

Milling blanks. Premium quality for every requirement.







Optimized standard version in implant quality.

A distinguishing feature of remanium[®] star MDII is its homogeneous composition which guarantees very high strength and high ductility. Good laser weldability and proven excellent ceramic bonding are further properties which provide the basis for the high degree of safety potential.

remanium[®] star MD II – standard quality.

Product advantages:

- Proven remanium[®] star composition.
- Certified and time-tested alloy for all applications in crown and bridge work.
- Ideal for ceramic veneering using bonding ceramics in the conventional CTE range.
- Very high ductility.
- Good milling properties.
- High strength type 3, DIN EN ISO 22674.
- Good laser weldability.

Technical data

0.2% yield strength R _{p0.2}	320 MPa
Tensile strength R _m	506 MPa
Hardness	281 HV 10
Elongation at rupture A ₅	5.9 %
Modulus of elasticity E	202 GPa
Density	8.5 g/ cm ³
CTE 25–500 °C / 77 – 932 °F	14.1 x 10 ⁻⁶ K ⁻¹
Solidus temperature	1320 °C / 2408 °F
Liquidus temperature	1420 °C / 2588 °E

Composition (% by mass)

Co	Cr	W	Si
60.5	28.0	9.0	1.5

Additional elements <1 %: Fe, Mn, N, Nb



Availability (ø 98.4 mm)

Thickness	Collar	Quantity	REF
8 mm	none	1 piece	102-750-01
10 mm	none	1 piece	102-751-01
12 mm	10 mm	1 piece	102-752-01
13.5 mm	10 mm	1 piece	102-753-01
15 mm	10 mm	1 piece	102-754-01
18 mm	10 mm	1 piece	102-755-01
20 mm	10 mm	1 piece	102-756-01
25 mm	10 mm	1 piece	102-757-01





Titanium of low hardness.

Pure titanium blank for all applications in crown and bridge work. Highly biocompatible and gentle on the tools during milling.

rematitan[®] blank Ti2 – pure titanium.

Product advantages:

- High biocompatibility.
- Ideal for ceramic veneering using bonding ceramics suitable for titanium such as ceraMotion[®] Ti.
- High degree of corrosion resistance.
- Good milling properties due to low hardness.

Technical data

0.2% yield strength $R_{p 0.2}$	380 MPa
Tensile strength R _m	505 MPa
Hardness	180 HV 10
Elongation at rupture A ₅	34 %
Modulus of elasticity E	120 GPa
Density	4.5 g/ cm ³
CTE 25–500 °C / 77 – 932 °F	9.6 x 10 ⁻⁶ K ⁻¹
Melting point	1665 °C / 3029
	٥E

Composition (% by mass)

Ti
99.3

Additional elements < 1 %: Fe, O



Availability (ø 98.4 mm)

Thickness	Collar	Quantity	REF
10.0 mm	none	1 piece	100-202-10
12.0 mm	10 mm	1 piece	100-202-12
15.0 mm	10 mm	1 piece	100-202-15
20.0 mm	10 mm	1 piece	100-202-20





For high demands.

Titanium alloy (Ti 6AL 4V) with increased mechanical hardness. Particularly suitable for long-span, delicate framework structures and for implant work.

rematitan[®] blank Ti5 – titanium alloy.

Product advantages:

- High mechanical strength.
- High level of biocompatibility in implant quality.
- Ideal for ceramic veneering using bonding ceramics suitable for titanium such as ceraMotion[®] Ti.
- High degree of corrosion resistance.

Technical data

0.2 % yield strength R _p 0.2	832 MPa
Tensile strength R _m	908 MPa
Hardness	285 HV 10
Elongation at rupture A ₅	7%
Modulus of elasticity E	120 GPa
Density	4.3 g/ cm ³
CTE 25–500 °C / 77 – 932 °F	10.0 x 10 ⁻⁶ K ⁻¹
Solidus temperature	1605 °C / 2921
	°F
Liquidus temperature	1650 °C / 3002 °F

Composition (% by mass)

Ti	Al	V
89.0	6.0	4.0

Additional elements < 1 %: Fe, O



Availability (ø 98.4 mm)

Thickness	Collar	Quantity	REF
10 mm	none	1 piece	100-205-10
12 mm	10 mm	1 piece	100-205-12
15 mm	10 mm	1 piece	100-205-15
20 mm	10 mm	1 piece	100-205-20
25 mm	10 mm	1 piece	100-205-25
30 mm	10 mm	1 piece	100-205-30





Wax milling made easy.

