

today

SHOW PREVIEW

40th International Dental Show • Cologne • 14–18 March 2023



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Dentistry to celebrate 100 years of IDS

After COVID-19 slowdown, IDS set to return to its former size for anniversary event.



• In 2021, 23,000 visitors from 114 countries attended IDS. (Image: Koelnmesse/IDS)

■ This year, IDS will be celebrating two milestones. In addition to holding the 40th edition of the leading global trade fair of the dental industry from 14 to 18 March, the organisers are looking forward to the show's 100 anniversary.

For over 30 years, IDS has been held at the Koelnmesse trade fair grounds in Cologne. In 1992, the Association of the German Dental Industry commissioned Koelnmesse with the planning and implementation of the event, which has been the major showcase for the latest innovations and market trends in dentistry ever since.

Despite the challenging circumstances for large-scale events that arose from the COVID-19 pandemic, IDS 2021 reaffirmed the show's position as the leading dental trade fair worldwide. Held in September—six

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Ivoclar celebrating a century of innovations at IDS 2023

Family-owned company looks back on “A Century of Innovation”.

■ This year, the Ivoclar Group is proudly celebrating 100 years of company history and innovations in events throughout the year, including its showcase at IDS 2023. Since its founding in 1923, Ivoclar has evolved into a world leader in the dental industry with the support of its customers, partners and employees. Today, the Ivoclar Group has a comprehensive product portfolio in its specialised market segment. The global dental industry specialist, headquartered in Liechtenstein, has innovativeness, quality, trustworthiness and reliability embedded in its DNA and considers itself to be well equipped for the future.

In its 100-year history, Ivoclar has come up with numerous pioneering inventions that have had a sustained impact on the dental industry. Ivoclar maintains one of the industry's largest and most respected research and development centres. Therefore, it is not surprising that the company has chosen “A Century of Innovation” as its anniversary theme in order to highlight its innovative spirit. When asked about Ivoclar's company philosophy, Diego Gabathuler, CEO of the Ivoclar Group, explained: “We have built our suc-

cession providing customer-focused innovations, including integrated system solutions that enhance the efficiency of the user. We ensure excellent quality and utmost reliability. Our working relationships are based on trust and respect.”

He added: “We focus on giving people a healthy and attractive smile and promoting a better quality of life. For this purpose, we supply our products to customers in around 130 countries. Our employees all over the world continuously strive to optimise the company's range of integrated solutions made up of intelligent systems solutions, practice-oriented training and education offerings as well as comprehensive after-sales support and unparalleled customer service.”

The Ivoclar Group has 47 subsidiaries and branch offices, and it employs 3,500 people worldwide who are dedicated to delivering exceptional products and services. The family-owned business has production facilities in Austria, Germany, Italy, Liechtenstein, the Philippines, Sweden and the US.

The company headquarters, which are now in Liechtenstein, were originally in Zurich in Switzerland, where the company was founded in 1923.



• Visual quality control of ceramic crowns after final firing. (Image: Liechtensteinisches Landesarchiv/Walter Wachter, Schaan)

The general partnership at that time traded under the name of “Ramsperger and Co.” and focused on manufacturing artificial teeth. Dr Adolf Schneider, a mechanical engineer from Germany, took over the management of the company in 1948 and acquired it himself shortly afterwards. In 1951, he renamed the company, from “Ramco” to “Ivoclar”, derived from the French words “ivoire” (ivory) and “clair” (bright). At that time, the company name was symbolic of a new era of innovation.

Over the decades, Ivoclar established itself as a leader and driver of innovation in the dental industry at a global level through its ongoing investment in research and development. Milestones in its history include the introduction of Silicap (1965), Heliomolar (1984), IPSEmpress (1991), Tetric (1992), IPS e.max CAD (2005) and the Ivotion denture system (2020). The importance of digitalisation continues to grow in the dental industry, and today, Ivoclar is well prepared for the future. In this context, the company can draw on the excellent relationships it has forged with customers and partners over the years to develop true value-added solutions.

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«1 – 100 years of IDS

months later than usual—the event attracted around 23,000 visitors from 114 countries. Of these visitors, around 57% came from abroad—from Europe, mainly Italy, France, the Netherlands and countries in eastern Europe, as well as from the Middle East. A total of 830 companies from

59 countries participated in a gross exhibition space of 115,000 m².

IDS 2023 will cover a unique, wide-ranging combination of areas, including dental medicine, dental technology, infection prevention and control, maintenance, customer service and communication. According to the organisers, no other dental trade fair presents such a wide spec-

trum of product offers and services. IDS 2023 will be staged in Halls 1, 2, 3, 4, 5, 10 and 11 of the Cologne fair grounds on exhibition spaces spanning around 180,000 m². According to Koelnmesse, around 1,700 companies from 60 countries had already registered by the end of January.

In addition to the physical exhibition, the IDS connect digital platform

will provide information on products and system solutions and enable the streaming of various events, including seminars, webinars, press conferences, corporate presentations and product presentations. It will also allow one-to-one interactions with industry decision makers, increasing international reach and providing a successful trade fair experience.

Trade visitors to IDS can go live or call up content at any given time. IDS connect is easy to use and intuitive and does not require previous digital experience. All functions are presented as video tutorials on the IDS website, from navigation to networking.

More information about IDS can be found at www.ids-cologne.de. ◀



◀ The booth of Dr. Jean Bausch, German manufacturer of articulating and occlusion test material, at IDS in 1962. (Image: Koelnmesse/IDS)



«1 – Ivoclar

In parallel with these developments, the company has striven to maintain the fundamental principles on which it was built 100 years ago:

customer-focused innovations coupled with integrated solutions and efficient applications, excellent quality and utmost reliability, and respectful working relationships. Together with its customers, Ivoclar pursues

the goal of giving people a healthy and attractive smile and promoting a better quality of life.

The Ivoclar Group is family owned and attaches particular importance to cultivating closer relationships with its customers and employees. Ultimately, people are at the centre of what the company does. Its products and solutions are developed with the main aim of making its customers and their patients smile, literally. Ivoclar products and solutions are developed with this goal in mind. To assist in fulfilling this objective, Ivoclar offers its customers and partners an extensive knowledge platform and world-class training and education opportunities in the form of the Ivoclar Academy. The platform showcases the cutting-edge expertise and practice-oriented course

offerings of international dental specialists. Apart from proven on-site events, the academy offers innovative, tailor-made online training courses. In the 2023 centenary year, customers can look forward to an exciting academic programme.

The dental company maintains long-standing and trusting business partnerships with suppliers, customers and universities throughout the world. They are just as instrumental to fulfilling the company mission of “Making People Smile” as the employees of the family-owned business are. In the 2023 anniversary year, everyone can look forward to a series of special activities and events highlighting and celebrating “A Century of Innovation”. Among these will be trade fair showcases and further education and



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◀ Diego Gabathuler has been Ivoclar's CEO since 2019.

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training courses as well as the inauguration of the new administration building at the company headquarters, which will also house the visitor and education centres.

Visit Ivoclar at IDS 2023 in Hall 11.3 at Booths A010/C019, A011 and A020/C029 to find out more about the company's innovative products. ◀

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Outlook for the 40th IDS: “Things are looking up”

An interview with Dr Markus Heibach, executive director of the Association of the German Dental Industry.
By Dr Christian Ehrensberger



-Dr Markus Heibach, executive director of the Association of the German Dental Industry.

■ In this interview, Dr Markus Heibach, executive director of the Association of the German Dental Industry (VDDI), explains the importance of the 40th IDS from the perspective of the dental industry and what it means for dentists, dental technicians and their teams.

Dr Heibach, for much of the last three years, the entire global economy has been driving with the handbrake on. There are numerous challenges facing industry at once. How is the dental industry doing?

The Association of the German Dental Industry was constituted in 1916, at that time under the name of “Association of German Dental Manufacturers”. This was in the middle of the First World War. IDS was also started in the middle of a crisis year: 1923. Ever since then, it has been a catalyst for innovation for the entire industry.

This is not to trivialise our current problems. It’s not only the rising cost of energy that is a major issue occupying and even burdening our member companies, but also the sheer number of changes occurring together. Company leaders in the German dental industry have to wrestle with solutions to these varied and interconnected changes daily. For example, in addition to energy prices, procurement channels for raw materials have changed. This relates to glass, metals and plastic, for example, as well as logistical and transport bottlenecks in this regard. All these interacting factors in combination—not just the single issue of the energy price—have an impact on our medium-sized manufacturers.

Regarding these challenges, I think that it is apt to quote the philosopher Karl Popper: “There is no reasonable alternative to optimism.” We hope that, with the quantum leap now occurring in Germany, the course is set towards a continued

sustainable future and strengthening of the companies in the industry. Political will to free companies from bureaucratic burdens and, wherever possible, promote innovation is still absolutely critical in this regard. We are continually pursuing this jointly and in agreement with our umbrella association, the Federation of German Industries.

Parallel to that, I see further positive developments. People are placing a higher value on health than they did three years ago and are more open to high-quality dentistry. This helps the whole industry. The German industry in particular is

well positioned thanks to its high-quality products and global recognition of its dental profession and dental technician craftsmanship.

What importance does IDS hold for the dental industry?

The essence of IDS can be formulated very succinctly: as the German industry, we invite all competitors from Germany and abroad to a central location in fair competition to present their products to international experts and submit them to market participants for evaluation. This has developed into Olympic-level friendly rivalry to develop the

best concepts and products. The result is acceleration of the innovation cycles in our industry and correspondingly higher-quality treatment of patients.

Do manufacturers watch each other closely at the show?

Everyone is curious to see what others have to offer the audience of dentists, dental technicians and their teams. This is the nature of the market—there is intense competition, which our dental industry clearly perceives as incentive for innovations. Internationally, the German dental industry has been a market leader for decades in many segments of dental technology. Direct benchmarking of manufacturers under the critical eyes of customers provides enormous motivation and drives innovation in our industry. Celebrate successes, rework any deficits and triumph at the next IDS with an even better idea—that’s the name of the game! That is how the trade fair in Cologne functions as a catalyst for dental innovation.

How does this work exactly in the exhibition halls?

First and foremost is the professional exchange with dentists, dental technicians and their teams. Their feedback on the proven and innovative concepts and products on display is the lifeblood of the dental industry. On the basis of conclusions drawn from this feedback, research and development departments effect improvements and develop revolutionary innovations in the coming years.

Furthermore, exhibitors establish new contacts at IDS and initiate new business opportunities. Deepen-

ing existing relationships, exchanging information with the dental trade about current trends, customer wishes and expectations, involving international importers as partners—these are all crucial components for success.

International meetings have intensified from IDS to IDS. Today, importers from Asia or South America meet their customers from all global markets in Cologne, making IDS the most comprehensive marketplace.

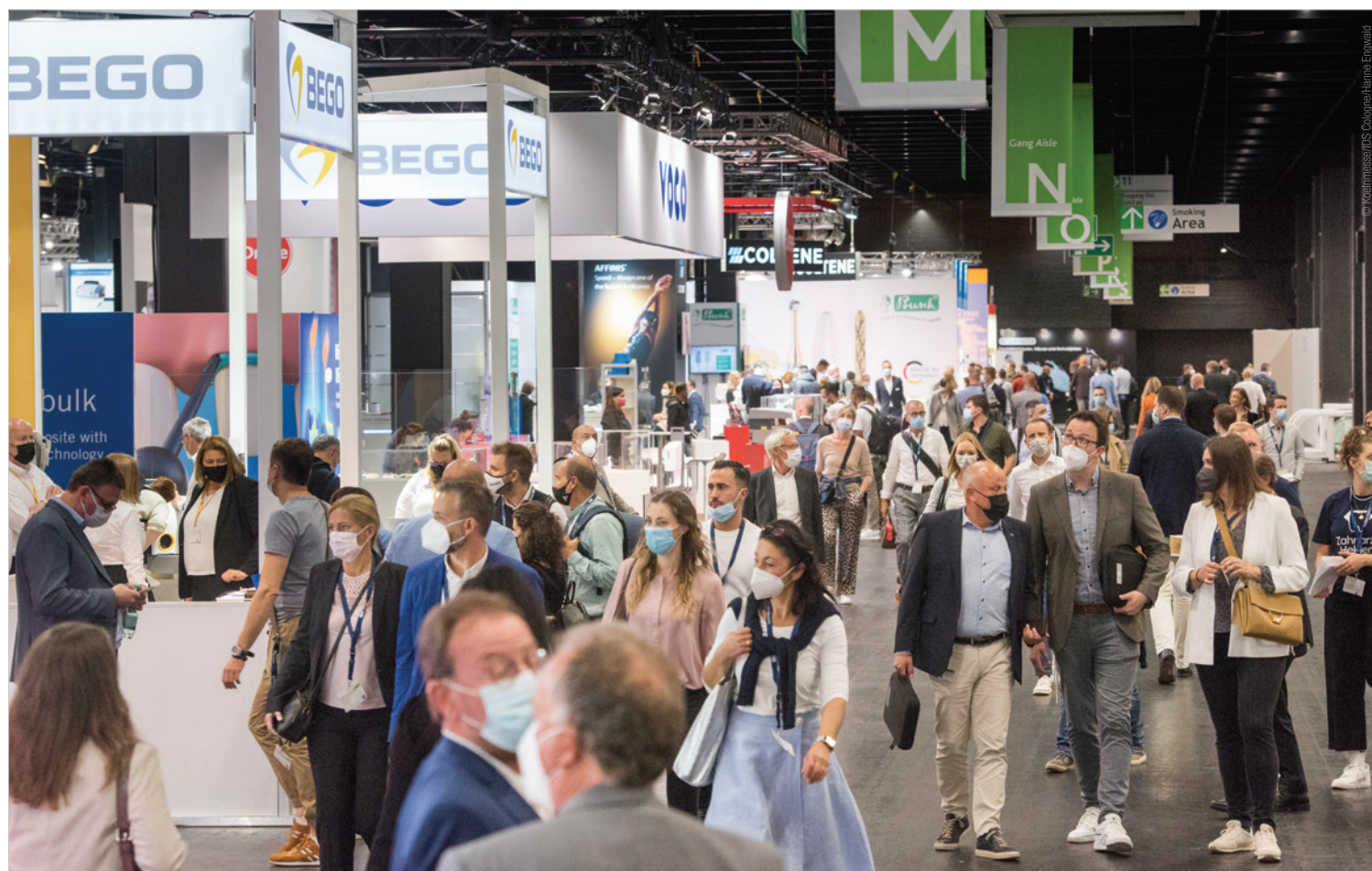
What’s the significance of a visit to IDS for dentists, dental technicians and their teams?

