ennebi Elettronica SRL	10.1	B053			L039			E019			L028
Enova Illumination	11.2	P030	Goldent Hungary Ltd.	3.2	C010	Index Conferences & Exhibitions					M029
		R031	Golnit Ltd.	11.2	T038	Organisation Est.	11.1	H038			B068
Enviro GmbH & Co. KG	10.2	N045	Good Doctors Co., Ltd.	3.2	A050	Industria Zingardi SRL	11.1	A010			H021
EnvisionTEC GmbH	3.1	M039	Graphenano Dental s.L.	3.1	H040			B019			C030
EPED Inc.	11.1	C060			J041	Infodent SRL International Infodent	2.2	D010			C008
E-Procs Co.,Ltd	3.1	L060	Graphy Inc.	3.1	H051			E011			D048
Eraylar Akriklik San. Ins. Taah. Ve Dis Tic. A.S.	11.2	N049			A060	Innovapharma Brasil	11.1	J008			C008
ESQUIRE SAS	10.2	L050	Greater New York Dental Meeting	10.2	P008	Innovative Material and Devices Inc.	10.2	S047			C018
Esro AG	10.2	L023	GRS Guide System, Inc.	10.2	R048	Institut der Deutschen Zahnärzte (IDZ)	11.2	O060			D019
		L023a	Guangdong Launca Medical Device Technology Co., Ltd.	10.2	P018			P069			S018
Eur-Med Slovakia s.r.o.	10.1	C030	Guangzhou Ajax Medical Equipment Co., Ltd	11.2	T059	Intensiv SA	10.2	N040			T019
EUROCEM s.r.l.	11.1	B051	GUANGZHOU HEYGears IMC. INC	10.1	C059	Interdent d.o.o.	10.2	O060			F070
Eurocom di Poletto Renato	11.1	B051	GUANGZHOU HEYGears IMC. INC	10.1	C059	INTERMED S.A.	11.1	B048			H071
EUROCOMPRESS di Garofalo Rag. Giuseppe	11.1	C020	Guilin Woodpecker Medical Instrument Co., Ltd.	11.1	F060			C049			R057
		D029	GÜLSA TIBBI CIHAZLAR VE MALZ. SAN. TIC. A.S.	11.2	R028	International Medical College (IMC)					F018
EVE Ernst Vetter GmbH	10.2	S029			S029	MIB GmbH	2.2	E008			C009
ExamVision ApS	10.2	S020	Günter Effgen GmbH	11.2	N040	IONYX	11.1	D051			R056a
		T021	Haenaem Co., Ltd.	3.2	A069	IOS International Orthodontic Services	10.2	P046			G041
exocad GmbH	3.2	A020	Hager & Meisinger GmbH	10.1	A010	IP Division Technische Produkte GmbH	11.2	K021			A011
		C021			B011	IPPI SRL	3.1	L028			L038
F&B Technology	3.2	B069			A016	i-ProDens GmbH	10.2	R028			D048
F1 Dentalsysteme GmbH	10.2	R030			B017	iRay Technology Company Limited	10.2	T018			A038
F1 Dentalsysteme Deutschland GmbH	10.2	R030	Hager & Werken GmbH & Co. KG	10.2	R020	iRES SAGL	2.2	C060			C040
FAG	11.2	M048	Hamer	2.2	D070	IsoDent OY	11.1	D059			R050
FairImplant GmbH	2.2	A050			E071	i-System NOVODENT SA	10.2	M028			D010
Fasteesh	11.2	M034	Hangzhou PengWu Medical Equipment Co., Ltd	3.2	D048	iTOP	11.1	A010			E011
