ZX Unity

High-Performance Zirconia Blank

Seamless colour gradients · Natural translucency · Impressive strength

bredent group

One blank. Aesthetic. Uncompromisingly stable.

ZX Unity is the economical all-in-one solution for everything from single tooth to full-arch restorations.

Clear benefits. Strong arguments.

High stability (≥1,100 MPa)

Consistent stability and natural translucency **throughout the entire height of the blank,** thanks to high-performance ultra-fine 4Y zirconia powder.

Multi-gradient technology

Natural, seamless colour gradients and appealing aesthetics

Isostatically compacted

Deformation-free production with excellent edge stability

Highly precise fit and high process reliability

Reproducible, reliable and precise processing

Speed sintering times

Aesthetic restorations can be realised efficiently within a single day.

All-on-X Toronto bridge - implant-supported full-arch restoration using ZX Unity with cutback, minimal layering and natural gingival structure.

Case: ZTM, Bastian Wagner · Wagner Dental Design · Germany

Born out of close collaboration with experts worldwide, ZX Unity redefines the foundation of the zirconia family. Our new zirconia combines stability with natural-looking aesthetics. Results that inspire and give you the reliability you need in your day-to-day laboratory work.

Translucency	Up to 48% *
Material class	4Y-TZP
DIN EN ISO 6872	Class 5
Sinter density	≥ 6.0 g/cm³
Flexural strength	≥ 1,100 MPa

Minimum thicknesses

Circular: 0.6 mm
Occlusal surface/incisor edge: 0.6 mm

Connector cross-section

Front tooth region: 9 -12 mm²
Posterior region: 12 mm²

The all-in-one solution for your lab.

* Depending on tooth colour

Aesthetics. Engineered with efficiency in mind.

Minimise your storage costs. *The ZX Unity Blank covers all application areas. A smart solution, persuasive in its cost-effectiveness. One material, countless possibilities, full cost efficiency.*

Application areas

- Veneers, inlays & onlays
- Fully anatomical crowns/veneer crowns/cutbacks
- Fully anatomical bridges (max. 2 pontics)
- Occlusally screwed full contour restoration (all-on-X)
- Hybrid abutments
- Veneer bridge (up to max. 2 pontics)

*Available colours and heights**

Ø 98.4 mm

Colour:
A1, A2, A3, A3.5, A4,
B1, B2, B3,
C2, C3,
D2, D3,
BL1, BL3

Height:
16 mm,
20 mm,
25 mm

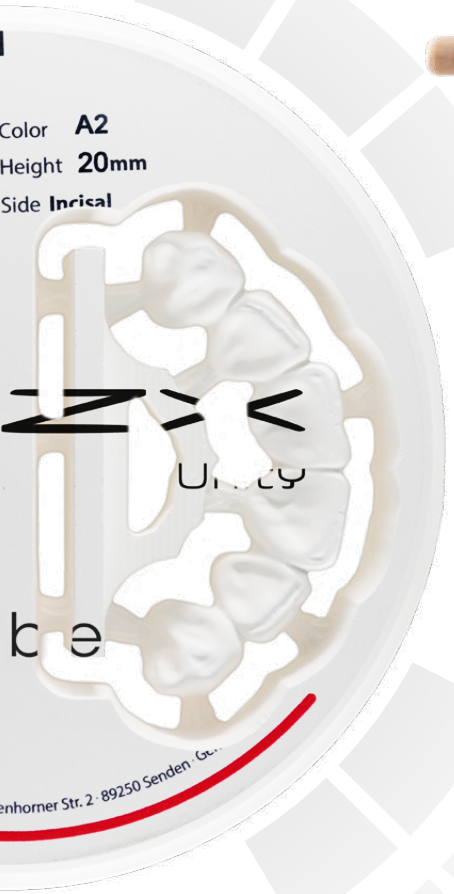
Always on the cutting edge.

