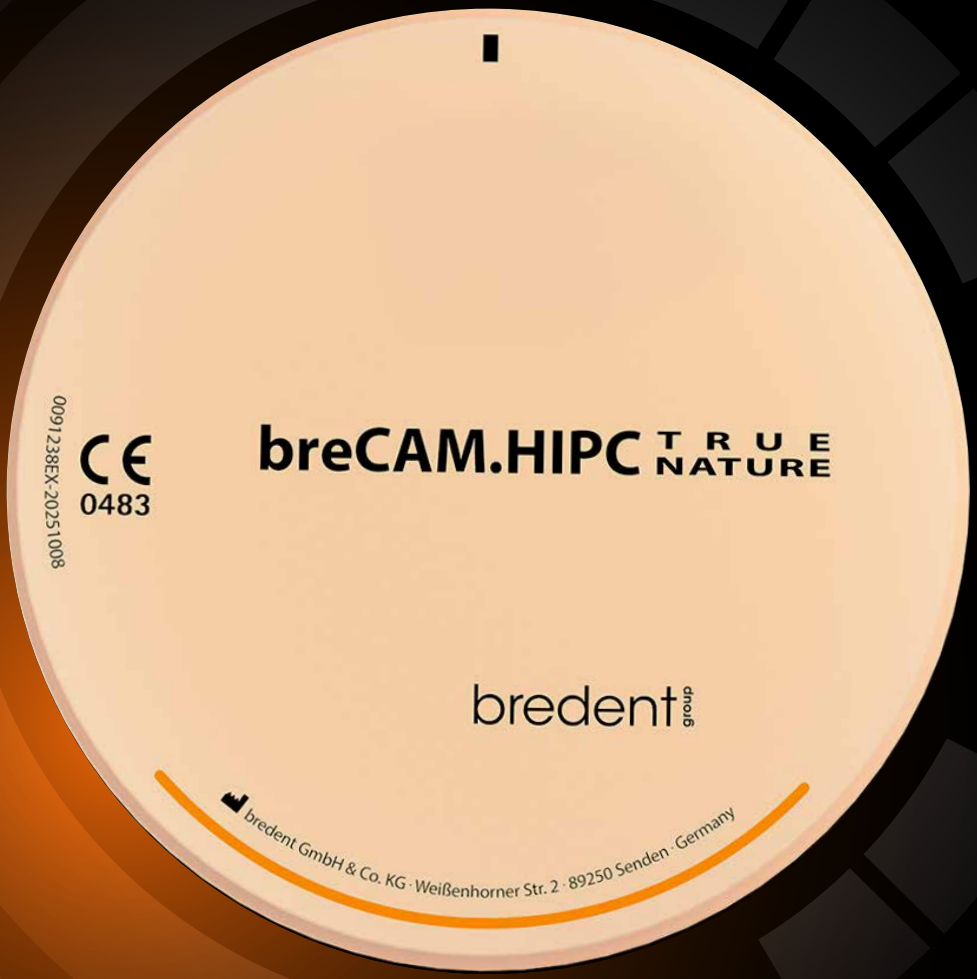
breCAM.HIPC TRUE NATURE

High-performance composite blank

Immaculate aesthetics · Perfect light reflection · Lasting elegance



bredent group

Exquisitely rendered light.



As pure as a pearl.
As timeless as a masterpiece.

Just as a pearl unfolds its natural effect through light and depth, breCAM.HIPC variants ensure authentic aesthetics in modern dental technology thanks to translucency and harmonious colour gradients.

With over 15 years of clinical experience behind it, the material stands for time-tested quality, safety and reliability in dental restoration.

breCAM.HIPC True Nature marks the start of a new chapter: The time-tested material's DNA has been further developed and modified - for even greater naturalness, aesthetic appeal and markedly improved mechanical properties.

Exceptional colouring.



breCAM.HIPC TRUE NATURE

The new high-performance polymer composite blank impresses with:

Impeccable aesthetics -
natural translucency and harmonious colour

Perfect light dynamics -
for a vibrant, authentic look

Durable elegance -
stable, long-lasting and beautifully designed

The restoration was finished by hand with a refined shape and surface and polished to completion.

