IPS Style: more beautiful, easier and more comfortable

Ivoclar Vivadent launches a new metal-ceramic system Interview with Martin Frontull and Domenika Diesing, both product managers at Ivoclar Vivadent.

IPS Style is an advantage when applying them.

In spite of the new combination of crystals, the application and processing procedures of IPS Style has remained unchanged. The ceramic materials have been used as a standard product in dental labs for many years. Although metal-free ceramics of restorations are made of metal-ceramics, overall, the market figures show a stable global trend for this business segment. All this indicates that metal-ceramics continues to play a relevant role. And will go on to do so in the foreseeable future.

In spite of this, metal-ceramics has seen very little development over the past years. Digital framework manufacturing is increasingly becoming a standard in laboratory procedures, yet the manufacturers of existing metal-ceramic systems have never addressed in spite of having been around for 40 years. Examples in this respect are shrinkage and a handling procedure that often is less than straightforward. Another example is aesthetics - the number one criterion for dental lab work. IPS Style offers improvements in all these aspects. The basic idea behind IPS Style is to offer users as much freedom as possible in their work - and in their selection of framework materials.

Dental Tribune MEA/CAPPmea: What exactly do you mean by this?

Martin Frontull: IPS Style is compatible with all customary alloys in the indicated CTE range. It is even possible to apply IPS Style without bonding material if a base metal alloy is used. This is an essential feature with regard to compatibility with frameworks that are manufactured using an analog or digital method. It goes without saying that we have also assessed the compatibility of IPS Style with our own alloys. The results have been positive.

Domenika Diesing: Although metal-ceramics has never been used in a dental ceramic before, this is a world first. Leucite and fluorapatite crystals have largely become established as integral constituents of metal-ceramics. IPS Style complements the known crystals with oxyapatite to create a new crystal architecture. This imparts the ceramic with tailor-made properties. Leucite controls the expansion and stability of the ceramic. Fluorapatite provides a natural inherent forgiveness, vitality and expression. Oxyapatite crystals fulfill a special function. They have a high capacity for reflecting incident light. This means that they reflect a high amount of light or, the other way round, they do not absorb light. This significantly contributes to the natural optical properties of the restoration and creates a depth effect.

IPS Style offers a solution for many limitations. They maintain their shade regardless of how many times they are fired. Optimized shrinkage behaviour and minimized rounding at the edges during firing are further essential aspects that give IPS Style in special edge. Users arrive at the desired result in a short time. The final contours can already be established during the layering procedure before the first firing process. The number of firings is reduced as the need for time-consuming layering procedures, required for corrective firings, is eliminated. The time that the user requires to complete the restoration is reduced accordingly.

Domenika Diesing: In spite of the new combination of crystals, the digital and materially processed materials have recently been at the focus of public attention. Ivoclar Vivadent is currently introducing a new metal-ceramic IPS Style. Editor-in-Chief Dan Kramer wanted to find out more about this material. He invited product managers Martin Frontull and Domenika Diesing to a talk with him.

Dental Tribune MEA/CAPPmea: Metal-ceramic materials have been around for more than 40 years. Digital processing and CAD/CAM are gaining momentum all over the world. Why do you launch another metal-ceramic now?

Domenika Diesing: Although the media and communication are dominated by the topic of CAD/CAM technologies, metal ceramic restorations - and therefore the conventional working method - are still part of the day-to-day work in the dental lab. Metal-ceramics still account for the lion’s share of fixed prosthetic systems. Worldwide, still more than 60% of restorations are made of metal-ceramics. Overall, the market figures show a stable global trend for this business segment. All this indicates that metal-ceramics continues to play a relevant role. And will go on to do so in the foreseeable future.

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application technique has generally remained the same. The ceramic is used as usual. The materials are easy to contour and offer excellent stability during application. The combination of oxyapatite and fluorapatite crystals, described by my colleague Frontull, you said above that IPS Style has been designed with the aim to afford users as much freedom as possible in their work. What do you mean by this? Martin Frontull: IPS Style does not impose restrictions on users in terms of their preferred working style - all in keeping with our motto “Make it your Style!” As mentioned above, the system comprises not only a multitude of materials but also specially designed components for single-layer and multi-layer techniques. This allows users to select those materials from the IPS Style range that match their personal preferences and the given indication. Everything is possible - from fast one-layer applications to highly esthetic layering methods.

