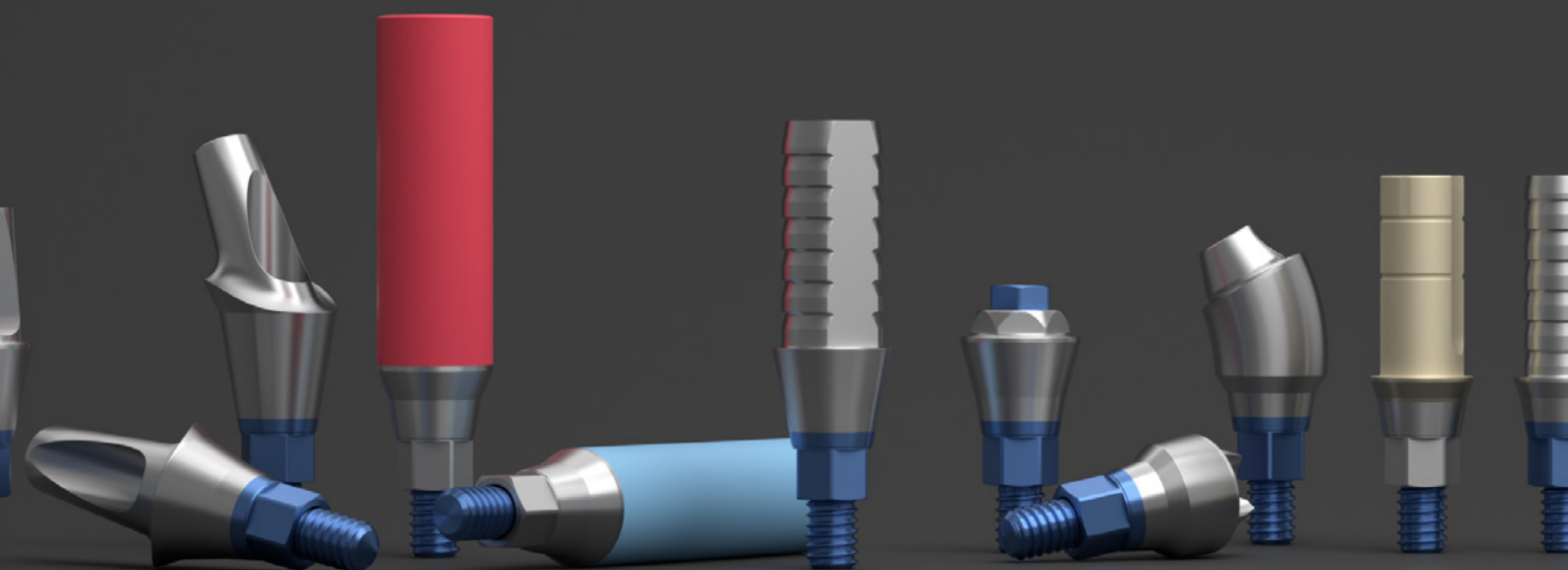




VEGA® · VEGA®+

RV PROSTHETIC SYSTEM

K **KLOCKNER®**

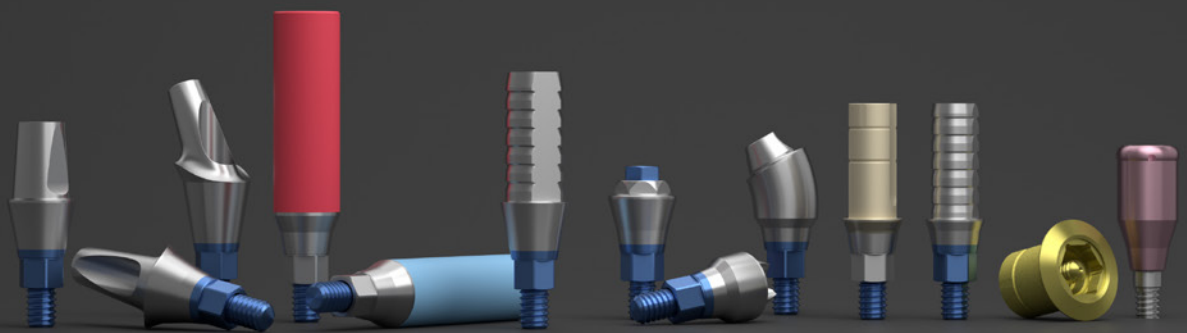
**Freedom
is not
fixed**



VEGA® · VEGA®+

RV PROSTHETIC SYSTEM

PROSTHETIC SOLUTIONS	4-5
RV PROSTHETIC SOLUTIONS	6-23
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VEGA® is the platform switching implant of the KLOCKNER® IMPLANT SYSTEM for crestal level placement to individualise the treatment of hard and soft tissues.