FEPPD	11.2	T058			D048	Jainmed inc	3.2	E011			A048
FERROCRTALIC d.o.o.	11.1	J061	HANS Korea Co., Ltd.	2.2	C040	Jaley solution Ltd.	11.1	D070			M069
FFDM Tivoly	11.1	B059	happybrush GmbH	11.1	E049	jameda GmbH	11.2	S028			H030
FIDE Federation of the European Dental Industry	10.2	P008	HASS: Human-Aid System Supplier	11.2	O069	JDentalCare srl	3.1	H031			J031
FIMET OY	10.2	R030	HATHO GmbH	10.1	B018	Jiangsu Dynamic Medical Technology Co., Ltd	2.2	C071			L069
FINO GmbH	11.2	S018	hawo GmbH	10.2	O049	Jinidental Ltd.	3.2	D071			F040
		T019	HD ACADEMY GbR	10.1	F012	Jota AG	11.1	B031			K010
FiteBac	10.2	S057			G015	Juvaplus SA	3.2	E021			E029
Flotecno srl	10.2	L058a	HDI Inc.	3.2	B070	Karl Kaps GmbH & Co. KG	10.1	F050			F040
FMZ GmbH	3.2	B009	HDX WILL Corporation	2.2	D041	KDIA	3.2	A058g			C010
FOLLOW-ME! TECHNOLOGY GmbH	3.1	L018	Heka Dental A/S	10.2	P030			B059g			H011
		M019			R031	KEMMER PRÄZISION GmbH	2.2	C049			D058
Fonic Dental LLC	10.2	P042	Helmut Zepf Medizintechnik GmbH	10.1	B030	KENDA AG	10.2	P010			F025
For You High Quality S.r.l.	10.2	M059a			C031			R011			E021
FORAMEN SL	11.1	F048	HEPHZIBAH CO., LTD.	3.1	M030	Kerox Kft.	3.1	L008			P040
Formlabs GmbH	3.1	H030	HERIBio	11.1	H040	KIDS-E-DENTAL LLP	10.2	L040			A012
		J031			J041	Kimia Parto Dandan	3.1	H078			L062
Forumtec	2.2	E040	HL Technology SA	11.1	A039	King Health Dental Instruments	3.2	D041			T012
Fraga Dental	2.2	A050	HORICO – Hopf, Ringleb & Co. GmbH & Cie.	10.2	M009	KJ Meditech Co., Ltd.	3.2	B059			E041
Franken GmbH & Co. KG Fabrik für Präzisionswerkzeuge	3.1	M021	Hospimed Mfg	10.2	L035	Koelnmesse GmbH	digital	digital			E068
Frasaco GmbH	2.2	D010	HT Co., Ltd.	11.1	F029	Koelnmesse GmbH					M038
		E011	Hudens Bio Co., Ltd.	3.2	A051	Geschäftsbereich International	digital	digital			R040a
Fraunhofer-Institut für Keramische Technologien und Systeme IKTS	3.1	M040	Hufschmied Zerspanungssysteme GmbH	3.1	M020	Koelnmesse GmbH Messseteam	digital	digital			
Froggy & Co	11.2	M040	Hulaser, Inc.	3.2	A070	Koelnmesse Pte Ltd	10.2	P008			M030
FTB Filtertechnik Brockmann GmbH & Co. KG	10.2	L032	Hygienio Srl	11.1	H020	Koelnmesse s.r.l.	10.1	A040g			D059
Fussen GmbH	10.2	T026			J021			B041g			R015
Futudent Novocam Medical Innovations Oy	11.2	P030	I.C. LERCHER GmbH & Co. KG	11.1	D011			A048g			F020
		R031	ic med EDV-Systemlösungen für die Medizin GmbH	10.2	R038			B049g			G021
			IC Medical GmbH	10.2	N049			A050g			H022