Case study: MDT Tim Wittig · Waiblinger Dental-Labor GmbH · Germany

*Classification of polymeric materials**

PMMA-based resins:

Matrix structure without filler; indicated for temporary use only

Composite:

Organic polymer matrix with inorganic fillers
Example: breCAM.HIPC

High-fill composites (resin nano ceramics):

Greater hardness and brittleness; only approved for partial restorations
Example: LAVA Ultimate, Cerasmart DG, Shofu Block-HC, Brilliant Crios

Resin-infiltrated ceramics (hybrid ceramic):

Ceramic sponge, matrix infiltrated with resin
Example: VITA Enamic

PEEK (polyether ether ketone):

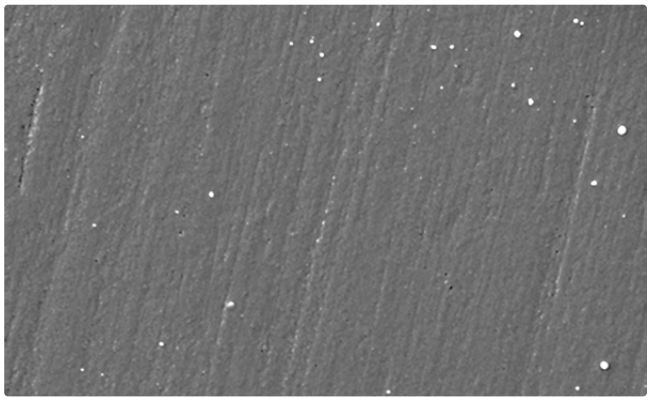
Used more as a framework material or abutment

* Table 1: Classification of polymeric materials (mod. according to Beuer et al. 2012)

Source: Johannes Alexander Bösch, Heinrich Heine University Düsseldorf, Dissertation, 2020.

Micro/nano-filled contains chemically dissolved mineral/ceramic particles

Our material is a high-impact polymer composite (HIPC) - a cross-linked, acrylic-based, macromolecular polymer blended with ceramic microfillers and multi-functional organic aliphatic acrylates.



breCAM.HIPC variants

Fig. 1

- Filler content: approx. 10% by weight (corresponds to approx. 30% by volume)
- Elastic material properties with optimum elongation and fracture resistance
- Vickers hardness: approx. 30 HV
- High abrasion resistance
- Excellent polishability
- Easy and safe to use
- Easily repairable (intra- and extraoral)
- Over 15 years of clinical experience

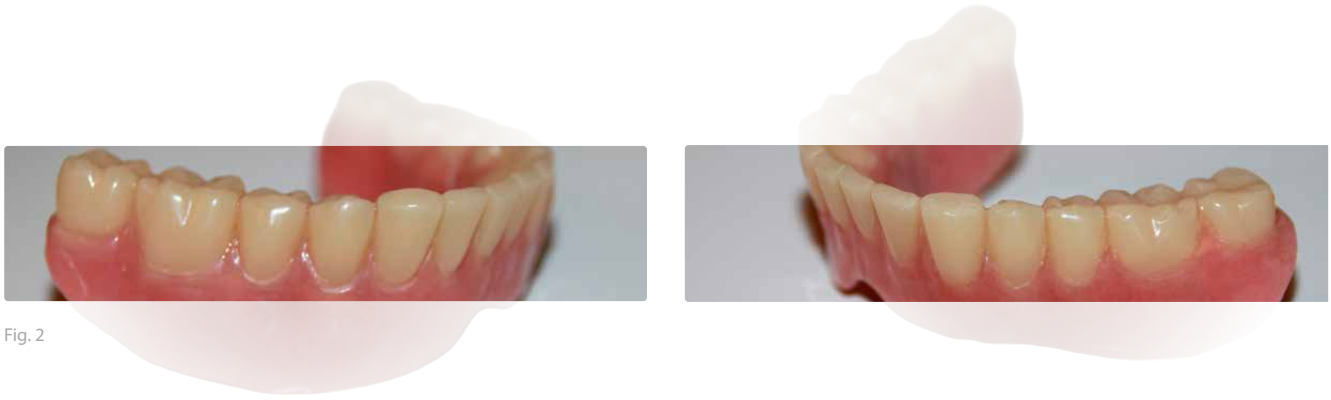


Fig. 2

This image contains an implant-supported prosthesis in very good condition after 13 years of functional stress. The teeth show only minimal traces of abrasion while the natural morphology remains clearly visible.

Fig. 1: Image from the research report "Ergebnisse werkstoffkundlicher Untersuchungen von unterschiedlichen Verblendkunststoffen [...]",
©, ["Results of materials-science testing of different veneering resins"] dated 7 May 2012 by A. Rzanny and R. Göbel, Jena University Hospital, Germany
Fig. 2 Implant-supported prosthesis after 13 years of functional stress
Case: M.Sc.IDT Sergej Deutsch · German Dental Design · Germany.

breCAM.HIPC TRUE NATURE

Timeless aesthetics rooted in contemporary materials expertise.

