

## European press conference on 25 January 2023 at Cologne



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IDS  
14.03. - 18.03.2023  
[www.english.ids-cologne.de](http://www.english.ids-cologne.de)

## European Press Conference

**IDS International Dental Show 2023**  
25 January 2023, Rheinsaal, Congress Centre North, Koelnmesse



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14.03. - 18.03.2023  
[www.english.ids-cologne.de](http://www.english.ids-cologne.de)

**- Welcome**

**Mark Stephen Pace**

Chairman of the Executive Board of the Association of the German Dental Industry (VDDI)

**- Key Note**

**Dr. Juliane Winkelmann**

European Observatory of Health Systems and Policies, Brussels

**- Press Talk**

**Mark Stephen Pace**

Chairman of the Executive Board of the Association of the German Dental Industry (VDDI)

**Oliver Frese**

Chief Operating Officer of Koelnmesse

**Dr. Juliane Winkelmann**

European Observatory of Health Systems and Policies, Brussels

**Dr. Henner Bunke**

Board Member Council of European Dentists (CED)

Host: Susanne Schöne

**- Additional discussion partners :**

**Klaus Bartsch**

Vice President of Verband Deutscher Zahntechniker-Innungen (VDZI)

**Dr. Markus Heibach**

Executive Director of the Association of the German Dental Industry (VDDI) and the GFDI Gesellschaft zur Förderung der Dental-Industrie mbH, the commercial enterprise of the VDDI

Stand: 25.01.2023

Kürzel: cl

No. 12 / January 2023, Cologne  
#idscologne

## IDS 2023: Already around 1,700 exhibiting companies registered

### Excellent number of registrations from Germany and abroad

Almost seven weeks prior to the start of IDS 2023, the leading international trade fair of the dental industry is ideally placed. The global industry highlight is not only taking place for the fortieth time but is also celebrating its 100th anniversary. "100 years IDS - shaping the dental future": The IDS has been designing the dental future for 100 years now and will once again impressively demonstrate this from 14 to 18 March 2023.

Around 1,700 companies from 60 countries have already registered for the leading international trade fair for dentistry and dental technology. Around 75 percent of the exhibiting companies come from abroad - the strong international participation is proof of the global charisma of the IDS. In addition to the largest participation from Germany, the most important international exhibitor participants in Cologne are currently expected from Italy, the Republic of Korea, France, Japan, Switzerland, Spain, Turkey and the USA.

In addition to this, numerous foreign group stands will be represented in Cologne again. Fifteen groups from 13 countries have registered for the IDS so far, for example, from Argentina, Brazil, Bulgaria, China, Israel, Italy, Japan, Hong Kong, Korea, Singapore and the USA.

IDS 2023 will be staged in Halls 1, 2, 3, 4, 5, 10 and 11 of the Cologne fair grounds in a gross exhibition area of around 180,000 square metres. All exhibition halls are connected via a simple circular route. Four entrance areas - the Entrances South, East and West, as well as the entrance on the trade fair Boulevard - ensure that visitors will be evenly distributed throughout the exhibition halls.

#### About IDS

IDS (International Dental Show) takes place in Cologne every two years and is organised by the GFDI Gesellschaft zur Förderung der Dental-Industrie mbH, the commercial enterprise of the Association of German Dental Manufacturers (VDDI), and is staged by Koelnmesse GmbH, Cologne.

#### Note for editorial offices:

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## Position

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“ “  
 100 years of IDS – the German Dental Association congratulates the world's most important dental trade fair on its anniversary

**European trade press discussion on 25 January 2023 to commemorate the 40<sup>th</sup> International Dental Show**

Prof. Dr. Christoph Benz,  
 President of the German Dental Association

Dear Ladies and Gentlemen,

100 years of the International Dental Show (IDS) – that means getting to know the latest innovations on the dental medicine and dental technology scene, engaging in an exchange with colleagues and experiencing a marketplace for the dental industry, dentistry and dental technology over the course of a century. The German Dental Association (BZÄK) as the long-standing partner of IDS heartily congratulates the trade fair on this exceptional anniversary. We are delighted to be on board again for the 40<sup>th</sup> edition of the trade fair and present ourselves in this cosmopolitan and dynamic environment.