			Icanclave Europe S.L.U	11.1	C059			B051g			J051

Firma Company	Halle Hall	Stand Booth	Firma Company	Halle Hall	Stand Booth	Firma Company	Halle Hall	Stand Booth	Firma Company	Halle Hall	Stand Booth
Medcem GmbH	10.2	T030	Nichrominox S.A.S.	11.1	D040	proDente e.V.	11.2	P068	Shanghai Smartee Denti-Technology Co., Ltd.	10.1	F052
Medela Medizintechnik GmbH & Co. Handels KG	11.2	K040	Noris Medical Ltd.	2.2	A019	Prodways Tech	2.2	D070 E071	Sharpfield Company B.V.	10.2	O053
Medency S.R.L.	10.2	L061	Novamind P.C.	10.2	M037	Proimtech Sag.Hizm.San.veTic.Ttd.Sti.	2.2	D021	Shenzhen Up3D Tech Co., Ltd.	11.2	P038 R039
Medental International	10.2	S053	Novotissue	11.1	J042	Promarket Tasarım ve Teknoloji A.	3.1	L020	Shinhung Co., Ltd.	3.2	D038
medentis medical GmbH	3.2	A019	Novodent SA Monoimplant	10.2	M028	PROTECT-Laserschutz GmbH	10.2	S031	SHINIL DENTEC Co.,Ltd.	3.1	L050
Medi Loupes	10.2	R058	NSI srl	10.2	L060	Provita Medical GmbH & Co. Kg	10.2	T028	Shining 3D Technology GmbH	3.1	L040 M041
MEDIADENT Stahlmöbelwerk Austria GmbH	10.2	L039	NSK Europe GmbH	11.1	A020 B029	PSP Dental Co. Ltd.	11.2	M041	SHINSAEGI MEDI-TECH Co., Ltd.	3.2	B071
MEDIADENT Stahlmöbelwerk Germany GmbH	10.2	L039	NTA IMPLANT TICARET VE SAN.LTD.STI.	2.2	B070	QUART X-Ray QA Solutions	10.1	F048	Shiva Products	11.2	L058 M059
MediaLab	11.1	C050	nt-trading GmbH & Co. KG	3.2	D040	Queen Dental GmbH	11.1	G049	SHOFU DENTAL GMBH	11.1	B010 C019
Medibrex S.A.L.	11.2	L038 M039	NURIKON International Pvt Ltd.	2.2	E049	QUEST Corporation	2.2	D040	SIA ORTHODONTIC MANUFACTURER S.r.l.	10.2	L066a
Medical Precision Implants, S.A.	2.2	D010 E011	NWT Dental GmbH	10.1	G023	Rapid Shape GmbH	10.1	B020 C021	Silfradent s.r.l.	11.2	O010 P011
Medical Trading S.R.L.	10.2	L068 M069	O.M.A.R. di Cericola Giorgio	10.2	L068 M069	RDT GmbH	10.2	S038	Sinocera Technology USA	10.2	P040a
MEDICEPT UK LTD.	11.1	A041	O.M.S. S.p.A. Officine Meccaniche Specializzate	10.1	E028 F029	RDV DENTAL GmbH	11.2	M011	Sino-Dental 2022, Int. Health Exchange and Coop. Center, National Health Commision of P. R. China	10.2	P008
MEDICLUS Co., Ltd.	3.2	A068	ökoDENT GmbH & Co. KG	11.2	T020	Reach Global India Pvt Ltd.	3.2	D008	Sirin Dental LTD, Sti	11.1	H068
Medicom Healthcare BV	10.1	F040	Oley Tibbi Ürünler ve Medikal Malzemeler San.Tic.Ltd.Sti.	2.2	A078	Rectus Nordic ApS	11.1	J038	SIRIO DENTAL S.R.L.	10.1	F026
