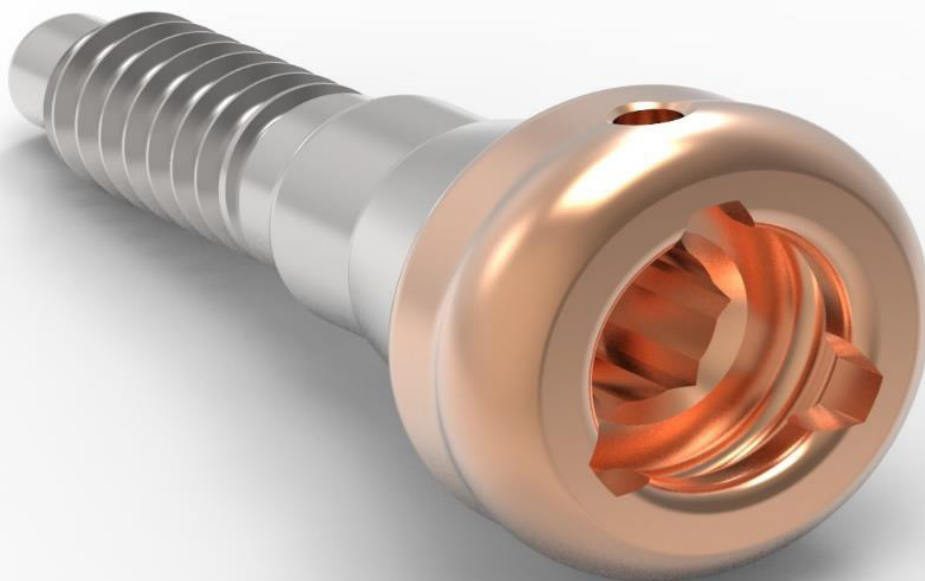


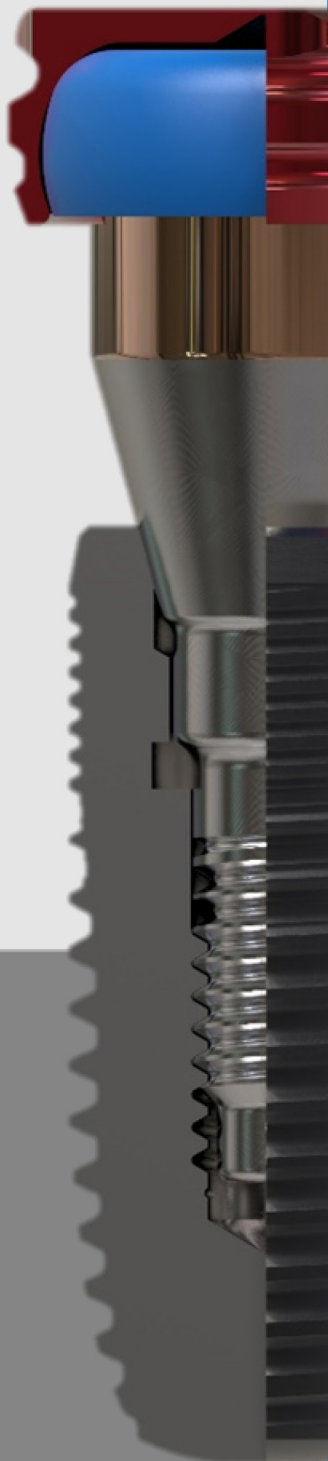
MEDEALIS



## MEDEALIS Professional Dental Systems



**Docklocs® Attachment System**  
THE ATTACHMENT SYSTEM WITH DECISIVE ADVANTAGES



# Docklocs<sup>®</sup>

## ATTACHMENT SYSTEM

COMPATIBLE WITH MEGAGEN<sup>®</sup>



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# MEDEALIS Professional Dental Systems



## About MEDEALIS

MEDEALIS GmbH was founded in February 2017 and is a medical technology manufacturer for dental products.

The guiding principle here is to offer the highest quality standards as well as fair prices. Therefore we define strict requirements for safety, functionality, material and processing of our products. In order to offer the best possible product quality, we have all product components manufactured in Germany. We are convinced that only the close cooperation between dentist, dental laboratory and manufacturer leads to an excellent product.