Indications

- Veneers, inlays, onlays
- Anatomically reduced, occlusally screwed, monolithic crowns and bridges*
  with max. 2 bridge links or a span of 22 mm
  (e.g. for the SKY fast & fixed workflow, bars, thimble crowns/Toronto bridges)
- Prosthetic teeth
- splints

Wearing time

For temporary and permanent use

Mechanical properties

Flexural strength	≥ 110 MPa (incisal) ≥ 130 MPa (cervical)
Elasticity modulus	≥ 3,500 MPa (incisal) ≥ 3,000 MPa (cervical)
Elongation at fracture	≥ 7% (incisal) ≥ 10% (cervical)
Breaking load for 3-link bridge (16 mm² connector)	≥ 1,200 N

Current colours & heights via QR code

* In the case of crown abutments on adhesive bases, the titanium chimney or an individual abutment must provide adequate support (approx. 75% of the crown height). For large-span bridges, it is always recommended to use a superstructure made of a framework material.

breCAM.HIPC True Nature transforms time-tested functionality into true brilliance.



Natural aesthetics with excellent polishability.

The restoration was finished by hand with a refined shape and surface and polished to completion.

Case: MDT Tim Wittig · Waiblinger Dental-Labor GmbH · Germany





Fig. 3

Fig. 3 - 5: Restoration based on breCAM.HIPC True Nature A2 · Individualised with visio.lign color and visio.lign shield · The gingiva is layered with crea.lign and colour-coded with visio.lign color.
Case: DT Evghenii Cazmirovici · Moldova

breCAM.HIPC True Nature - naturalness at the next level.



Fig. 4



Fig. 5



















For crown abutments on adhesive bases, the titanium chimney or an individual abutment must provide adequate support (approx. 75% of the crown height). For large-span bridges, it is always recommended to use a superstructure made of framework material.

breCAM.HIPC True Nature stands for flexibility, a wide range of applications and reliable results.











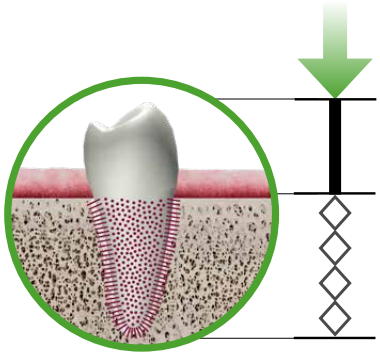






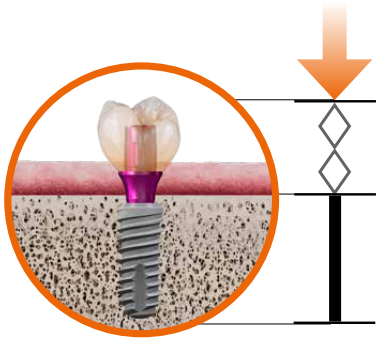
Biomechanically matched materials to protect the tooth and implant.

Natural teeth



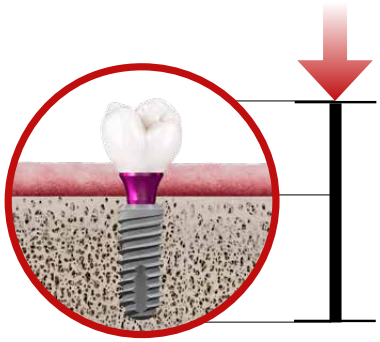
The periodontium provides natural shock absorption.

Implant with crown made of breCAM.HIPC True Nature



The shock absorption reduces force transmission to the implant and the surrounding bone.

Implant with zirconium oxide crown



Direct force transmission increases the stress on the bone, accelerating bone degradation and implant loss.

In modern dentistry, the focus is on the tooth, not the material. Every restoration starts with the tooth's specific history: stress, environment and previous restoration. Only those who consider tooth, restoration and counter tooth as a functional unit can successfully treat them for the long term.

Our goal: Permanent tooth and implant preservation with minimal intervention and maximum consideration for the existing tooth condition. No material, however excellent, retains its worth if it disturbs the natural balance. This is why we champion solutions that are repairable and minimally invasive, embodying precision, sustainability and respect for what nature provides.

