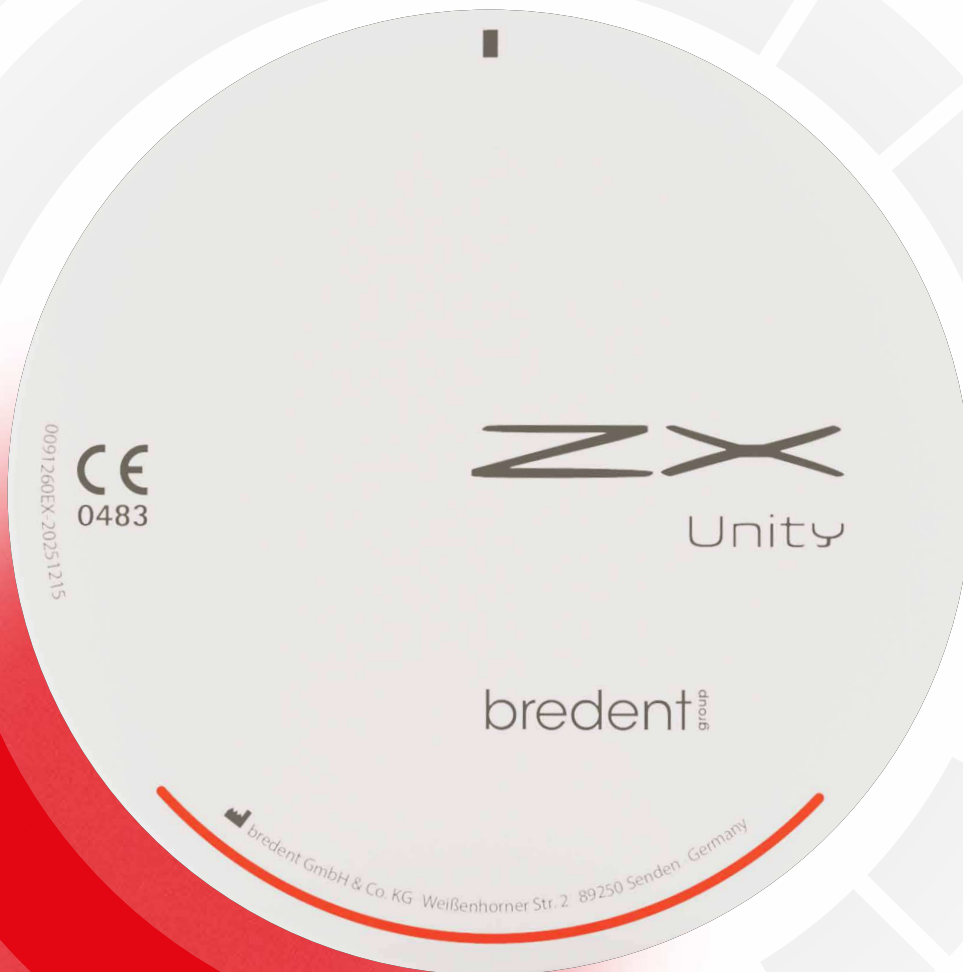




High-Performance Zirconia Blank

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 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

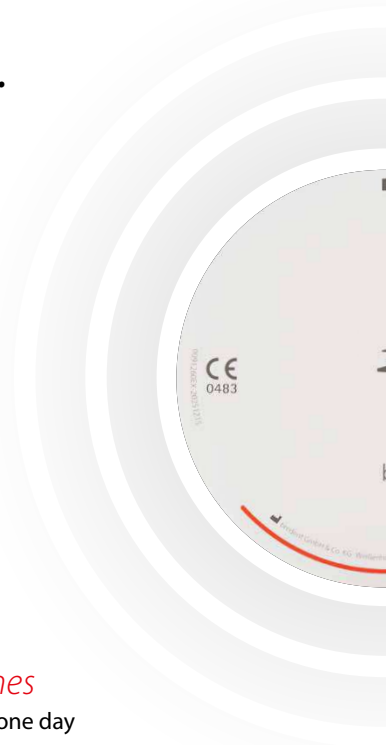
Deformation-free production with excellent edge stability

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





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	$\geq 6.0 \text{ g/cm}^3$
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 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:

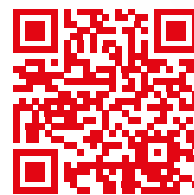
A1, A2, A3, A3.5, A4,
B1, B2, B3,
C2, C3,
D2, D3,
BL1, BL3

Height:

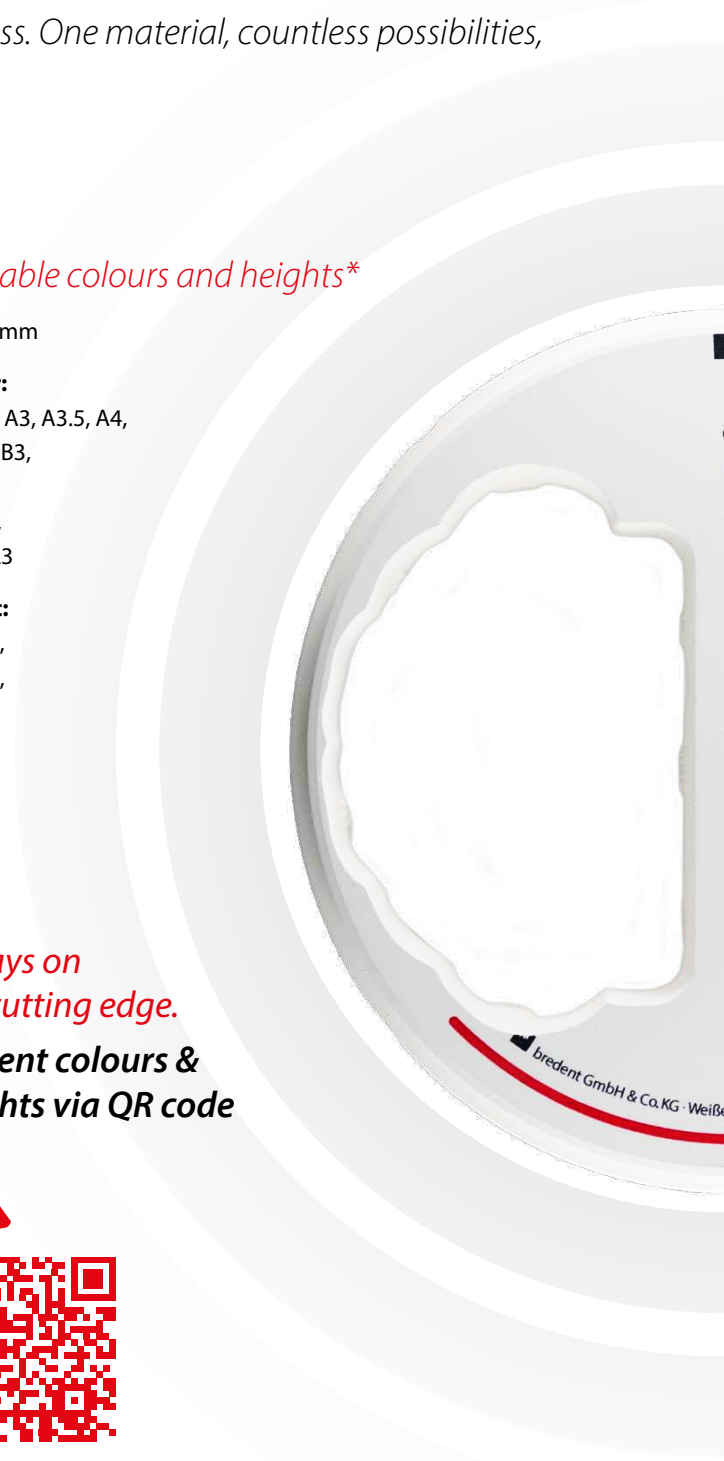
16 mm,
20 mm,
25 mm

*Always on
the cutting edge.*

**Current colours &
heights via QR code**

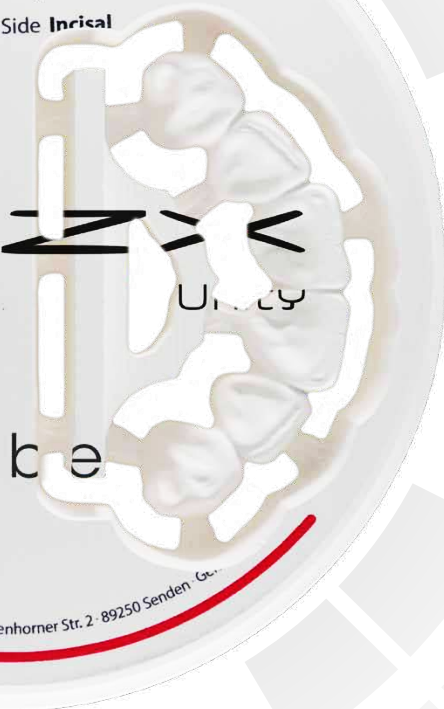


Order form



True perfection needs the perfect tools.

Color **A2**
Height **20mm**
Side **Incisal**



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



≤ 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
≤ 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
> 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.
20°C	50°C/min	1050°C	0 min	5°C/min	1400°C	0 min	10°C/min	1550°C
						Holding time	COOLING Rate	COOLING To
						30 min	60°C	300°C
								OPENING Temp.
								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
20°C	40°C/min	1050°C	0 min	5°C/min	1550°C	60 min	30°C	200°C
								OPENING Temp.
								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
20°C	30°C/min	1050°C	0 min	3°C/min	1530°C	90 min	15°C	100°C
								OPENING Temp.
								100°C

Instructions for use
via QR code



A long cooling period is recommended!



360° DENTAL COMPETENCY

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DENTAL
Concept Systems

bredent
group