The Docklocs® Attachment System for overdentures is a further development of the well-known LOCATOR® system from Zest Anchors®. The abutments are coated with an innovative protective layer of zirconium carbonitride. This is characterized not only by a very high wear resistance but also by its noble aesthetic red-gold colour.

## Advantages of the Docklocs® Attachment System

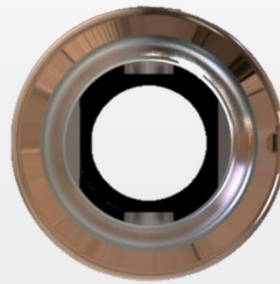
- **Abutments with an 18° Angulation**

With these Abutments, divergences between implants of up to 65° can be corrected. With the 18° angled Abutments, the dentist is able to cover a wide range of clinical implant situations. The angled Abutments are available with **two connection variants**. This allows the position of the implant to be better compensated.



Docklocs® secondary part, straight

Docklocs® secondary part, 18° angled



Connection variant A



Connection variant B, 45° twisted

## Retention inserts (matrices) made of high performance plastic

The outstanding properties of the retention inserts are their very high hardness combined with high toughness and dynamic load capacity (number of load cycles). They also have a high resistance to chemicals and lipids (grease) with a low tendency to absorb water. These properties make them ideal for applications in direct contact with body fluids, medicines or active ingredients. They also show outstanding resistance to disinfectants containing alcohol.



# Advantages of the Docklocs® Attachment System

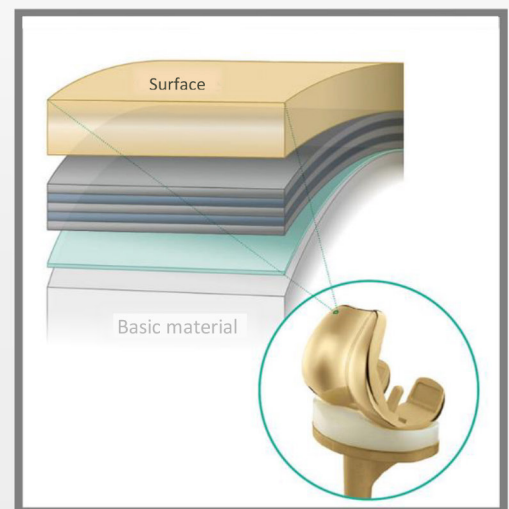
- **Biocompatible Ceramic PVD Hard Coating**

The coating is an extremely hard zirconium carbonitride layer (ZrCN). It has a high abrasion and wear resistance. In addition to the functional surface properties, the red-golden coloration is impressive. Zirconium surfaces have the advantage of having twice as low plaque affinity as titanium and thus largely preventing inflammatory reactions of the soft tissue.

Microhardness of various surfaces

Coating	Shortcut	Color	Hardness (in HV)	Thickness (in µm)	Friction coefficient against steel
Titan-Nitrid	TiN	gold	2200	1,0-4,0	0,4
Zirkon-Nitrid	ZrN	light-gold	2500±500	1,0-4,0	0,3
Titan Carbonitrid	TiCN	altrose	3100	1,3-3,0	0,2
<b>Zirkoniumcarbonitrid</b>	<b>ZrCN</b>	<b>red-gold</b>	<b>3200±300</b>	<b>1,0-3,0</b>	<b>0,3</b>

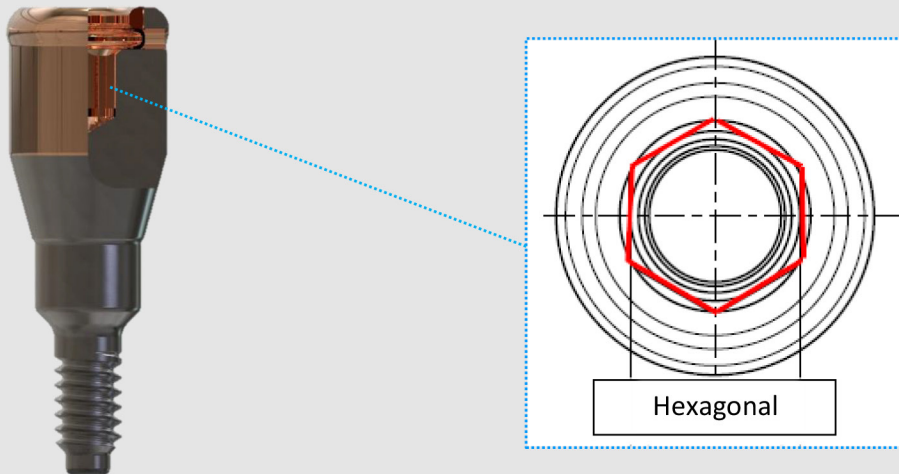
- A specially applied adhesive layer ensures that the coating adheres as well as possible to the base material titanium. In addition, the zirconium carbonitride surface layer is reinforced by five graded layers to bridge the hardness gap between the softer base material Titan Grade 5 (330-390 HV) and the very hard ZrCN top layer (3200 HV).