At the trade fair, they find themselves in the position of decision maker, because they determine which of the many products will ultimately be the better solution for them. At the same time, thanks to this careful selection, they ensure that they are in an excellent position and gain an advantage over their competitors.

How extensive will the selection of exhibiting companies be at this year’s IDS?

We already have more than 1,700 exhibitors [as of February 2023]. This guarantees a complete and representative overview of the industry and a uniquely large showcase of products for optimal choice.

Things are looking up for us all. It is no secret that the past three years were particularly difficult. The German dental industry has overcome them. We will take a brief look at the past 100 years of IDS and then look ahead to the next century. The 40th IDS will provide the initial spark. ◀



-Industry and trade representatives, dentists, dental technicians and their teams—IDS 2023 will bring together all important participants in the dental market once again.

Come see us at IDS for a preview—and connect to what's next.

INNOVATION NEVER SLEEPS

Hall 11.1 | Stand D010/E019



Over 1,800 exhibitors already registered for IDS

■ According to Koelnmesse, around 1,800 companies from 60 countries had already registered for the show by the end of January. After the largest exhibitor participation, which comes from Germany, the next strongest international participation currently comes from Italy, South Korea, France, Switzerland, Spain, Turkey and the US. Argentina, Brazil, Bulgaria, China, Israel, Italy, Japan, Hong Kong, South Korea, Singapore, Turkey and the US will be represented by group booths. This year, Halls 1, 2, 3, 4, 5, 10 and 11 of the Cologne fair grounds will be open for IDS visitors.

With a completely new booth concept, innovative product highlights and exciting new ideas, Amann Girrbach will bring the world of digital dentistry to life for visitors. Amann Girrbach will be attending as an exhibitor with a completely new look. At the new booth location in Hall 1.2, visitors will be able to experience how digital workflows can sustainably facilitate daily routines in dental laboratories and dental practices and thereby set new standards in patient treatment.

Dr Wolfgang Reim, CEO of Amann Girrbach, said: "An incredible amount has happened at Amann Girrbach since the last 'real' IDS in 2019. We have dedicated ourselves to digital transformation across a wide spectrum, developing solutions aimed at making interdisciplinary collaboration between the dental practice and laboratory as convenient and versatile as possible."

In 2021, Dentsply Sirona did not participate in IDS, but it will have a significant presence at this year's event, and all its activities there will



be tied to the theme "United for better dentistry". Attendees are invited to experience the digital universe at Dentsply Sirona's immersive

1,900 m² booth. Situated in Hall 11.2, the booth will feature the company's entire portfolio of products and solutions, which visitors will be

able to see in action through product demonstrations and live presentations.

"IDS offers a fantastic moment to unite with the global dental community, and we are eagerly looking forward to the next edition in 2023," said Gerard Campbell, group vice president for commercial in Europe, the Middle East and Africa at Dentsply Sirona. "We know that, through close collaboration and partnership, we can take dentistry to the next level and ultimately help bring healthy smiles to more people around the world."

Visitors to Planmeca's booth at IDS will be treated to exclusive demonstrations of the company's entire product portfolio and have the opportunity to learn more about Planmeca's new clear aligner solution, HeySmile. Planmeca's representatives will also be offering expert guidance to dentists at the show. Located conveniently near the entrance to Hall 5, Planmeca's booth will be situated next to KaVo Dental, which joined Planmeca Group last year. Those looking to find out more about Planmeca's products and receive advice can head to Booth A020/C029 in Hall 1.

Jouko Nykänen, senior vice president at Planmeca, said: "After a couple of years affected by the COVID-19 pandemic, we are truly looking forward to IDS 2023. Although we have found new ways to communicate with our customers and partners remotely, nothing beats the energy of IDS and networking with dental professionals in person. We can't wait for inspiring discussions and to demonstrate the intelligent features of our products at our booth at IDS 2023." ◀

IDS 2023 to place strong focus on periodontics

■ The 40th International Dental Show (IDS) is fast approaching. This year, the focus will be on periodontics,

odontal therapy and prophylaxis and the importance of involving the dental patient in all four therapy stages—

health. It has been established that thorough periodontal therapy and prophylaxis can help prevent a severe case of COVID-19. For example, a mouthwash has been developed that, according to research, can reduce the SARS-CoV-2 viral load in the mouth by 71% after only a single rinse, thus helping the immune system to fight infection.

During IDS, speakers will also discuss methods to remove plaque and calculus in periodontitis and peri-implantitis patients in the dental practice. These include manual tools, ultrasonic systems and airflow devices. According to the EFP clinical practice guideline, advanced periodontitis cases might require soft-tissue surgery.

The differentiated approaches demonstrate how individualised development and performance of therapy and prophylaxis for periodontitis and peri-implantitis patients have become, Mark Stephen Pace, chairman of the board of directors of the Association of the German Dental Industry—which organises IDS—said in a press release.

"Since the respective measures have an impact on much more than the mouth, going to the dentist is an essential element in a comprehensive prevention strategy. As the leading trade fair of the dental industry, IDS 2023 offers the ideal opportunity to inform oneself about current concepts and tools for successful and efficient dental care and to engage in an exchange with [other] professionals," he commented. ◀

■ In a few weeks, the leading dental trade fair opens its doors again. Tickets for the International Dental Show (IDS) 2023 can be purchased now in the IDS ticket shop. In addition, the IDS app has been activated and can be downloaded. Tickets for the trade fair can be ordered exclusively online and will be issued as personalised tickets.

To purchase a ticket, prospective visitors need to create a Koelnmesse account via the ticket shop or use their already existing access data from previous years. This log-in data is also valid to log into the trade fair app and the digital event platform IDSconnect.

The IDS entry ticket comes with a transport ticket that is valid for public transport in the Verkehrsverbund Rhein-Sieg (VRS) and the Verkehrsverbund Rhein-Ruhr (VRR) transport systems without additional costs. The transport ticket is only valid within the indicated trade fair period for arrival and departure to IDS 2023.

IDS app is now available

The free IDS app is provided in German and English and is available from the App Store (iOS) or from the Google Play Store (Android). In order to use the digital ticket at the trade fair entrance, visitors should download the app, which will display the ticket in the wallet of the app after login. The

transport ticket will also be displayed automatically.

Aside from these benefits, the app offers all trade fair participants additional advantages—before, during and after the event. Prior to the event, visitors can arrange discussions and meetings with other industry participants and network using the organiser in the app. Various types of content and networking options will be available in the app in the months following the event.

Other advantages include the exhibitor search, current information and livestream of the event programme, an interactive hall plan and the option to create a personal favourites list of the different programme points.

More information about IDS can be found at www.ids-cologne.de. ◀



particularly with regard to the treatment guideline developed by the European Federation of Periodontology (EFP) and the connection between oral health and general health.

IDS offers a great platform for professional exchange on topics that are relevant to the dental industry and dental professionals. The focal point of the upcoming event will be the significance of systematic peri-

topics that are also highlighted in the EFP guideline. Other related subjects include home oral care, diabetes management and smoking cessation.

Periodontitis has been associated with rheumatism, adverse cardiovascular events, stroke and chronic respiratory disease, among others. The COVID-19 pandemic has produced even stronger evidence on the link between oral health and general





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EU grants more time to certify medical devices

European Commission gives manufacturers more time to bring products into compliance with new EU rules.

Europe is struggling with the effects of the SARS-CoV-2 pandemic and the war in Ukraine, and the bloc could not have picked a worse time to transition to its overhauled medical device regulation. The European Commission (EC) now wants to give manufacturers more time in order to avoid the real threat of device shortages, but will the extensions make a difference for companies who are withdrawing devices from the market as a result of increasing costs and bureaucracy.

The EC has adopted a proposal to amend the transitional provisions of Regulation (EU) 2017/745 on medical devices (MDR)—giving manufacturers of medical devices more time to certify their products and bring them into compliance with the new rules. Under the amendments, manufacturers now have at least three more years to have their products certified. The new deadlines are December 2027 for high-risk devices and December 2028 for devices deemed medium or low risk. These extensions apply to devices that are considered “safe” and for which the manufacturers have already taken steps to transition towards gaining certification under the MDR.

Having come into law in 2017, the MDR became applicable in May 2021, after being delayed by one year

owing to the global pandemic. A transition period of three years was provided for the MDR and its partner regulation, Regulation (EU) 2017/746 on *in vitro* diagnostic medical devices (IVDR), to supersede the existing Council Directive (EEC) 93/42 concerning

provision, emphasising that essential medical devices that are already on the market should remain available to patients in need.

European Health Commissioner Stella Kyriakides proposed the changes in Brussels in December,



medical devices (MDD) and Council Directive (EEC) 90/385 on active implantable medical devices (AIMDD).

An additional “sell-off” provision in the MDR specified a date after which products already placed on the market and certified under the MDD and AIMDD would have to be withdrawn. The EC has now scrapped that

citing multiple issues. She said: “A combination of factors has left health-care systems across the EU facing a risk of shortages of life-saving medical devices for patients.” Admitting that most manufacturers were struggling to meet the certification requirements in the time given, the commission stated in January that the limited

progress made posed a threat to device availability. It cited a number of factors, such as the limited capacity of notified bodies (entities that check compliance with medical device regulations), the ongoing effects of the COVID-19 pandemic, global supply chain disruptions and limited preparedness on the part of manufacturers. These factors were “causing a risk of shortages of life-saving medical devices for patients,” the EC said.

The commission stated: “Many manufacturers are not sufficiently prepared to meet the robust requirements of the MDR by the end of the current transition period. This threatens the availability of medical devices on the EU market.”

Figures provided by the EC show lacklustre progress. By October 2022, notified bodies had received just 8,120 applications for MDR certification and fewer than 2,000 certificates had been issued. At that time, a total of 22,793 MDD and AIMDD certificates had been due to expire before the supersession of these regulations by the MDR and IVDR.

It all began in France in 2010 with a breast implant scandal that forced EU lawmakers into crisis mode. Many say that the resulting regulatory overhaul was necessary, but others have labelled the MDR as re-

actionary and overburdensome. Staff at Osypka, a German company which has manufactured surgical devices in Europe for decades, told Reuters in December that the company could not afford the costly MDR certification process and had been forced to withdraw five lines of its devices from sale. The company estimated that certification for one of its products, which has already undergone clinical trials, would cost the company over €1 million.

Mark Stephen Pace, chairman of the Association of the German Dental Industry, told attendees at an IDS press conference in Cologne in January that dentists and dental manufacturers needed more support from their politicians. He said that the MDR had made daily operations at clinics and manufacturing sites more complicated and more expensive, and he emphasised that a balance must be struck. Pace said: “In recent years, many requirements, guidelines and laws have been added, and these have enormously increased the bureaucratic effort for companies. Costs are rising and staff is scarce. In order to be able to offer affordable products and services, bureaucracy has to be reduced, because what it essentially does is create problems for manufacturers and for dental professionals.” ◀

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02

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“You can experience digital innovation at almost every booth”

An interview with Mark Stephen Pace, chairman of the board of the Association of German Dental Manufacturers.



■ The International Dental Show (IDS) will celebrate its centenary in March. In this interview, Mark Stephen Pace, chairman of the board of the Association of German Dental Manufacturers (VDDI), gives an overview of the present status of the preparations for the show and hints at some of the highlights in store for dentists and dental technicians.

Mr Pace, the 40th IDS will be held from 14 to 18 March 2023. At the same time, we will be celebrating 100 years of IDS. How far have preparations for the event progressed?

At 100 years, we could focus on the historic perspective and congratulate ourselves on being part of the immensely important ongoing tradition of trade fairs.

However, it is even more important to embrace IDS for what it is and always has been: the leading dental industry trade fair. It offers the orientation that we will so desperately need for the next two, five, ten years—even for the next one hundred years, for those of us who think in generations. In my experience, there are many in the dental industry who do so.

Do you consider that, with the SARS-CoV-2 pandemic, the war in Ukraine and supply chain disruptions, the present conditions are particularly difficult for a trade fair?

We are presently operating in a difficult environment and, in addition to the things you mentioned, we are also faced with the threat of inflation and excessive bureaucracy. On the other hand, the German dental industry has been confronted with many challenges in its more than 100-year history—economic, geopolitical and industry-specific. We have mastered these challenges together with the German dental technician profession. And that is what IDS is all about: presenting innovative solutions or developing new ones together so that we, as dental manufacturers, can fulfil our mission for the benefit of dental technicians, dentists and patients even under the most difficult conditions.

To what extent will the forthcoming IDS live up to this role?

I am very optimistic that IDS will do so. I have hard facts to back this up and also have a good feeling about it. The number of exhibitors registered has already exceeded 1,600, of which around 400 have registered for joint booths. The companies come from more than 60 countries and include numerous international market leaders. A wide range of dental manufacturers will thus be represented in Cologne. And, of course, I am particularly pleased about the participation of the Verband Deutscher Zahntechniker-Innungen (VDZI; the German association of dental technicians), which has an information booth and which will also host the Gysi Award ceremony.

What do you consider to be the current megatrends in dental technology?

Digital technologies continue to constitute a global megatrend. Prosthetic work can be created very differently these days, compared with the situation ten or twenty years ago—let alone 100 years ago! Digital impression taking, design on the computer, CAD/CAM production—this workflow has been learned and was included in the new ordinance on vocational training for dental

technicians in Germany. This was published in the Bundesgesetzblatt (Federal law gazette) on 1 April and came into force on 1 August.

This represents a coherent modernisation of training regulations, and it will help to ensure that we are not threatened with the one problem

What does this mean for everyday dentistry?

The dental technician will be working closely with manufacturing robots, with machine learning-enabled systems and with tightly networked laboratory equipment. Of all the players in the dental field, dental

“Most [dental technicians] are already right in the middle of things and are pioneers.”

that everyone is presently talking about: a shortage of skilled workers. This is because digital content is increasingly being included in both the teaching curricula and the examinations. This complements the more classic skills of the dental technician, keeps the profession attractive and opens up good future opportunities for trainees in a modern, demanding and extremely versatile profession.

Where will this development be reflected at IDS?

