D/M series

In-house milling



ZI

Translucent zirconia

White zirconia for up to full-arch frameworks

EFFICIENCY

The processing time is reduced due to optimum edge stability and milling properties

STRENGTH

ZI is a durable material indicated for up to full-arch restorations

FLEXIBILITY

The broad range of individualization options gives maximum flexibility to dental professionals

straumann

Available shades

- ZI discs (for in-house milling) are available in white.

WHITE ZI DISCS (EACH ARTICLE CONTAINS 1 DISC)

Disc height	14 mm	16 mm	18 mm	20 mm	25 mm
Round Disc (98 mm)	760221-STM	760223-STM	760225-STM	760227-STM	760229-STM

Available indications

- For final restorations
- For up to full-arch

Recommended indication
Possible indication

TOOTH-BASED


Inlay


Onlay


Veneer


Partial crown


Coping


Full-contour crown


Telescopic crown


Bridge/bar framework


Full-contour bridge


Vestibular veneering

ABUTMENT-BASED (AVAILABLE WITHIN THE CARES® X-STREAM™ SOLUTION)


Coping on Ti-Base


Full-contour crown on Ti-Base


Bridge/bar framework on Ti-Base


Full-contour bridge on Ti-Base


Coping on CADCAM abutment


Full-contour crown on CADCAM abutment


Bridge/bar framework on CADCAM abutments


Full-contour bridge on CADCAM abutments

Workflow

STEPS	OPTIONS
Nesting	Position the restoration in the desired disc position
Milling	Dry milling with D and M series
Dying	*Recommendation: ceramill® Coloring Liquid for ZI*
Sintering	*Recommendation: Straumann® CARES® Therm*
Finishing	Polishing Staining & glazing Layering *Recommendation: ceramill® stain and glaze for all Zolid® zirconia*
Cementing	Adhesive Self-adhesive Conventional

Chemical composition

ELEMENTS	WEIGHT
$ZrO_2 + HfO_2 + Y_2O_3$	≥ 99.0 %
Y_2O_3	4.5 – 5.6 %
HfO_2	≤ 5 %
Al_2O_3	≤ 0.5 %
Other oxides	≤ 1 %

Physical properties

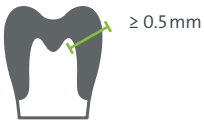
PROPERTIES	VALUE
Bending Strength (3-point) [MPa]	1200 ± 150
E-Module [GPa]	≥ 200
CTE (25 – 500°C) [$10^{-6}K^{-1}$]	10.4 ± 0.5

Preparation guidelines

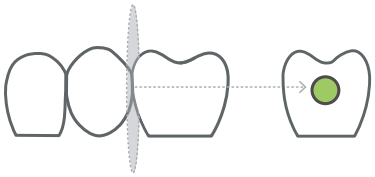
- The preparation shall not have angles or sharp edges
- The shoulder preparation shall be with rounded inner edges and/or chamfer
- The preparation shall have retentive surfaces for conventional cementation
- The cross-sections shall be adjusted in relation to the total size of the restoration
- The transition from a connector to a crown or coping shall be rounded

Wall thickness

MINIMAL RESTORATION DESIGN



Restoration wall thickness



Connector cross-section

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