Wax blanks with excellent milling properties for the manufacture of crowns and bridges or cast partial dentures using the CAD/Vest process. Can be processed on all milling machines suitable for milling blanks with standard dimensions.

StarWax Blank grey is ideal for CAD/Vest crowns and bridges to be pressed or cast.

StarWax Blank blue is ideal for CAD/Vest cast partial dentures to be cast.

StarWax Blanks - for pressing or casting.

Product advantages StarWax Blank grey:

- Residue-free burnout.
- High edge strength.
- Slightly elastic.

Product advantages StarWax Blank blue:

- Tension-free.
- High fracture strength.
- Accurate fit.

Technical data

Shade	grey, blue
Dripping point	100 - 130 °C
Density	0.92 - 0.97 g/cm ³
Solubility in water	insoluble

Composition: synthetic wax

Availability (ø 98.5 mm with collar)

Thickness	Shade	Quantity	REF
20 mm	grey	1 piece	120-230-00
25 mm	blue	1 piece	120-235-00





Strong, aesthetic & multi-shaded.

The multi-shaded, multi-layered zirconium oxide ceraMotion[®] Z Hybrid is a truly multi-purpose material. In one blank, it combines the aesthetics of a 1000 Mpa zirconium oxide with the strength of a highly translucent zirconium oxide.

ceraMotion[®] Z Hybrid offers pure aesthetics and is suitable for all work in the anterior and posterior area.

By means of a special high-tech process, two different zirconium oxide materials are processed in one blank. ceraMotion[®] Z Hybrid is available in the 9 most popular V-shades and 2 bleach shades and offers reliable shade reproduction.

The machinability of ceraMotion[®] Z Hybrid is excellent and the material is suitable for all open CAD/CAM systems. We primarily recommend this material for monolithic work that is aesthetically demanding, and for finishing with a paste ceramic (e.g. ceraMotion[®] One Touch). It is also possible to continue processing with a classic veneering ceramic (e.g. ceraMotion[®] Zr).

- Reliable reproducibility for high-level aesthetics.
- Multiple indications due to high strength in the dentin area.
- Natural and smooth shade transitions from cervical to incisal.
- Available in the 9 most popular V-shades + 2 bleach shades.
- Excellent machinability.
- Recommended sintering temperature 1480 °C / 2696 °F.
- Translucency 44% 48% (non-shaded, 1 mm).
- Optimum finishing with ceraMotion[®] One Touch.





ceraMotion® Z Hybrid

Technical data

Type II class 5 dental ceramic according to EN ISO 6872 Shades: Bleach 1, Bleach 2, A1, A2, A3, A3.5, A4, B1, B2, C2

- Material $ZrO_2 3Y-TZP \rightarrow 4Y-PSZ$
- Diameter 98.3 mm
- Flexural strength (biaxial) 1300 MPa → 1020 MPa
- Density

> 6.04 g/cm³

- Radio activity < 0.02 Bq/g
- Solubility < 20 μg/cm²
- CTE 10.5 x 10⁻⁶ K⁻¹

Chemical composition

$ZrO_2+HfO_2+Y_2O_3$	Y_2O_3	AI_2O_3
> 96.5%	5.8% - 9.7%	< 0.5%
Fe ₂ O ₃	Er_2O_3	further oxides
< 0.5%	< 2.0%	< 0.5%

Shade	REF (14 mm)	REF (18 mm)	REF (22 mm)	Quantity
A1	272-411-14	272-411-18	272-411-22	1 piece
A2	272-412-14	272-412-18	272-412-22	1 piece
A3	272-413-14	272-413-18	272-413-22	1 piece
A3.5	272-415-14	272-415-18	272-415-22	1 piece
A4	272-414-14	272-414-18	272-414-22	1 piece
B1	272-421-14	272-421-18	272-421-22	1 piece
B2	272-422-14	272-422-18	272-422-22	1 piece
C2	272-432-14	272-432-18	272-432-22	1 piece
Bleach 1	272-300-14	272-300-18	272-300-22	1 piece
Bleach 2	272-400-14	272-400-18	272-400-22	1 piece





Ultra-highly translucent and multi-shaded.

The multi-shaded, pre-shaded and ultra-highly translucent zirconium oxide ceraMotion[®] Z Cubic Multishade is suitable for inlays, veneers, single crowns and 3-unit bridges.

With a translucency of 49%, the restoration shows natural light dynamics after sintering and meets the highest aesthetic demands. ceraMotion[®] Z Cubic Multishade is available in the 9 most popular V-shades and offers reliable shade reproduction.

