dima® Mill Material-Discs
Top quality for the best results.

Giving a hand to oral health.
As a dental company that cares about the sustainable success of dental technicians, we react to your needs. That’s why we will expand our range of dima Mill discs to include wax blanks, cobalt chrome and an expanded range of zirconium dioxide with many new colours and translucency options.

Best equipped all round.
Kulzer, as a company in the Mitsui Chemicals group, is an innovative and reliable partner for quality-conscious dental technicians and dentists. And we continuously develop our portfolio for their benefit.

Our dima Mill discs are based on years of experience in machine-based material processing. The outstanding material properties and our proven service record ensure superb, sustainable results.

Materials at a glance:

- dima Mill Zirconia 16+ shades:
  - dima Mill Zirconia HT: high-translucent zirconia in 16 tooth colour variants.
  - dima Mill Zirconia HTE: extra-high translucent zirconia, also in 16 tooth colour variants.

- dima Mill Zirconia ML: multi-layered, highly-translucent zirconia in five shades with four seamlessly integrated colour layers.

- dima Mill Zirconia Group shades:
  - dima Mill Zirconia HT: high-translucent zirconia in four colour variants.
  - dima Mill Zirconia ST: semi-translucent zirconia in three colour variants.

- dima Mill Wax: residue-free wax in three colours (green, blue and grey).

- dima Mill CoCr solid: hard metal discs for powerful mills.

- dima Mill Temp: PMMA acrylics in eight shades and clear.
Products that improve your efficiency.
New developments from Kulzer continue to set standards in the market. This also applies to dima Mill Zirconia ML. These innovative multilayer material discs made of highly translucent zirconia impress with a natural seamless shade gradient that reduces or eliminates finishing work completely.

Kulzer expanded the range of dima Mill discs even further, offering wax, an increased range of colours and translucency options for zirconia and cobalt chrome.

High material quality and the standard format \( \varnothing 98.5 \text{ mm} \) makes dima Mill disc blanks the ideal solution for CAD/CAM production in the laboratory.

Ideal for high-quality prosthetics.
Manufactured using the latest production processes, such as, for example, isostatic press processes, we offer materials that will inspire you in terms of dimensional stability, milling properties, accuracy of fit and indication variety but also in terms of aesthetics.

The benefits are close at hand.
- Proven materials of the best Kulzer quality
- A comprehensive selection of shades and translucency levels
- Standard dimension 98.5 mm with circumferential 10 mm step
- Available in heights of 10 mm to 25 mm
- Comprehensive system range for further processing, including HeraCeram ceramics and HeraCeram stain shades
- Additional solutions, including the cara Mill 2.5, 3.5, 3.5L, 3.5 Pro and 3.5L Pro milling machines, as well as the cara Mill Sinter furnace, cara Mill Vac eco+ extraction unit and comprehensive accessories, all from a single source
- Professional support and expert advice by a reliable, experienced partner

Get more information about the possibilities with dima on kulzer.com/dima
dima Mill Zirconia HT 16+ shades –
The perfect base for ceramic layering

The right match: in addition to our three proven group colors, we now offer the full range – the 16 dentine shades provide an excellent base for ceramic layering. Here’s why: if you start with a “standard” A3 VITA shade, it will take greater effort to replicate the more chromatic dentine core covered by lighter enamel. The A3 shade of dima Mill Zirconia HT, however, is more intense, which simplifies layering thanks to a good dentine base.

dima Mill Zirconia HT is suitable for the following restorations

- Custom-veneered individual crowns and bridges of up to 16 units
- Full anatomic, monolithic crowns for the posterior region (for monolithic anteriors with simple glazing dima Mill Zirconia HTE is recommended)
- Partial crowns, e.g. inlays and onlays
- Telescopic and tapered crowns

Your art makes it perfect

We always strive to make your job easier, but to also respect your talent as a dental technician and your skills, which is why our lines of zirconia disc blanks leave the final touches to you. These two lines offer the best choice for ceramic veneers and monolithic restorations.

But why so many shades? We want to provide technicians with the perfect canvass for their artwork, while also saving them some time and providing excellent value for money.