RV PROSTHETIC SOLUTIONS

STRAIGHT 2° AND 4°	CEMENTED
ANGLED 15°	CEMENTED
ANGLED 25°	CEMENTED
GOLD	SCREW-MOUNTED / CEMENTED
CoCr	SCREW-MOUNTED / CEMENTED
TITANIUM BASE MEDPROTIBASE®	SCREW-MOUNTED / CEMENTED
Ti	TEMPORARY
K-LOCK®	OVERDENTURES

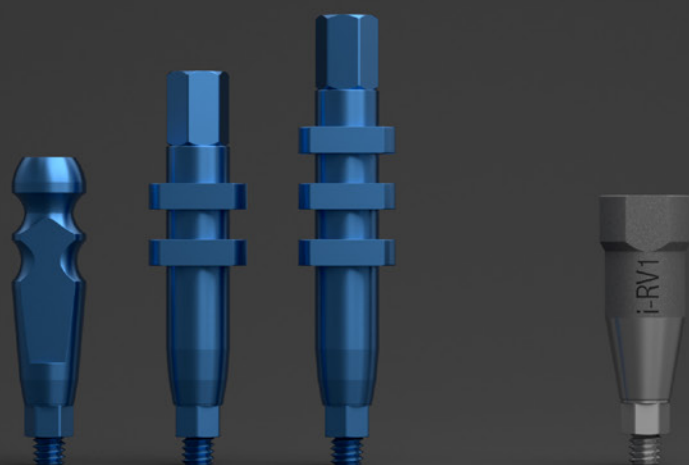
PROSTHETIC SOLUTIONS RV MIMETIC®

MIMETIC®	TEMPORARY
MIMETIC® TITANIUM BASE	SCREW-MOUNTED / CEMENTED

PERMANENT® RV PROSTHETIC SOLUTIONS

STRAIGHT	SCREW-MOUNTED
ANGLED 18°	SCREW-MOUNTED
ANGLED 30°	SCREW-MOUNTED
TITANIUM BASE	SCREW-MOUNTED

The PERMANENT® abutment can be placed on the day of implant insertion.



IMPRESSION COPING ANALOGUE

- 18 09 12 VEGA® RV ABUTMENT ANALOG [CLOSED TRAY]
- 18 09 13 VEGA® RV ABUTMENT ANALOG [OPEN TRAY]
- 18 09 13 L VEGA® RV LONG ABUTMENT ANALOG [OPEN TRAY]
- 18 09 13.2 XL VEGA® RV EXTRA LONG ABUTMENT ANALOG SCREW [OPEN TRAY]
- 18 09 21 VEGA® RV IMPLANT ANALOG

18 09 12



18 09 13.2 XL



18 09 13



18 09 13 L



18 09 21



WARNINGS

18 09 12

In case of a single unit, check that the flat faces are perfectly recorded in the impression.

18 09 13 / 18 09 13 L

Keep the screw area clear, removing any excess impression material before it sets.

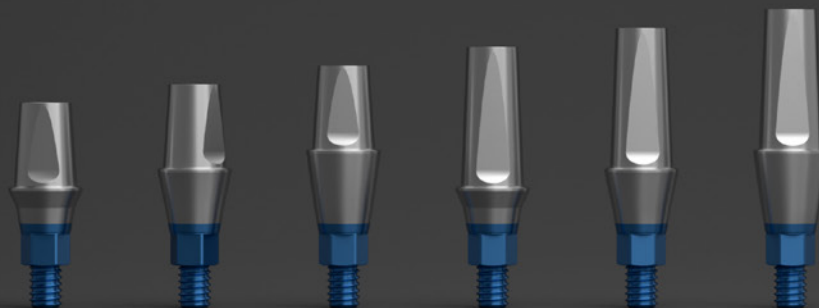
According to the relationship between the antagonist and adjacent teeth, the gingival height, select the appropriate transfer, long or short, according to product availability. The correct transfer seating in the implant and/or abutment must be confirmed when choosing the direct impression technique for the latter.