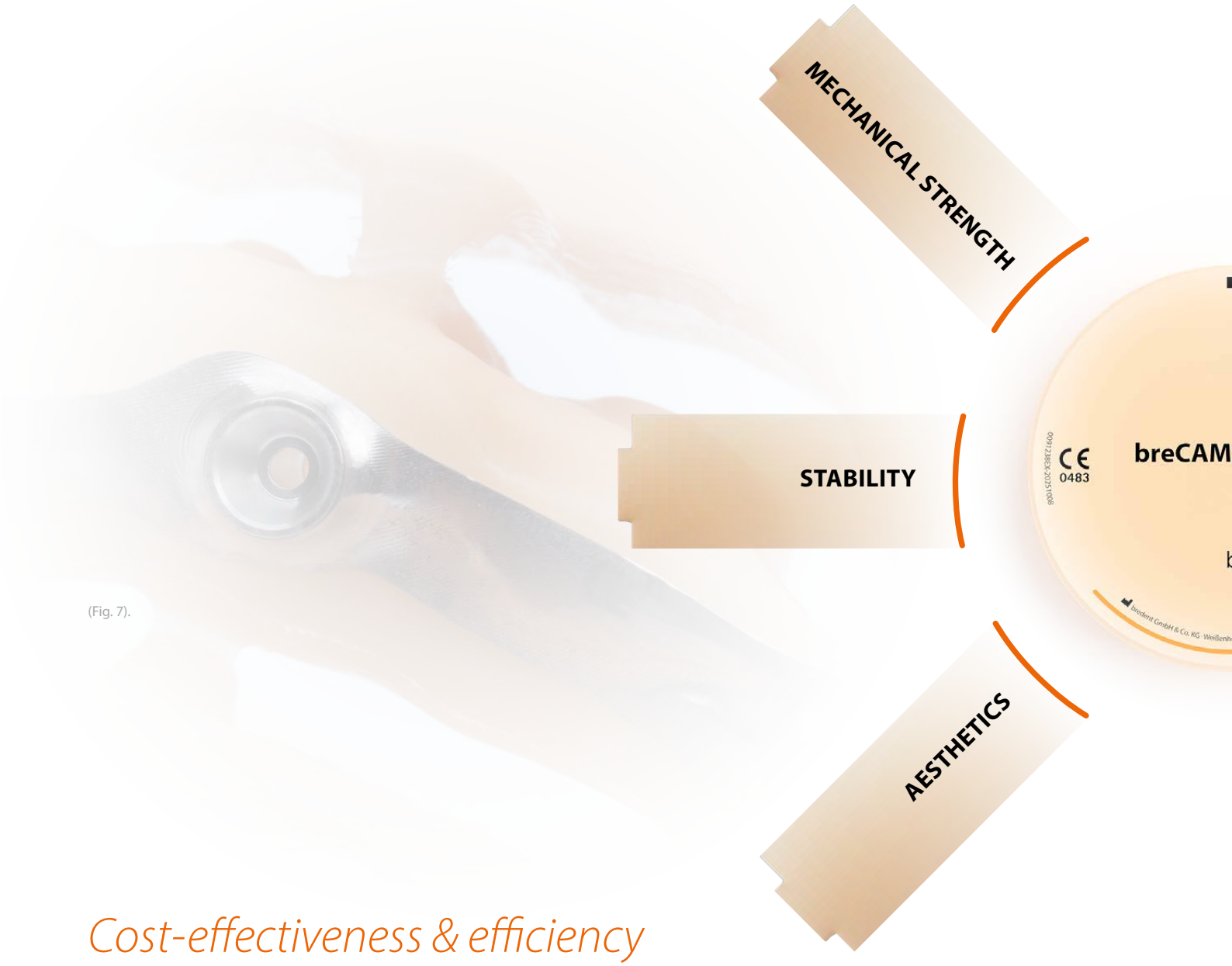
Unlike rigid zirconium oxide, breCAM.HIPC materials act as a shock absorber and reduce force transmission to implants and the surrounding bone - ideal for implant-supported cases. The fracture strength of 3-link bridges made of breCAM.HIPC materials is similar to that of highly translucent (fully anatomical) 5Y-stabilised zirconium oxide after ageing and caustic simulation.

Aesthetic, functional,
***durable**.*



breCAM.HIPC True Nature unites all requirements of modern dental technology.

Implant-supported bar attachment made of titanium · teeth/base made of breCAM.HIPC True Nature · manually finished with a refined shape and surface ·high-gloss polish applied ·gingiva layered with crea.lign · given a unique colour character with visio.lign color
Case: DT Christian Dalla Libera · Padua · Italy



(Fig. 7).

Cost-effectiveness & efficiency

Achieve more with less.

