



Ti-Base Solutions

MIS Ti-Base

The Ti-Base serves as a connector between the implant and its final restoration, enabling CAD/CAM customized solutions, highest precision and best esthetic results. The conical connection Ti-Base options present the MIS consistent concave emergence profile, to further enhance and support the VCONCEPT.

Advantages:

- Expanded gingival height manipulation options
- Solution for both single and multiple teeth restoration
- Golden shade for best esthetic results
- Anodized to fit MIS color coding
- Retention grooves

Available options:

1. Implemented Ti-Bases
2. Incisor design Ti-Base
3. Zirconia abutments:
 - i. Pre-cemented
 - ii. Non-cemented

MIS Ti-Base

1 Implemented Ti-Bases

- Ti-Bases of variable gingival heights (0.5, 1.5, 3mm) provide solutions for cases of different gingival thickness and clinical procedures.
- Short gingival height will be useful when final restoration close to the implant level is preferable (esthetic zone), while long gingival height will be useful in cases when a high emergence profile is required (e.g. Sub-crestal placement).
- The Ti-Bases are available in all platforms, for single tooth restoration (anti-rotation index) and for multiple tooth restoration (free-rotation).

MIS Ti-Base

1 Implemented Ti-Bases

Narrow platform

		Item name	Gingival Height	Pillar Height
V3		Ti-Base anti-rotation	0.5/1.5/3mm	4mm
		Ti-Base free rotation	0.5/1.5/3mm	4mm

*Int. hex. Ti-Base solutions are available in 0.5mm gingival height, in all platforms.

MIS Ti-Base

1 Implemented Ti-Bases

Narrow platform

		Item name	Gingival Height	Pillar Height
C1		Ti-Base anti-rotation	0,5/1,5/3mm	4mm
		Ti-Base free rotation	0,5/1,5/3mm	4mm

*Int. hex. Ti-Base solutions are available in 0.5mm gingival height, in all platforms.

MIS Ti-Base

1 Implemented Ti-Bases

Standart platform

		Item name	Gingival Height	Pillar Height
V3/C1		Ti-Base anti-rotation	0.5/1.5/3mm	4mm
		Ti-Base free rotation	0.5/1.5/3mm	4mm

*Int. hex. Ti-Base solutions are available in 0.5mm gingival height, in all platforms.

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1 Implemented Ti-Bases

Wide platform

		Item name	Gingival Height	Pillar Height
C1		Ti-Base anti-rotation	0.5/1.5/3mm	4mm
		Ti-Base free rotation	0.5/1.5/3mm	4mm

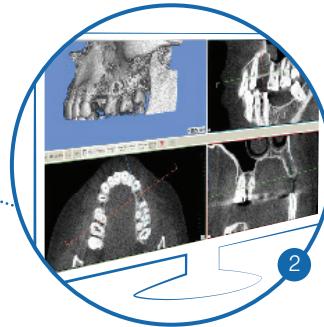
*Int. hex. Ti-Base solutions are available in 0.5mm gingival height, in all platforms.

MIS Ti-Base

1 Implemented Ti-Bases

Scanning (using MIS scan post)–

- Desktop scanning - stone models and wax-ups are sent to the MLAB for 3D scanning
- Intra-oral scanning – scanning is performed in the clinic and digital STL files are sent to the MLAB



CAM – files are sent to the CAM machine for milling



CAD – design of the prosthetic solution

MIS Ti-Base

1 Implemented Ti-Bases

Libraries:

compamy/software	internal Hex. 0.5mm			Conical Connection 0.5mm			Conical Connection 1.5mm			Conical Connection 3mm		
	N	S	W	N	S	W	N	S	W	N	S	W
AMANNGIRRBACH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗
3SHAPE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DELCAM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ZIRKONZAHN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗
Dentsply-Materialize-Simplant	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗
EUROTEKNIKA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗
HERAEUS KULZER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DENTAL WINGS(DWOS)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗
VATECH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗
PLANMECA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗
Alkom Digital	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗
ZFX Dental(Zimmer Holdings, Inc.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗

MIS Ti-Base

1 Implemented Ti-Bases

Restorative options:

1. Cemented - Monoblock custom-made final restoration is designed and milled. The Ti-Base is placed and screwed to the implant, and the final restoration is cemented to the Ti-Base.

Advantage:

Simple

Disadvantage:

Possible subgingival cement leakage

MIS Ti-Base

1 Implemented Ti-Bases

Restorative options:

2. Cemented - A custom-made abutment and a custom-made crown are prepared separately. The abutment is cemented to the Ti-Base in the lab. This assembly is placed and screwed to the implant. The final custom-made crown is cemented over it in the mouth.

Advantage:

Prevention of subgingival cement leakage

Disadvantage:

Two restorative components are designed and milled rather than one

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1 Implemented Ti-Bases

Restorative options:

3. Screw-retained – A custom-made monoblock final restoration is designed and milled (with a screw channel), cemented to the Ti-Base outside the mouth, placed and screwed to the implant.

Advantage:

No risk for cement leakage to the gingiva, retrievable

Disadvantage:

Esthetics

MIS Ti-Base

2 Incisor design Ti-Base

Incisor design Ti-Base for custom-made restorations in the anterior area.

- Available in 0.5, 1.5 and 3mm gingival heights and 6mm pillar height, in Narrow and Standard platforms.
- The incisor design Ti-Base isn't implemented in the CAD/CAM libraries; scanning will be performed directly over the Ti-Base (rather than of the scan post) after adjustments and anti-reflection spraying.
- The incisor design Ti-Base is available in the narrow and standard platforms.