The machinability of ceraMotion[®] Z Cubic Multishade is excellent and the material is suitable for all open CAD/CAM systems. We primarily recommend this material for monolithic work that is aesthetically demanding. It can be finished with a speedy, yet aesthetic veneering using a paste ceramic (e.g. ceraMotion[®] One Touch). It is also possible to continue processing with a classic veneering ceramic (e.g. ceraMotion[®] Zr).

- Reliable reproducibility for high-level aesthetics.
- Natural and smooth shade transitions from cervical to incisal.
- Available in the 9 most popular V-shades.
- Particularly suitable for inlays, onlays, monolithic crowns and 3-unit bridges.
- Excellent machinability.
- Recommended sintering temperature 1450 °C / 2642 °F.
- Translucency 49% (non-shaded, 1 mm).
- Optimum finishing with ceraMotion[®] One Touch.





ceraMotion® Z Cubic Multishade

Technical data

Type II class 4 dental ceramic according to EN ISO 6872 Shades: A1, A2, A3, A3.5, A4, B1, B2, C2, D2

• 1	Material	ZrO ₂ 5Y-PSZ
• [Diameter	98.3 mm
• F	lexural strength (biaxial)	600 MPa
• 0	Density	> 6.04 g/cm ³
• F	Radio activity	< 0.02 Bq/g
• 5	Solubility	< 100 µg/cm²
_ /		

CTE 10.5 x 10⁻⁶ K⁻

Chemical composition

$ZrO_2+HfO_2+Y_2O_3$	Y_2O_3	AI_2O_3
> 96.5%	5.8% - 9.7%	< 0.5%
		1
Fe_2O_3	$\mathrm{Er}_{2}\mathrm{O}_{3}$	further oxides
< 0.5%	< 2.0%	< 0.5%

Shade	REF (14 mm)	REF (18 mm)	REF (22 mm)	Quantity
A1	272-311-14	272-311-18	272-311-22	1 piece
A2	272-312-14	272-312-18	272-312-22	1 piece
A3	272-313-14	272-313-18	272-313-22	1 piece
A3.5	272-315-14	272-315-18	272-315-22	1 piece
A4	272-314-14	272-314-18	272-314-22	1 piece
B1	272-321-14	272-321-18	272-321-22	1 piece
B2	272-322-14	272-322-18	272-322-22	1 piece
C2	272-332-14	272-332-18	272-332-22	1 piece
D2	272-333-14	272-333-18	272-333-22	1 piece





Strong, highly translucent and multi-shaded.

The multi-shaded, pre-shaded and highly translucent zirconium oxide ceraMotion[®] Z HT Multishade is suitable for all work in the anterior and posterior area.

The high strength of more than 1200 MPa (biaxially) offers maximum safety from the single crown to multi-element restorations or implant sub-structures. After sintering, the multi-layer shaded blank shows the natural shade gradient from the dentin to the incisal area, in a flowing gradient.

ceraMotion[®] Z HT Multishade is available in the 9 most popular V-shades and offers reliable reproducibility whilst meeting high aesthetic demands.

The machinability of ceraMotion[®] Z HT Multishade is excellent and the material is suitable for all open CAD/CAM systems. We primarily recommend this material for monolithic work that is aesthetically demanding. It can be finished with a speedy, yet aesthetic veneering using a paste ceramic (e.g. ceraMotion[®] One Touch). It is also possible to continue processing with a classic veneering ceramic (e.g. ceraMotion[®] Zr).

- Natural and smooth shade transitions from cervical to incisal.
- Highly efficient (no pre-shading required).
- Reliable reproducibility of classic V-shades.
- For high aesthetic demands.
- Multiple indications due to high strength.
- Particularly suitable for monolithic crowns and bridges.
- Excellent machinability.
- Recommended sintering temperature 1530 °C / 2786 °F.
- Translucency 43% (non-shaded, 1 mm).
- Optimum finishing with ceraMotion[®] One Touch.





ceraMotion® Z HT Multishade

Technical data

Type II class 5 dental ceramic according to EN ISO 6872 Shades: A1, A2, A3, A3.5, A4, B1, B2, C2, D2

Material	ZrO ₂ 3Y-TZP
Diameter	98.3 mm
Flexural strength (biaxial)	1100 MPa
Density	> 6.08 g/cm ³
Radio activity	< 0.02 Bq/g
Solubility	< 10 µg/cm ²