In a word: everywhere! You can experience digital innovation at almost every booth. In addition to this, the VDZI's Gysi Award for young dental technicians is another highlight. It honours the best young dental technicians and gives a future-oriented demonstration of how state-of-the-art digital and analogue processes can be used to inspire dentists and patients.

Where do you foresee the greatest potential?

There is already a considerable amount of artificial intelligence included in intra-oral scanner technology but even more in dental CAD software. This can bring to the daily practice automatically generated, patient-customised treatment plans for the design of crowns and bridges. Used together with facial scans, these proposals can be presented immediately. The dental technician can show them to the dentist and to the patient, motivating them to favour a high-quality restoration option.

technicians are probably best at this, as they are traditionally the technophiles within the team. For example, dental technicians will find it easy to match post-processing equipment to materials and printers in 3D printing because they are experts in both analogue and digitally networked systems as well as in dental materials.

What should dental technicians be doing now to prepare specifically for the future?

Most of them are already right in the middle of things and are pioneers. A visit to the 40th IDS from 14 to 18 March 2023 in Cologne will enable dental technicians to take an even greater step forward. In the exhibition halls, they will find analogue and digital systems—in some cases as alternatives, in others as collaborative partners. This will allow them to choose the best of both worlds for their own laboratories.

IDS exemplifies the generational thinking in dentistry, and many dental professionals will remember the good investment decisions made by their parents and grandparents after a visit to the trade fair. We will also be celebrating this at the forthcoming instalment of the world's leading dental trade fair by staying true to the motto “100 years of IDS—and the next 100 years will be even more exciting”.

We look forward to seeing you there! ◀

Editorial note: This is an edited version of an interview that was originally published in German in issue 3/2022 of Zahntechnik TELESKOP.



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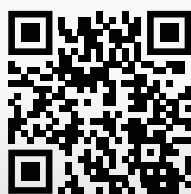
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Taking stock and looking ahead

Dr Amit Patel, president of the Association of Dental Implantology, reflects on the current and future dental implant landscape.

The digital revolution continues

Like all areas of dentistry, implantology is going digital. A digital workflow can be applied to various stages in the treatment journey, often improving outcomes, as well as both the patient and professional experience. We are seeing an uptake of intra-oral scanners, which can acquire highly accurate impressions while improving patient comfort compared with conventional alginate methods. For the clinical team, digital scans can be easily integrated within the wider digital workflow and facilitate prosthetic design, as well as streamline communication and collaboration with colleagues. I would estimate that around 20-30% of clinicians in the UK now own and utilise these scanners, but I would expect this to increase in the next couple of years as the technology improves and becomes even more accessible.

CBCT is the other digital solution supporting dental implantology today. These scans have become central to precise and confident treatment planning, allowing clinicians to determine the ideal dental implant position, angle, depth and width in every single

certainly not yet the norm, my colleagues and I are receiving more enquiries about and requests for metal-free alternatives to conventional dental implants. This echoes some of the changes already seen across other disciplines of dentistry, such as restorative dentistry, and creates an interesting dynamic for the future. Ceramic implants are available for clinicians to utilise—backed by science and proved to deliver good clinical results—and these are now being employed more regularly than they were just a few years ago.

Yet to come

There are some interesting technologies currently being introduced and in development that could have a positive impact on dental implantology in the future. For example, there is navigation software that allows the clinician to prepare the dental implant site using the CBCT scan in real time as a kind of virtual guide. It offers an alternative way to provide guided surgery, allowing for a freehand approach that makes use of digital technology for more accurate and confident dental implant placement. This kind of technology is still



•Dr Amit Patel is a periodontist and clinical lecturer from the UK.

which has been shown to inactivate bacterial biofilm far better than using a powder-spray system.² Given the spotlight on prevention of bacterial infection in the UK dental implant field, effective new ways of cleaning the products that we use would be widely welcomed.

Of course, this will be in addition to—or perhaps even second to—prevention of the disease in the first place. We know the risk factors for peri-implantitis, but if we can hone in on the exact mechanisms behind development, then we could change the game entirely for many patients. With more research, a greater understanding of the disease and the next generation of technology and materials, we will be even better equipped to stop peri-implantitis before it becomes a problem.

Aside from these, there will no doubt be a shift in some of the other clinical techniques and products employed as part of the dental implant workflow in the near future. For example, socket shielding is being brought to the fore at professional events, and novel dental implant designs are being worked on to help further minimise potential complications. It is an exciting time to be involved in the dental implant field and to utilise many new innovations as they reach the market. Concentrating on science-backed and evidence-based solutions remains crucial, but we can expect to deliver ever-better dental implant treatment to patients in the years to come. ◀

“Effective new ways of cleaning the products that we use would be widely welcomed.”

case. This, combined with prosthetically driven planning protocols, ensures that any dental implant placed can be restored correctly for good function, aesthetics, maintenance and longevity.

Attitudes to metal in the mouth

Another trend we are seeing in the UK is an increase in a patient-driven move away from metal. While

quite new to the field, but it is likely to become a more popular technique as the software evolves.

The other area in which changes are afoot is the management of peri-implantitis. Prevalence is difficult to measure, but according to current research, it occurs in 12.5% and 19.5% of cases at implant level and patient level, respectively.¹ A leading cause of dental implant complications, it remains a disease that is not

fully understood by the profession or by patients. Prof. Niklaus Lang from Queen Mary University of London once said at a conference I attended: “Periodontitis was made by God; peri-implantitis was made by man.” This illustrates the difference between the two diseases, and we must develop management techniques that take this into consideration. As a specialist periodontist, this is a topic I am passionate about, and the

Association of Dental Implantology has long recognised it as an important area for the progression of the field. We have held events dedicated to discussing the challenges of peri-implantitis and exploring potential solutions for this very reason.

For the future, how we clean dental implants will likely be further scrutinised. There is already technology available for electrolytic cleaning of the dental implant surface,

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“It is an exciting time to be involved in the dental implant field and to utilise many new innovations as they reach the market.”

About the author

Dr Amit Patel graduated in dentistry from the University of Liverpool in the UK in 1997 and obtained his membership of the Faculty of Dental Surgery of the Royal College of Surgeons of Edinburgh in 2000. Dr Patel also underwent a four-year training programme in periodontics and implantology at what is now King's College London Faculty of Dentistry, Oral and Craniofacial Sciences in the UK, achieving a master's degree in periodontics and clinical dentistry. Passionate about providing specialist dentistry to the highest degree, Dr Patel also trains other dental professionals. As associate specialist in periodontics and honorary clinical lecturer at the University of Birmingham's School of Dentistry in the UK, he teaches at undergraduate and postgraduate level. He also lectures both nationally and internationally and is the current president of the Association of Dental Implantology, the UK's leading professional organisation in the field. More information can be found at www.adi.org.uk.

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Dentistry scrapes through third quarter check-up

Major dental companies experienced shrinking consumer confidence and foreign exchange headwinds during the third quarter of 2022.

■ The cascading effects of Russia's invasion of Ukraine have hobbled global pandemic recovery. Third-quarter reports from the largest dental companies published at the end of 2022 showed that patients are thinking twice about some elective treatments and that clinicians are investing less in dental equipment.

Bill of US\$1.2 billion brings Dentsply Sirona to a loss

Dentsply Sirona's third-quarter results provided the first detailed look at the company's operations in 2022 and followed an internal investigation that prevented it from filing reports for the first and second quarters this year. Net sales at the company during the third quarter decreased by 8.9%

Henry Schein celebrates with steady performance

Global dental sales at Henry Schein for the quarter amounted to US\$1.8 billion, a year-on-year fall of 2.1% due largely to unfavourable foreign currency exchange rates that resulted from a strengthening of the US dollar. In local currencies, internal sales in North America were steady,

In a conference call, Align's CEO, Joseph Hogan, commented specifically on softening demand and changing demographics in the clear aligner business, saying: "Third-party reports indicate there are fewer new patient visits, less traffic flow and lower orthodontic case starts overall. Our clear aligner volumes further reflect the underlying orthodontic mar-

earned more than twice as much from sales of Spark clear aligners than it did in the same quarter last year, and CEO Amir Aghdaei said that Envista's traditional orthodontics business—including its new Damon Ultima brackets system—had also delivered growth.

Yu said that core sales growth in Western Europe increased by 9%



A strong performance by the Straumann Group helped dentistry through its third-quarter review, however, and milestones such as 14 million Invisalign patients and 90 years at Henry Schein remind us that it is a marathon, not a sprint.

Global player Straumann led the industry in the third quarter with sales of CHF 550.5 million (€560.8 million), representing overall organic revenue growth of 12.2%. Sales increased by 7.0% (15.1% organic sales growth) in its home region of Europe, the Middle East and Africa (EMEA), by 14.2% (9.1% in North America and by 8.4% (8.6%) in the Asia Pacific region. The company performed the strongest in Latin America, where sales increased by 25.9%, or by 20.9% on an organic basis.

Sales in Germany were the largest contributor to Straumann's performance in EMEA, and those in Australia, Taiwan and Japan offset a growth slowdown in China and shored up earnings in the Asia Pacific region. In Latin America, powerhouse Brazil provided Straumann with robust demand, followed by Mexico, Columbia and Peru.

In the three-month period, Straumann launched the Neodent ZI implant system in Brazil, had its ClearCorrect clear aligner system approved by regulators in China and refocused its European direct-to-consumer clear aligner portfolio under the DrSmile brand.

to US\$947 million, and organic sales decreased by 0.7%. Foreign exchange pushbacks hampered the company's total sales by 8.2%. Dentsply Sirona incurred a significant non-cash charge of just under US\$1.2 billion for goodwill impairment, leading to an operating loss of US\$1.2 billion.

Looking at the company's regional performance, organic sales declined by 5.2% in the US, increased by 3.0% in Europe and remained flat in the rest of the world. Lower patient volumes in the US and China affected the company's sales of dental consumables, and dental implant sales growth in the US and Europe was offset by a drop in implant sales in China. Dentsply Sirona's new chief financial officer, Glenn Coleman, commented: "In China, we continue to see prolonged impacts from COVID-related shutdowns, which we accounted for in our prior outlook. Additionally, we are beginning to see the effects of volume-based procurement in China on our implants business. Over the long term, we believe [that] presents an opportunity for the business to increase volume, but in the near term the effects on pricing will be a headwind."

"We are not satisfied with [our] third-quarter results; however, this quarter marks an important turning point as we enter our company's next chapter," Dentsply Sirona's new CEO, Simon Campion, said in a press release, referring to a wide-ranging review of the company's business.

and international internal sales increased by 3.3%, the company said in its earnings statement.

Global sales of dental merchandise, at US\$1.4 billion, were down by 3.5% year on year, and global sales of dental equipment rose by 2.6% to reach US\$416.0 million. In local currencies and excluding personal protective equipment sales, North American and international sales of dental merchandise rose by 3.8% and 6.9%, respectively. Internal sales of dental equipment in local currencies increased by 12.8% in North America and by 1.4% in international markets. Henry Schein marked its 90th anniversary during the period, and CEO and Chairman Stanley M. Bergman rang the Nasdaq bell to open trading at the New York-based stock exchange on 13 September.

Align Technology navigates earnings drop

Align's revenue stream for the third quarter was affected by unfavourable foreign exchange rates, macroeconomic pressures and shrinking consumer confidence. The Invisalign manufacturer earned US\$732.8 million from clear aligner sales—12.5% less than it did in the comparable quarter last year—and shipments of 577,200 clear aligner cases during the quarter represented an 11.9% year-on-year drop. Revenue from the company's imaging systems and CAD/CAM services business—at US\$157.5 million—was 11.7% lower than it was one year before.

ket trends and a shift away from adults toward teens in [the third quarter]."

Teen case starts totalled 200,000 during the three-month period—a 13% sequential increase and a near parity with the record 206,000 teen case starts in the third quarter last year. Regarding adult case starts, Hogan said that volatility in numbers had been seen in the US, Europe and Asia.

Hogan said: "[We] think teens are somewhat shielded—not completely but shielded from the economic environment because of the time window for treatment and parents who want to help their teens through that whole process."

Dental Tribune International reported in November 2022 that major clear aligner manufacturers' stock prices have slid significantly this year, owing to volume contractions.

Envista Holdings concludes successful quarter

Reported sales at Envista totalled US\$631.1 million for the third quarter—a year-on-year increase of 3.9%. According to Chief Financial Officer Howard Yu, earnings during the period were boosted by the company's specialty products and technologies segment and offset by weaker performance in dental equipment and consumables.

Envista's orthodontics business appears not to have suffered during the quarter from the downturn in orthodontic patient traffic. Envista

during the quarter, but that sales in North America had been flat. A return to typical levels of oral care provision in Shanghai after COVID-19 lockdowns helped Envista's sales in China to increase by 9.2%, and other emerging markets had delivered year-on-year sales growth of over 15% as they continued to recover from the effects of the pandemic.

Robust patient volumes vs economic caution

Despite their varying performance, major dental companies agree that the fourth quarter this year will be a challenge. Aghdaei told analysts: "While private and group practices and [dental support organisations] remain excited about the promising outlook for dental, there is no doubt that the impact of inflation and potential for an economic slowdown, coupled with the various geopolitical risks around the world, including the conflict in Ukraine, continue to [weigh] heavily on clinicians' minds." He explained that robust patient volumes were not making dentists less cautious about their investments.

For its part, Dentsply Sirona expects to see a fall in elective procedures in the coming months—clear aligner treatment and implant therapy, specifically—owing to economic pressures on consumers in major markets that the company serves. ◀

Editorial note: This article was published online on 29 November 2022 at www.dental-tribune.com.

