M/D series

In-house milling

Sintron®

Cobalt-Chromium sinter metal

High-quality Cobalt-Chromium sinter metal for dry milling and veneered restorations up to full-arch

HANDLING
Sintron® can be dry milled due to its wax like texture ensuring optimum edge stability

FLEXIBILITY
The Cobalt-Chromium material is veneerable with any standard non-precious porcelain

STRENGTH
The high-quality ensures homogeneous, distortion-free restorations for up to full-arch frameworks

straumann

Available discs

SINTRON® DISCS (EACH ARTICLE CONTAINS 1 DISC)

Disc height	10 mm	12 mm	14 mm	16 mm	18 mm	20 mm	25 mm
Round Disc (98 mm)	761132-STM	761130-STM	761128-STM	761126-STM	761124-STM	761122-STM	761120-STM

Available indications

- For final restorations
- For up to full-arch

Recommended indication
Possible indication
Not possible indication (n/a)

TOOTH-BASED

Inlay

Onlay

Veneer


Partial crown


Coping


Full-contour crown


Telescopic crown


Bridge/bar framework


Full-contour bridge


Vestibular veneering

ABUTMENT-BASED


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
Sintering	Recommendation: Straumann® CARES® Argotherm
Finishing	Layering Polishing
Cementing	Adhesive Self-adhesive Conventional

Chemical composition

ELEMENTS	WEIGHT
Cobalt (Co)	66 %
Chromium (Cr)	28 %
Molybdenum (Mo)	5 %
Further Elements (Mn, Si, Fe)	< 1 %
Further Elements (C)	< 0.1 %
Organic binder (for blanks in blank condition)	1 – 2 %

Physical properties

PROPERTIES	VALUE
Tensile strength (R_m) [MPa]	900
E-Module [GPa]	200
CTE (25 – 500 °C) [$10^{-6}K^{-1}$]	14.5

Preparation guidelines

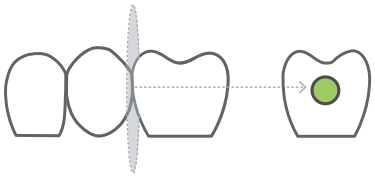
- The preparation shall not have angles or sharp edges
- The shoulder preparation shall be with rounded inner edges and/or chamfer
- The preparation shall have retentive surfaces for conventional cementation

Wall thickness

- 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

MINIMAL RESTORATION DESIGN

Restoration wall thickness



Connector cross-section

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