IMPRESSION COPING DIGITAL

82 21 01 02 i-RV 1 SCAN ABUTMENT

82 21 01 02

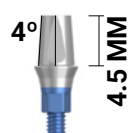




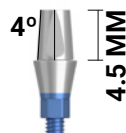
STRAIGHT 2° AND 4° CEMENTED

18 10 48	VEGA® RV STRAIGHT ABUTMENT [AT1-AP4.5]	18 10 66	VEGA® RV STRAIGHT ABUTMENT [AT1-AP 7.5]
18 10 49	VEGA® RV STRAIGHT ABUTMENT [AT2-AP4.5]	18 10 67	VEGA® RV STRAIGHT ABUTMENT [AT2-AP7.5]
18 10 50	VEGA® RV STRAIGHT ABUTMENT [AT3-AP4.5]	18 10 68	VEGA® RV STRAIGHT ABUTMENT [AT3-AP7.5]

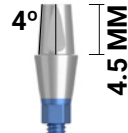
18 10 48



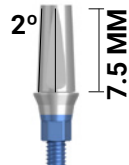
18 10 49



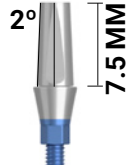
18 10 50



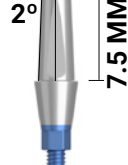
18 10 66



18 10 67



18 10 68

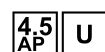


WARNINGS

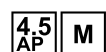
Do not drill at a height below 4 mm.

18 12 11	VEGA® RV CASTABLE ABUTMENT FOR STRAIGHT ABUTMENT [U-AP4.5]
18 12 12	VEGA® RV CASTABLE ABUTMENT FOR STRAIGHT ABUTMENT [M-AP4.5]

18 12 11



18 12 12



18 11 02

VEGA® RV STAR SCREW

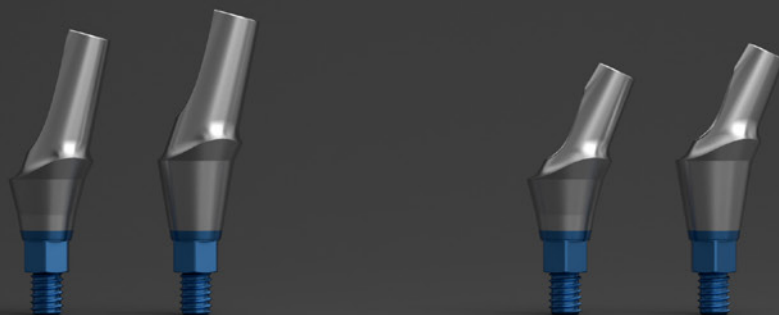


STRAIGHT 2° AND 4°
ANGLED 15°
ANGLED 25°
GOLD
CoCr

TITANIUM BASE
TI

PERMANENT® ANGLED

Do not apply tightening forces to the abutments and/or screws during the manufacturing process of the prosthesis. During final insertion of the prosthesis, a torque of 30 Ncm must be applied to all abutments and 15 Ncm to superstructure fixation screws Ref. 10 11 21. The abutments include screw Ref. 18 11 02.



RV PROSTHETIC SOLUTIONS

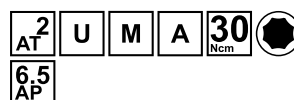
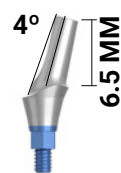
ANGLED 15° CEMENTED

18 10 55 VEGA® RV 15° ANGLED ABUTMENT [AT2-AP6.5]
18 10 56 VEGA® RV 15° ANGLED ABUTMENT [AT3-AP6.5]

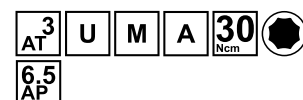
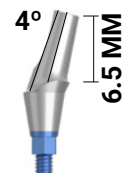
WARNINGS

Do not drill at a height below 4 mm.