MEDIDEN CO.,LTD.	3.2	D070	OLIDENT Sp. Zo.o., Sp. K.	10.2	S024	REDDISH STONE S.R.L.	11.2	N050	Sisma spa.	10.2	M067a
MEDIFIVE Co., Ltd.	3.1	L080	Öncü Dental Tibbi Ma. ve Dis. Tic. A.S.	11.2	O020	Redon Teknoloji A.S.	3.1	J020 L021	Sistem Dental Medikal San. Tic. Ltd. ti.	2.2	A071
Medihub Co., Ltd.	3.2	D055	Oneday Biotech Co., Ltd.	3.1	M059	Rego X-Ray GmbH	11.2	N060	Smart Implant Solutions S.L.	11.1	D020
Medimecca Co., Ltd.	11.1	G051	Opera System/Euromax Monaco	3.2	E040	REITEL Feinwerktechnik GmbH	10.1	B021	Smart Invent Ltd.	3.2	C020 D021
MEDISEPT Sp. z o. o.	11.2	R058	OptiWaves	3.1	J050	relyon plasma GmbH	11.1	H048 J049	smart optics Sensortechnik GmbH	3.2	B010 C011
Medisporex (Pvt) Ltd.	11.1	J030	Oqton, Inc.	3.2	D058 E059	Remedi Co., Ltd.	2.2	E080	SMI SUTURES	11.2	K031
MEDISTOCK	10.2	T039	orangedental GmbH & Co. KG	11.2	M020 N021	RENA Technologies GmbH	11.1	A058	Smile Line SA	10.2	T020
MediThinQ Co., Ltd.	10.1	G051	Organical CAD/CAM GmbH	10.2	S019	Renfert GmbH	10.1	B010 C011	SMILE-Dental GmbH	10.1	B040 C049
Medosis Medical Devices Ltd.	11.1	A029	Osnrgy Srl	10.1	B047	RESISTA - Ing. Carlo Alberto ISSOGLIO & C. Srl	10.2	T011	SMILER PRO srl	10.2	L068 M069
MedPark Co.,Ltd.	2.2	B068 C069	Osstem Implant Co., Ltd.	2.2	A010 C011	Reverberi Arnaldo S.r.l.	10.1	F049	SNUCONE.CO., LTD	11.1	B028 C029
MEGADENTA Dentalprodukte GmbH	10.2	T038	OSSTEM ORTHODONTICS Inc.	3.2	B060 H029	Rhein 83 S.R.L.	11.2	R040 S041	Soltec S.r.l.	10.2	S028
megadental italia	10.1	A052	OST Development	11.2	M036	Richmond Medical & Dental	10.2	R058a	SPEIKO-Dr. Speier GmbH	10.2	S010
MegaGen Implant Co., Ltd.	10.2	M050 N059	OTEC Präzisionsfinish GmbH	3.1	M031	Ristek Instruments	11.1	J050	Spident Co., Ltd.	11.2	L030 M031
MELAG Medizintechnik GmbH & Co. KG	10.2	N028 O029	Otto Leibinger GmbH	2.2	D008	Ritter Concept GmbH	11.2	S010 T011	Spire Instrumentation Ltd	11.2	R048
Merz Dental GmbH	10.2	S011	OVERMED SRL	10.2	L068 M069	Roboice Makina Teknolojileri San. ve Tic. LTD. STI.	3.1	H006	Spring Health Products Inc.	2.2	D010 E011
MESA ITALIA SRL	10.1	A050	Oviron Ltd.	3.2	C020 D021	Robots and Design Co., Ltd.	3.1	J060	SprintRay Europe GmbH	3.1	J018 L019
MESTRA - TALLERES MESTRAITUA S.L.	11.1	F010	Owandy Radiology	11.1	B020 C021	ROEKO	10.2	P010 R011	SSP Politool GmbH & Co. KG	11.1	B041
META BIOMED CO., LTD.	11.1	B070	P.P.M. srl di Manuele e Monica Giacomini	11.2	R038 S039	Roko s.c.	11.2	R030	starmed GmbH & Co. KG	10.2	S018
