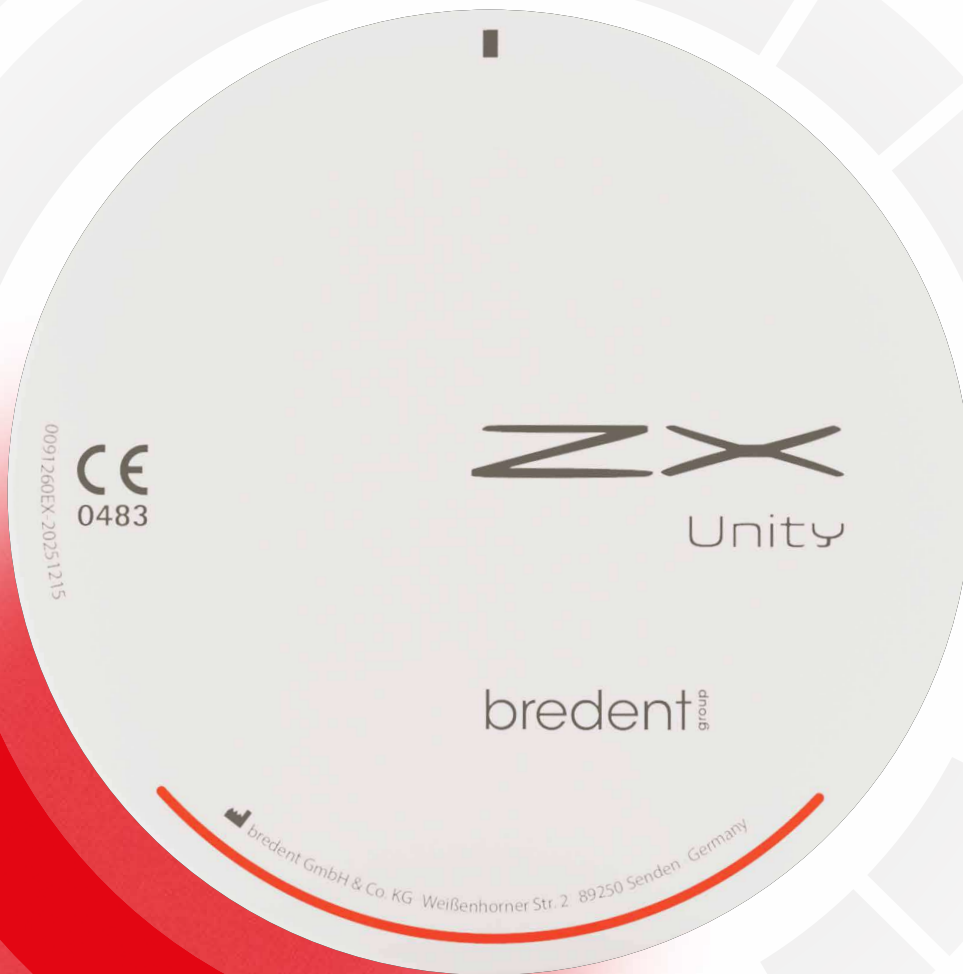




Unity

# 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.*

<b>Translucency</b>	Up to 48% *
<b>Material class</b>	4Y-TZP
<b>DIN EN ISO 6872</b>	Class 5
<b>Sinter density</b>	≥ 6.0 g/cm <sup>3</sup>
<b>Flexural strength</b>	≥ 1,100 MPa

#### *Minimum thicknesses*

*Circular: 0.6 mm*

*Occlusal surface/incisor edge: 0.6 mm*

#### *Connector cross-section*

*Front tooth region: 9-12 mm<sup>2</sup>*

*Posterior region: 12 mm<sup>2</sup>*

*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**

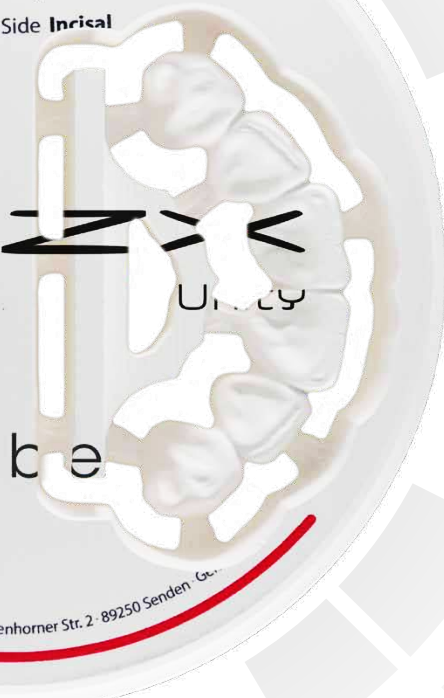


Order form



*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



### **CURVE 1** ≤ 3 UNITS Normal Sintercurve

START Temp.	20°C	PHASE 1 Heating rate	30°C/min	PHASE 1 Maximum temp.	1050°C	Holding time	0 min	PHASE 2 Heating rate	5°C/min	PHASE 2 Maximum temp.	1530°C	Holding time	90 min	COOLING Rate	30°C	COOLING To	300°C	OPENING Temp.	300°C
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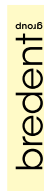
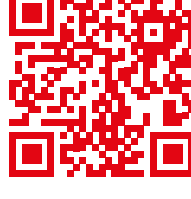
### **CURVE 2** ≤ 6 UNITS Normal Sintercurve

START Temp.	20°C	PHASE 1 Heating rate	20°C/min	PHASE 1 Maximum temp.	1050°C	Holding time	0 min	PHASE 2 Heating rate	5°C/min	PHASE 2 Maximum temp.	1530°C	Holding time	120 min	COOLING Rate	20°C	COOLING To	200°C	OPENING Temp.	200°C
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### **CURVE 3** > 6 UNITS / FULL ARCH Normal Sintercurve

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





# Sintering parameters

## Speed



<b>CURVE 1</b> ≤ 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

<b>CURVE 2</b> ≤ 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

<b>CURVE 3</b> > 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

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 **DENTAL**  
Concept Systems

 bredent  
group