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2 Incisor design Ti-Base

Range:

Platform/ Gingival height	0.5mm	1.5mm	3mm
NP	✓	✓	✓
SP	✓	✓	✓

MIS Ti-Base

3 Zirconia abutments

Suitable for all MIS implant systems, our Zirconia abutments are biocompatible, combining the esthetic benefits of Zirconia, with the accuracy, strength and long-term stability of titanium-to-titanium connection between the implant and the abutment.

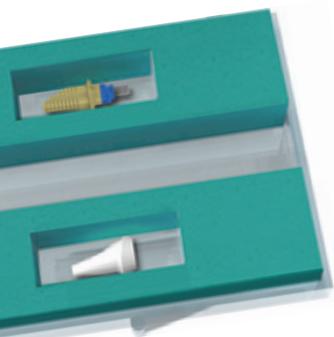
MIS Zirconia abutments present a 15° angulated incisor design and an oval shape pre-molar design, to provide excellent results in the entire esthetic zone.



MIS Ti-Base

3 Zirconia abutments

INCISOR, V3/C1 CONICAL CONNECTION



V3

Narrow Platform

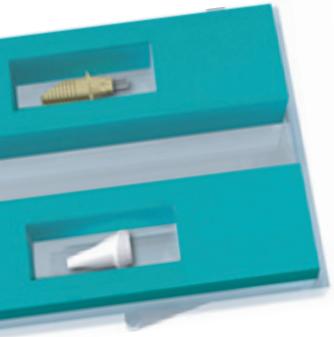


Gingival Height

0.5/1.5mm



0.5/1.5mm



C1

Narrow Platform



0.5/1.5mm

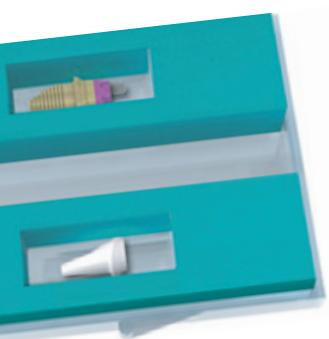


0.5/1.5mm

MIS Ti-Base

3 Zirconia abutments

INCISOR, V3/C1 CONICAL CONNECTION



V3/C1

Standard Platform

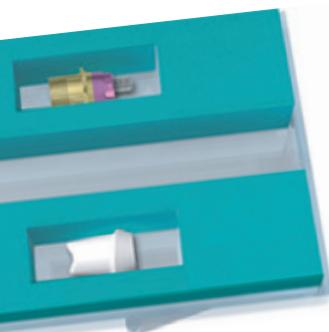


Gingival Height

0.5/1.5 mm

0.5/1.5 mm

PREMOLAR, C1/V3 CONICAL CONNECTION



V3/C1

Standard Platform



0.5 mm

0.5 mm

C1

Wide Platform



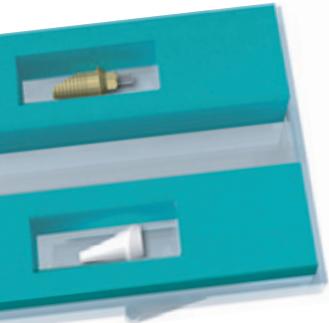
0.5 mm

0.5 mm

MIS Ti-Base

3 Zirconia abutments

INCISOR, INTERNAL HEX.



Narrow Platform

Standard Platform



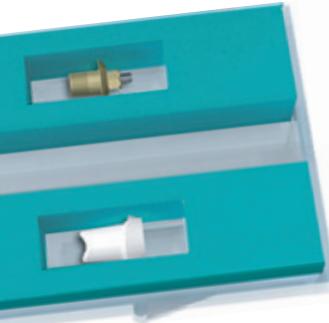
Gingival Height

0.5mm



0.5mm

PREMOLAR, INTERNAL HEX.



Wide Platform

Standard Platform



0.5mm



0.5mm

MIS Ti-Base

4 Zirconia abutments

Pre-cemented Zirconia abutments:

Pre-cemented Zirconia abutments are adjusted and directly scanned over the model. Staining of the Zirconia isn't possible since the high heat generated during the sintering might damage the cement or the titanium itself.

CAD/CAM –

1. Scanning - will be performed directly over the Pre-cemented Zirconia abutment on the model (desktop scanning), after adjustments.
2. CAD/CAM – a custom-made final crown is designed and milled.
3. Final cementation – the Zirconia abutment is cemented to the Ti-Base (outside the mouth), the assembly is screwed to the implant and finally the custom-made crown is cemented.

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4 Zirconia abutments

Non-cemented Zirconia abutments:

Allow for adding material and/or staining of the separated Zirconia abutment, which require sintering and high heat that might damage the cement or the titanium itself.

CAD/CAM –

1. Scanning - The Zirconia is adjusted (material addition or reduction), then assembled to the Ti-Base prior to cementation, and directly scanned (desktop scanning).
2. CAD/CAM – a custom-made final crown is designed and milled.
3. Final cementation – after the Zirconia abutment is placed and screwed to the implant, the final restoration is cemented.

MIS Ti-Base

4 Zirconia abutments

Non-cemented Zirconia abutments:

Conventional method –

1. Wax-up - The Zirconia and Ti-Base are assembled prior to cementation, and a wax-up of the final crown is performed over the model.
2. Casting and Final cementation – 2 options:
 - a. Screw-retained - The separated Zirconia unit, with its wax-up, is sintered for porcelain addition and formation of a final mono-block restoration with a screw-channel. The restoration is cemented to the Ti-Base (outside the mouth) and then screwed to the implant.
 - b. Cemented - The wax-up is cast for the formation of a custom-made crown. The Zirconia abutment is cemented to the Ti-Base (outside the mouth), the assembly is screwed to the implant and finally the crown is cemented.