- Fast, reliable results for a smooth workflow in the lab.
- Little finishing work needed – ceramic fillers bring the restoration to life, lending it a natural, lifelike quality.
- Reduces laboratory expenses - fewer materials to manage and less stock to hold.
- Reproducible and reliable - consistent results in every application.
- Easy to machine with standard PMMA milling strategies - wet or dry - with significant time and cost savings compared to high-fill composite blanks.
- Excellent, fast intraoral and extraoral repairability, expandable and customisable - simple sandblasting, adhesive bonding with viso.link/Bonder and crea.lign/composite.

Fig. 7-8: Toronto Bridge (bottom view), milled in breCAM.True Nature, on titanium framework.
Case: MT Christian Dalla Libera · Padua · Italy

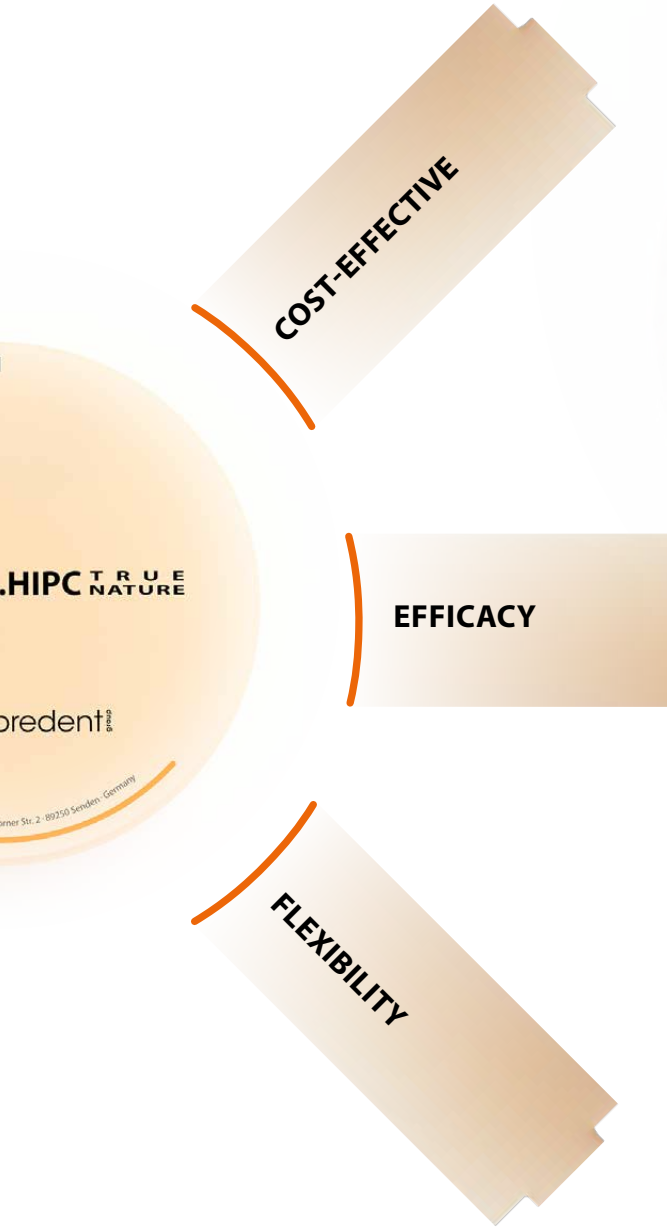


Fig. 8

Developed by dental technician for dental technicians

- designed for long-term success.



Fig. 9

Fig. 9: Toronto Bridge made from breCAM.BioHPP · teeth made from breCAM.HIPC True Nature · finished by hand with a refined shape and surface and polished to completion
Case: DT Evghenii Cazmirovici · Moldova

Perfection *in light, colour and workflow.*

Harmonious colour depth

- for true-to-life, aesthetically sophisticated restorations.

Perfect light effect thanks to opalescence and fluorescence

- for an authentic appearance with brilliant colour dynamics.

Wide range of applications

- maximum flexibility and reliability in daily laboratory work.

Efficient practice flow

- less finishing work, greater efficiency and noticeably reduced costs.

The differences between zirconia, breCAM.HIPC True Nature and natural tooth revealed under UV light left to right – become clearly apparent, particularly with regard to fluorescence properties.