Dental Tribune MEA/CAPPmea: What were the special challenges in the development of the new ceramic? Martin Frontull: The market generally expects to be supplied with innovations, but not with metal-ceramics. We therefore had to develop a new product that was so well designed that it would convince users of its superiority straight away when they first see it. Achieving this objective was a challenge. Another task was related to materials science: The effects of the individual constituents of a material cannot always be reliably predicted from the beginning. We had to solve this aspect by carefully approaching an optimum balance. We also had to take into account that the targeted improvement of one property may result in the deterioration of another. Our goal was to take advantage of the benefits of oxyapatite without sacrificing the proven properties of leucite and fluorapatite. In addition, the new metal ceramic should allow low fusing temperatures while exhibiting the top-of-the-range properties of high sintered ceramics. And one more thing: The ceramic had to fit into our existing ceramic concept. In sum, we faced quite a few challenges.

Dental Tribune MEA/CAPPmea: For what is IPS Style particularly suitable? Martin Frontull: IPS Style is suitable for any metal-ceramic restoration, ranging from single crowns to triple-unit bridges, veneers and restorations involving gingival parts. The system encompasses both IPS Style Ceram for the conventional multi-layer technique and IPS Style Ceram One for the one-layer technique. IPS Style Ceram One is particularly suitable for areas where esthetics plays an especially significant role such as in the anterior region. In the posterior region, IPS Style Ceram One is ideally used. IPS Style can be perfectly matched with restorations made of IPS e.max because the ceramic blends with the overall oral surroundings functionally and esthetically without any difficulty. As a consequence, complex clinical cases can be solved to the complete satisfaction of both the operator and patient.

Dental Tribune MEA/CAPPmea: What do technicians need to know before they use IPS Style for the first time? Martin Frontull: IPS Style is an entirely new material and cannot be compared with existing products. However, the application procedure is the...
same as before. IPS Style can be pro-
cessed in the customary procedure.
The matching powder opaquers, IPS Style Ceram Powder Opaquer, is easy
to apply and reliably masks alloy frameworks in a single thin coating.
The risk for errors is therefore mini-
mized and special training is not re-
quired. The product is easy to handle
and this is true for both the laying
materials and opaquer. IPS Style can be
described best in the following words: more beautiful, easier and more
comfortable.

Dental Tribune MEA/CAPPmea: Who
is the new metal-ceramic designed for?
Domenica Dising: For everybody,
from beginner to experienced user.
It is equally suitable for those who
use an elaborate conventional lay-
ering technique and for those who
prefer a straightforward streamlined
method to fabricate restorations.
Because of these criteria, IPS Style is
suited for all laboratories, small or
large. It does not matter whether a
laboratory predominantly manu-
factures metal- or all-ceramic resto-
rances. IPS Style meets the needs of
both types of labs. Being compatible
with the IPS Style range, IPS Ivocolor,
the new stains and glaze assortment from Ivoclar Vivadent, bridges the
gap between these ceramics.

Dental Tribune MEA/CAPPmea: What
do you mean by this? Can you give us
more information about IPS Ivocolor?
Martin Frontull: IPS Ivocolor is a universal assortment of glasses and
stains that comprises an innovative portfolio of shades.

What is special about Ivocolor is the
fact that it can be used in conjunc-
tion with all fired IPS ceramics from Ivoclar Vivadent and with the zirco-
nium oxide materials from Wieland
Dental, e.g. Zenostar. This means that
IPS Ivocolor also provides a fabulous
option for all-ceramic restorations,
e.g. IPS e.max.

In the lab, IPS Ivocolor can be used as
an overarching link between metal-
and all ceramic restorations. This not
only reduces the number of shades
that need to be kept in stock but also
considerably streamlines the fabrica-
tion of complex restorations.

Domenica Dising: The advantage is
that now a single system can be used
for the entire gamut of ceramic ma-
terials. The aim of providing a range
that is manageable and economical
has been greatly achieved with this
system. It offers users a great deal of
flexibility from staining and glazing
to mixing with ceramic materials.