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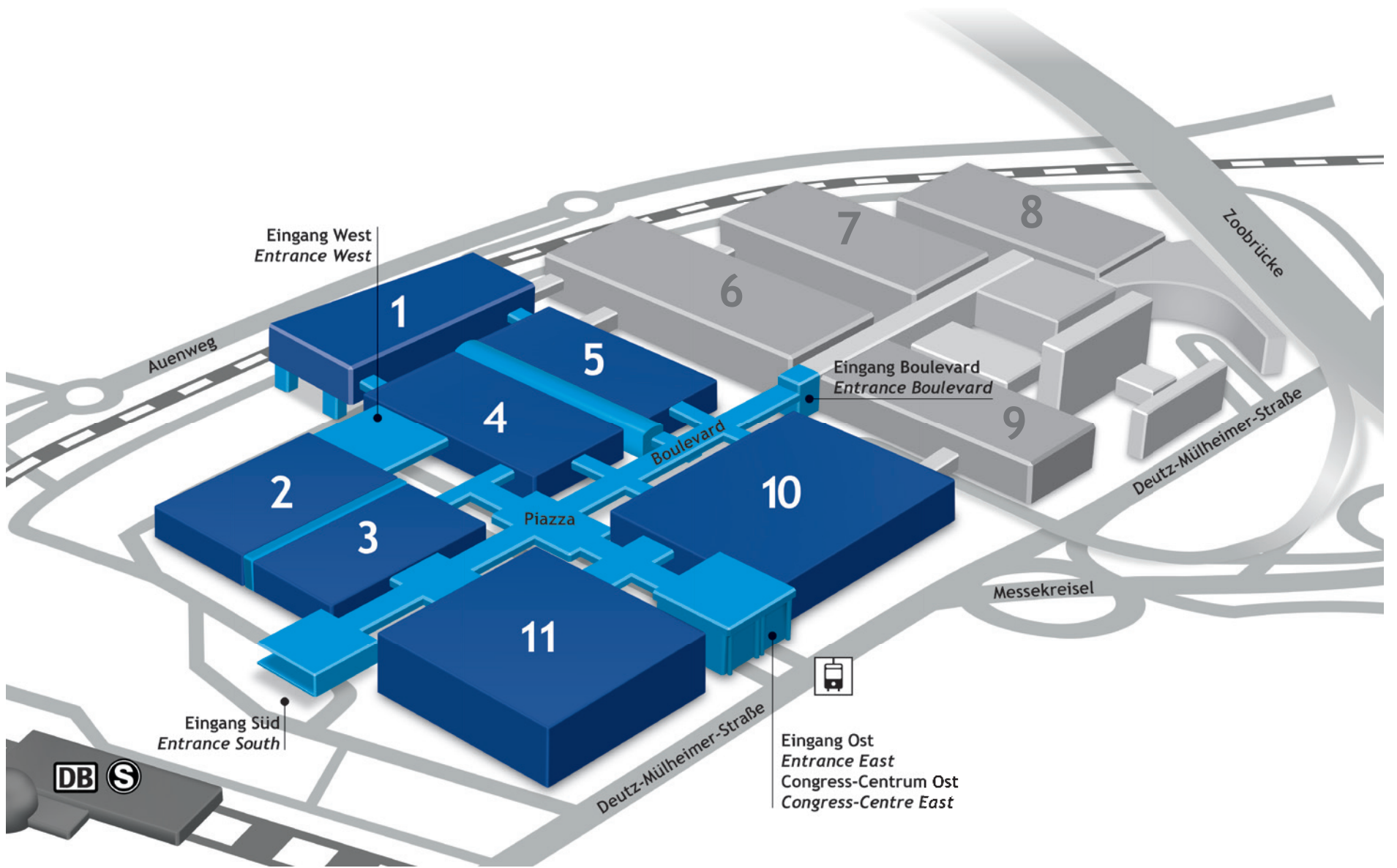


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Nine questions and answers about 3Shape's ultimate TRIOS intra-oral scanner

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Amazon makes another attempt to enter healthcare

Amazon signed an agreement in July to acquire One Medical, a technology-centred primary healthcare provider that combines in-person, digital and virtual healthcare services. Given that Amazon recently announced the closure of its Amazon Care telehealth service after just two years of operations, the latest acquisition represents another attempt to bring the Big Tech company into the US healthcare market.

The purchase of One Medical would be one of the retail giant's most expensive acquisitions to date, given the green light by US anti-trust regulators. The two companies entered into a merger agreement in late July, which Amazon was to pay US\$5.9 billion (€3.6 billion) in cash for the young company. In September, the US Federal Trade Commission (FTC) requested more information about the merger, effectively halting the deal until the two companies have complied with the regulator.

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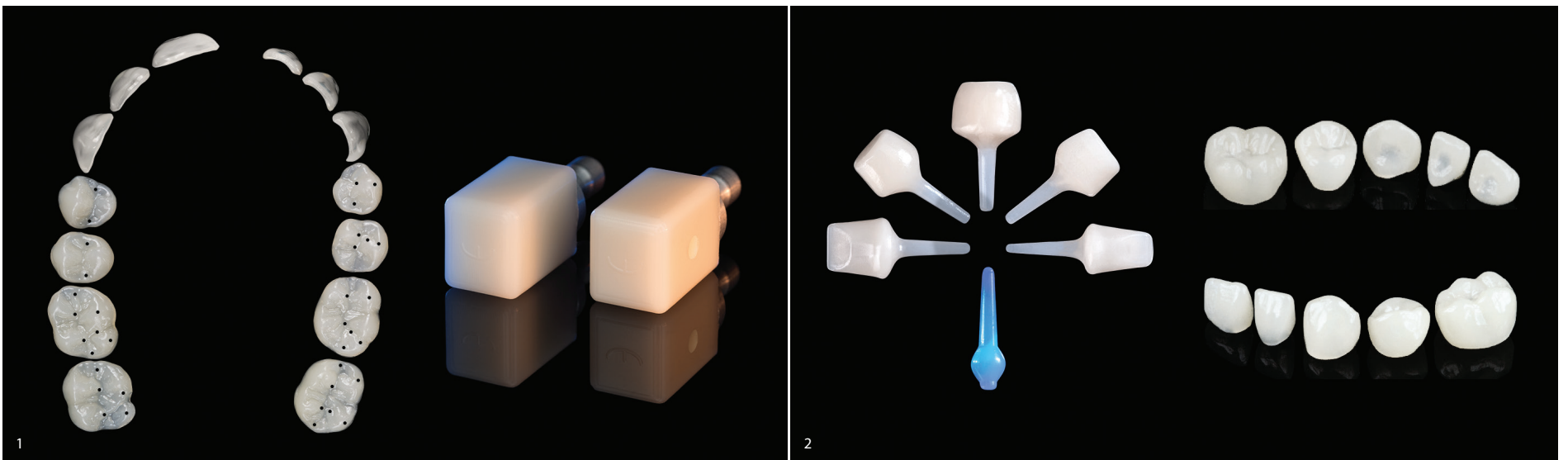


Fig. 1: VENEER and OCCLUSIONVD shells (left) and CAD/CAM BLOCKS. Fig. 2: POST & CORE system (left) and PEDIATRIC CROWNS.

The dental think-tank edelweiss dentistry is known to have pioneered the only biomechanical direct veneering system that has overcome the disadvantages of the organic fillers which are commonly used in composite veneers. Using a unique laser-sintered concept, this technology has dramatically reduced the natural shortfalls of conventional composites and has, thereby, enhanced aesthetics and function.

The product range includes ultrathin anterior and occlusal enamel shells, the edelweiss POST & CORE system for post-endodontic needs and the edelweiss PEDIATRIC CROWNS, which are inorganic hybrid glass crowns instead of conventional metal or zirconia crowns. This enables safe and easy treatment, creating healthy smiles for children. The latest additions to the product range are the edelweiss CAD/CAM BLOCKS (T- and C-BLOCKS) and i-BLOCKS (implant blocks).

The philosophy of edelweiss dentistry is simple: making dental treatments easy and affordable for patients and dentists alike while following ethical aspects of modern treatment achieved by respecting the principles of biocompatibility and bio-aesthetics. This makes minimally invasive treatment possible. Restorations are carried out while considering and preserving the healthy tooth structure. Function and aesthetics are reconstructed—with highly filled hybrid glass material very similar to the tooth substance—following an adhesive additive technique.

The edelweiss DIRECT SYSTEM is a state-of-the-art system for modern and minimally invasive aesthetic dentistry. Never before has it been possible to create the natural shape and youthful luminance of a tooth so easily and perfectly in only one appointment. Its versatile area of application, in combination with the time- and

cost-saving procedure involved, makes the edelweiss DIRECT SYSTEM a sound investment in the future with the best interests of the patient at heart.

The translucent edelweiss VENEER and OCCLUSIONVD (“VD” indicates vertical dimension) shells as well as the edelweiss PEDIATRIC CROWNS represent the anatomical basis for individual or complete dental reconstructions. After splint therapy, OCCLUSIONVD can be individualised and used adhesively as no-preparation overlays to solve functional problems.

The edelweiss POST & CORE system achieves a biomechanical monobloc from root to crown. The posts are conically shaped for better adaptation. The translucency of the fibre-free post, supported by an integrated lens design, allows uninterrupted light transmission for complete polymerisation. The already

built-up core design follows the tooth anatomy.

The edelweiss PEDIATRIC CROWNS are made of laser-sintered barium glass, with zinc oxide and fluoride rendering them both antibacterial and plaque resistant. Unlike conventional paediatric crowns, edelweiss PEDIATRIC CROWNS have the same flexural modulus as natural teeth, hence the antagonist teeth will not be damaged. The prefabricated, bio-aesthetic morphology allows for quick and safe treatment.

The edelweiss CAD/CAM BLOCK is the first hybrid glass material in the world with a tri-network structure, combining pure glass, aluminium oxide and resin technology in one block. The dominant ultrafine glass network structure is strengthened by aluminium oxide and the resin component, which integrates the glassy network, provides a high degree of elasticity.

This hybrid glass also guarantees high load capacity after adhesive bonding, as well as facilitating thinner wall preparations for minimally invasive restorations. It also impresses with its outstanding reliability, as well as precision fit, edge stability and corresponding accuracy in milling results. It is kinder to the milling burs and does not require any additional firing or sintering—it can simply be polished and cemented.

Dental professionals can achieve the maximum aesthetic results—that are also minimally invasive—in just one appointment. No matter what the dental situation is, edelweiss has the right restoration for it.

The company invites dental professionals to try its products at a live hands-on station at the edelweiss dentistry booth D040/E041 in Hall 11.3.

More information about the edelweiss product portfolio can be found at www.edelweissdentistry.com. ◀

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Chairside restoration plus with orangedental

At IDS 2023, orangedental is presenting its open chairside workflow for professional practice laboratories. Under the slogan “Chairside Restoration plus”, visitors can experience the company's alternatives to existing systems for the wet or dry processing of blocks and discs. Simply put, with intra-oral scanning using the FUSSEN scanner, design with exocad ChairsideCAD and production with dental milling machines from the EVO deskMill series, dental professionals can create more than just mill crowns or inlays.

Also on show at IDS will be the company's innovations in the field of radiography. Among these is the Green2, a first-class professional entry-level CBCT unit with a field of view of up to 10 × 8 cm. The well-known PaX-idental panoramic tomogram machine has found a successor in the PaX-i Plus, which features a new design. The EzRay AIR W2 is a new intra-oral radiography device



EVO deskMill.

that supports Bluetooth transmission of the acquisition parameters. The digital functional analysis that is offered by the newly developed digital Freecorder Nxt and its interface with the exocad JawMotion Import module enable dental professionals to create tailor-made products that account for dynamic occlusion.

More information can be found at www.orangedental.de. Visit the company's booth (#L020/N029) in Hall 1.2 during IDS. ◀



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Tekscan to present T-Scan digital occlusal analysis system at IDS 2023

■ Tekscan is the leading manufacturer of ultrathin, tactile pressure and force sensors and measurement systems in the world. Its products range from simple force sensors and force sensing systems to highly complex pressure measurement systems with over 100,000 sensing points.

Tekscan is the creator and innovator of T-Scan, dentistry's only clinically recognised and research-validated digital occlusal analysis system. T-Scan provides dynamic occlusal measurement, revealing the level and timing of force on individual teeth and the occlusal stability of the overall bite, bringing articulating paper marks to life. With T-Scan, users can visualise and treat destructive forces before they become a problem, yielding better patient outcomes. As an objective assessment aid, T-Scan enhances patient education, satisfaction and retention, reduces remakes and repeat visits, and enables a more confident, proactive approach to patient care.

Every dental procedure impacts a patient's occlusion. When occlusion is checked visually with only articulating paper, dentists miss valuable data, such as when and with how much force contact is made—data that can only be obtained when using

T-Scan. This data could change the course of treatment for the patient compared with relying on articulating paper alone.

The T-Scan software records a video or a scan of the bite as the teeth come in and out of contact, revealing the forces on each tooth and on the dentition overall and measuring the balance and distribution of forces. Since it provides data on timing, users can evaluate premature contacts and working side and non-working side interferences, among other things. T-Scan thus enables dentists to be more accurate and efficient at occlusal analysis.

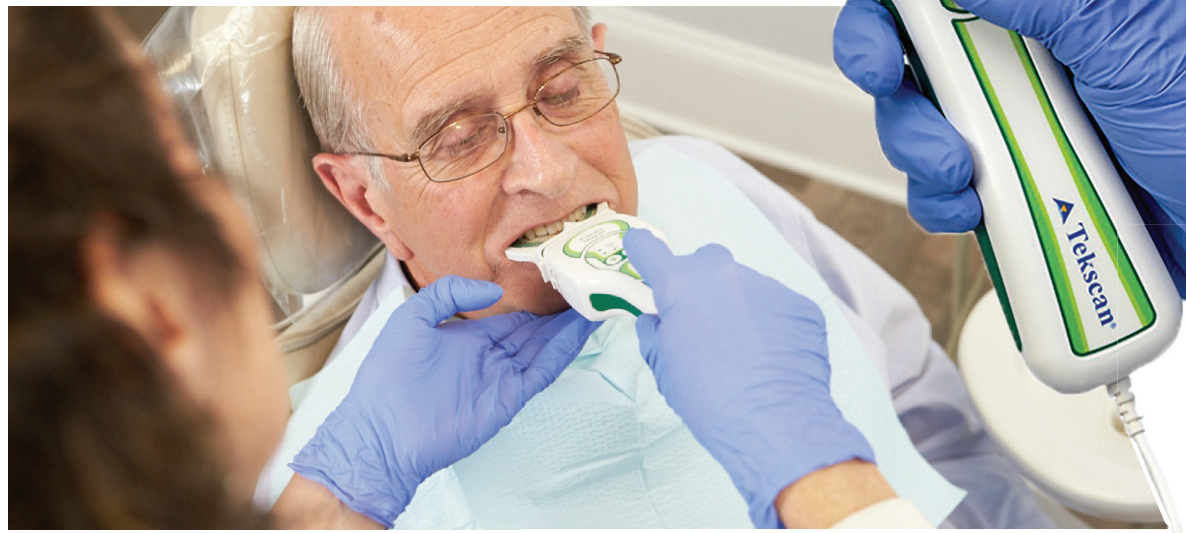
T-Scan can be used in every facet of dentistry, from screening new patients for baseline occlusion to ensuring implants are not loading early. The implant warning feature is an invaluable aid to a dentist to ensure that the implant is not overloaded compared with the natural teeth around it. T-Scan can also be used to protect crowns, bridges and veneers from high forces and to check for proper occlusal function after clear aligner therapy.