METASYS Medizintechnik GmbH	10.2	P049	Panadent Corporation	10.1	F040	RPE S.r.l.	10.2	L070	steco-system-technik GmbH & Co. KG	11.1	D008
MFT	11.1	A040	Pascal	10.2	R046	RTI Group AB	2.2	A058	Steritrays	10.1	A041
MGF SRL	11.1	E009	Pastelli Srl	10.2	L066	Runyes Medical Instrument Co., Ltd.	11.1	C020 D029	Steros GPA Innovative, S.L.	2.2	B030 C031
MHC Technology	11.2	O051	PD - Produits Dentaires S.A	11.1	G020 H021	S&S Scheftner GmbH	3.1	H020 J021	Stiftung Hilfswerk Deutscher Zahnärzte für Lepra- u. Notgebiete (C.H. Bartels Fund)	11.2	O060 P069
Microcopy	10.2	R059	PDT, Inc. Paradise Dental Technologies	10.2	R040	S.A.R.L Scorpion	11.1	B059	Studio plan bau GmbH	10.1	C048
MICROLAY 3D Printers	2.2	D068	Pearl, Inc.	10.2	L034	SACRED INTERNATIONAL	11.2	O049	STYL FRIGO S.N.C. Di Manias Giorgio E.C.	10.1	A040
Micro-Mega SA	10.2	P010 R011	Photocentric Ltd.	3.1	M011	SAE Dental Vertriebs GmbH - International - SAEG srl	10.2	S019 G049	Sudemed Dental ve Medikal Pazarlama Ith. Automatrix	10.1	G044
Micromotor Ltd.	3.2	C020 D021	Photolase Europe Ltd.	2.2	D048	Saeshin Precision Co., Ltd.	2.2	A070 B071	SUNSHINE - Dr. Hopf GmbH & Co. KG	10.2	M008
MICRO-NX CO., LTD.	3.1	L064	PhotoMed	10.2	P056	Saeyang Microtech Co., Ltd.	3.1	M065	Sunstar Dental Laboratory Spain SL	10.2	T031
Miele & Cie. KG	10.2	R019	Pi dental Manufacturing Co. Ltd.	3.2	E058	Salli Systems/Easydoing Oy	11.2	K030	Surgident Co., Ltd	11.2	S059
MIGLIONICO SRL	11.2	K020 L029	PIERRE FABRE MEDICAMENT	11.1	D048	SAM Präzisionstechnik GmbH	10.2	O041	Suvison America Corp.	10.2	S057a
MIKRONA GROUP AG	11.1	D031	PIERRE PHARMA srl	10.1	B024 C025	Samico Industries	2.2	E074	Swiss & Wegman SRL	10.2	L070
MK-dent GmbH	11.2	R020 S021	Pin Tech Instruments	3.2	E015	SANADEN di Panarello Andrea	3.2	E025	SwissLoupes Sandy Grendel AG	2.2	D030
Modern Me GmbH	10.2	R039	PISTIS Corporation	2.2	C061	SARATOGA S.p.A.	10.2	L070	SycoTec GmbH & Co. KG	10.2	O051
Modjaw SAS	3.2	A041	Pivale-com Pty Ltd.	11.2	K038	SATELLITE INDUSTRIES	11.1	G048	Tactys	11.2	N035
MORSA Wachswarenfabrik Sallinger GmbH	10.2	N048	Planmeca Oy	11.2	K010	SAVARIA-DENT Kft.	11.2	L048 M049	TA-Dent Zahnimplantate Handels-GmbH	2.2	E048
MPE Medical GmbH	2.2	A059	Planmeca Oy	11.2	K010	Scanner Science & Engineering Company	11.2	O059	TALLADIUM Inc.	10.2	T019
Multysystem srl	3.2	D028	Plasmapp Co., LTD.	11.1	D061	Scantist 3D Scanningspray Vertriebs GmbH	3.1	M050	Tandem A/S	11.1	A061
