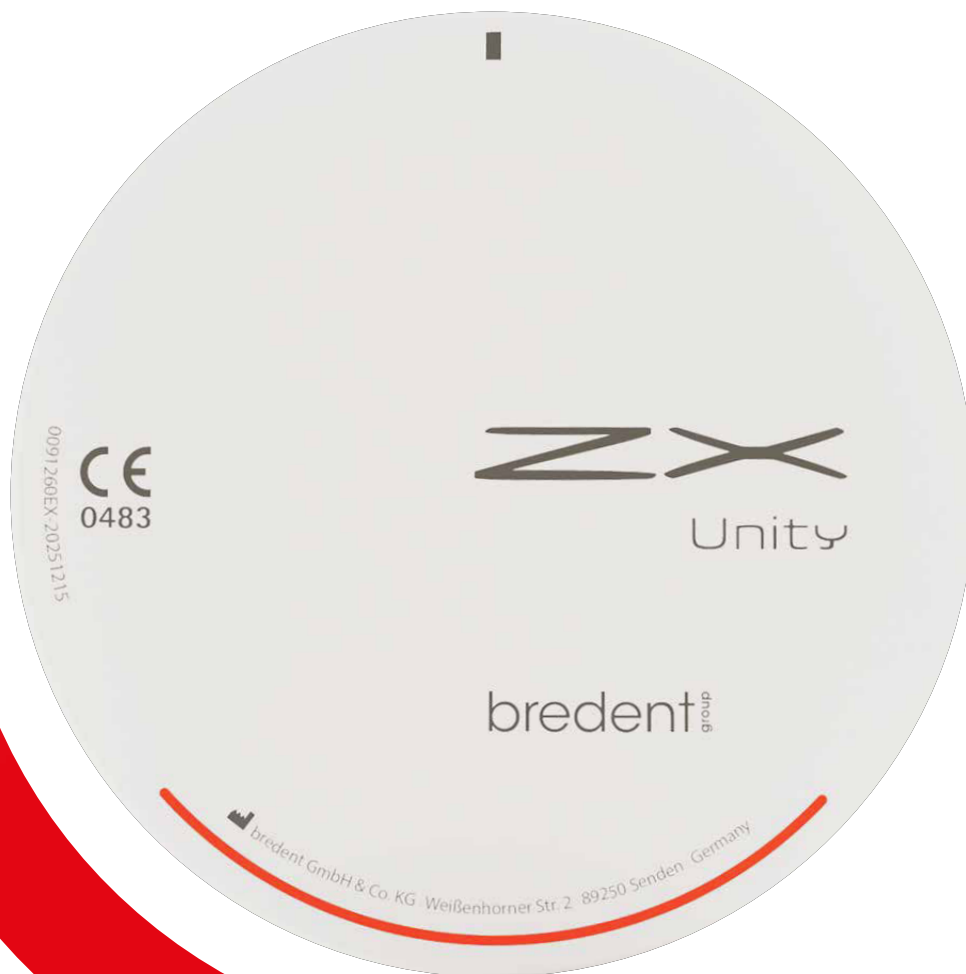




High-Performance Zirconia Blank

Seamless colour gradients · Natural translucency · Impressive strength





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 ($\geq 1,100$ 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.





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	$\geq 6.0 \text{ g/cm}^3$
Flexural strength	$\geq 1,100 \text{ MPa}$

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

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



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*





Sintering parameters

Speed



CURVE 1 ≤ 3 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	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!



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).

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Subject to change or correction.



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 **DENTAL**
Concept Systems

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