The purpose of T-Scan may be confused with that of an intra-oral scanner. T-Scan provides dynamic occlusal measurement, thereby helping

drive better decisions for diagnosis of malocclusion and adjustment, if needed. An intra-oral scanner provides a digital impression of the mouth to aid in the design of restorations. Although T-Scan and intra-oral scanners are different, they can be used in tandem. T-Scan occlusal data can be incorporated into a digital impression using the STL file format to provide an accurate image of the patient's bite, complete with actual force measurements. Tekscan refers to this as a digital impression overlay.

An important take-away is that the two technologies complement each other well and are used successfully in many dental practices to provide a holistic view of a patient's bite and to ensure a positive treatment outcome—something that every dental practitioner strives for.

Learn more about Tekscan at www.tekscan.com visit the company's booth (Hall 4.2, Booth H028) at IDS. ◀



Imagine the CAD abilities with exocad!

■ Exocad, an Align Technology company, will present open-platform solutions at the 2023 IDS. CAD abilities are boundless with exocad. Whatever the requirements, indications or hardware, exocad offers users vast design options and seamless integration. "Our software experts will be on-site to show the entire exocad software package in use," said Novica Savic, chief commercial officer and general manager at exocad. Current software for dental laboratories and practices include DentalCAD, ChairsideCAD and exoplan. All exocad software solutions blend seamlessly together and can be built out with additional modules. IDS visitors can look forward to new features in the new 3.1. Rijeka release series.

DentalCAD

Exocad's DentalCAD is one of the leading dental CAD software programs, thousands of licences being sold each year. Specifically designed

for dental technicians, DentalCAD offers productivity, flexibility and the ability to create outstanding dental restorations. With more than 45 new and over 85 enhanced features, the new 3.1 Rijeka release marks another milestone in exocad's continuous optimisation of workflows for increased productivity.

Exocad will also present the latest DentalCAD 3.1 Rijeka features and modules, which were launched in October 2022:

- The iTero NIRI (near-infrared imaging) technology and intra-oral scanner images are now automatically imported when designing restorations, enabling technicians to visualise the internal and external tooth structure and optimise the process of margin tracing.
- The new xSnap module is a model attachment for a printable 3D articulated system featuring a spherical head, which allows precisely executed protrusion, laterotrusion and mediotrusion.

- Ivoclar's Ivotion denture system, a complete workflow for the digital production of high-quality removable dentures, is now available in exocad as the FullDenture IV module.

"At IDS 2023, we will see various market-ready systems that map the entire manufacturing process completely digitally," said Savic. "The current CAD/CAM technologies in milling machines, software and materials are so advanced that entirely digitally designed dentures can be achieved with very good results in terms of accuracy of fit, aesthetics and functionality—and in significantly less time," he added. Therefore, at the exocad booth, systems that support the digital denture workflow will be on display. The latest generations of milling machines, intra-oral scanners and materials from various strategic partner companies will also be on display.

ChairsideCAD

Based on exocad's laboratory software, DentalCAD, ChairsideCAD is the first complete open-architecture CAD software platform for single-visit dentistry. The software includes a step-by-step guide through the design process, simple integrations with a broad spectrum of devices and the ability to seamlessly share information between clinicians and laboratories. For cases not produced in the practice, ChairsideCAD users can take advantage of the dentalshare integrated communication platform to easily collaborate with laboratories of their choice. For four years running, ChairsideCAD has won the Cellerant Best of Class Technology Award.

Exoplan

Implantology is an integral part of modern patient treatment. With exoplan, dental laboratories, dentists, implant specialists and surgeons are guided from implant planning to surgi-

cal guided design and manufacturing in one intuitive digital workflow. Exocad's integrated software solutions allow for seamless functionality across the digital workflow. In addition, exoplan users can take advantage of seamless integration with DentalCAD.

Dentalshare

Exocad's next-generation collaboration tool, dentalshare, covers the full spectrum of multidirectional digital data transfer between clinicians, dental laboratories and production centres. Dentalshare is fast and straightforward—enabling distributed workflows and efficient online collaboration. Even large datasets can be sent.

For visitors who want to learn more about how to increase productivity with the help of the leading dental CAD/CAM software, the exocad booth (Hall 1.2, Booth A040/C041) at IDS is the right place to be.

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



Fig. 1: DentalCAD. Fig. 2: ChairsideCAD. Fig. 3: Exoplan.

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- OCCLUSIONVD
- COMPOSITE
- POST & CORE
- PEDIATRIC CROWN
- CAD/CAM BLOCK

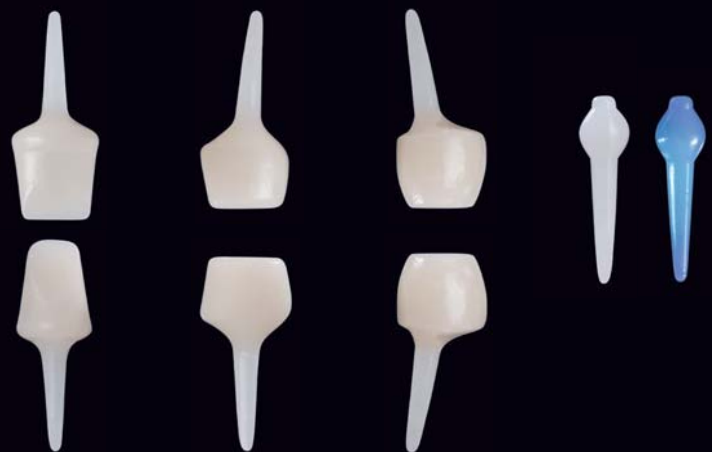
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WITH FUNCTION & AESTHETICS



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PEDIATRIC CROWN



Convince yourself and try our products at a live hands-on station at the edelweiss booth.

We are happy to welcome you at Hall 11.3, Stand D040 - E041.

www.edelweissdentistry.com

Experience digital workflow and single-visit dentistry at Amann Girrbach

■ “Connect To The (Work-)Flow” is Amann Girrbach’s motto for presenting modern digital processes in the world of dentistry at IDS 2023. Dental professionals can expect to see this motto articulated across the company’s 640 m² of exhibition at the trade fair, in addition to a number of other exciting innovations and proven product highlights. The completed digital workflow across the entire process chain for restorations will be tangibly experienced live on-site.

“As the One & Open (Work-)Flow” company, we want visitors to appreciate how much we can all benefit from digitisation in dental technology. Our aim is to connect holistically—through analogue and digital steps, together with dentists and dental technicians—to ultimately make every-day routine easier for everyone involved,” explained Dr Wolfgang Reim, CEO of Amann Girrbach. With innovations such as the AG.Live cloud platform and the Ceramill Direct Restoration Solution (DRS) system for chairside applications, the company is consistent in pursuing digitisation. All new and existing Amann Girrbach products are connected to AG.Live, thus bridging interdisciplinary divides between laboratories and dental practices with the aid of convenient digital technologies. “We enable users in dental practices and laboratories to do something that they cannot achieve using a single product. We deliver an open, yet validated overall system made up of innovative components and thus ensure significant gains in

productivity as well as reproducible restorations of the highest quality,” Reim said.

Ceramill DRS for single-visit dentistry

The Ceramill DRS system represents a milestone for interdisciplinary cooperation between dentists and dental technicians and for the chairside workflow. Reim said that linking the Ceramill DRS system to AG.Live facilitates improved communication and collaboration, enabling dental technicians and dentists to work together as a successful and future-oriented team and to share information easily.

He continued: “Furthermore, the offer of single-visit dentistry is made considerably easier with this solution. Our Ceramill DRS Production Kit+ is ideal for upgrading an existing intra-oral scanner to a complete chairside system, whereby the user not only receives the Ceramill Motion milling machine and the user-friendly Ceramill Mind DRS planning tool, but also the software for linking to the AG.Live workflow management platform. Our Ceramill Mind DRS intra-oral scanner, which is part of the basic Ceramill DRS Connection Kit package, can be used for scanning, although

existing intra-oral scanners are also compatible.”

Revolutionary Zolid Bion zirconia and Ceramill Matik full-service unit

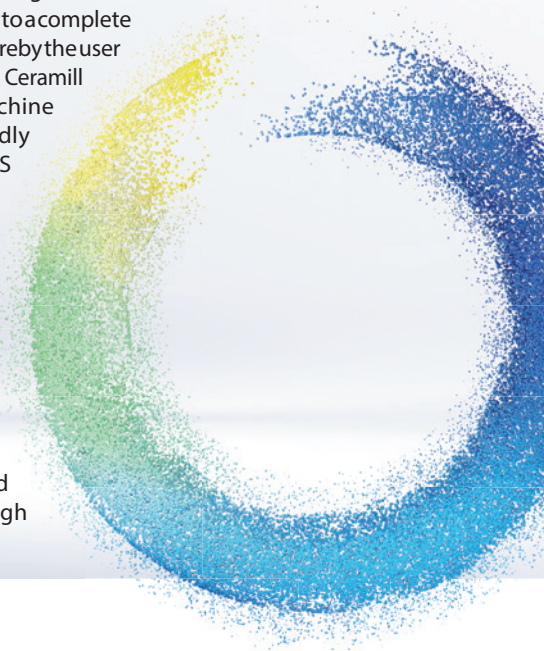
In addition to the digital workflow, Amann Girrbach will be showcasing classic products and novelties at its booth. Product highlights will include the Ceramill Matik, which is the first full-service unit to combine three machines. In addition to the actual five-axis wet and dry processing station, the Ceramill Matik performs the functions of a fully automated stock management system and cleans itself.

In terms of novel materials, the focus is on zirconia: the innovative Zolid Bion is based on a material that is revolutionising the field of all-

ceramic materials made of zirconia. Reim pointed out that Zolid Bion represents an unprecedented combination of aesthetics and safety, raising the bar to a completely new level. “As the first material in its class, Zolid Bion is also ideally suited for high-speed sintering without compromise, opening up new workflows in the laboratory. It is clearly the rising star among zirconia! Anyone who thought that development in this field had already been exhausted can now look forward to a material that is unrivalled,” Reim pointed out.

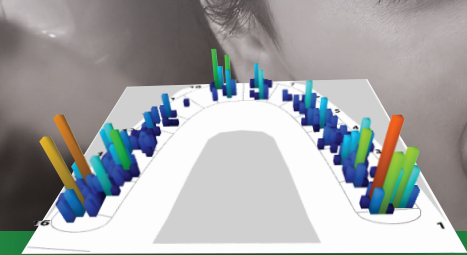
Dental professionals who would like to gain insights into these digital processes, the new product highlights or the proven classics are warmly invited to visit the Amann Girrbach booth (#C040/D041) in Hall 1.2. There, dental professionals will have the opportunity to experience all of the benefits of the full digital dental workflow live.

“Connect To The (Work-)Flow” with Amann Girrbach at IDS 2023 by keeping track of the company’s daily presentations and programme updates at ids.amanngirrbach.com. ◀



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Resista—dental implants made in Italy

■ Resista is an Italian implant manufacturing company. It was founded in 1946 as a manufacturer of abrasive discs and materials for the processing and finishing of prosthetic products and began to sell dental implants in 2006. Today, the company offers dental implants of different lengths and diameters with internal and external connections to meet any implant prosthetic need—all of them placed with one universal surgical kit. The products are manufactured entirely in Italy.

Passion, experience and constant development allow Resista to adapt its products successfully to dentists’ needs. In close collaboration with a team of specialised consultants from Italy and abroad, the company provides competent and continuous support to its customers, helping them grow their dental practices.

The company’s research and development has a strong

focus on clinical indications. Using 3D virtual modelling programmes and sophisticated computerised systems, Resista can design and finalise new geometries very quickly.

In 2016, Resista introduced the UNI-Q-MUA one-piece dental implant. Over the past years, this system has been proved to be simple, fast and safe. Straight or angulated at 17° or 32°, UNI-Q-MUA helps clinicians address difficulties related to immediate loading. It is an implant that can solve the main problems of All-on-4—with a larger prosthetic screw and a hybrid surface treatment, which allows dentists to perform immediate loading in a fast, safe and easy way.

More information can be found at www.en.resista.it At IDS, visitors can learn more at Booth T011 in Hall 11.2. ◀





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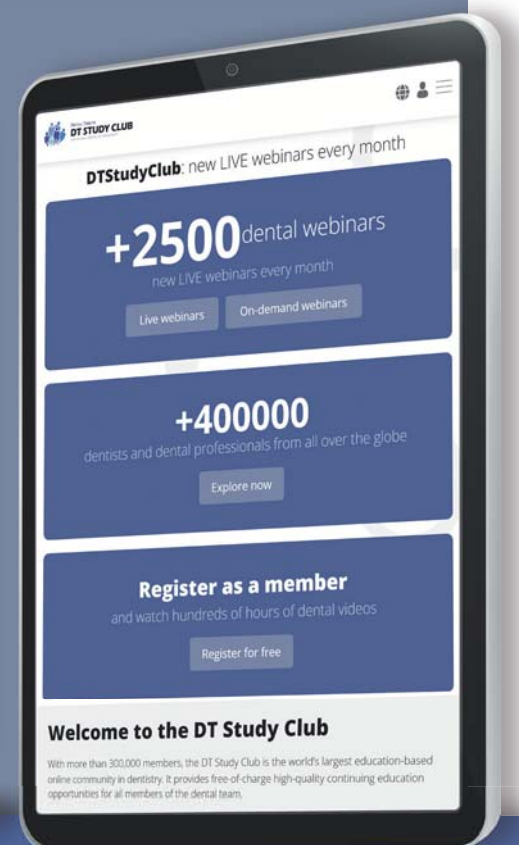
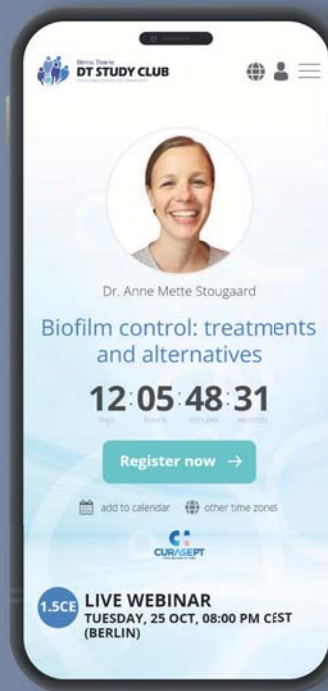
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3D Systems' digital dentistry solutions

■ 3D Systems delivers the industry's broadest range of materials and 3D-printing solutions validated for the dental industry, including orthodontics, prosthodontics and implantology. With 3D Systems' portfolio of 3D printers, software, NextDent materials and Vertex Dental products, dental laboratories and clinics have access to a large range of dental applications. Rely on our teams of experts, including materials scientists and application engineers, and experienced resellers for training and support to deliver streamlined digital workflows. Our digital dentistry solutions, global availability through trusted resellers and 24/7 assistance will bring you new levels of performance.