Mutsumi Chemical Industries Srl	10.2	S036	Pluralux Lichtsysteme + Leuchten	10.2	M039	SCHEU-DENTAL GmbH	10.1	B040 C049	TDIab	3.2	D068 E069
MVK-line GmbH	10.1	A031	PointNix	10.2	M041	Schick GmbH	10.2	O030 P031	Technology in Biomaterials S.L.	2.2	D010 E011
MYTRONIC GmbH	10.1	E030 F031	Poldent/Endostar	11.2	S058	Schick GmbH	10.2	O030 P031	Tecniche Nuove SpA	2.2	E059
Nadir & Co.	10.2	O055	Polident d.o.o.	10.2	S021	Schütz Dental GmbH	10.1	F010 G011	TECNOFAR S.p.A.	11.2	R059
Nais 2002 Ltd.	3.2	C020 D021	Porter Instrument	10.2	R040a	SciCan GmbH	10.2	P010 R011	TehnoDent GmbH	3.2	D030 E031
Namka Product Ltd	11.1	J060	PPH CERKAMED Wojciech Pawlowski	2.2	E031	Score BV	10.1	F038 G039	Tek Metal San. Ve Tic. A.S	3.2	D049
NAVADHA ENTERPRISES	2.2	A051	Pracownia Techniki Dentystycznej	10.2	N035	SD Global Co., Ltd.	11.2	R050 S051	TEKMEDIC (m) SDN BHD	3.2	E028
Naxis Medical GmbH	11.1	H066	Almadent Aleksander Orzelowski	10.2	N035	SDiMatriX GmbH	11.2	S060 T061	Tekne Dental s.r.l.	11.2	S040 T041
NCT	3.1	M080	Preat Corporate	11.1	A039	Search Medical	3.2	C070	Temca GmbH & Co.KG	11.2	L059
NEODENT S.A.	10.1	C038	Prevention One	11.1	A010 B019	Seil Global Company Limited	3.2	A061	Terrats Medical S.L.	2.2	C008
NEOLIX SAS	10.2	L027	Prevest DenPro Limited	3.2	D060 E061	Se-Jong Dental	3.2	C071	The Cool Tool GmbH	3.2	E041
NEOSIL Co., Ltd.	2.2	C048	PreXion Europe GmbH	11.2	N051	Sentes-BIR A.S.	11.1	H060			
Neoss GmbH	2.2	C010	Primacon GmbH	3.1	M020	Seoklab Co., LTD.	3.1	L014			
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New Life Radiology S.r.l.	11.2	N030	Pritidenta GmbH	10.2	R028						
New Perfect Dental Lab	10.2	P061	Pro Safe Professional Linens, Inc.	10.1	F040						
New Stetic S.A.	11.2	L031	pro3dure medical GmbH	10.1	D049						
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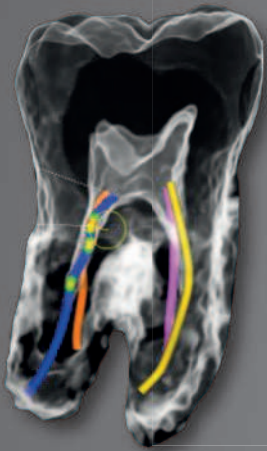
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THIENEL Dental e.K. Company	10.1	B0160			S041g			C008	Wuhan Gigaa Optronics Technology Co., Ltd.	2.2	D048
Thomas Dentalgeräte GmbH	10.2	M039			R046g			C008a	xDEPOT GmbH	10.2	L025
Titan Surgical Co	11.1	H069			S049g	VOCO GmbH	10.2	N010	XO CARE A/S	10.2	L028
Titanium Textiles AG	11.1	H043			R050g			N019			M029
TM Education and Trading OU	3.1	H019			S051g			N020	Xpedent UK Ltd	11.2	S050
TopDent GmbH	11.2	K049			R058g			N021	Yesbiotech Co.,Ltd	3.1	L068