For dima Mill Zirconia HT, we selected 16 shades based on the more chromatic coloring of dentine. This provides you with the perfect dentine base for ceramic layering in a lighter shade – just like natural teeth. dima Mill Zirconia HTE provides an extra touch of translucency for brilliant aesthetics that seem to glow from within.

Both lines are available in 16 shades, one bleach and one white and in four different heights (10, 14, 18 and 25 mm) with a ∅ 98.5 mm format.

More colors to widen your artistic palette

We want to provide you with the perfect canvass for your artwork, while also saving time and providing excellent value for money.

With the perfect dentine base shades of dima Mill HT, you will need fewer layers to create highly aesthetic ceramic veneers with a contrasting dentine core. If you prefer to start with a lighter shade and extra-high translucence you will find dima Mill HTE a better choice – which is also a good choice for monolithic restorations with brilliant lighting effects.
dima Mill Zirconia HTE 16+ shades –
High Translucence Esthetic

The new “esthetic” line with cubic zirconia: 16 shades that offer high translucency for brilliant aesthetics, whether for glazed, veneered or monolithic restorations in the anterior and posterior areas. Developed based on Kulzer’s years of experience with ceramic veneers, this lighter, ultra-translucent material helps you create restorations with the aesthetics and internal brilliance of natural teeth.

dima Mill Zirconia HTE is suitable for the following restorations

- Custom-veneered individual crowns and bridges of up to 3 units
- Full anatomic, monolithic crowns and frames for the anterior and posterior regions
- Partial crowns, e.g. inlays and onlays
- Telescopic and tapered crowns
- Two-piece abutment

Individual applications with dima Mill Zirconia HT & HTE

HT  = After sintering, the zirconia is highly translucent
HTE = After sintering, the zirconia is highly translucent and especially aesthetic

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Monolithic restorations:
Also suitable as a cost-conscious solution for full-anatomic posteriors.

Fast & highly aesthetic:
The beauty of hand-crafted ceramic veneering with fewer layers.

Developed by dental technicians:
Experienced technicians from different areas supported us throughout the entire development process.

Economical:
Reduces costs and processing time, also for highly aesthetic veneered crowns.

Aesthetic & extra translucent:
Beautiful glazed, monolithic and veneered restorations with natural translucence that mimics real teeth.

Reliable and easy to mill:
Highly compact and homogeneous material discs offer excellent edge stability, good millability and torsion-free sintering shrinkage.

Everything from one source:
HeraCeram Zirkonia 750 ceramics are perfectly suited for veneering dima Mill Zirconia materials.
Better results, less finishing work.
The multichrome structure of dima Mill Zirconia ML enables dental technicians achieve natural shading results which can be varied according to where the restoration is positioned within the disc. It is a real highlight offering key advantages in terms of processing and aesthetics.

Aesthetic
- Multilayer zirconia for maximum authenticity from the dentine core to the incisal edge
- Outstanding translucency and natural shade gradient
- 5 high translucent shades:
  - A light, A dark, B light, B dark, C light.
- Matched to HeraCeram ceramics and stain shades for the perfect finish

Efficient
- Improved aesthetics with less time and expense
- Flexible control of enables color spectrum e.g. from A1 – A3 (A light), A3 – A3.5 (A dark), B1 – B2 (B light), B3 – B3 (B dark) and C1 – C2 (C light) the shade gradient by height positioning during nesting, depending on height of disk.
- Enamelling in the posterior region is generally sufficient and in many cases additional colouring is no longer required
- High fitting accuracy and tool-friendly processing with high edge stability

Simple
- Crowns and bridges are nearly ready after sintering
- Homogeneous structural density for maximum and torsion-free control of sintering shrinkage
- Work results in reliable quality
- Obtain excellent results even without extensive customisation

Indications
- Individual crowns and bridges with up to 16 units
- Inlays, onlays and veneers
- Heights: 14 mm, 18 mm and 22 mm

Start video
kulzer.com/video-dima-ml
**dima Mill Zirconia ST & HT Group shades**

High reliability in terms of processes.