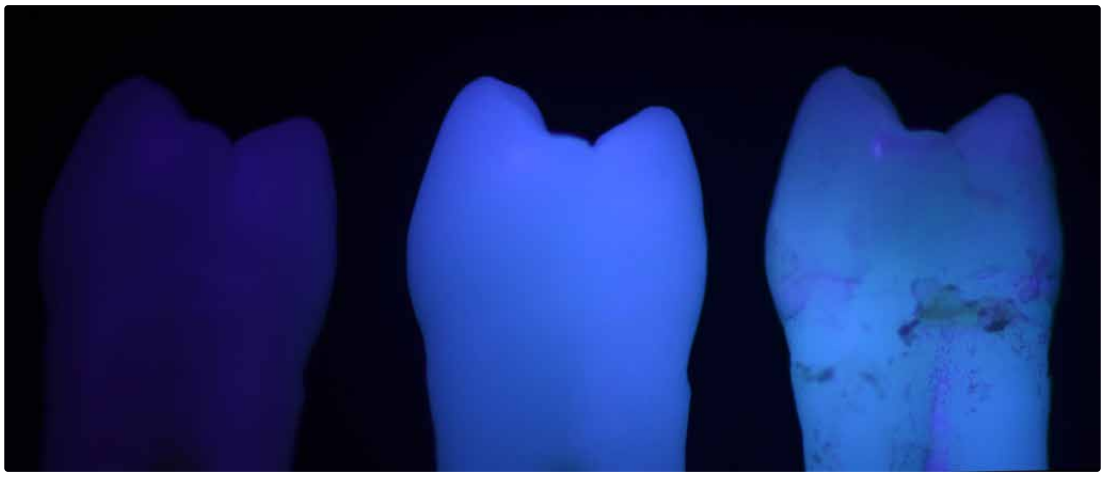


Fig. 10

Fig. 10: Comparison of zirconium, breCAM.HIPC True Nature and natural tooth under UV light

Case: DT Evghenii Cazmirovici · Moldova



Fig. 11



Fig. 12



Fig. 13

Fig. 11-13: Telescopic work with CoCr superstructure · teeth/base made of breCAM.HIPC True Nature ·stained to match · gingiva layered with composite
Case: MDT Manfred Pressinger · Pressinger Dental Solutions GmbH · Austria

Impressive quality
- testimonials from practitioners.



DT Christian Dalla Libera,

Padua, Italy

breCAM.HIPC has been a reliable partner for me in everyday laboratory work for over 15 years. I've never had problems with discolouration or plaque adhesion at any time over all those years. The surface remains stable and easy to polish and impresses with its durability, even during complex restorations. Compared to heavily filled composites, the milling time is significantly shorter. This not only saves time, but also reduces the effort required for finishing.

Whether wet or dry milled, breCAM.HIPC True Nature can be processed efficiently and easily with standard PMM strategies. Its universal use makes the material the ideal solution for a wide range of indications. Thanks to MDR certification, it is also ideal for fixed restorations and implant cases.

For me, one thing is certain: breCAM.HIPC True Nature meets all the requirements of modern dental technology on an aesthetic, functional and financial level while noticeably increasing efficiency in the laboratory.



MDT Josef Miller and DT Manuel Miller,

Miller & Schmuck Dental GmbH, Germany

What particularly impresses us is the consistent quality. Results are reproducible at all times - whether it is a single tooth or a complex restoration. This gives us peace of mind during our work and saves valuable time.

We initially make functional corrections with the provisional restoration. Based on the insights from this, the definitive restoration is created. This is precisely where reproducibility shows its strengths.

The work can be seamlessly integrated into our workflow.

For us, this means greater efficiency, fewer correction steps and a reliable result. A high-quality backup denture can be produced with minimal effort.



MDT Tim Wittig,

Waiblinger Dental-Labor GmbH, Germany

In our laboratory, we value functionality and aesthetics highly. breCAM.HIPC True Nature fulfils both requirements to an optimum degree. This material gives me the assurance of being able to provide my patients with a solution that is clinically safe and visually exceptional

The combination of natural colour gradation, high translucency and lasting material properties impresses on every level. It is a material that not only looks exceptional but also delivers value for money.

In a busy laboratory environment, reliability is paramount for me: breCAM. HIPC True Nature is a pleasure to work with and shows remarkable stability.



As timeless as
a masterpiece,
as natural as
a real tooth.

breCAM.HIPC TRUE NATURE

The restoration was finished by hand with a refined shape and surface and polished to completion.

Case: MDT Tim Wittig · Waiblinger Dental-Labor GmbH · Germany

Power through competence. Trendsetter. Partnership.

The bredent group is an **international family-run dental company** based in the Bavarian town of Senden, near Ulm. Since bredent was founded in **1974,** we have seen continuous growth and have developed and manufacture innovative, precisely matched products, system solutions and therapy concepts **made in Germany.**

As a second-generation family business, we are synonymous with innovations offering measurable benefits that promote oral health and thus contribute to improving the overall health of patients.