# Advantages of the Docklocs® Attachment System

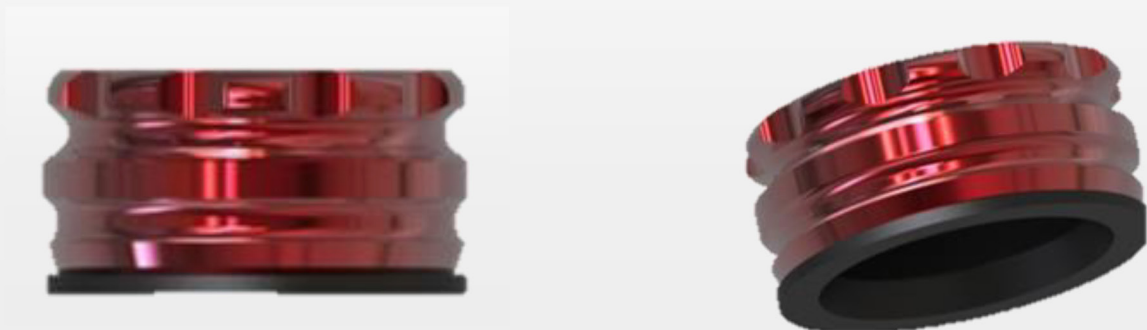
- **Additional Screw-in-Mechanism**

The industry standard .050"/1,25 mm\* hexagonal screw mechanism simplifies insertion into the dental implant.



- **Optimized Retention Housing**

The retention housing is provided with additional horizontal grooves for improved resistance to vertical and horizontal movement. The red anodized surface enhances aesthetics and prevents the grey translucency of the surface on thin denture material.



# Introduction of the universal instruments for the Docklocs® Attachment System

## Docklocs® Universal Instrument four-part A0020

The Docklocs Universal Instrument four-part A0020 convinces with additional features such as the easy-to-clean surface, a holding sleeve and an additional friction, which ensures a secure holding of the retention inserts on the instrument and thus considerably facilitates the insertion of the retention inserts into the matrix housing.



### Holding Sleeve

The instrument holding sleeve is screwed onto the end piece. It facilitates the insertion of a Docklocs® abutment and holds it in place as it is screwed into the implant. The sleeve is made of PEEK and can be autoclaved.

### Red-golden end piece

The end piece of the instrument is used to screw the Docklocs® attachments into and out of the implants or laboratory implants. It is hardened and additionally refined with a very hard zirconium carbonitride coating.

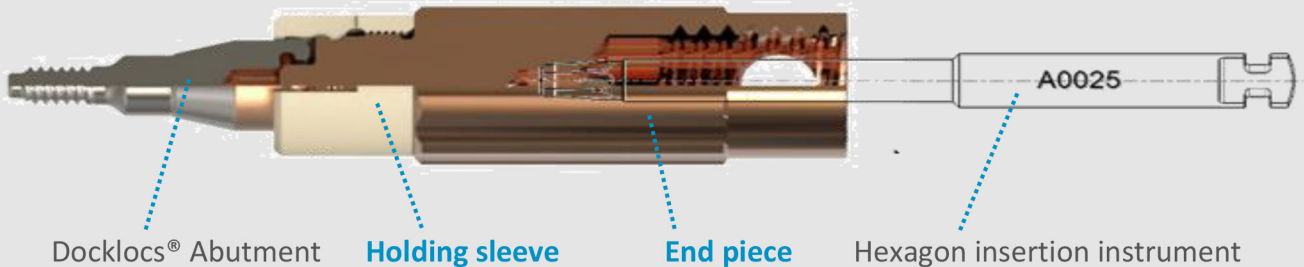
### Middle section

The middle section of the instrument is used to insert the retention inserts into the matrix housing. For this purpose, the tip must be completely unscrewed from the center section. The end presses the retention insert into the matrix housing. The retention inserts are held at the end by additional friction.