NextDent by 3D Systems

Our portfolio of 30 unique 3D-printing materials addresses multiple dental applications. The resins are available in a variety of aestheti-

colours to closely match patients' teeth and gingivae. NextDent 3D-printing materials for medical devices are biocompatible and certified in accordance with EU medical device regulation, cleared with the US Food and Drug Administration and registered in various other countries.

New—NextDent LCD1

This dental printer has a small footprint and uses a LED array and LCD mask to produce high-quality parts with NextDent materials. The NextDent LCD1 is easy to use and provides a reliable, complete workflow and a super-smooth surface finish.

New—NextDent Wash

Consisting of a two-container washing system that uses ethanol, isopropyl alcohol or washing solvent, the NextDent Wash makes use of a magnetic stirrer, which ensures simple maintenance and cleaning.

The system makes it easy to maintain the precise timings recommended for NextDent resins.

New—NextDent Cure

The NextDent Cure is a small LED polymerisation station that is easy to use. Validated for use with NextDent resins, it ensures perfectly timed polymerisation for these products.

NextDent 5100

A high-speed 3D printer addressing the broadest range of dental applications, the NextDent 5100 enables dental laboratories, clinics and production centres to produce dentures, crowns and bridges, models, surgical guides, orthodontic splints, retainers and trays with enhanced speed, precision and efficiency at a lower cost. The printer is compatible with industry-standard, state-of-the-art intra-oral scanning and software solutions to produce highly accurate results to within 50 µm.

DMP Flex 200

The DMP Flex 200 is a complete metal 3D-printing solution for manufacturing small, dense, complex dental prostheses with excellent surface quality and short post-processing at high productivity. Dental laboratories can now eliminate extra steps and substantially reduce unit cost per part while maintaining or increasing quality. Take your workflow from

dental file to production with the DMP Flex 200's printers, certified materials, software and application support. The system is able to print more than 90 crowns in a single print run of under 4 hours thanks to a short heat treatment process and less finishing being required.

ProJet MJP 2500 Plus

Using highly accurate jetting technology, the ProJet MJP 2500 Plus system provides a clean, reliable and versatile solution for dental laboratories and production centres. Dental models and castable parts can be combined on the large build platform in the same run. The ProJet MJP 2500 Plus facilitates speed and production with features such as hands-free melt-away wax supporting structures and large-batch printing. The M2R-TN material exhibits excellent detail visualisation, accuracy and strength in combination with resi-

due-free burn out to provide a smoother casting workflow.

SLA 750

The SLA 750 3D-printing workflow solution answers the demand for cost-effective stereolithography batch production parts with unprecedented levels of throughput, consistency, performance and yield, together with full factory-level integration, management, control and traceability for batch production of dental models and drilling guides. Delivering superior surface quality and accuracy and a 15% larger build volume compared with previous models, the SLA 750 3D printer also outpaces comparable SLA 3D printers with 30% faster print speeds.

Learn more at www.3dsystems.com/dental or visit the company's booth (#K010/L011) in Hall 3.1 at IDS.



ClearCorrect to unveil range of new products at IDS

■ During IDS, ClearCorrect, the Straumann Group's flagship orthodontic brand, will launch six new products and features to help clinicians treat complex cases with an enhanced, empowering digital workflow and added support.

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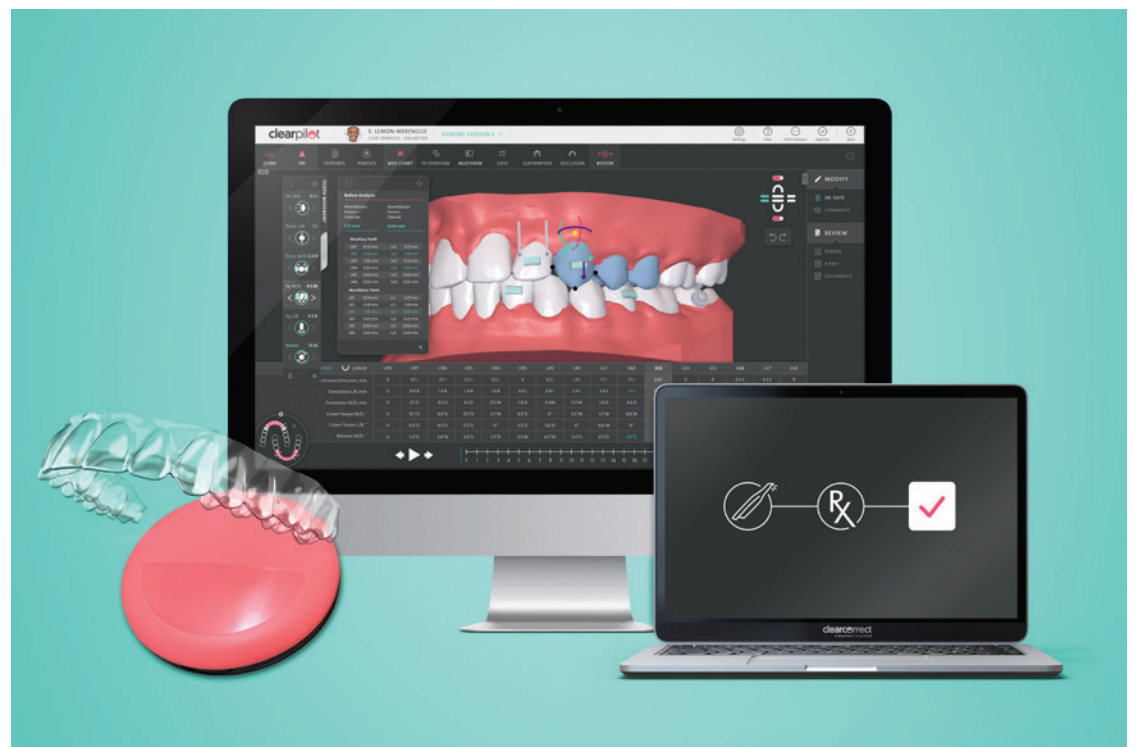
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In the last year alone, ClearCorrect launched three major versions (3.0, 4.0 and 5.0) of its ClearPilot treatment viewer software and partnered with major intra-oral scanner producers to develop new direct integrations with scanners such as TRIOS (3Shape), Medit and Virtuo Vivo (Straumann). Additionally, ClearCorrect has deployed several enhancements to its portal for dentists, including its clinical preferences feature, which facilitates communication of the user's preferred treatment approach to the dental technician.

New clinical features such as anterior bite ramps and cut-outs for elastics made 2022 a banner year for the company's aligner. Engineered for precision, comfort and aesthetics, ClearCorrect's aligners leverage industry-leading ClearQuartz material and a high, flat trim line to help clinicians achieve their orthodontic goals, providing them with greater control over their cases. Further building on the success of its primary product, ClearCorrect released the results of a series of new scientific studies that prove the benefits of its aligner material and design, demonstrating better stain resistance and enhanced control of tooth movement compared with other aligner brands.

The product portfolio has not evolved in a silo: added services and educational offerings have remained paramount to the company's



vision to empower clinicians to grow their practices and change patients' lives. To drive dentist confidence and practice capabilities, new educational resources have been developed for Ortho Campus, the brand's comprehensive collection of orthodontic tools and curricula. Additions include the ClearCorrect Clinic app, an in-office patient education tool and three new learning pathways to guide dental profes-

sionals and their teams in the expansion of their expertise in clear aligner therapy.

Continuing its trend of accelerated global growth and adoption around the world, ClearCorrect expanded its geographic presence in 2022 by introducing its products into eight new countries and activating new manufacturing lines in Germany and the US. Additionally, the company received approval to com-

mercialise the ClearCorrect aligner system in China, supported by manufacturing and treatment planning sites in the country. With the existing manufacturing site in Curitiba in Brazil, the ClearCorrect system is now manufactured at four sites on four continents.

To learn more about ClearCorrect's latest advancements, visit the Straumann arena (Booth G080/J089) in Hall 4.2 at IDS. ◀

Herbadent—made of herbs in Prague since 1897

Herbadent gently combines the power of nature with modern dentistry and dental hygiene technologies to create a complete line of dental products made from herbs and natural ingredients for daily oral care and for the prevention of caries, inflammation and gingival diseases.

Using seven medicinal herbs as the basis for its unique recipe, Herbadent uses pharmaceutical quality chamomile, clary sage, burdock, cloves, fennel, peppermint and potentilla. We respect traditional recipes and time-tested production processes, and our manufacturing process is ISO 9001 and Good Manufacturing Practices certified.

Herbadent products carry the healing power of nature, and we humbly use them to improve our customers' oral health and prevent

various diseases. Our plants grow wild in nature—in fields and in mountain areas—without pollutants and fertilisers. This is essential in order to live up to our philosophy and produce sustainable products.

The Herbadent Original product range includes a complete line of herbal products for the prevention of dental caries and gingivitis as well as for use in daily oral care. Each product contains a unique, time-tested extract of seven medicinal herbs with anti-inflammatory, astringent and mildly anaesthetic effects. The Original line is ideal for daily and preventive care of teeth, gingivae and mucous membranes, and the products help to reduce mouth ulcers and regenerate gingival tissue. Each product provides gentle gingival care, reduces bacte-

ria and manages plaque, while also managing halitosis and having a fresh herbal taste.

For our product line of boosting toothpastes, we use a unique hydroxyapatite molecule that has a calcium core. The molecule adheres very well to the enamel or to the dentin tubule wall owing to its surface structure, allowing it to repair enamel surfaces, restore density and relieve sensitivity.

The Herbadent Professional range of products is designed for acute oral care. In combination with a powerful concentration of our base herbal extracts, these products include chlorhexidine bis-gluconate to create an effective combination for fast reduction of bacteria and inflammation. These products address acute gingival problems and signs of bleeding or inflammation and can be used for pre- and post-surgical treatment.

A Czech designer collaborated with Czech dentists and dental hygienists to create our toothbrushes. In these toothbrushes, the beauty of home design and the demands of professional dental care are merged. We care about nature—the toothbrush handles are made of sustainable materials—and the brushes offer a flexible neck, an ergonomic handle and six different bristle strength options.

Because it is essential to take care of teeth from birth, we offer purely natural products for the care



of the gingivae during teething, during the growth of primary teeth and also during the growth of new permanent teeth. For complete care, we produce several types of children's toothbrushes suitable for primary teeth.

Our development team is constantly developing new products and improving existing ones according to the requirements of patients and den-

tal professionals and in order to cater for the needs of modern dentistry. Our aim is the prevention of dental cavities and periodontal disease and the improvement of overall dental health.

More information about Herbadent can be found at www.herbadent.com. Visitors to IDS will be able to learn more at the company's booth (#B050/C051) in Hall 5.2. ◀

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Oral ozone treatment with Ozosan Gel



Fig. 1 The situation at the time of application of Ozosan Gel. **Fig. 2** The situation seven days later after two applications of Ozosan Gel.

Continuous technological innovation and the advancement of scientific research offer dental professionals new solutions and new treatment possibilities every day. The use of a stabilised ozone gel such as Ozosan Gel is considered one of the least invasive and most predictable methods for promoting healing for daily application in various therapies involving the oral cavity. It has antimicrobial, anti-fungal, antiviral, biostimulatory and immunostimulatory effects.

When ozone comes into contact with micro-organisms, it acts on them by degrading their cellular membranes and preventing their reproduction. However, with regard to the cells of the human organism, ozone improves cellular metabolism, positively influences the inflammatory response by regulating and optimising it, promotes the transport of oxygen

to the tissue and supports the tissue's healing mechanisms.

No allergic response to Ozosan Gel has been reported, and it does not cause antibiotic resistance, meaning that it can be used in various clinical cases and even for a long period without any contra-indications. Ozosan Gel is a supplementary minimally invasive therapy for topical application that clinicians can integrate into their conventional protocols to improve the effectiveness of their treatment. Ozosan Gel is a Class IIa medical device, made in Italy, for intraoperative use with different applications: from the most invasive surgery to prevention protocols.

Dental professionals can try out BIOACTIVA's products at Booth A061 in Hall 10.1. More information about the company's portfolio can be found at www.bioactiva.it. ◀

Innovation never sleeps: A-dec to share its next new development at IDS

Can you do this? That phrase from dentists today prompts the same spark to creatively solve dental equipment challenges as it did 60 years ago when A-dec was founded on an invention and a dream. Even then, A-dec knew that the best sources of innovation are the dental teams who use the products every day. Through the years, the company has built a large network of dentist advocates and key opinion leaders with whom it partners and field-tests. It is this outcome-driven innovation that helps A-dec understand pain points and identify opportunities to create and improve. With increased awareness of touch-points and of sanitisation in practices over the past decade, A-dec designs dental chair units, stools, lights, delivery systems, furniture and waterline maintenance products with this in mind. Now, the company is ramping up for the next innovation.

Innovation never settles

"Making the best better" is in A-dec's DNA, and no detail is too small. Since every part of the manufacturing process matters across the full line of products, it controls the entire process, including engineering, manufacturing and assembly. The company even makes the major-



ity of the parts it uses—sourcing the raw materials, then turning, drilling and milling them at its main site in Oregon in the US. There is no better way to ensure reliability, longevity and consistent performance. A-dec designs every piece of its equipment to help dental teams enjoy better workflow, efficiency and comfort.

From dental chair units and delivery systems to dental furniture and lights, to mechanical room equipment and sterilisation centres, rest assured, A-dec will never stop innovating. Come see what's next!