Dental Tribune MEA/CAPPmea: What
initial feedback have you received
from the market? What conclusions
do you draw from this feedback?
Martin Frontull: We have received
very positive feedback from our
user tests so far. The initial feedback
described exactly those points that
mattered most to us. It confirmed
that IPS Style is easy to use, shows
low shrinkage and is stable when
layered. The esthetic properties have
been described as outstanding. There
is a great interest in this material.

Dental Tribune MEA/CAPPmea: Please
describe once again briefly the fea-
tures that make IPS Style so special.
Domenica Dising: IPS Style com-
bines productivity, product perfor-
mance and esthetics in a single
product. Fast, easy and faithful to nature. Users can fabricate the restorations
using the method that suits them
best in line with the given clinical
situation without having to make
compromises. IPS Style has been
designed to liberate dental techni-
cians from annoying restrictions -
in keeping with the product motto:
“Make it your style!”

Mr Frontull and Ms Dising, thank you
for this interview.

Successful Launch of the Dentsply Sirona
CAD/CAM Disc Line

By Dentsply Sirona

Intelligent CAD/CAM solutions from a single source – Dentsply
Sirona CAD/CAM now offers not
only the hardware and software for
single-source restorations, but the
materials as well. The most recent
confirmation of this comes from the
successful launch of the disc line for
the 5-axis inLab MC X5 production

unit. From conventional-sintered zir-
conium oxide to pre-shaded translu-
cent zirconium oxide to transparent
PMMA plastic for surgical guides, the
range of materials ensures high qual-
ity and safety for dental labs.

Benkheim/Salzburg, March 24th, 2016. Dental technicians and inLab
MC X5 users all over the world can
now use various discs in the stand-
ard format (Ø 98.5 mm) from Dent-
sply Sirona CAD/CAM. The disc line
includes the inCoris ZI disc, a con-
ventional zirconium oxide sintered
ceramic for producing frameworks
or more complex jobs, such as at-
tachments and connecting bars. The
inCoris Tic ZC disc is just right for
those who want pre-shaded, trans-
lucent zirconium oxide. The inCoris
PMMA guide gives labs a transparent
plastic disc for fast and cost ef-
fective in-house production of
surgical guides.

Thus, integrated implant plan-
ing with inlab software SW 15
requires neither a model nor a radi-
ographic template to pro-
duce guides. The
color coding for material classes on
the Dentsply Sirona CAD/CAM discs,
which is applied consistently to
tools, tool magazine and in the inLab
CAM software; ensures convenient,
safe processing of discs with the in-
Lab MC X5 laboratory unit.

With the standard format (Ø 98.5
mm), Dentsply Sirona CAD/CAM
discs can be used not only with the
inLab MC X5 production unit, but
with many other production units
that are open and suitable for the
disc format as well.

The inCoris PMMA guide, the inCoris
ZI and inCoris Tic ZC disc- the latter
in various heights and colors-
are available from specialized deal-
ers. Furthermore, additional discs are
being developed, such as the cobalt-
chromium sintered metal inCoris
torch. Visit: www.dentsplysirona.com
for more information about Dent-
sply Sirona and its products.

Dental Tribune Middle East & Africa Edition  |  2/2016
Mesa Dental Alloys: More than 40 Years’ Experience Directly at your Premises

The Italian dental alloys manufacturer is increasing its efforts for its longstanding commitment

By MESA

With over 40 years’ experience and located in Northern Italy, MESA manufactures more than 50 types of CoCr and NiCr based alloys (for PFM, partials/prostheses, crowns & bridges, soldering) and CoCr based discs and bars for CAD/CAM milling.

All products have undergone severe medical tests, comply with ISO standards (ISO 9001: 2008, ISO 13485:2012), are CE-marked and FDA-certified (Operator Number: 10044677).

MESA products are successfully used and distributed throughout the world in comply with the local necessary certifications and authorizations.

Now MESA is committed to work personally with its international partners and is organizing technical trainings on-site. Held by the Senior Dental Technician Daniele Beccalossi with the assistance of dedicated MESA Sales Area Managers, the courses focus on all the main steps to properly use casting alloys in order to obtain the best Porcelain Fuse to Metal results.