As the largest and most important dental show in the world, every two years IDS grants its visitors an insight into the future of the industry. It represents the global state of the art of dentistry and dental technology and is always on the pulse of time – this is where trends and innovations are presented, which will already be implemented the day after tomorrow in many dental practices. The figures of the leading trade fair are extremely impressive too: Over 1,600 exhibitors from 60 countries are expected to participate. The wide-ranging offer presented in the exhibition halls in Cologne is also spectacular: In addition to the dental medicine and dental technology section, the range of exhibitors also covers infection protection and maintenance, but also services and information, communication and organisation materials. IDS is the only trade fair in the world to provide this diversity of products and services.

Together, the Association of German Dental Manufacturers (VDDI), the Gesellschaft zur Förderung der Dental- Industrie (GFDI) and Koelnmesse have also succeeded in keeping IDS on course in difficult times – most recently during the challenging era of the COVID pandemic, when the schedule had to be postponed from the spring to the autumn in 2021 and a sophisticated hygiene concept had to be drawn up to enable the visitors and the exhibitors a safe trade fair experience.

The new EU medical device regulation (MDR) is one of the challenges that the dental profession and the dental industry are currently faced with. According to the directive, all medical products on the market have to be recertified in line with the new MDR requirements by May 2024 at the latest. If not recertified these products will not be allowed to be sold – this also affects many dental products. At the same time, there are still not enough authorised bodies to carry out the recertification on time. The German Dental Association has repeatedly made reference to these problems.

In December 2022, the EU Health Commissioner, Stella Kyriakides, promised a postponement of the MDR and announced a corresponding legislative proposal for the beginning of 2023, because the transition over to the new MDR regulations is expected to happen much more slowly than anticipated.



This postponement is not only a successful outcome resulting from the warnings of the BZÄK, but also good news for dental professionals and the dental industry and also a nice "birthday present" for the 100th anniversary of the International Dental Show.

The German Dental Association will be exhibiting together with its partners in Hall

**11.2, Aisle O/P, Stand 50/69.**

Once again, the dental aid organisations conference that the BZÄK organises every two years is being staged during IDS on 17 March.

Further information on the programme can be found [here](#)

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## **IDS 2023**

"Chances for the improvement of processes, qualities and offerings"

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### **Statement of Vice-President Klaus Bartsch on the occasion of the European Press Talk for the International Dental Show (IDS) 2023 on 25 January in Cologne**

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The VDZI, with its head office in Berlin, represents the economic interests of the professional dental technology laboratories in the guilds as the federal guild association. President Dominik Kruchen and his deputy Klaus Bartsch currently head the VDZI. The main task of the VDZI and of the guilds is to represent the professional and economic interests of the German dental technology trade. The supreme goal is to secure the performance capability of the professional dental technology laboratories as a prerequisite for a quality-assured supply of dental prostheses for the population of Germany. Fifteen guilds belong to the VDZI.



We are living in a time shaped by crises It demands a great deal of flexibility and resilience from us all. It is also important today to remember that dentists and professional dental technology laboratories and their staff have maintained the provision of dental and dental technology services at all times during the difficult corona crisis, also with the support of the dental industry. We can all be proud of that.

We will also continue to demonstrate this. The year 2022 was also defined by another crisis, this time a war-related energy crisis leading to extreme uncertainty about the future and high inflation. Both crises continue.

This is also felt by the dental economy. In the context of this development, dentists and dental technicians have determined in recent months that many patients are postponing recourse to dental technology services.

In the event of urgent care, patients tended to choose an interim rather than a permanent dental prosthesis. Thus, according to the KZBV, the billing data of the first half of 2021 only show an increase in maxillary interim prostheses and total prostheses in comparison with the first half of 2022. Telescopic crowns, bridges or single crowns were on the other hand chosen less often – in the single-digit percentage range.