For more information and to connect, visit A-dec at IDS (Hall 11.1, Booth D010/E019). ◀

Ivoclar celebrates a century of innovation



◀ An employee inserting crampton gold pins into the back of ceramic crowns. (Image: Liechtensteinisches Landesarchiv/Walter Wachter, Schaan)

Developing customer-focused innovations is at the heart of what Ivoclar does. The Liechtenstein-based dental company has helped shape the dental industry worldwide for the past 100 years with the main aims of

making the work of dental professionals more efficient, more convenient and easier and ensuring that patients are given an attractive smile. At IDS 2023, Ivoclar will be showcasing its special workflows and products.

The unique success story of the company started in the late 1930s, when the artificial teeth from Ramco (the company name at the time) became a sales hit. The Liechtenstein company went on to assume a pio-

neering and leading role in the dental industry, developing numerous innovations in the field of dental and oral health, direct restorative treatment and composite resin filling materials. It revolutionised the dental industry when it introduced the first pressed ceramic system, IPS Empress, in the early 1990s. This system completely changed the way in which aesthetic, full-contour single-tooth restorations were fabricated. At the beginning of the 2000s, Ivoclar developed the IPS e.max product range, consisting of IPS e.max Press, IPS e.max CAD and IPS e.max ZirCAD. IPS e.max Press is a highly aesthetic lithium disilicate press ceramic which allows restorations to be finely crafted, quickly and efficiently. The market launch of the "blue block", IPS e.max CAD, further transformed the dental industry. The IPS e.max family of zirconia products comprises the established IPS e.max ZirCAD, including IPS e.max ZirCAD Prime and IPS e.max ZirCAD Prime Esthetic. These innovative and versatile zirconia materials are characterised by superb quality, efficiency and aesthetics, offering patients the best possible treatment solution.

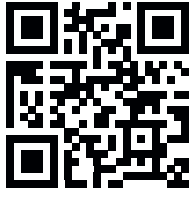
Ivoclar became aware of the importance of digitalisation in dentistry at a very early stage. The dental manufacturer introduced the Ivotion denture system in response to this trend, revolutionising the way in which removable dentures are made. This innovative system is a part of the digital denture workflow, which promises fast and predictable results in creating removable dentures from a single

disc. The system is highly efficient and produces exceptionally attractive results. Ivoclar's PrograWorld portfolio comprises a complete range of products for a smooth digital workflow, extending from digital impression taking with VivaScan in the dental practice to the digital fabrication of restorations in the dental laboratory.

As we speak, the company's in-house research and development team is working at full speed to develop new products and solutions that will make the work of dentists and dental laboratory technicians and their laboratories even easier and more efficient. Patric Frank, chief marketing officer at Ivoclar, explained the winning formula of the company as follows: "Ivoclar is committed to always adding value to the products and services it offers its customers and to being a reliable partner." He added that this can only be achieved through a constant and open dialogue with customers and partners. "That is why we look forward to having many interesting and inspiring exchanges at IDS 2023," Frank said.

At the world's leading dental exhibition, Ivoclar will be staying true to its slogan of "Making People Smile" by showcasing its innovative workflows and dental solutions. These have been developed to fulfil the main goal of dentistry, which is to give patients a healthy and attractive smile.

Visitors to IDS 2023 are invited to learn more about the individual Ivoclar workflows and innovations by visiting the company in Hall 11.3 at Booths A010/C019, A011 and A020/C029. ◀



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Educating for Dental Excellence

Precise 3D printers for a predictable clinical output

■ In combination with a suite of process monitoring features, Asiga's Smart Position System technology ensures that every device is produced in a controlled environment providing production assurance and patient safety. The 4K DLP image definition and high-powered UV LED options allow for superfast 3D printing in time-critical environments.

This production accuracy, consistency and speed combined with a simple customer workflow provides a grounded solution to confidently manufacture any dental appliance. Asiga's 3D printers are well trusted



in both the dental laboratory and dental clinic for the reliable production of dental models with removable dies, study models, temporary restorations, guides, trays, try-ins, splints, dentures or high-volume models for clear aligners.

Gain unlimited and unrestricted access to more than 500 industry-leading materials with Asiga's open material architecture for the ultimate in material flexibility and choice. Futureproof your 3D printing capabilities with Asiga and stay up to date with the latest material releases. Switch materials in seconds without the need for calibration for workflow optimisation.

Asiga's range of interchangeable resin trays provide an option to print parts with either a high-gloss or matte-surface finish. Simply switch over the resin tray to print with a high-gloss finish or back again to print with a matte finish. Asiga's resin tray options provide an end-use finish directly from the 3D printer saving labour time and cost.

The Asiga network of trained and authorised resellers is backed up by Asiga's unlimited lifetime technical support via the Asiga online customer service centre. Learn more about Asiga at www.asiga.com or visit the company's booth (Hall 3.1, Booth H030) at IDS. ◀

VOCO to present new products at three trade fair booths



■ The German dental manufacturer VOCO, which has an expertise of over 40 years on the global dental market, will be exhibiting at IDS in Cologne in March. Numerous new products as well as other highlights from the portfolio will be presented

at the show. With three booths and over 430m² of exhibition space, the family-run company will have one of the largest booths at the show.

The focus will be on new products for various indications as well as other bestsellers and top items

from the current product portfolio. In addition, there will be plenty of opportunities for personal exchange. "In addition to the presentations, we also focus on professional and individual discussions. It has always been our aim to find the exact solution that is perfectly tailored to the respective needs of our customers", said Dr Axel Bernecker, head of marketing at VOCO.

Visitors will have numerous opportunities to discover the manufacturer's product range. At the spacious main booth in Hall 10.2, VOCO will showcase classic products such as composites, adhesives or impression materials for direct and indirect restorations as well as CAD/CAM materials for additive and subtractive manufacturing. Furthermore, the company will provide information about the 3D printers of the SolFlex series.

VOCO will also be represented in Hall 5.2 with the focus on oral care and dental prophylaxis in particular, including products for tooth cleaning and desensitisation as well as fissure sealants and fluoride varnishes for the treatment of hypersensitivities.

Visitors will be welcome to test and try the products in Hall 5.2 at Booth C040 and in Hall 10.2 at Booths N010/O029. More information about the company and its products can be found at www.voco.dental. ◀

CEPPRO: Evolving beyond digital orthodontic diagnosis

■ DDH seeks to increase clinical utilisation of digital dentistry by developing digital dentistry solutions and services that employ artificial intelligence (AI) and providing these through its digital dentistry platform. Currently, more than 350 member clinics in South Korea use its online AI-based orthodontic diagnosis support solutions and clear aligner services.

DDH's CEPPRO is a cloud-based automated cephalometric analyser and real-time orthodontic diagnosis support solution developed through AI learning on extensive clinical data.

Being an online service, CEPPRO is more convenient and efficient than traditional installed software and offers high cost-effectiveness.

It automatically identifies 78 cephalometric/anthropometric landmarks on cephalometric images in real time, including 34 facial soft-tissue landmarks and 44 hard-tissue landmarks. The large number of landmarks detected supports accurate analysis of the clinical case and realistic visualisation. CEPPRO also presents measurement analysis results and has a visual treatment objective

function that automatically aligns the cephalometric image with facial photographs and optimises the envisioned soft-tissue changes after hard-tissue movement. These features ensure a real-time visualisation of treatment results for patient consultation, thereby increasing treatment efficiency and acceptance at the same time.

CEPPRO has been certified by the Korea Ministry of Food and Drug Safety and obtained the CE mark. It was developed through long-term research and development collabora-

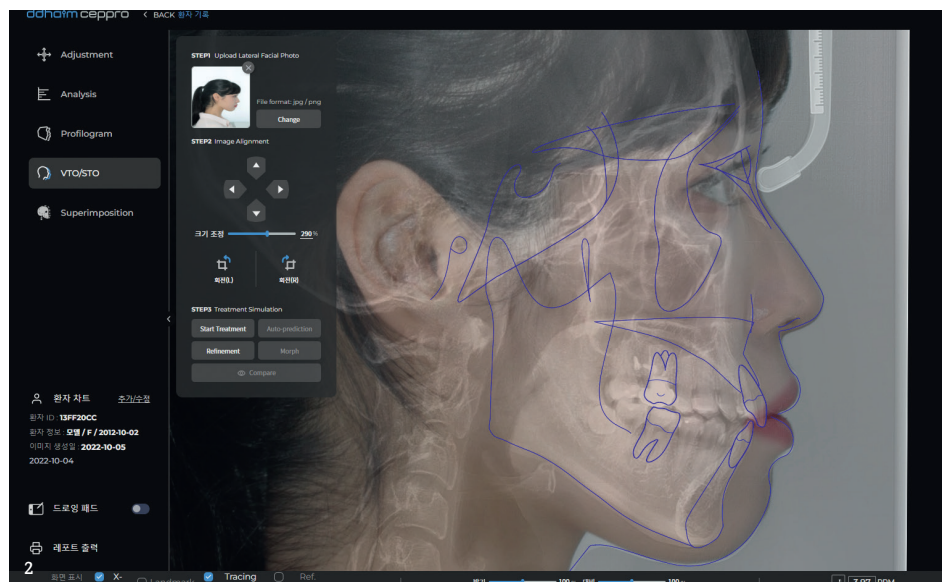
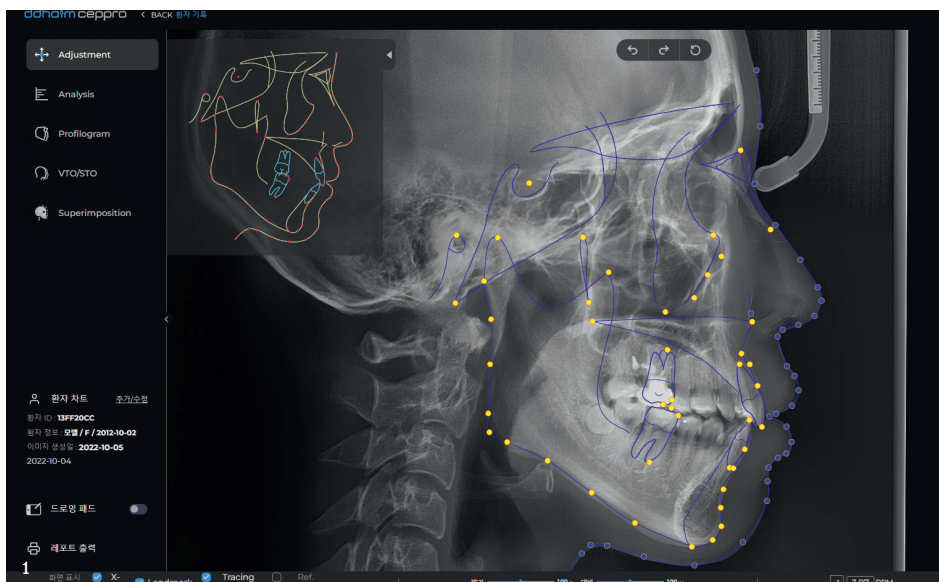
tion with Seoul National University School of Dentistry.

Signing up for DDH free membership grants immediate access to the software. Currently, CEPPRO 2.01 is available free, and CEPPRO 3.0, which is scheduled to launch in the first half of this year, will offer a free trial period after launch and a low monthly subscription fee option thereafter. There is no need to purchase expensive software licences or upgrades, and CEPPRO provides on-demand service and the most up-to-date version of the program. Users do not

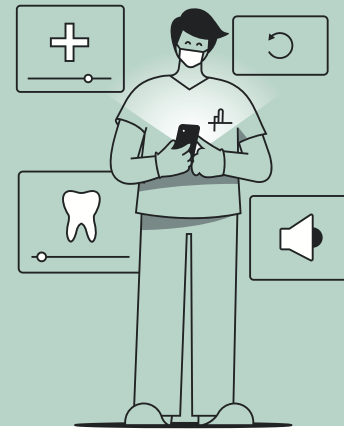
need a high-performance computer, as CEPPRO is a fast web-based service.

The upcoming Version 3.0 enhances user-friendliness and patient consultation functions compared with the existing version, adds superimposition with the latest AI technology and applies more advanced AI functions to predict treatment results.

More information about DDH can be found at www.ddhinc.net/en. At IDS, DDH will be showcasing its solution at Booth K079 in Hall 4.2. ◀



Figs. 1 & 2: CEPPRO 3.0.

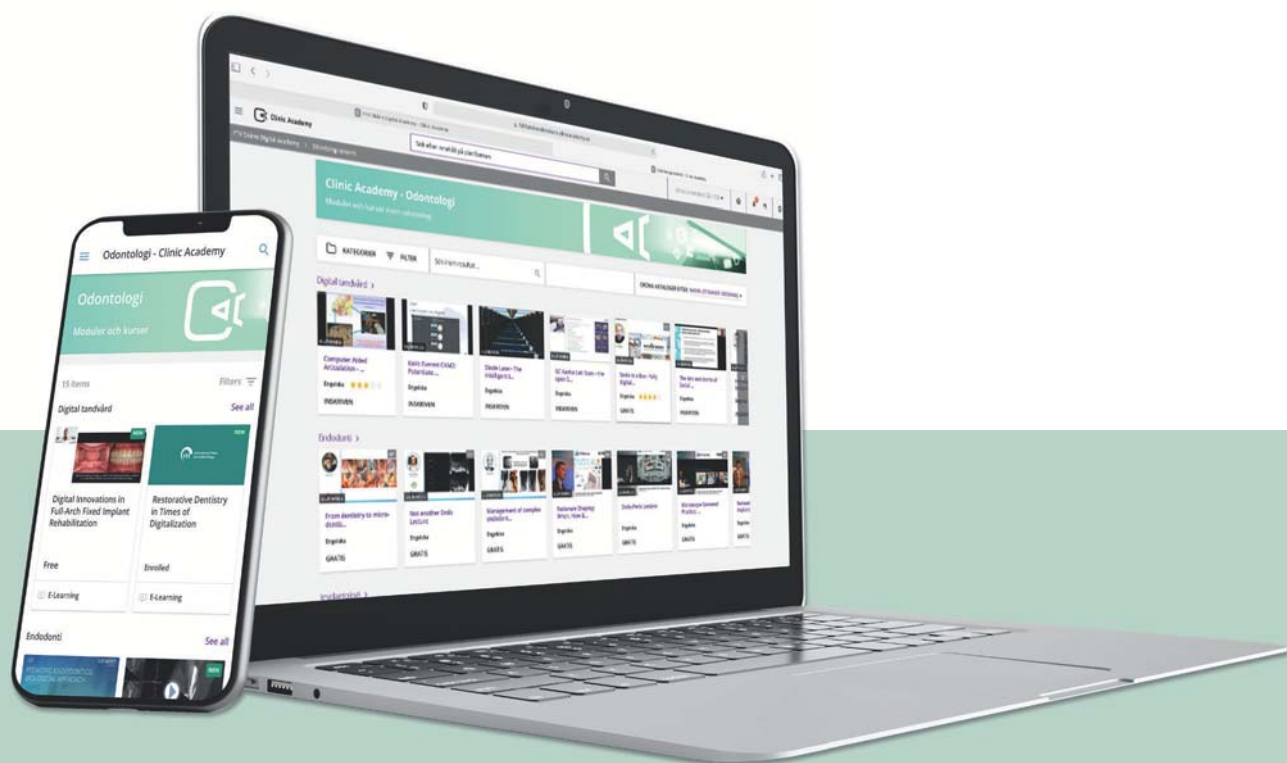
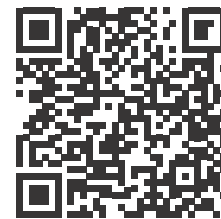


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When in Cologne, do as the Cologners do

If you are heading to IDS, do yourself a favour and plan at least a few hours outside of the Koelnmesse fairgrounds. After all, Cologne is one of Germany's most superlative cities and is overflowing with architecture, gastronomy, art and rambunctiousness. Read on for tips on how to enjoy Cologne like a local.