Starting from different plaster and resin work solutions for the model preparation, covering all main steps of waxing build-up and pinning, comparing the most used casting methods, explaining the best metal finishing techniques and showing concretely how to proceed with the single steps of porcelain stratification (opaque, dentine, enamel, translucence and stains layers, glazing and finishing), the courses have been met with much success in China, Pakistan, India, Sri Lanka and Cambodia.

In particular the last training held in the Faculty of Dentistry at the International University of Phnom Penh in February 2016 gathered more than 30 participants from 15 different local laboratories.

Daniele Beccalossi praises a longstanding experience as Senior Dental Technician, trainer and demonstrator, having opened his own activity already in 1990 and cooperating as official lecturer for MATCHMAKER CERAMIC by SCHOTTLANDER (UK), GC DENTAL and NORITAKE porcelain (Japan). He has been working with MESA since 2013.

MESA training are not only focused on traditional PFM procedure: during the upcoming 11th edition of DTIM (DENTAL TECHNICIAN INTERNATIONAL MEETING), which will be held in Dubai next May, MESA staff will introduce its CAD CAM material, CoCr discs and bars.

Mesa has been producing Chrome Cobalt discs for CAD/CAM milling systems for over 10 years. During this period of time, CAD/CAM discs have been supplied in many different materials and shapes, meeting up the continuous changes of the market requirements. At present Mesa’s CAD/CAM discs are provided from 6mm up to 30mm height, with 90mm und 98,5mm diameter. Mesa also produces discs on customers’ specifications.

MESA Cobalt Chrome Bars for CAD/CAM processing instead have been specifically designed to the manufacturing of implant abutments. They are available in different Co-Cr based materials, sizes, diameters and lengths. Their specifically designed shape is intended to reduce the milling costs and material scraps typical of discs.
The main messages MESA wishes to communicate through these efforts is its longstanding commitment: the health of the dental technician and the patient.

MESA selects only the best available raw material on the market, carries out severe medical tests (bio-compatibility and corrosion resistance) and guarantees the total absence of any carcinogenic or toxic element in all of its products, in particular the absence of beryllium.

In fact, exposure to beryllium vapor or particles is associated with a number of diseases from contact dermatitis to chronic granulomatous lung disease, this last known as Chronic Beryllium Disease (CBD). Beryllium and some beryllium compounds in vapor and particulate form have been shown to be human carcinogens based on sufficient evidence of carcinogenicity from studies in humans.

Risks from exposure to beryllium result from casting, grinding, polishing and finishing procedures dental laboratory technicians has to be alert.

Reports of toxicity to re-containing alloys for dentist or patients are limited to a few cases of transient contact dermatitis, but in cases where re-containing dental prostheses are ground or polished in the dental office, we incur the same risk.

Over 40 years MESA has been working with passion and commitment, confident of the quality and reliability of its materials: the company is going to keep on following this path supporting its partners and customers in the years to come.

References
1. American Dental Association (ADA); ADA Positions Policies and Statements: Proper Use of Beryllium Containing-Alloys
2. Occupational Safety & Health Administration (OSHA); Beryllium and Chronic Beryllium Disease

A sneak peek into one of the largest shops for dental laboratories

By Marc Chalupsky, DT

DT&SHOP, one of the world’s main dental laboratory suppliers, is participating at IDEM Singapore 2016 with a 50 m² booth. Among the many highlights, the company demonstrates its CAD/CAM units and presents the new FINOCAM A5 milling machine for the first time. Dental Tribune Asia Pacific spoke with Eva Maria Roer, CEO of DT&SHOP.

The successful female entrepreneur studied economics in Germany and Canada and is recipient of the Order of Merit of the Federal Republic of Germany, among the country’s highest recognitions.

Dental Tribune: Ms Roer, you have had a long and successful career in dental technology. Why did you decide to work in this segment?

Eva Maria Roer: At first, I just wanted to enter a niche segment. Back in the 1970s, dental technology was not nearly as developed and a relatively small industry. There were no CAD/CAM systems, of course. Today, dental technology is one of the most important and innovative areas within dentistry. The segment has embraced digitalisation and used it for the benefit of the patient. The range of crowns, bridges, and partial and complete dentures available is enormous and diverse, as is evident in our shop’s portfolio. In 2003, we had 30,000 products and there are nearly 50,000 items today. The assortment is constantly changing, which means that customer service too has increased throughout the years. At the same time, cheap providers began competing with quality shops like DT&SHOP. However, we responded with courage, determination, perseverance, joy and creativity to achieve our current market position, of which I am most proud.