**Outstanding milling properties**
Zirconia is a material that has stood the test of time. *dima Mill Zirconia*, however, has the added benefit of meeting the high quality standards that Kulzer sets for its materials. *dima Mill Zirconia* offers outstanding milling, high edge stability and simple processing, along with the assurance that it will not damage your machine tools. The homogeneous structural density of the *dima Mill* discs ensure maximum control and zero torsion when sintering.

**dima Mill Zirconia ST – proven solution with natural optics**
*dima Mill Zirconia ST* (semitranslucent) has only slight translucency. The material is used when translucency is not desired or required for aesthetic reasons. It is available in shades white, A-intensive and B-light.

**dima Mill Zirconia HT – a beautiful and strong material**
*dima Mill Zirconia HT* (highly translucent) is your first choice for economical manufacturing of monolithic crown and bridge constructions, as well as optically demanding frameworks for ceramic veneering. The high translucency and specific shading provide for very natural results. The material is an outstanding alternative to non-precious metal crowns – for both the posterior and anterior regions. It is available right now in white, light, medium and intensive shades.

**Indications**
- Crowns and bridges up to 16 units
- Full anatomic, monolithic zirconia dioxide crowns and frameworks
- Primary components for telescopic and crowns
- Inlays, onlays and veneers
- Two-piece abutment
- 4 different heights: 10 mm to 25 mm
dima Mill Wax
Quick, accurate and replicable results

dima Mill Wax is a CAD/CAM milling wax suitable for all standard milling machines with $\varnothing$ 98.5 mm format, such as the cara Mill. These high-end wax blanks are easy to mill without lubrication and deliver clean, smooth-as-glass results – with no smearing or melting.

dima Mill Wax blanks ensure accurate and replicable results that save time when compared to manual design. The strong yet malleable wax offers precise results for casting and (over-) pressing*, and burns out without residue.

Three colour and hardness options (from extra hard to elastic) offer different advantages, such as stronger visual contrast (blue), or attributes tailored to specific applications such as partial dentures (green) or pressing (blue & grey).

Our wax blanks fulfil the special needs of dental technicians while meeting the technical requirements of the milling and subsequent casting process. dima Wax accelerates the design process for all kinds of restorations, from single crowns to large widespan bridges, as well as inlays, onlays or abutments, even partial dentures** and wax-ups.

**Advantages at a glance:**
- Excellent and easy millability
- Glass-smooth, smear-proof & bubble-free
- Burns out with no residue
- For casting and pressing/overpressing*
- Available in blue, green and grey and in three different heights depending on colour

**Suitable for following restorations:**
- Inlays, onlays, single crowns, multi-unit bridges of up to 16 units, abutments, partial dentures**, wax-ups, model castings

* Only dima Mill Wax blue and grey are recommended for pressing/overpressing.
** We recommend using green for partial dentures due to its elastic property.
dima Mill CoCr solid

Hard metal options for any milling machine.

Restorations to last a lifetime
Cobalt chrome (CoCr) is an extremely resistant and durable material covering a wide range of indications. The combination of hardness and elasticity means that dima Mill CoCr solid can reliably deliver excellent and precise milling results that last a lifetime. Even very thin and complex structures – such as bridges or abutments – are no problem.

Each disc is individually cast and quality controlled. The non-porous and homogeneous material allows for even milling and smooth results that help reduce the time needed for polishing. Labs benefit from reproducible results for all indications, such as crowns, telescopes and implant structures. The biocompatible (beryllium and nickel-free) discs are easy to mill in powerful lab mills capable of manufacturing solid metal discs. dima Mill CoCr solid is also suitable for laser melting and soldering. Furthermore, it saves you time thanks to minimal cleaning effort and no post-sintering – for direct output and precise results.

Top-quality CoCr restorations can be made by milling dima Mill CoCr solid in the cara Mill 3.5 and cara Mill 3.5Pro series, or comparable machines using the 98.5 mm format. After milling, Kulzer’s range of Signum and HeraCeram delivers perfect metal-ceramic bonding and veneering for exceptional aesthetics, top quality and satisfied patients.