CTE 10.5 x 10⁻⁶ K⁻¹

Chemical composition

$ZrO_2+HfO_2+Y_2O_3$	Y_2O_3	Al ₂ O ₃	
> 97.7%	4.4% - 5.5%	< 0.5%	
Fe ₂ O ₃	$\mathrm{Er}_{2}\mathrm{O}_{3}$	further oxides	
< 0.3%	< 1.0%	< 1.2%	

Shade	REF (14 mm)	REF (18 mm)	REF (22 mm)	REF (25 mm)	Quantity
A1	272-211-14	272-211-18	272-211-22	272-211-25	1 piece
A2	272-212-14	272-212-18	272-212-22	272-212-25	1 piece
A3	272-213-14	272-213-18	272-213-22	272-213-25	1 piece
A3.5	272-215-14	272-215-18	272-215-22	272-215-25	1 piece
A4	272-214-14	272-214-18	272-214-22	272-214-25	1 piece
B1	272-221-14	272-221-18	272-221-22	272-221-25	1 piece
B2	272-222-14	272-222-18	272-222-22	272-222-25	1 piece
C2	272-232-14	272-232-18	272-232-22	272-232-25	1 piece
D2	272-233-14	272-233-18	272-233-22	272-233-25	1 piece





Strong, highly translucent and shaded.

The monochrome, preshaded and highly translucent zirconium oxide ceraMotion[®] Z HT Shade is suitable for all work in the anterior and posterior area.

The high strength of more than 1200 MPa (biaxially) offers maximum safety from the single crown to multi-element restorations or implant sub-structures. The blanks have already been shaded homogeneously, making it possible to work highly efficiently, since aesthetic individualization can begin immediately after sintering. The good shading of the blanks ensures a reliable reproducibility of all V-Classic shades.

The machinability of ceraMotion[®] Z HT Shade is excellent and the material is suitable for all open CAD/CAM systems. We primarily recommend this material for monolithic work. It can be finished with a speedy, yet aesthetic veneering using a ceramic paste (e.g. ceraMotion[®] One Touch). It is also possible to continue processing with a classic veneering ceramic (e.g. ceraMotion[®] Zr).

- Highly efficient (no pre-shading required).
- Ensures consistent shade results thanks to preshaded blanks.
- Reliability due to very high strength.
- Particularly suitable for monolithic crowns and bridges.
- Excellent machinability.
- Recommended sintering temperature 1530 °C / 2786 °F.
- Translucency 43% (non-shaded, 1 mm).
- Optimum finishing with ceraMotion[®] One Touch.





ceraMotion[®] Z HT Shade

Technical data

Type II class 5 dental ceramic according to EN ISO 6872 Shades: A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4

 Material 	7r∩ 2V T7D
	210 ₂ 51-12P
 Diameter 	98.3 mm
 Flexural strength (biaxial) 	1100 MPa
Density	> 6.08 g/cm³
 Radio activity 	< 0.02 Bq/g
 Solubility 	< 10 µg/cm²
CTE 10.5 x 10 ⁻⁶ K ⁻¹	

Chemical composition

$ZrO_2+HfO_2+Y_2O_3$	Y ₂ O ₃	Al ₂ O ₃	
> 97.0%	4.4% - 5.5%	< 0.5%	
		1	
Fe ₂ O ₃	Er_2O_3	further oxides	
< 0.3%	< 1.0%	< 1.2%	

Shade	REF (14 mm)	REF (18 mm)	REF (22 mm)	REF (25 mm)	Quantity
A1	272-111-14	272-111-18	272-111-22	272-111-25	1 piece
A2	272-112-14	272-112-18	272-112-22	272-112-25	1 piece
A3	272-113-14	272-113-18	272-113-22	272-113-25	1 piece
A3.5	272-115-14	272-115-18	272-115-22	272-115-25	1 piece
A4	272-114-14	272-114-18	272-114-22	272-114-25	1 piece
B1	272-121-14	272-121-18	272-121-22	272-121-25	1 piece
B2	272-122-14	272-122-18	272-122-22	272-122-25	1 piece
B3	272-123-14	272-123-18	272-123-22	272-123-25	1 piece
B4	272-124-14	272-124-18	272-124-22	272-124-25	1 piece
C1	272-131-14	272-131-18	272-131-22	272-131-25	1 piece
C2	272-132-14	272-132-18	272-132-22	272-132-25	1 piece
C3	272-133-14	272-133-18	272-133-22	272-133-25	1 piece
C4	272-134-14	272-134-18	272-134-22	272-134-25	1 piece
D2	272-142-14	272-142-18	272-142-22	272-142-25	1 piece
D3	272-143-14	272-143-18	272-143-22	272-143-25	1 piece
D4	272-144-14	272-144-18	272-144-22	272-144-25	1 piece





Strong and highly translucent.