We hope that a solution for the actual causes, which can be found in the international conflicts, will be found in 2023 and that the fear of inflation and uncertainty will lessen among the general population and patients.

### **Transparent supply structures close to the place of residence**

The close technical cooperation between the commercial dental technology laboratory and the dentist's surgery is the pillar of the supply of dental prostheses.

The VDZI views the model of the self-employed dentist in combination with the independent master dental technician as a successful constellation for specialised and innovative supply quality.

Defending this model against an unbearable commercialisation of dental care is therefore a political objective that unites dentists and dental technicians.

In this context, the statement of Federal Minister of Health Karl Lauterbach (SPD) that there should be no "investor medicine" is a welcome signal. The Federal Ministry of Health (BMG) is accordingly planning a statutory prohibition of the takeover of medical practices by financial investors.

The VDZI sees proof of a progressive commercialisation of dental care in the rapid growth of pure dental community health centres (Z-MVZ). This is supported by the figures of the dental profession. Fundamental here is the recognition that the size and the organisational structures in a dental community health centre also exceeds the scope of the regulatory framework of the independent health care profession. The criteria for the classic practical laboratory do not apply for dental health community centres – especially with several employed dentists. There is also no adequate monitoring tool in the context of legislation regarding professions to ensure the observance of applicable law.

This distortion of competition is borne by commercial dental laboratories. Dental technology services are effectively being withdrawn from the market, and thus also competition in terms of quality and price. Profit and investor-oriented dental health community centres provide an ideal breeding ground for the hazards of a dental prosthesis supply oriented to profit rather

than needs. This must be stopped, and the VDZI thus views the political signals from the BMG positively.

### **Digitalisation in the dental industry is advancing**

The market already offers high-performance systems for many dental technology tasks. The technological developments are proceeding rapidly and are of interest to committed dental technicians. The digitalisation of total prosthetics will surely be a major theme at IDS 2023. Until only a few years ago, digital technology in the dental laboratory was primarily characterised by subtractive processes. The additive processes that have developed in recent years, in connection with new materials, offer many chances for improving processes, qualities and offerings.

In any case, increasing digitalisation in the laboratory will help compensate for the shortage of skilled labour in several sectors in dental technology.

However, digitalisation is not taking place only in diagnostics, planning and production, but is also utilised in the communication between the surgery and the laboratory. This offers new chances and possibilities. Whether the transfer of patient and order data, of image files extending to video conferences: the amount of data is increasing, and the focus is thus also shifting to the themes of data security and networking with regard to surgery and laboratory administration software.

### **Integration into the telematics infrastructure, also for dental technicians**

The requirements for the telematics infrastructure are regulated by law, and the VDZI is already working on the implementation of the legal standards. There is a legislative will to integrate the dental technology laboratory into the telematics infrastructure within the health care system as of mid-2024, and to thus increase data security. With the Digital Healthcare and Nursing Care Modernization Act (Digitale-Versorgung-und-Pflege-Modernisierungs-Gesetz – DVPMG) from 2021, occupation groups of the health care system, such as in dental technology, will be linked with the telematics infrastructure. This means that the electronic exchange of information in connection with the provision of dental technology services will also increase in importance.

### **New training regulations since August 2022 – the future of the dental prosthesis supply**

Without well-trained skilled labour, a dental technology laboratory cannot be successful and competitive in the digitalised world. The new training regulations, which came into force on 1 August 2022, will adequately address the dynamic technical progress and the requirements of a technically and communicatively networked and digitalised world of work.

The required knowledge and skills involved in digital production will increase in importance in the new training and testing system. The dental technicians of the future will also be taught expanded skills in the field of technical planning, risk and quality management, as well as technical information and communication. This will make them better able to fulfil the dental technology requirements of customers.