From our **site in Senden,** we sustainably unite dentistry and dental technology - from person to person. **Three specialised companies pool their expertise beneath the bredent group umbrella:**

- **bredent** - dental materials, systems and work processes
- **bredent medical** - implants, prosthetics and regeneration
- **Dental Concept Systems (DCS)** - precision mechanical engineering for digital and analogue manufacturing processes

bredent group

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SKY IMPLANT SYSTEM since 2003

The bredent group delivers solutions that enhance the success of your practice and laboratory for the long term.

HELBO and IFZI enable us to offer an end-to-end workflow, from advanced training and the laboratory to regeneration and implantology - **efficient, modern and future-proof.**

HELBO®
PHOTODYNAMIC THERAPY

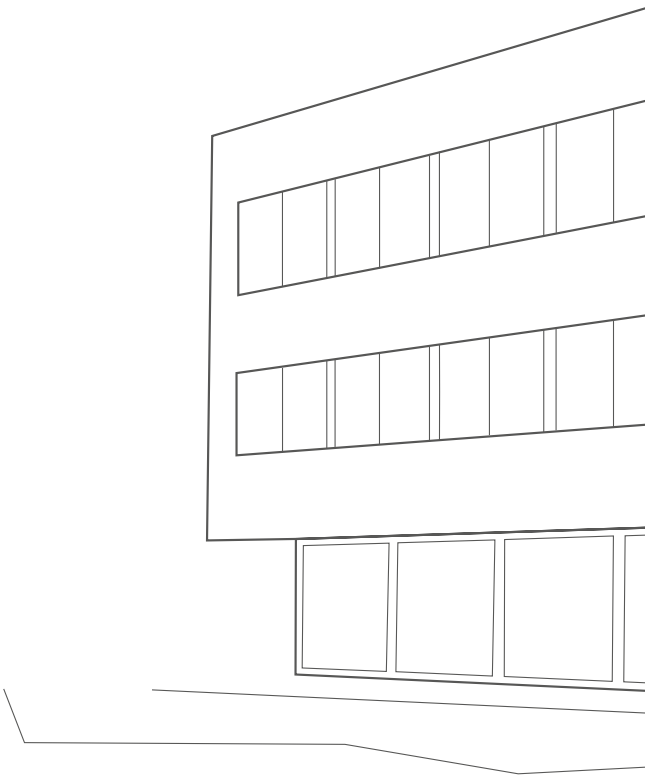
Gentle, safe biofilm and inflammation therapy to promote long-term treatment success.

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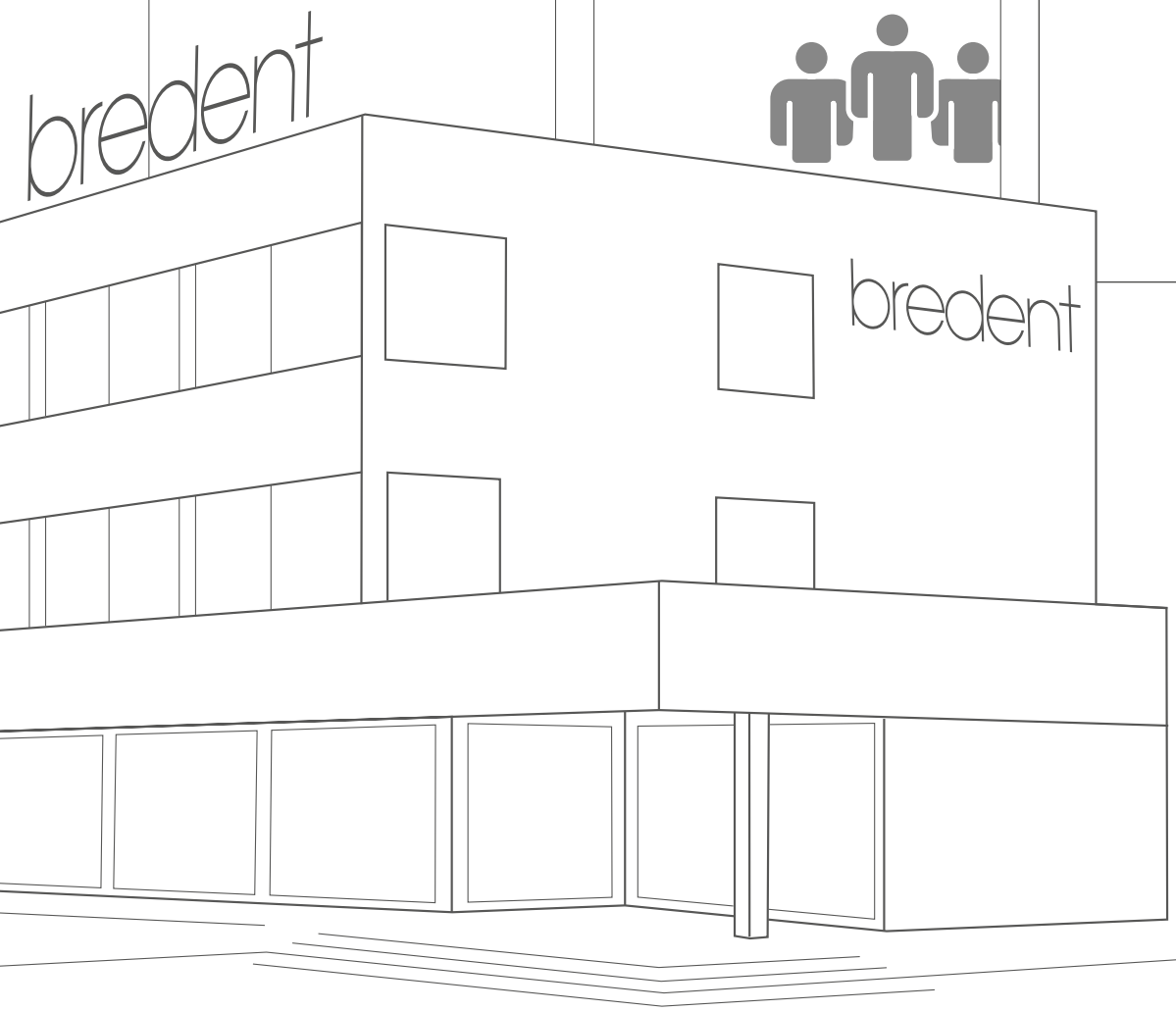
> 60%
Export share

