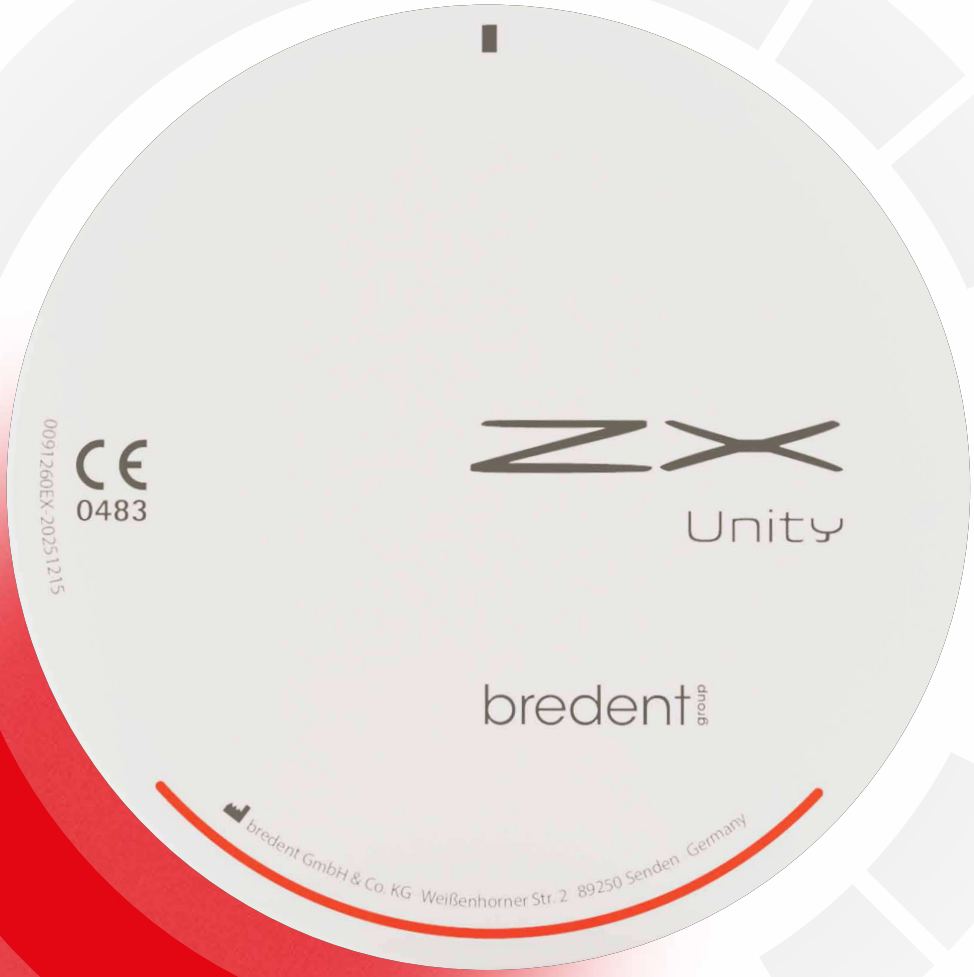
ZX Unity

High-Performance Zirconia Blank

Seamless colour gradients · Natural translucency · Impressive strength



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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 safety with no loss of translucency **over the full height of the blank** thanks to the 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

Highly aesthetic restorations can be conveniently produced within one 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 a vibrant aesthetic. 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 made economical.

Minimise your storage costs. *The ZX Unity blank covers the entire spectrum of indications. Smart in application, persuasive in its cost-effectiveness. One material, countless possibilities, full cost efficiency.*

Indications

- 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

True perfection needs the perfect tools.

REF 33000844

Before sintering –
ZIRCONIA pre-tool kit.

The foundation for
the very best aesthetics!

REF 33000843

After sintering –
ZIRCONIA tool kit.

The finishing touch
for perfection!

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

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

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

Case studies were provided by the respective users.

Subject to amendment or correction.

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