### **Compensation for crisis-related additional costs**

The additional costs related to the pandemic on the one hand and the sustained inflation of costs on the other guide the legal regulations for the price negotiations of dental technicians ad absurdum. The prices for dental technology services may thus not increase more than the revenues of the health insurance funds, measured in accordance with the change rate pursuant to § 71, Par. 3 Social Security Code (SGB V). This endangers the businesses in the

event of high inflation. The education campaign of the VDZI in this matter is bearing initial fruit. The VDZI thus welcomes the motion of the CDU/CSU Bundestag faction to support the dental technician trade of 13 December 2022, which is a step in the right direction. It calls on the government party factions to undertake coordinated action aimed at assuring the performance capability of the businesses.

A permanent and universal ensuring of the dental technological provision of standard benefits and especially of the urgent upkeep for those insured with statutory health insurance is only possible when compensation for these additional costs is provided quickly and unbureaucratically. The VDZI member guilds also emphasised this with a resolution at the end of November 2022. As long as no substantial amendment or abrogation of the price regulation for standard benefits in the dental technology supply are enacted, the dental technology laboratories must be disencumbered within the framework of an appropriate one-time payment.

### **The dental technician trade**

The almost 7,650 professional dental technology businesses ensure a quality-tested and comprehensive supply of dental prostheses in Germany. At the end of March 2021, there were 47,500 dental technicians subject to social insurance contributions employed in Germany.

Almost 5,100 young people are currently completing a highly qualified programme of training in the dental technician trade. Almost two thirds of the trainees are female. The dental technician profession is in sixth place in the top ten of the most popular professions among female trainees in the trade.

With an apprenticeship quota of nearly 20 percent - five times the average of the overall economy - the professional dental technology laboratories impressively demonstrate their willingness to train apprentices.

### **The dental technician trade at the IDS - apprentices and masters present themselves**

IDS 2023 will once again be a display window for the dental technicians of tomorrow. The strong young generation once again demonstrates its ability in the context of the Gysi Prize, the "competition of the apprentices" in the dental technology trade. All visitors to the IDS can once again see for themselves this year. The best dental technology works of the participants from the 2nd, 3rd and 4th years of apprenticeship will be honoured with the Gysi Prize, named for the researcher and teacher Alfred Gysi (1865-1957). The award ceremony takes place on 16 March in the context of the IDS in Cologne.

However, not only the apprentices will be represented at the IDS. Die Klaus Kanter Stiftung will honour the best masters with the Klaus Kanter Prize. The VDZI is pleased that the coming generation of dental technicians will thus be represented in Cologne.

**The trade fair stand of the VDZI in hall 11.2, aisle S 10/12 will also be the meeting place for all questions concerning dental technology during the entire trade fair.**

## **40th IDS in the year of its 100th anniversary**

A firm anchor for the entire dental industry

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## **Statement by Vice-President Klaus Bartsch on the anniversary of the International Dental Show (IDS) 2023**

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The time will have come from 14 to 18 March. IDS - the International Dental Show - is celebrating a special, double jubilee in 2023: The 40th leading global trade fair in the year of its 100th anniversary.

The Dental Show has been taking place in Cologne regularly since 1992. After being held at alternating trade fair locations prior to that the Association of the German Dental Industry decided to organise the 25th edition of IDS at the fair grounds of Koelnmesse. In 2023, this partnership has been ongoing for 30 years and thus stands for a continuity, which all of the players of the dental industry can rely on. The Guild Association of German Dental Technicians congratulates the GFDI Gesellschaft zur Förderung der Dental-Industrie mbH, the commercial enterprise of the VDDI, as the organisers, and Koelnmesse GmbH that stages the event on this occasion and on the anniversary.

The dental industry has not lost its innovative power even during these difficult times caused by the pandemic and the disruptions to the global economy due to the war and will be showcasing its new and further developments at the International Dental Show. Amid the drastic COVID turbulences, the structural model of the freelance dentist's practice located nearby and the dental technology master laboratory impressively showed its quality and flexibility in maintaining the provision of high-quality dental medicine and dental technology services even under extremely difficult conditions.