Toplan Co., Ltd.	3.2	E060			S059g	VOP Ltd.	3.2	C020	Yeson Eu.	11.2	P021
TOROSDENTAL INS.ITH.IHR.SAN.					R060g			D021	YOAT Corporation	10.2	P056a
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Tressis Italia srl	10.1	B049	USTOMED INSTRUMENTE Ulrich Storz GmbH & Co. KG	10.1	B029	Voxeltek Ltd.	3.1	J058	Zahnärztliche Mitteilungen (ZM) Herausgeber:		
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TRUMPF Laser- und Systemtechnik GmbH	3.1	J030 L031	VDDI Verband der Deutschen Dental-Industrie e.V.	10.2	P008	Vulcan Teknoloji Sanayi ve Ticaret Limited Sirketi	3.1	M009			P069
TUEOR SERVIZI SRL	10.2	L070	VDE Prüf- und Zertifizierungsinstitut GmbH	11.2	L049	Vulkam	11.2	N037	Zantomed	10.2	R020
Tuttnauer Europe BV	10.1	B031	Vdental PFO Sp. z o.o.	11.1	H062	W.R. Rayson Export, Ltd.	10.2	S051			S035
Ubrush! Enterprises B.V.	10.1	F040	VEDIA SOLUTIONS, Unit of Laxmi Dental Export Pvt Ltd	10.2	S040	Wand Dental, Inc. (a division of Milestonescientific)	11.2	T040	zebris Medical GmbH	3.2	D009
UFSK-International OSYS GmbH	11.1	A021	Veradenta Dental Mobilya LTD.STI	10.2	S044	Wassermann Dental-Maschinen GmbH	10.1	D031	ZEKO DENT d.o.o.	3.1	M058
ULTRADENT Dental-Medizinische Geräte GmbH & Co. KG	10.2	L020 M021	Verdent Ltd.	2.2	C030	Wawibox	11.2	N048	Zeyco	10.2	R051
UNC International	3.2	B051	Vericom Co., Ltd.	3.2	A011	Weckerle Cosmetics	11.1	B061	ZHONGHONG PULIN	11.1	D060
Union Dental S.A.	10.1	E018	Vero Software GmbH	3.1	H050	WelsMeditech Co., Ltd.	3.2	E049			E061
Upcera Co., Ltd.	11.2	L080	vhf camfature AG	10.1	D048 E049	WERATHER INTERNATIONAL S.p.A.	11.1	F040	Zhongshan Breathtex Speciality Material Co.,Ltd.	11.2	S049
USA Pavilion c/o Koelnmesse Inc.	10.2	P040g R041g	Viarden Lab LLC	10.2	R057a	White Laboratories	11.1	D071	ZIL FOR SRL	10.1	A030
		P048g	VIEWWORKS CO., LTD.	11.2	P028 R029	WHITESmile GmbH	11.2	O008 P009	Zirc Dental products Inc.	10.1	F040
		R049g				WIN WIN KOREA	3.2	A053	Zircon Medical AG	10.1	G020
		P050g	Vigilant Biosciences, Inc.	10.2	R043	Wirtschaftsgesellschaft des VDZI mbH	11.2	T010 T012			H029
		R051g	Vision Engineering Ltd.	10.1	E020	Wissner Gesellschaft für Maschinenbau mbH	3.1	H018	Zircone-Tech SARL	3.1	H070
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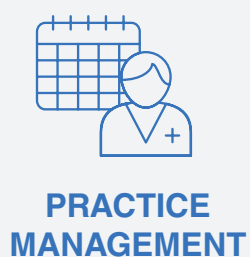
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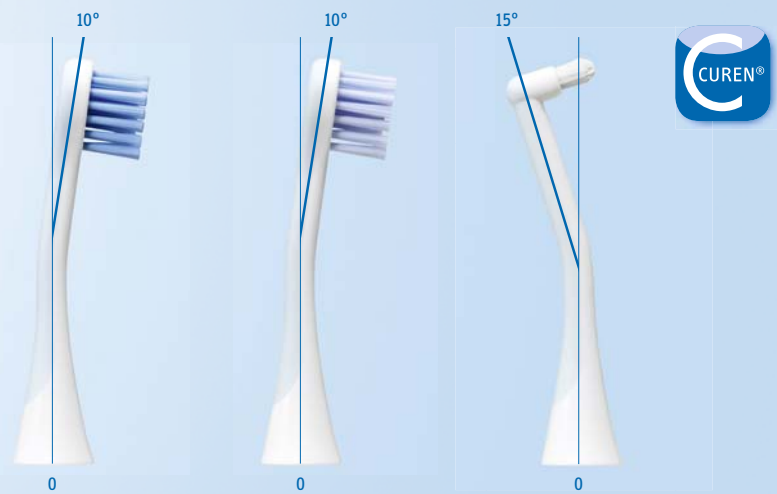


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