Current colours & heights via QR code

Order form

* As of April 2026

The correct tools for impressive aesthetic results.



REF 33000844

Before sintering –
ZIRCONIA pre-tool kit.

The foundation for natural-looking aesthetics!

REF 33000843

After sintering –
ZIRCONIA tool kit.

The finishing touch for impressive results!

Sintering parameters

Normal

ZX Unity

CURVE 1 **≤ 3 UNITS** Normal Sintercurve

START Temp.	PHASE 1 Heating rate	PHASE 1 Maximum temp.	Holding time	PHASE 2 Heating rate	PHASE 2 Maximum temp.	Holding time	COOLING Rate	COOLING To	OPENING Temp.
20°C	**30°C/min**	**1050°C**	**0 min**	**5°C/min**	**1530°C**	**90 min**	**30°C**	**300°C**	**300°C**

CURVE 2 **≤ 6 UNITS** Normal Sintercurve

START Temp.	PHASE 1 Heating rate	PHASE 1 Maximum temp.	Holding time	PHASE 2 Heating rate	PHASE 2 Maximum temp.	Holding time	COOLING Rate	COOLING To	OPENING Temp.
20°C	**20°C/min**	**1050°C**	**0 min**	**5°C/min**	**1530°C**	**120 min**	**20°C**	**200°C**	**200°C**

CURVE 3 **> 6 UNITS / FULL ARCH** Normal Sintercurve

START Temp.	PHASE 1 Heating rate	PHASE 1 Maximum temp.	Holding time	PHASE 2 Heating rate	PHASE 2 Maximum temp.	Holding time	COOLING Rate	COOLING To	OPENING Temp.
20°C	**10°C/min**	**1050°C**	**0 min**	**3°C/min**	**1530°C**	**120 min**	**10°C**	**100°C**	**100°C**

Instructions for use via QR code

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Sintering parameters

Speed

ZX Unity

CURVE 1 **≤ 3 UNIT**S SPEED Sintercurve

START Temp.	PHASE 1 Heating rate	PHASE 1 Maximum temp.	Holding time	PHASE 2 Heating rate	PHASE 2 Maximum temp.	Holding time	PHASE 3 Heating rate	PHASE 3 Maximum temp.	Holding time	COOLING Rate	COOLING To	OPENING Temp.
20°C	**50°C/min**	**1050°C**	**0 min**	**5°C/min**	**1400°C**	**0 min**	**10°C/min**	**1550°C**	**30 min**	**60°C**	**300°C**	**300°C**

CURVE 2 **≤ 6 UNITS** SPEED Sintercurve

START Temp.	PHASE 1 Heating rate	PHASE 1 Maximum temp.	Holding time	PHASE 2 Heating rate	PHASE 2 Maximum temp.	Holding time	COOLING Rate	COOLING To	OPENING Temp.
20°C	**40°C/min**	**1050°C**	**0 min**	**5°C/min**	**1550°C**	**60 min**	**30°C**	**200°C**	**200°C**

CURVE 3 **> 6 UNITS / FULL ARCH** SPEED Sintercurve

START Temp.	PHASE 1 Heating rate	PHASE 1 Maximum temp.	Holding time	PHASE 2 Heating rate	PHASE 2 Maximum temp.	Holding time	COOLING Rate	COOLING To	OPENING Temp.
20°C	**30°C/min**	**1050°C**	**0 min**	**3°C/min**	**1530°C**	**90 min**	**15°C**	**100°C**	**100°C**

Instructions for use via QR code

A long cooling period is recommended!

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360° DENTAL COMPETENCY

https://ifu.bredent-group.com/

Simple download of instructions for use using a standard PC or mobile device and Adobe Acrobat Reader software. Free of charge at: https://get.adobe.com/reader/.
A printed version is available from the manufacturer within 7 days (in case of shipment to the EU).

Image material: bredent GmbH & Co. KG, partner laboratories and external users.

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