The performance capability of the dental industry thus remains unabated. All of the visitors can convince themselves of this over the course of five days in March. The International Dental Show is thereby more than a presentation of products and services. It is also a global get-together of all persons involved in the dental care of patients. Hence, in the anniversary year there could be no more suitable place than IDS 2023 to provide a reliable orientation in these still insecure times. This has always been the strength of the International Dental Show in the past and will also be the firm anchor in the future, which the industry needs in this present situation.

As representatives of the entire dental technology trade in Germany, we are looking forward to all people interested in dental medicine and dental technology making their way to the Cathedral City on the Rhine in this double anniversary year for the largest industry get-together in the world.

As the partner association of IDS, with its exhibition stand the VDZI will once again serve as the information and meeting point for dental technicians and for all those who are interested in this strong trade and its opportunities. Once again this year, we are celebrating the high level of aspiring dental technicians in the scope of the Gysi Prize 2023 competition. The quality of the training and the qualification of skilled workers are the order of the day in these times of a lack in skilled workers. The visitors will be able to see the fantastic performances of the young people.

The initiative proDente e.V. is celebrating a special anniversary this year. The joint initiative between the industry, dentists and the dental technicians trade has been informing the national media about dental medicine and dental technology care in Germany since 1998. As the initial point of contact, proDente has been successfully promoting beautiful and healthy teeth for 25 years. In its own anniversary year, the Cologne-based initiative simply can't be missing in this special year for IDS.

The dental technicians will attend the trade fair in high numbers again. They are looking forward to IDS 2023 and the VDZI warmly congratulates the VDDI on its fantastic anniversaries, which it will accompany with joy and a high readiness to cooperate.

No. 9 / September 2022, Cologne  
#idscologne

## IDS 2023: The new products awaited at the International Dental Show in Cologne



### Ia. Digital production options

Practices and laboratories are working intensively in **digital workflows**. They have significantly extended the collaboration options. Distances play an increasingly minor role in the digital world:

- The practice can seek the suitable laboratory over a large radius depending on the specific case at hand.
- Vice versa, the laboratory can supply prosthetic work to practices over a large radius - a global market has arisen!

- Digital scan data opens up manifold production options in a to a large extent or fully digitalised workflow.
- The restorations and three-unit bridges can be optionally produced chairside or labside as desired.
- Larger and particularly aesthetically demanding restorations will be produced in the laboratory of the dental technician.

- Alternatively to own productions, different order services are available in wide sections. For example, a laboratory can send the digital records made in the practice and its model documents straight on to the dental industry or to a centralised manufacturer and is sent back ceramic frameworks for further individual processing, for instance. Laboratories that have their own machine also partly offer free production capacities to other dental laboratories.

More and more users are rigorously digitalising their working methods. Impressions made using the **intraoral scanner and the extended indication section** are gaining momentum.

### Ib. Intraoral scanners with extended indications

The indication section of intraoral scanners is currently expanding.

- Whole jaw scans or scans of individual jaw sections, mucous scans and the matching of several separate scans - all of this is becoming possible.
- The borders between extremely subgingival treatment and between the direct translation of an intraoral scan into functional movements as needed for example for the "digital total protheses" are merging.
- The trend is moving towards a second scanner: Two devices with differing strengths for the optimal exploitation of the entire spectrum of applications.
- Intraoral images are also being used more and more often for the communication

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District Court Cologne, HRB 952

with the patient.

- As of recently, in combination with artificial intelligent intraoral scanners are being used to support the initial examination, for example for recognising tooth decay.

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Parallel to this **elastomers** remain to be indispensable and are being consequently further developed - in this direction:

- higher tear-resistance
- truer to dimension
- higher hydrophilia

These three to an extent contradictory aims can be brought into better harmony with each other than years ago thanks to the current technologies.