Advantages at a glance:
■ Easy millability and processing
■ Homogeneous material structure
■ Save time due to reduced need for polishing and no post-sintering
■ Tested, excellent ceramic bonding and veneering, e.g. with Signum and HeraCeram
■ Consistent quality and extremely good mechanical properties (see Material properties)
■ Alloy type 4 for a wide range of indications

Suitable for following restorations:
■ Crowns and bridges with up to 16 units
■ Full anatomical or for veneering
■ Inlay/onlays
■ Primary/secondary telescopes
■ Attachments, abutments, bars, implant structures

Heights:
■ with shoulder: 12, 13.5, 15, 18 and 20 mm
■ without shoulder: 8, 10, 12, 13.5, 15, 18, 20 mm
With the highly cross-linked polymethyl methacrylate (PMMA) you can easily combine precise processing with outstanding material properties. Excellent milling behaviour, high stability and good polishing properties make dima Mill Temp a first-class choice for laboratory fabricated temporary restorations and splints. dima Mill Temp is available in eight shades: A1, A2, A3, A3.5, B2, B3, C2, D2, as well as transparent.

**Indications**
- Crowns and bridges for temporary restorations as well as for casting and press techniques
- Splints for therapeutic treatment and functional diagnostics as well as drilling templates
- Heights: 16 mm and 20 mm

**dima Mill Temp**

Economy is a question of the materials.
HeraCeram Stains
Impressive aesthetics with the staining technique. HeraCeram Stains universal and Stains universal powder are ready-to-use stains in paste or powder form for all ceramic lines from Kulzer that cover all indications for ceramic stains.

HeraCeram Zirkonia 750
HeraCeram Zirkonia 750 stands out with its unique and revolutionary adhesive, ultrafine particle size, highly extended gingival range, and increased shade selection. It has all the aesthetic and professional resources you need to recreate nature on all-ceramic frames.

For more information about our ceramics visit kulzer.com/heraceram

In-house milling solutions
With five different mill options from Kulzer – cara Mill 2.5, 3.5, 3.5 PRO and 3.5L, 3.5L PRO – labs of all sizes can benefit by keeping their manufacturing business in-house. Labs producing a small to medium amount of restorations with materials like zirconia, PMMA, wax or glass ceramics (excluding hard metals) will get the most benefit from cara Mill 2.5. Larger laboratories and labs with a broad material portfolio, however, might choose to procure a more powerful cara Mill 3.5, 3.5 PRO or 3.5L, 3.5L PRO (including a loader for up to 12 discs).

Further milling solutions:
cara Mill CAM 4 & 5: Manufacturer-independent CAM systems ranging from beginner to experienced professional editions
cara Mill Sinter: High-temperature furnace with short sinter cycles of up to 1,530°C (1,560°C optional).
cara Mill Vac eco+: high-performance and low-noise extraction unit

External milling support
cara Production Centre has you covered anytime you need additional production capacities for milling, Selective Laser Melting, Stereolithography, as well as a range of solutions for implant supported restorations or crown bridge prosthetics.

In times of high-production levels, during a transition phase or just as a back-up, clients can also turn to the cara Production Centre, where all the latest production techniques are used.

For more information about our digital products visit kulzer.com/cara
cara Print 4.0
Kulzer combined its longstanding materials expertise with deep knowledge of 3D printing to create dima Print materials together with the new 3D printer cara Print 4.0. The materials and 3D printing process are perfectly matched to ensure the best results for certain indications.

Get more information about the 3D-printer on kulzer.com/cara-print

cara Scan 4.0
Big in performance, small in dimensions, high in precision and low in price.

cara Scan 4.0 is an easy-to-use dual-axis model scanner. Inside there’s all you need.
- cara Scan 4.0 convinces with an excellent price-performance-ratio by combining high precision and a proprietary software with an exceptionally low price.
- The well-balanced workflow provides the working data for CAM-based inhouse manufacturing or, for example, for being sent to the cara Production Centre.
- Its software cara CAD is a completely open system that allows import and export of the most common data formats, like PLY, OBJ, STL.