



# BruxZir<sup>®</sup> *NOW*

Milling Blocks

*USER MANUAL*



## 1 Product Description

BruxZir® NOW Milling Blocks are pre-shaded, fully sintered zirconia CAD/CAM blocks used for manufacturing single-unit dental restorations with Glidewell Dental chairside milling systems. The milling blocks are available in multiple shades that correspond to the VITA® Classical shade system. Each BruxZir NOW block pack includes three blocks and three single-use milling burs.

The overall workflow for preparing a restoration using a BruxZir NOW milling block is shown below.



## 2 Technical Data Table

As measured according to ISO 6872: 2015

| Table 1   |                         |
|---|-------------------------|
| Classification - Type II, Class 5                 |                         |
| Coefficient of Thermal Expansion (CTE) (25-500°C) | 11 x 10 <sup>-6</sup> K |
| Average Flexural Strength                         | 1100 MPa                |
| Density   | 6.05 g/cm <sup>3</sup>  |

## 3 Scanning

Follow the manufacturer's instructions to scan the oral environment using your intraoral scanner.

When scanning is complete, press SEND to deliver the scan file to the FastDesign™ design software.

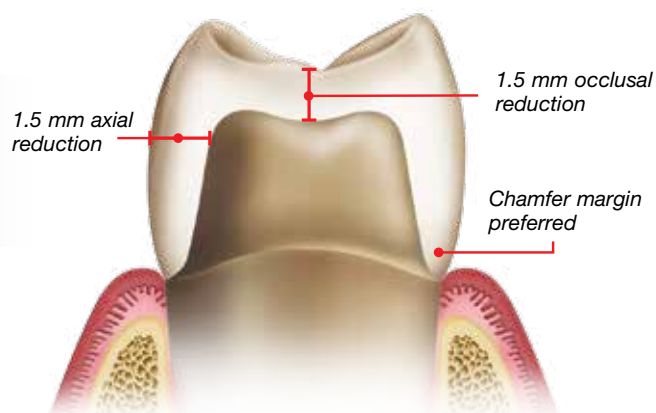
## 4 Designing the Restoration

*This illustration shows an ideal 1.5 mm reduction for a posterior BruxZir NOW crown with a chamfer margin. Maintaining a 1.5 mm thickness will allow you to safely adjust the crown if necessary when checking the occlusion.*

Failure to observe the wall thickness recommendations may result in fracture of the final restoration.

For detailed instructions on the design of the restoration please refer to the mill-specific FastDesign instructions for use.

- Do not add anti-rotation features to preparations. Anti-rotation features can cause failure in the milling of the restoration.
- Preparations must have drafted sides in order to make well-fitting restorations.
- Smooth surface preparations will result in faster milling and better fitting restorations.



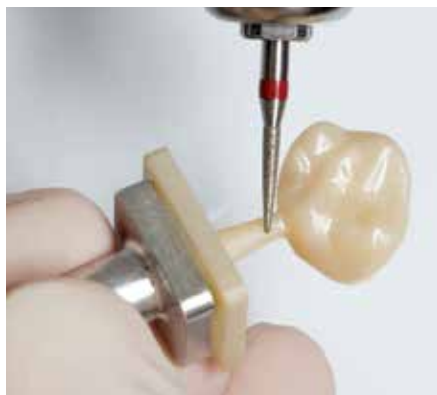
- 1.5 mm ideal reduction
- Chamfer or shoulder margins preferred.
- All axial walls must be convergent.
- Smooth and round internal angles.
- Preparation should be cut in three planes.

## 5 Milling the Restoration

Please use your mill's instructions for use, guide or user manual for specific milling instructions.

## 6 Finishing

**NOTE:** Surface polishing is optional, but if performed should be done as follows:



### Step 1: Remove restoration from the block

Use a fine-diamond bur at high speed to remove a crown without the sprue reduction. With the sprue reduction, snap the crown off at the 1 mm reduced neck.



### Step 2: Smooth out the sprue

Use fine-diamond bur at high speed.



### Step 3: Surface polishing

Use diamond polishing paste (fine) and a standard stiff-bristle brush to polish the surface.

## 7 Stain and Glaze

**NOTE:** These steps are optional and may be done as desired. BruxZir NOW Milling Blocks are individually designed to match the body of the indicated VITA shade. Since the blocks are monochromatic (one color), staining may be performed to match specific prescriptions or to achieve a gingival-to-incisal blend of color.

Follow the manufacturer's directions for using stain or glaze.

**NOTE:** Only low-fusing glaze may be used.

## 8 Cementation

There is no bonding required for BruxZir NOW crowns, although it may be done if preferred. The dental professional may use industry-approved materials and protocols to cement zirconia restorations.

Refer to the user manuals of those specific zirconia restoration cementing products for more details.

## 9 Questions/Comments

For questions and/or comments, please contact Glidewell Direct in the U.S. at 18551 Von Karman Ave., Irvine, CA 92612 or by calling 888-303-3975.

## 10 Frequently Asked Questions

### 1. What are the Indications for Use for BruxZir NOW?

- BruxZir NOW is indicated for use by dental technicians in the construction of custom-made all-ceramic restorations for anterior and posterior locations.

**Note:** With Glidewell Dental chairside milling systems, we recommend the use of this product for posterior restorations.

2. **What is the strength of BruxZir NOW?**
  - The average flexural strength is 1100 MPa.
3. **Is BruxZir NOW a multi-layered block?**
  - BruxZir NOW blocks are monochromatic; however, restorations can look polychromatic by using stain and glaze techniques (optional).
4. **How long does it take to mill a BruxZir NOW restoration?**
  - The milling time can vary based upon the unique design/size of the restoration and your milling system.
5. **How many blocks and burs are in each package?**
  - A package of BruxZir NOW Milling Blocks includes three blocks and three burs. Please note: These are single-use burs that are thrown away after each use.
6. **Are there special tools required for this block?**
  - Yes, you **MUST** use a brand-new BruxZir NOW bur with each block. The user cannot use any other type of bur to mill this material.
7. **Can I add porcelain onto the BruxZir NOW crown, to fix a light contact?**
  - Applying any type of add-on material to the crown is not recommended. BruxZir NOW is intended to be a monolithic restoration.
8. **Zirconia is strong enough for bridges, why can't I do bridges with BruxZir NOW?**
  - We have optimized BruxZir NOW for single-unit posterior crowns only.
9. **Who should I order my BruxZir NOW milling blocks from?**
  - You should order your BruxZir NOW milling blocks from Glidewell Direct or your mill distributor.
10. **Who should I call for milling-related technical support?**
  - Please contact your distributor or service technician.

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in the USA by



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