## II. The right filling material for the individual case

The substance options in the filling therapy have expanded over the past years - the current state of technology is as follows:

- Glass ionomer cement is classically considered to be top bio-compatible, but has a limited shelf life. Current further developments in the direction of the glass hybrid technology and the combination with protective composite varnishes extend the shelf life of the respective fillings.
- Compomer is equally established and remarkable, because it has progressed from being a "young wild" development into a classic over a period of many years.
- The composite field proves to be particularly wide-reaching: Classics for the increment technique are enhanced by bulk filling materials for a "filling in one go".
- There are large, finely differentiated colour ranges for the nuanced "Almost like ceramic" colouring as well as five colour variants with a chameleon effect for the faster placed and aesthetically pleasing filling.
- A filling is inserted particularly fast using modern filling material: For example totally without light curing in the case of certain primer/filling material combinations or totally without adhesive in the case of hybrid composites.

## III. Trends in special disciplines

In endodontics one is constantly faced with objectives that seem to contradict each other:

- a wide open access cavity for a perfect view inside the canal
- a wide shaping in the apical region to allow an efficient rinsing
- a conservative preparation to preserve the tooth as far as possible

Specially formed endodontic files are now establishing a new balance. The dentist uses them for the gentle preparation of the coronal area and at the same time transports debris from the apical part of the roots very effectively to create sufficient volume for the chemical disinfection and where necessary sonar and/or ultrasound activation.

Different heat treatments to temper the nickel/titanium files or the respective alloys lead to a stronger differentiation between the instruments, for example

- between files for general application



- and files especially for revisions

The choice between different motion characteristics has established itself over the past years.

- In the case of simple endodontological treatment, one can decide between continual and reciprocal rotation.
- In difficult cases the specialists combine both.

In implantology the question "Autologous or allogenic or xenogeneic bone replacement material?" loses significance slightly because they can also be implemented together expediently. There are a number of different options

- from pig and cattle bones through to
- complete inorganic alternatives.
- Hybrid forms are also tried and tested (i.e. a mixture between xenohybrid bone matrix, copolymers and collagen fragments).

Furthermore, prior to this optimal wound healing is decisive.

- In this field, among others at present the conditions under which PRF (platelet-rich fibrin) can be successfully implemented for the socket preservation or ridge preservation are currently being clarified.
- Suitable devices and centrifuge tubes in different executions are available for the centrifugation of the patient's autologous blood extracted from the peripheral vessels.
- Among others, mixtures of PRF or also of blood from the surgery site together with bone replacement material can be placed in extraction vials and used to help improve the wound healing.

The digital technologies are evolving rapidly:

- The DVT or CT is still considered to be essential in the aesthetic section.
- The backward-planning and further digital elements of a modern workflow (CAD Design, CAD/CAM production, 3D printing) also promise success.

Different units are being more strongly integrated digitally.

- The primary stability can be determined by measuring magnetic impulse-induced vibrations of a measuring adapter that is screwed into the implant.
- As of recently, a measuring device connected to a surgical motor via Bluetooth enables the ISQ value to be determined using the data from the aforesaid motor.

The scan of scanbodies is taking over a major role.

- This is why dentists and dental technicians ensure that their "favourite implant systems" are stored in the software.
- Custom-fit frameworks can be milled and for example screwed onto four or six implants for a full jaw treatment.
- Navigated implantology is possible if a 3D X-ray (DVT) is used simultaneously with a digitalised wax-up.
- Not customary, but within arm's reach is the permanent implant-retained restoration produced in advance - which can be screwed together as soon as the

implant has been inserted.

There are also mechanical innovations:

- The correct fit of a titanium scan abutment is secured using a fixing screw with a short thread. If it doesn't sit properly, it has to be readjusted!
- New, wedge-shaped implants are offered especially for implantation in narrow interdental spaces in the lower jaw posterior region. The dentist hammers them in after flap formation and bone spreading.

In turn, "biologisation" is also an implant after-care option - using hyaluronic acid for example. It serves

- as a barrier against pathogens
- as a stimulant for the tissue
- to save implants that are affected by periimplantitis.

Furthermore, progress is also expected in the documentation possibilities for inserted implants. The facts:

- A prototype for an electronic implant passport is developed.
- It could also be part of the electronic patient file (ePA) as a medical information object (MIO).

