Titanmagnetics for Root Caps from Preat

Titanmagnetics can be used on cast root post caps as well.

The magnet is just glued into a casted root cap with a mouth resistant attachment glue. The gluing surface is sandblasted and the functional surface is polished. The denture magnet is glued or polymerized into the dentures. For easy processing, castable plastic sleeves can be set parallel with a mandrel.

Possible sizes:

- **X-Line** (diameter 4.8 mm, height 2.5 mm, denture magnet height 2.65mm, force ca. 1.6 N)
- **Z-Line** (diameter 5.8 mm, height 3.0 mm, denture magnet height 3,15 mm, force ca. 3.0 N)

The following instructions apply to root post cap magnetic system. It contains root post cap Titanmagnetics, prosthetic universal parts and accessories.

The different products can be distinguished by the first letter in the product number (REF):
V = connection parts U = denture/ prostheses magnets P = positioning cuffs M = model parts

Indications

Anchoring of full and partial dentures prostheses. Depending on anatomic and prosthetic conditions a various number of posts can be indicated. Root post cap Titanmagnetics can be combined with other retention elements.

Contraindications

Dysfunctions such as bruxism, as well as regularly MRI (magnetics resonance imaging) inspection.

Technical Data

Root post caps are available in two product lines with different size and retention force.

Product	X-Line		Z-Line	
	Height/Length	Diameter	Height/Length	Diameter
Root post cap magnet [V]	2.60 mm	4.80 mm	3.00 mm	5.80 mm
Prostheses magnet [U]	2.65 mm	4.80 mm	3.15 mm	5.80 mm
Positioning cuff [P]	0.30 mm	15.00 mm	0.40 mm	15.00 mm
Modelling sleeve [M]	2.05 mm	5.30 mm	----------	----------
Retention force*	1.6 N / 163 g		3.0 N / 306 g	
Modelling tool [M] only X-line, shank ISO 103 (2.35 mm) or ISO 123 (3.0 mm) D 4.8mm			----------	

*Retention forces have been determined acc. DIN 13992.

Materials

Root post cap Titanmagnetics denture/prosthesis magnets:

- Housing: Titanium acc. DIN 17850 (Ti4) / ASTM F 67 (Grade 4)
- Magnetic Core: Sm_2Co_{17}, gas tightly welded in Titanium
- Positioning Cuff: Dental Silicone

- Modelling Sleeve: PMMA
- Modelling Tool: Steel

Advantages of Magnetic Anchoring

- Easy and stress less insertion or extraction of prostheses (Gbara 1995), cost-effectiveg (Göhring 1997)
- Good implant and tissue supported retention and fit of dentures (Wirz 1994)
- Avoiding of unphysiological load on implants (Jäger/Wirz 1993, 1994, Vesper 1995)
- Easy mouth, implant and denture hygiene (Tiller 1993, 1995)
- Reduced effort for dentists and dental technicians (Stemmann 1995, 1997, Ziesche 1998)

Selection of parts

The selection of the suitable product line depends on space limitations and retention force requirements. For integration of root post cap Titanmagnetics in silicone prostheses (e. g. obturators) magnets with additional retention rings are available. Please refer to product catalog and summary papers.

Titanmagnetics are part of a general concept and must be used only with original parts and instruments. Otherwise liability is excluded.

Application

Magnet products should be used by licensed dental and medical professionals.

Available components for the X-Line & Z-Line

X-Line Abutment: $220.00
Denture Magnet: $90.00
Positioning Cuff/Resilience Ring: $15.00
Impression Posts: $60.00
Model Analog: $60.00
Latch Driver: $140.00
Square Driver: $140.00

Available components for the K-Line

K-Line Abutment: $220
Denture Magnet: $105.00
Positioning Cuff/Resilience Ring: $15.00
Impression Posts (Use the Denture Magnet as Impression Post)
Model Analog: $60.00
Latch Driver: $140.00
Square Driver: $140.00