This classic, highly translucent and reliable zirconium oxide ceraMotion[®] Z HT White is suitable for all work in the anterior and posterior area.

The high strength of more than 1200 MPa (biaxially) offers high safety from the single crown to multi-element restorations or implant sub-structures. Due to the increased translucency of 43%, ceraMotion[®] Z HT White is the optimal basis for the production of aesthetic restorations.

The machinability of ceraMotion[®] Z HT White is excellent and the material is suitable for all open CAD/CAM systems. We recommend this material primarily as a framework material for classic veneering (e.g. with ceraMotion[®] Zr).

- Reliability due to very high strength.
- Excellent machinability.
- Suitable for shading.
- Recommended sintering temperature 1530 °C / 2786 °F.
- Translucency 43% (non-shaded, 1 mm).
- Optimum finishing/veneering with ceraMotion[®] Zr.

ceraMotion[®] Z HT White

Technical data

Type II class 5 dental ceramic according to EN ISO 6872

< 10 µg/cm²

 Material 	ZrO ₂ 3Y-TZP
 Diameter 	98.3 mm
 Flexural strength (biaxial) 	1200 MPa
 Density 	> 6.06 g/cm ³
 Radio activity 	< 0.02 Bq/g

- Solubility
- CTE 10.5 x 10⁻⁶ K⁻¹

Chemical composition

ZrO_2 + HfO_2 + Y_2O_3	Y_2O_3
> 99.0%	4.5% - 6.0%
Al ₂ O ₃	further oxides
< 0.5%	< 0.5%

Thickness	Shade	REF	Quantity
14 mm	white	272-094-14	1 piece
18 mm	white	272-094-18	1 piece
22 mm	white	272-094-22	1 piece
25 mm	white	272-094-25	1 piece





Strong & proven.

The proven and reliable 3Y-TZP-A high-performance zirconium oxide is suitable for all work in the anterior and posterior area.

The high strength of over 1200 MPa (biaxially) offers a high level of safety, particularly for multi-element restorations or stable implant sub-structures. Due to the reduced translucency of 39%, ceraMotion[®] Z White allows the optimal masking of discolored stumps and metal abutments.

The machinability of ceraMotion[®] Z White is excellent and the material is suitable for all open CAD/CAM systems. We recommend this material primarily as a framework material for classic veneering (e.g. with ceraMotion[®] Zr).

- Reliability due to very high strength.
- Stump/abutment masking possible due to reduced translucency.
- Excellent machinability.
- Suitable for shading.
- Recommended sintering temperature 1530 °C / 2786 °F.
- Translucency 39% (non-shaded, 1 mm).
- Optimum finishing/veneering with ceraMotion[®] Zr.



ceraMotion® Z White

Technical data

Type II class 5 dental ceramic according to EN ISO 6872

- Diameter
- Flexural strength (biaxial)
- DensityRadio activity

Solubility

- 1200 MPa > 6.06 g/cm³
 - < 0.02 Bq/g

98.3 mm

ZrO₂ 3Y-TZP-A

< 10 µg/cm²

Chemical composition

ZrO_2 + HfO_2 + Y_2O_3	Y ₂ O ₃	
> 99.0%	4.5% - 6.0%	
Al ₂ O ₃	further oxides	
< 0.5%	< 0.5%	

These values were measured on test samples and are typical for the material. The product properties may, however, deviate from these values depending on the component design and the forming process.

Thickness	Shade	REF	Quantity
14 mm	white	272-098-14	1 piece
18 mm	white	272-098-18	1 piece
22 mm	white	272-098-22	1 piece
25 mm	white	272-098-25	1 piece

CTE 10.5 x 10⁻⁶ K⁻¹

Ceramic solutions - made by Dentaurum.

Under the successful umbrella brand ceraMotion[®], Dentaurum Ceramics produces more than 1,500 products in compliance with the highest quality standards.

These include products from all areas for modern all-ceramic restorations - from the framework material to the glaze.





Monolithic, cut-back, partially or fully veneered

The manufacturing method depends on the patient case to be treated. Whatever the technology, ceraMotion[®] has the right answer for all methods.



Glaze Pastes ceramotion[®] Paste Glaze ceramotion[®] Paste Glaze Bright

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