As a result of the digital technology, the focus in orthodontics lies on speed and aesthetics.

As in the field of prosthetics, digital or a mixture between analogue/digital methods can be implemented. Retainers as an example:

- The "totally digitalised" variant begins with an intraoral scan and a specification (i. e. "Retainer, OK, from 3 to 3"); the corresponding STL data set is sent to the laboratory, centralised manufacturer or industrial service provider.
- As an alternative to the intraoral scan, a plaster cast can be digitalised using one's own laboratory scanner or by the laboratory or another external service provider. Around two days after presenting the electronic data, the practice receives a virtual retainer draft. The orthodontist then approves this draft for production, if necessary after alterations.
- After receipt of the approval, the external service provider sends the retainer to the practice within a few days.
- The spectrum ranges from a "Blackbox " with a defined input and a defined output channel through to transparent and flexible workflows. In the latter case, the user keeps many options open for the inward and outward transfer of data. Otherwise, he sticks to a strict, clearly laid down, reliably functioning workflow.
- Robots are more and more frequently responsible for the bending processes.
- In the field of substances used in the orthodontics section, cobalt chrome alloys without nickel are a more recent option for braces with a flat and round design and high wearing comfort.

The indication area for transparent aligners is expanding thanks to the digital

integration of cone beam computer tomography. Because this means both intraoral recordings as well as 3D X-ray images (DVT) can be taken into account in the digital treatment planning. This allows

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- more predictable results
- particularly in the most common cases of aligner therapies (i.e. deep overbite)
- observation on the screen from different angles, a better recognition of impacted or not yet broken teeth
- better therapy planning

#### IV. Dental technology

The new training regulations constitute a visible sign for the pioneering role of the dental technician regarding digitalisation. Digital contents are increasingly being used for curricula and examinations. This is the current position of the laboratories:

- In Germany 75 percent of the laboratories already use extraoral scanners.
- However, there are also individual laboratories that receive 90 percent of their moulds in the form of digital data sets.

Laboratories have been using CAD/CAM methods for the production of prostheses for many years for the production of a wide range of objects:

- Individual tooth restorations
  - Bridges
  - Individual abutments
- and the likes.

The laboratory also uses 3D printing to produce among others:

- Models
- Occlusal splints
- Veneers
- Gingival masks
- Denture bases and teeth
- Full-jaw or total prostheses
- Mock-ups from try-in plastic fixed restorations and long-term temporary dentures such as final prosthesis.

Among the dental substances, the ceramics are developing into "all-rounders" in many aspects.

- Structural ceramic is classically very strong (i.e. zirconium oxide) and can be made more translucent through additives.
- Vice versa, the strength of translucent glass ceramic can be increased.
- And one can namely assume that the production process of high-strength glass ceramic will be speeded up further.

In this way, the master laboratory will in future provide even more differentiated **substance offers**. Because the application spectrums of translucent zirconium

oxides and stronger glass ceramics are overlapping more and more often. Different plastics are also becoming an alternative thanks to 3D printing. Hence, there is almost always a choice between several substances for one and the same indication.

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As such, the application spectrums of different substances overlap. Those companies that provide the most aesthetic and economic results are at an advantage here.

In the near future, **Artificial Intelligence** will no doubt open up new chances to different sections of the dental laboratory:

- CAM production allows the optimisation of nesting, the avoidance of material waste and work to be carried out in a resource-saving manner.
- As far as aesthetics is concerned, one is already familiar with AI-supported digital colour identification devices.
- Automatically, perfectly mixed stains are also available thanks to AI support.
- Top results can be obtained for printed teeth for the anterior region using tailor-made mixtures of different colour components.

These demanding AI applications require the close collaboration between experienced dental technicians and companies from the dental industry. That is why the professional and personal (!) exchange of ideas is all the more important in this section.