### Tip

The tip is used to remove the retention inserts from the retention housing. The tip must be loosened with two full rotations. A gap becomes visible between the tip and the middle part.

# Introduction of the universal instruments for the Docklocs® Attachment System



**Holding sleeve:** The retaining sleeve is screwed onto the end piece. It holds the Docklocs® abutment on the instrument as it is inserted into the implant. The holding sleeve can be easily screwed from the end piece for cleaning. If the holding function is not required, the end piece can also be used without the sleeve. The holding sleeve can be autoclaved.

**End piece:** A hexagon socket is incorporated in the end piece, into which a hexagon instrument with a wrench size of 1.25 mm fits. A security thread can be inserted through a cross hole. This can prevent aspiration.

## Docklocs® Universal Instrument practice A0019

The tool is designed for use in the dental practice. With the main focus on replacement of the retention inserts.



### End piece practice

The end piece of the instrument is used to insert the retention inserts into the retention housing. This does not require unscrewing the tip from the middle section. The end presses the retention insert into the matrix housing. Additional friction keeps the retention inserts on the end of the instrument.

### Tip

The tip is used to remove the retention inserts from the retention housing. The tip must be loosened with two full turns. A gap becomes visible between the tip and the middle part.

# Instruments for the Docklocs® Attachment System

## Screwdriver for Docklocs® abutments with shaft for contra-angles

(compatible with Locator® Abutments)

The instrument is used to screw the one-piece straight Docklocs® abutments into the intended implants or implant analogs. It engages the triangular geometry at the top of the abutment heads

Material: hardened stainless steel

Length: 30mm

Art.-Nr.: A0022



## Screwdriver with holding sleeve for Docklocs® Abutments with shaft for contra angles.

(compatible with Locator® Abutments)

The instrument is used to screw the one-piece straight Docklocs® abutments into the intended implants or implant analogs. It engages the triangular geometry at the top of the abutment heads. As an additional feature, the abutment is held on the instrument by the holding sleeve. The Holding Sleeve can be easily screwed from the end piece for cleaning. If the holding function is not required, the end piece can also be used without the sleeve. The holding sleeve can be autoclaved.

Material: hardened stainless steel; Holding sleeve PEEK

Length: 23,2mm

Diameter: Ø5,8mm

Art.-Nr.: A0023



## Hex screwdriver 1.25mm for Docklocs® Abutments and retaining screws with shaft for contra angles

The instrument can be used to screw the one-piece straight Docklocs® abutments into the intended implants or implant analogs. The instrument is suitable for all Docklocs® retaining screws.

Material: hardened stainless steel

Length: 27mm

Art.-Nr.: A0025

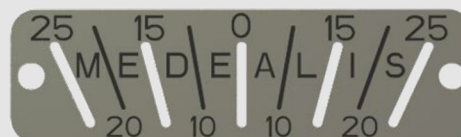


## Docklocs® angle measuring aid

The angle measuring aid can be used to determine the axial divergence of the individual implants in relation to each other.