■ At nearly 2,000 years of age, the former Roman city has not tired of bearing fruits, the long list of which includes the world's tallest cathedral, an eponymous perfume marketed to men and a pioneering electronic music scene that dates back to the 1950s. Readers really should consider exploring this bastion of contemporary German society, and a taste of what Cologne has to offer may leave you with a thirst for more.

might have softened over time. Fortunately, the Deutsche Bahn's assessment of the locks in 2015 concluded that they posed no structural danger to the bridge.

A short ride west will bring you to the expansive, parklike Melaten cemetery, home to the remains of many notable Cologners—including Johann Maria Farina, who invented eau de cologne; Alfred Nourney, who survived the sinking of the Titanic;

cake at *cafecafe ehrenfeld*, where the breakfast menu is also recommended.

If you are longing for a holiday feel and find yourself in the southern part of the inner city, enjoy small Spanish delicacies and an excellent cappuccino surrounded by surfboards hanging on the walls at *Café Mansito* (formerly *Sabor 'ermoso*).

Cologne by night

As the sun goes down, Cologne reawakens in a different light, and so it is easy to enjoy the city once the trade fair halls close. Keep an eye out for the plentiful shisha bars and *Büdchen*, refreshment kiosks found on many street corners. Many locals will stop by one of them for drink, so why not join them? When it comes to bars, the trendy *Zumscheuen Reh*, located next to the Köln West train station, is perfect for starting the evening: get to know some Cologners while enjoying a couple of long drinks—non-alcoholic drinks are also plentiful—and the live music on offer in the bar's outdoor area.

Another idea would be to hit *Bumann & SOHN*, which is close to the Köln-Ehrenfeld train station. It is here that beer garden atmosphere meets urban industrial vibes and where the dynamic, alternative flair of this district can be felt best. Coming early pays off!

Those who are looking for a home away from home might consider stumbling by *die Wohngemeinschaft*, which means "shared flat". This café, bar, theatre and hostel is located in the trendy *Belgisches Viertel* shopping district and arranged according to the tastes and whims of its four fictitious housemates. A drink on a retro barstool in this friendly establishment may be just the ticket.

If you are in the mood for dancing, you can spend the rest of the night in the northern part of Cologne between Ehrenfeld and Nippes, at the *Odonien* nightclub to be exact. Apart from concerts, plays, flea markets and open-air film showings, at *Odonien* you can dance to predominantly electronic club music in the midst of obscure metal sculptures and impressive fireworks.

Arts and culture

Cologne has a great deal to offer as far as arts and culture are concerned. Collections of famous European paintings can be found in the celebrated *Museum Ludwig*—this might

be your thing; however, a few other exhibitions that are happening around town may prove to be more topical. On show at the Museum of Applied Arts is *Blumen, Flowers, Fleurs*, an exhibition of iridescent, larger-than-life woollen "paintings" by the German artist *Susanna Taras*. The artist plays with colour, scale and form and aims to find a sense of poetry in the halls of art institutions.

A hop, skip and a jump away is the city's leading ethnological museum, the *Rautenstrauch-Joest Museum, Cultures of the World*. Fresher than its name might suggest, the museum is currently asking visitors what love has to do with colonialism. The exhibition *LOVE?* explores love and desire as experienced under the great hegemonies of our age: namely heteropatriarchy, colonialism and capitalism. If you are up for a challenge during your time in Cologne, make it this exhibition. It could allow you to see your own local museum collection in a new light.

There are many, many more museums of note in the city: *Museum Schnütgen*, the *Wallraf-Richartz Museum*, the *Museum for East Asian Art*, just to name a few.

Film buffs should pay a visit to the *Filmforum NRW*, and one of many other highlights of the city for cineastes is the *ODEON*, a cosy, retro-style movie theatre that shows art house productions.

Food and drinks

Whether you are interested in music, art or getting lost in the crowd, Cologne and its peculiarities are best explored with a full tummy. For quite some time now, an unofficial institution of the city has been the *falafel*.

Usually, it is freshly made with coriander or parsley (either Lebanese- or Syrian-style) and fried to perfection. In Cologne, these spicy chickpea balls taste like nowhere else in Germany—preferably with a giant spoonful of tahini. Try it yourself: take a stroll down *Venloer Street* in Ehrenfeld and see for how long you can resist the smell of the various oriental bistros and cafes. Arguably the best *falafel* can be found at the three eateries *Vegan Food Revolution*, *Habibi* and *Beirut*. The first is known for its doughnut-shaped *falafel* and the last boasts a beautiful view over the Rhine.

If your tastes are more carnivorous, however, then you should pay *Karl Hermann's* a visit. Also located on *Venloer Street*, it serves high-quality burgers with freshly minced and succulently grilled meat patties—free from antibiotics—in a fluffy brioche bun. If you still have some room left afterwards, you can hit *Frittenwerk Köln* for some delicious homemade fries. Enjoy fries made from regular or sweet potatoes with chive and cheese topping. Whatever you choose, make sure to also try the *lemon aioli* and the *guacamole*.

Naturally, these large amounts of salt need to be counteracted somehow, which is why a visit to one of the Kölsch-serving traditional restaurants is a necessity. Enjoy a chilled Kölsch beer like a true local at *Bierhaus en d'r Salzgass* or *Weinhaus Vogel*, where not only is simple, authentic Cologne food served, but the spirit of the city can be experienced.

Find out more about the places mentioned in this article by typing their names in Google or TripAdvisor. All details were current at the time of writing in late January. ◀



Fig. 1: Cologne's old town is full of contrasts and colour, all year round.

Cologne by day

The undisputable reference point of this city is the famous Cologne Cathedral, or *Kölner Dom*. The Catholic church took 632 years to build and is Germany's most visited landmark. If you head inside, keep an eye out for *Gerhard Richter's* brazen stained-glass window (they consist of 11,500 identically sized pieces of coloured glass) and try to imagine the church's largest bell suspended high above you. Affectionately known as "*Der dicke Pitter*", or "the Fat or Big Peter", it weighs around 24,000kg and is the world's second largest freely swinging, ringable bell. The richness of its toll only rings out on special occasions, such as the death of a pope, and Christian celebrations. Like most locals, you may prefer to simply chill on the steps and watch the crowd, take a selfie in front of the towering gothic façade and head off. Rest assured that Cologne has much more to offer!

Just east of the cathedral is the *Hohenzollern Bridge*, whose pedestrian pathway is bejewelled by an estimated 500,000 love padlocks. A trip to IDS could be the perfect chance to tell that special someone just how you feel or to reaffirm in steel what

and *Irmgard Keun*, a writer whose books were burned by the Nazis but later celebrated for their portrayals of the lives of women.

Not many Cologners take city tours, but doing so could help you get to know the town from a new, different perspective. How about heading back to the cemetery for an interactive mystery tour, discovering the hidden, hoppy laneways of the historic centre with a guided brewery tour, or exploring the queer side of town by taking an LGBTQ+ tour? Perhaps you are more interested in obscure topics, like the role that mustard has played in the town or whether Cologners really are obsessed with chocolate. The town's many speciality museums may answer these questions while posing many others.

What better way to take a break from the show than by enjoying a piece of cake and a cup of coffee? The vibrant *Ehrenfeld* district (northwest of the inner city) offers a number of good cafes in a relaxed and appealing atmosphere. Visit the cosy and slightly hidden *Kaffeebud Ehrenfeld* to find out what a "third wave" coffee is, or delight in a creamy latte and authentic New York-style cheese-

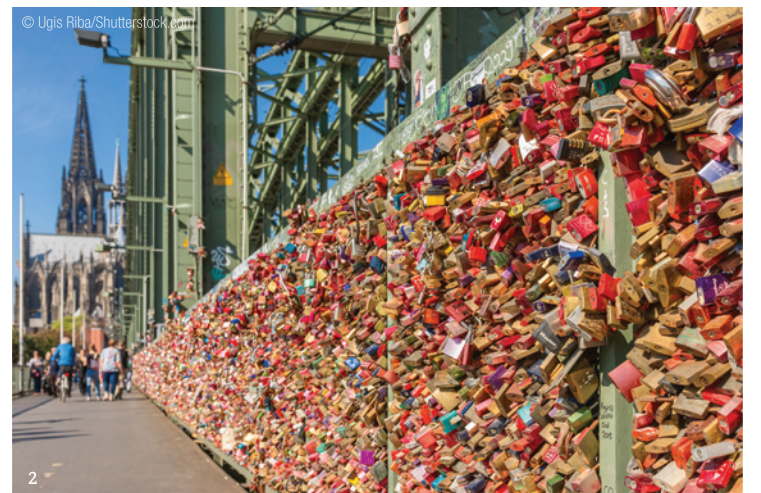


Fig. 2: Just east of the cathedral is the Hohenzollern Bridge, which survived allied bombing raids during World War II and is now bejewelled by an estimated 500,000 love padlocks.

Useful information

Organisers

Koelnmesse and the Society for the Advancement of the Dental Industry (GFDI), the commercial enterprise of the Association of the German Dental Industry (VDDI)

Venue

Koelnmesse, Messeplatz 1, 50679 Cologne, Germany for in-person attendance
The IDSconnect digital platform for virtual participation

Exhibition opening hours

14-18 March 2023
Daily from 9:00-18:00 for visitors
Daily from 8:00-19:00 for exhibitors

Admission price

Day ticket: €15.00
Day ticket for students: €7.50
IDSconnect: Free with registration

IDSconnect

In tandem with the physical exhibition, the IDSconnect digital platform will offer information on products and system solutions and will enable the streaming of webinars, press conferences, events and one-to-one conversations between company representatives and current/prospective clients.

Hygiene protocols

COVID-19 restrictions for trade fairs and events in North Rhine-Westphalia have been

lifted completely and visitors are not required to wear face masks on the fairgrounds or in the halls. IDS organisers nonetheless encourage the basic hygiene protocols of regular hand washing, sneezing into one's elbow, avoiding physical contact and using the provided hand disinfection facilities.

Visa requirements

Schengen regulations mean EU nationals do not require a visa to enter the Federal Republic of Germany. Additionally, passport holders of other nations may enter the country without a visa for business and travel purposes and remain for up to 90 days. All other foreign nationals must hold a valid visa to visit the country. Visit the website of the Federal Foreign Office for the most current information. Since the German Federal Government classifies trade fair exhibitors and visitors as "business travellers with an important reason", there are no longer any formal, fundamental obstacles to participating in a trade fair in Germany.

Getting to Cologne

Travellers from around Europe and further afield can get to Cologne by air, rail or car. Cologne Bonn Airport is served by most European and international airlines and is located just outside of the city. Düsseldorf Airport is 65 km from Koelnmesse and the European aviation hub of Frankfurt Airport is located around 180 km from

the showground. Travellers arriving by air can take advantage of special prices being offered by the Lufthansa Group airlines and those travelling by rail can make use of discounted fares offered by the German train service Deutsche Bahn. See the IDS website for comprehensive travel information.

Getting to and from the show

IDS 2023 ticket holders can use public transport within both the Rhein-Sieg and the Rhein-Ruhr transport areas free of charge. The Koelnmesse grounds are well connected to the city's transport network. Suburban (S-Bahn) Lines 6, 11, 12 and 19 depart from the Köln Messe/Deutz train station (opposite the south entrance) and reach Cologne main station (Köln Hauptbahnhof) in just a few minutes. Underground Lines 1 and 9 stop at the Bahnhof Deutz station (3 minutes' walk from the south entrance), and 3 and 4 stop at the Koelnmesse station (east entrance). Taxi ranks can be found at all four main entrances and those wishing to walk back to the central city can use the Hohenzollern Bridge.

Barrier-free trade fair

The North, East and West entrances to the trade fair have box offices and cloakrooms on the ground floor and lifts to the exhibition halls. Entrance South can be reached via an outside lift via Gate F. Visitors with

disabilities or restricted mobility can borrow manual or electric wheelchairs from the Medical Centre North (Hall 7) and Medical Centre East (Hall 11.1) in exchange for a refundable deposit. Disabled toilet facilities are located at all entrances and throughout the halls.

Internet

Wi-Fi is available free of charge via the WLAN network #hotspot.koelnmesse after registering on the portal site.

Money

Germany uses the euro as legal tender and the exchange rates as at 9 February 2023 were €0.93 to US\$1, €1.12 to £1 and €0.0070 to ¥1. Contactless payment will be accepted throughout the venue.

Places of worship

Muslim prayer rooms are located in Congress Centre East (third floor, Room 6) and in Hall 8 (Room 8.2.05).

Important numbers

Police: 110
Fire and ambulance: 112
Medical Centre, Hall 7: +49 221 821-3517
Medical Centre, Hall 11.1: +49 221 821-2608

IDS visitor hotline: +49 180 6773577
Security Office North: +49 221 821-2551/-2552
Security Office East: +49 221 821-2549/-2550

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