DT&SHOP is now among the world’s largest service providers and distributors of dental technology. What have been the most important international milestones since the company’s establishment in 1978?

In 1978, we established DT&SHOP with less than US$1,000. We introduced catalogues, then a revolutionary step in the distribution of dental technology. We also attached great importance to equality between women and men and to a high level of customer advisory services. We always intended to develop into a major shop and have pursued this plan without deviations. Internationally, the German-speaking region was initially important for us. In 1991, we introduced the shop in Switzerland and Austria. With the Maastricht Treaty and the founding of the European Union in 1993, we added France, the Netherlands, the UK and Denmark. Today, we export to about 100 countries, have our own subsidiaries and associates in 15 countries, and communicate in many languages. Our customer service is mainly provided from Germany.

In Asia, there are already quite a number of dealers in dental laboratory products. What distinguishes DT&SHOP from these companies?

Contact:
MESA DENTAL ALLOYS
Via del Melito 38, 37, 39
25039 Travagliato (Brescia), Italy
+39 030 686 3252
sales@mesaitalia.it
info@mesaitalia.it
www.mesaitalia.it

For over 40 years MESA has been selecting only the best available raw material on the market, carrying out severe medical tests (bio-compatibility and corrosion resistance) and guaranteeing the total absence of any carcinogenic or toxic element in all of its products, in particular the absence of beryllium.

In fact, exposure to beryllium vapor or particles is associated with a number of diseases from contact dermatitis to chronic granulomatous lung disease, this last known as Chronic Beryllium Disease (CBD). Beryllium and some beryllium compounds in vapor and particulate form have been shown to be human carcinogens based on sufficient evidence of carcinogenicity from studies in humans.

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References
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2. Occupational Safety & Health Administration (OSHA); Beryllium and Chronic Beryllium Disease
What services and products can you offer for this region?
Both nationally and internationally, we are a very proficient partner in dental technology. Dental laboratories need distributors that can offer the complete range of dental technology. This is difficult for smaller traders. We can support laboratories with our expertise and sales network. Our service is fast, our range attractively priced and our team consistently competent – with regard to our full assortment including our own brand FINO.

Our head office is in Germany, from where we run our global operations. Every one of our customers, no matter where in the world, experiences our commitment every day. Our employees are specialists and always advise on the latest CAD/CAM technologies and systems. With FINO Digital, we offer comprehensive CAD/CAM systems for laboratories.

Our logistics and shipping centre stands out too owing to its many advantages. All orders are processed promptly owing to an innovative enterprise resource planning system. We have the most comprehensive product range in the segment and offer a stock availability of over 95 per cent. Most orders are dispatched the same day and quickly reach our customers in Asia. Also, orders are packaged safely using environmentally friendly materials.

Moreover, I am proud of our customer service. Our employees are very competent and speak more than ten languages. We place significant importance on providing expert advice to our clients. Our customers in Asia Pacific value this service very much.

In which countries of the Asian region do you see particular growth potential for your products and services?
I first travelled to Asia in 1992 and have made several trips back to the continent since 1994. In China, there are import barriers, but the market is huge and remains very appealing. In alphabetical order, I consider Indonesia, Malaysia, Myanmar, the Philippines, Thailand and Vietnam to hold good business opportunities.

Thank you very much for the interview.

Experience new freedom in your lab processes breaking the chains of former dependencies with inLab and the new 5 axis milling and grinding unit inLab MC X5. Open for all restoration data, combining the largest material range and the possibility to machine both wet and dry disks and blocks – for no limitations to your production. Enjoy every day with Sirona.
Dental Technician Int’l Meeting 6-7 May 2016

Joint meeting with
11th CAD/CAM & Digital Dentistry Int’l Conference

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Mobile: +971 50 2793711
Telephone: +971 4 3616174
FAX: +971 4 3686883
E-mail: events@cappmea.com
www.cappmea.com/dtim

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