Material: stainless steel




Art.-Nr.: A0013

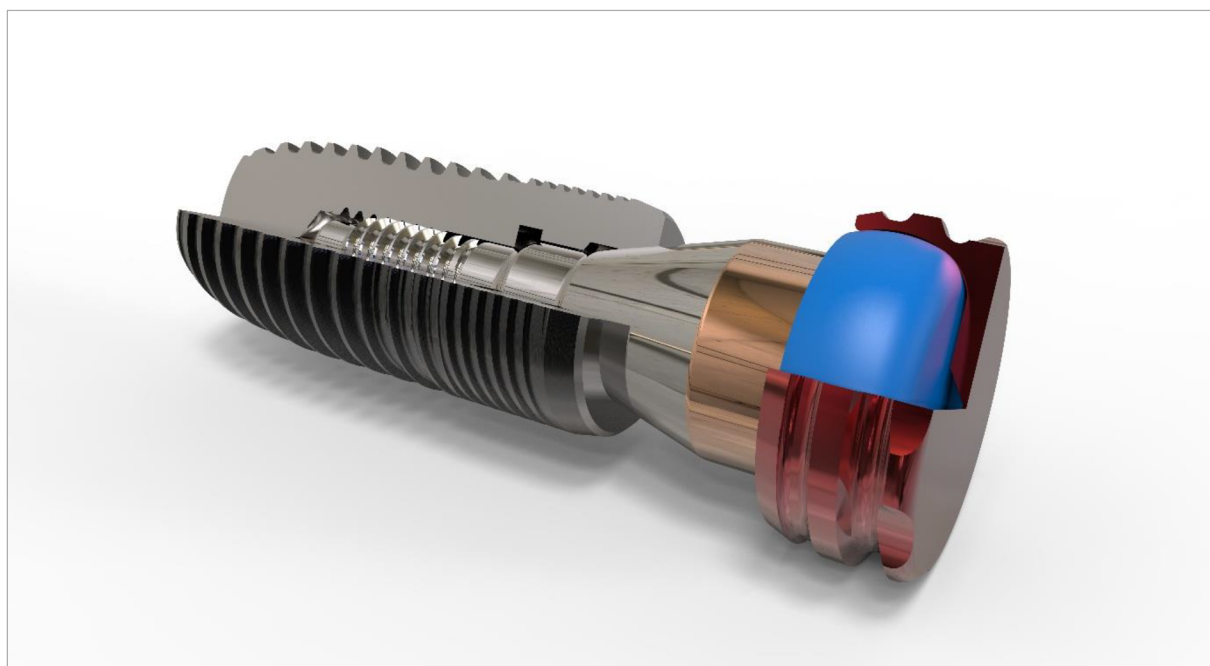


Secure the angle measuring aid with dental floss at the side holes to avoid aspiration.

# System parts Docklocs® compatible with Locator® Abutment MEGAGEN























## Docklocs® Abutment compatible with Locator® Abutment MEGAGEN AnyRidge®

Best. Nr.	Quantity pieces	Denomination		Material
MG0001.S MG0002.S MG0003.S MG0004.S MG0005.S	1 with Set A	Docklocs Abutment  GH 1.0 mm GH 2.0 mm GH 3.0 mm GH 4.0 mm GH 5.0 mm		Titanium Grade 5 (Ti6Al4V) zirconium carbonitride plating
MG0701.S MG0702.S MG0703.S	1 with Set B	Docklocs Abutment Angulation 18° Variant A <i>with fixing screw:</i> <i>1 piece AANMSF</i> <i>1 piece AANMST</i>  GH 1.5 mm GH 3.0 mm GH 4.5 mm	  Hexagon surface in the direction of angulation	Titanium Grade 5 (Ti6Al4V) zirconium carbonitride plating
MG0801.S MG0802.S MG0803.S	1 with Set B	Docklocs Abutment Angulation 18° Variant B <i>with fixing screw:</i> <i>1 piece AANMSF</i> <i>1 piece AANMST</i>  GH 1.5 mm GH 3.0 mm GH 4.5 mm	  hexagon tip in the direction of angulation	Titanium Grade 5 (Ti6Al4V) zirconium carbonitride plating







# System parts and supplies



## Docklocs® Supplies

Best. Nr.	Quantity pieces	Denomination		Material
A0001.S	8	Docklocs Replacement male, grey, none (0) retention		Polyamid
A0002.S	8	Docklocs Replacement male, blue, extra-light retention, 0°-10°		Polyamid
A0003.S	8	Docklocs Replacement male, pink, light retention, 0°-10°		Polyamid
A0004.S	8	Docklocs Replacement male, clear, strong retention, 0°-10°		Polyamid
A0005.S	8	Docklocs Replacement male, red, extra-light retention, 10°-20°		Polyamid
A0006.S	8	Docklocs Replacement male, orange, light retention, 10°-20°		Polyamid
A0007.S	8	Docklocs Replacement male, green, strong retention, 10°-20°		Polyamid
A0008.S	8	Docklocs processing insert black (not suitable for long-term use)		HD-PE Purell
A0009.S	20	Docklocs Blockout Ring		Santoprene® TPE
A0010.S	4	Metal housing titanium with processing insert		Housing Titanium G5 HD-PE Purell
A0030.S	2	Metal housing zirconium with processing insert		Housing ZrO <sub>2</sub> HD-PE Purell
A0012.S	4	Docklocs Spacer sleeve		Hostaform® POM
A0013	1	Docklocs angle measuring aid		Steel
A0014.S	4	Docklocs lab analog straight		Titanium Grade 5
A0026.S	4	Docklocs lab analog angled 18		Titanium Grade 5
A0015.S	4	Docklocs impression coping with black processing insert		Housing Titanium G5 HD-PE Purell
A0016.S	4	Docklocs Parallelization Posts		HD-PE Purell
A0019	1	Docklocs Universal Instrument Practice		Steel Silicone
A0020	1	Docklocs universal instrument four-part		Steel ZrCN (rotgold) PEEK /Silikon
A0022	1	Screwdriver for Docklocs Abutments with shank for contra-angled handpieces		Steel
A0023	1	Screwdriver with holding sleeve for Docklocs Abutments with shank for contra-angled handpieces		Steel PEEK
A0025	1	Hex Screwdriver 1.25mm for Docklocs abutments and retaining screws with shank for contra-angled handpieces		Steel