Status as of 23.09.2022

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#idscologne

## IDS 2023: Digital ticket in a few easy steps

### IDS app combines ticket, transport ticket and important event information

IDS, the leading international trade fair of the dental industry is not only being staged for the fortieth time from 14 to 18 March 2023, the event is also celebrating its 100th anniversary. And industry participants all over the world are starting to plan their visit to the highlight of the dental industry. This also includes buying a ticket for IDS 2023 early on and installing the IDS app on their smartphone. The Ticket Shop of IDS 2023 will be online in mid-December and will then be available for the processing of ticket orders. All tickets for IDS 2023 can exclusively be ordered online and will be issued as personalised tickets.

The IDS Ticket Shop - buy the online ticket in a few easy steps:

#### 1. Registration, ticket purchase and payment

In an initial step, the visitor calls up the following link: <https://www.english.ids-cologne.de/trade-fair/tickets/buy-tickets/>. Everyone can buy a ticket or redeem digital ticket codes here. Prior to this it is necessary to register for a new Koelnmesse account, the user is guided through this process. Trade visitors, who are already registered with Koelnmesse, can use their existing access data and purchase the ticket for IDS directly. This personal log-in data for the Koelnmesse account is also valid to log-in to the trade fair app and for the digital event platform, IDSconnect. The following applies for new visitors: After registering, the IDS ticket can be purchased or the digital ticket code redeemed. PayPal or a credit card (MasterCard, VISA, American Express) can be used to pay.

#### 2. Download the IDS app

There are exclusively digital tickets available for IDS 2023. In order to use the digital ticket at the entrance it is necessary to have downloaded the IDS app, which is available from the App Store (IOS) or from the Play-Store (Android), on one's smartphone. The IDS app will be activated as soon as the IDS Ticket Shop is online. After logging in to the IDS app using the login details for the Koelnmesse account, the purchased ticket will automatically be displayed in the ticket wallet of the app. Of course, the IDS app is free of charge for you and will be available as a download for iPhones/iPads and androids in both German and English.

In addition to the entrance ticket for IDS 2023, the visitor receives the free public transport ticket in a separate mail. The transport ticket will also be automatically displayed in the wallet of the IDS app. The public transport ticket (2nd class) is valid for public transport in the extended network of the Rhine-Sieg transport system (VRS) and the Rhine-Ruhr transport system (VRR). Exempted are Deutsche Bahn AG trains that are subject to a supplementary charge, e.g. IC/EC or ICE trains. The



IDS  
14.03. - 18.03.2023  
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transport ticket is only valid within the indicated trade fair period for arrival and departure to IDS 2023. It is non-transferable and only valid in connection with valid photo identification and a ticket for IDS 2023.

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### 3. Visiting IDS 2023 and benefits of the IDS app

The IDS app not only contains the tickets for admission to the trade fair and the transport tickets for local public transport (VRS and VRR), it additionally offers all trade fair participants a host of benefits - prior to, during and after the event. Three months before the event one can already arrange discussions and meetings with other industry participants and network using the organiser in the app. And diverse contents and networking options are available in the app even months after the event, which will enable a successful follow-up to the trade fair.

Further advantages of the IDS app are among others:

- Interactive networking with integrated simple text chat
- Exhibitor search acc. to A-Z, country, hall, product group or product entries
- Detailed view with in-depth information and the exhibitors' products.
- Current information and livestream of the event programme (incl. search, event location, etc.)
- Exhibitors and event programme appointments are inserted into the calendar or address book of the device.
- Note sharing of exhibitor and event programme information
- Interactive hall plan for all halls with all stairs, entrances and exits
- Compilation of a personal favourites list within the exhibitor search and the event programme
- Personal favourites can be exported (to your e-mail client, messaging app, OneDrive, Dropbox, etc.)
- Information on arrival and departure as well as on accommodation in Cologne
- Integrated lead tracking in the trade fair app - data export of the contact data

### About IDS

IDS (International Dental Show) takes place in Cologne every two years and is organised by the GFDI Gesellschaft zur Förderung der Dental-Industrie mbH, the commercial enterprise of the Association of German Dental Manufacturers (VDDI), and is staged by Koelnmesse GmbH, Cologne.

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