13,000 m²
Production space

> 600
Employees worldwide

Global presence
Italy, UK, Spain, India, China, Hungary, Poland, Romania, Bulgaria, France, Benelux, Austria, Canada, Croatia, Slovenia, Czech Republic

Company headquarters
Senden near Ulm



Website
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As an **all-inclusive provider,**

implantology, dental technology, regenerative therapies, digital processes and integration of all components delivers clear advantages in terms of time and cost,

Implant therapies
Immediate and at long term restauration,
short and ultra short implants,
Tissue Level, Bone Level and sub crestal
placement, Bone Growth Concept

Application areas
single tooth,
Full-Arch, bridges

Regeneration
Antimicrobial photodynamic therapy (aPDT),
photobiomodulation (PBM), membranes and bone
substitute materials



Implant prosthetics
Digital and conventional,
zirconia and physiological prosthetics,
removable and fixed bridges,
bionic materials

Digital workflow
Implant planning software,
CAD/CAM software,
3D printing systems,
3D drilling template / stackable guide,
scanner with photogammometry,
CAD/CAM milling machines

Therapy concept
Double crown technology,
digital denture,
2-in-1 technology

Machines, devices, scanners & accessories
Intraoral and laboratory scanner,
facial scanner, milling machines,
light curing device, 3D printer,
sintering furnace, pressing and
injection moulding technology,
prosthetic screwdriver,
SQ measuring device, surgical motor

3D printing
Resins and
systems,
Insulation

Blanks
Polymers, composite,
zirconia, cobalt-chromium, titanium,
pre-milled abutments

Courses
IFZI, bredent
Hands-on digi

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helping practitioners to treat patients reliably and efficiently.



Work preparation
Model plastics, gypsum,
model systems

Modelling
Modelling wax,
wax auxiliary parts, casting
channels, insulation

Embedding & casting
Embedding materials, alloys, and
duplicating silicones and systems

Rotating instruments & tools
Diamond tools, carbide tools, polishing
tools, polishing pastes, milling technology,
CNC-milling machines-tools

Attachments, locking pins and screw connections
Rod attachments, ball attachments, bars,
latches, retaining elements

Ceramic processing
Zirconia structural ceramics,
Ceramic bonders, liquids, brushes

Solid teeth & tooth shells
High-performance polymer composite

Composites
Tooth colours and red-white aesthetics,
veneer composites

High-performance polymers
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and dental prosthetic resins

Bonding system
Primers, Bonders, Bonding composites

Finishing & Customisation
Sealants and colourants for polymers and composites

& training
group academy, Eisenhammer,
tal and analogue



360° DENTAL COMPETENCY

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