## Docklocs® supplies

A0050.S.T	1	Docklocs® laboratory set, up to 20° divergence compensation: 2 metal housings (Ø 5.5 mm, height 2.5 mm) with black process insert (height 1.9 mm), 2 pieces block-out ring (A0009), 2 pieces replacement males, transparent (A0004), 2 pieces replacement males, pink (A0003), 2 pieces replacement males, blue (A0002)	
A0051.S.T	1	Docklocs® laboratory set, up to 40° divergence compensation: 2 metal housings (Ø 5.5 mm, height 2.5 mm) with black process insert (height 1.9 mm), 2 pieces block-out ring (A0009), 2 pieces replacement males, green (A0007), 2 pieces replacement males, orange (A0006), 2 pieces replacement males, red (A0005),	
A0052.S.T	1	Docklocs® laboratory set, up to 20° divergence compensation: 2 metal housings zirconium (Ø 5.8 mm, height 2.5 mm) with black process insert (height 1.9 mm), 2 pieces block-out ring (A0009), 2 pieces replacement males, transparent (A0004), 2 pieces replacement males, pink (A0003), 2 pieces replacement males, blue (A0002)	
A0053.S.T	1	Docklocs® laboratory set, up to 40° divergence compensation: 2 metal housings zirconium (Ø 5.8 mm, height 2.5 mm) with black process insert (height 1.9 mm), 2 pieces block-out ring (A0009), 2 pieces replacement males, green (A0007), 2 pieces replacement males, orange (A0006), 2 pieces replacement males, red (A0005),	

## Docklocs® Abutments all-in-one packaging

Set A	<p>Docklocs® Abutment Set A, one-piece abutment</p> <p>1 piece Docklocs Abutment (xxxxxx)</p> <p>1 metalhousing (Ø 5.5 mm, height 2.5 mm) with black processing insert</p> <p>1 block-out ring (A0009),</p> <p>1 Docklocs parallelization post (A0016)</p> <p>1 replacement male, blue (A0002),</p> <p>1 replacement male, pink (A0003),</p> <p>1 replacement male, transparent (A0004),</p> <p>1 replacement male, red (A0005),</p> <p>1 replacement male, orange (A0006),</p> <p>1 replacement male, green (A0007),</p> <p>(the black processing insert is not suitable for permanent use in the mouth)</p>	
Set B	<p>Docklocs® Abutment Set B, abutment with retaining screw</p> <p>1 piece Docklocs Abutment, angulation 18° (xxxxxx)</p> <p>1 piece Docklocs retaining screw (A01xx)</p> <p>1 holding pin (E0000),</p> <p>1 metal housing (Ø 5.5 mm, height 2.5 mm) with black processing insert,</p> <p>1 block-out ring (A0009),</p> <p>1 Docklocs parallelization post (A0016)</p> <p>1 replacement male, red (A0005),</p> <p>1 replacement male, orange (A0006),</p> <p>1 replacement male, green (A0007),</p> <p>(the black processing insert is not suitable for permanent use in the mouth)</p>	

## Retaining screws

Best. Nr.	Anzahl Stück	Beschreibung		Material
AANMST	1	Fixing screw M1,8 mm blue		Titanium Grade 5 (Ti6Al4V)
AANMSF	1	Fixing screw M1,8mm yellow		Titanium Grade 5 (Ti6Al4V)



# MEDEALIS

PROFESSIONAL DENTAL SYSTEM





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