18 10 55



18 10 56



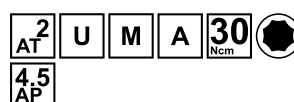
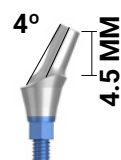
ANGLED 25° CEMENTED

18 10 57 VEGA® RV 25° ANGLED ABUTMENT [AT2-AP4.5]
18 10 58 VEGA® RV 25° ANGLED ABUTMENT [AT3-AP4.5]

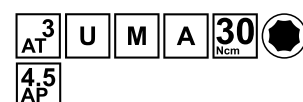
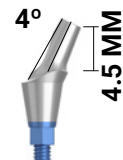
WARNINGS

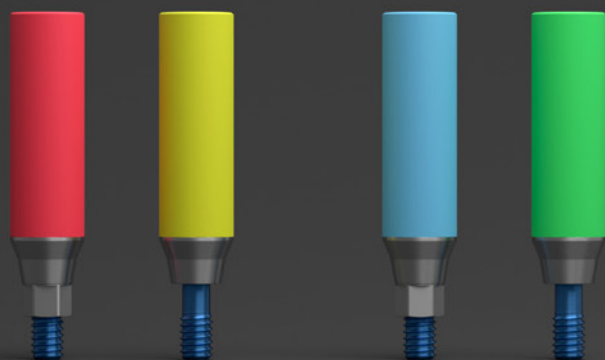
Do not drill at a height below 4 mm.

18 10 57



18 10 58





RV PROSTHETIC SOLUTIONS

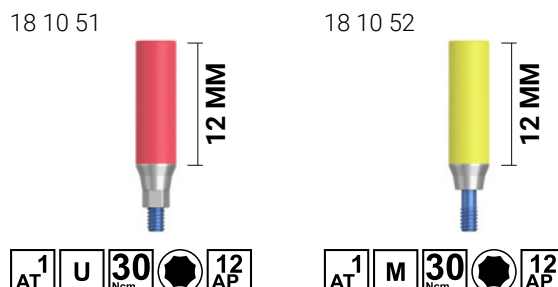
GOLD SCREW-MOUNTED / CEMENTED

18 10 51 VEGA® RV GOLD ABUTMENT [U-AT1-AP12]
18 10 52 VEGA® RV GOLD ABUTMENT [M-AT1-AP12]

SPECIFICATIONS OF GOLD SOLUTIONS

Composition	Au-60%, Pt-19%, Pd-20%, Ir-1%
Melting range	1415 - 1495 °C
Thermal expansion	[CTE 25-600°C] 12.2 µm/m°C
Colour	Red (18 10 51) / Yellow (18 10 52)
Elasticity limit	(Rp 0.2 %) >640 N/m2
Vickers Hardness Test	>230
Elongation	>2 %
Mass 18 10 51	0.53 gr*

*INDICATIVE MASSES. DEPENDS ON MANUFACTURING CHARACTERISTICS.



WARNINGS

An alloy must be chosen for cast-to, pursuant to ISO 9693-1 and ISO 22674 standards. The gold base abutment can be trimmed to a maximum of 4 mm from the connection gap, and the diameter of that zone must not be lowered in order to avoid exposure of the metal. The maximum length of the restoration must not exceed 14 mm. The maximum angulation or tilt must be less than 30° with respect to the dental implant axis. See metal specifications.

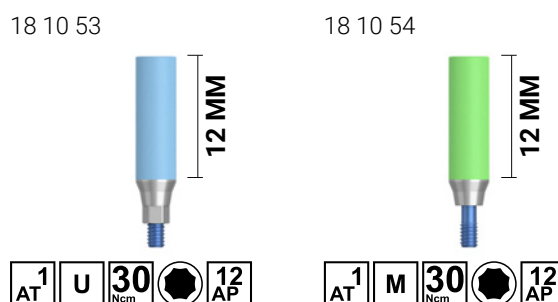
CoCr SCREW-MOUNTED / CEMENTED

18 10 53 VEGA® RV CoCr ABUTMENT [U-AT1-AP12]
18 10 54 VEGA® RV CoCr ABUTMENT [M-AT1-AP12]

SPECIFICATIONS OF CoCr SOLUTIONS

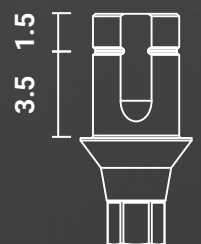
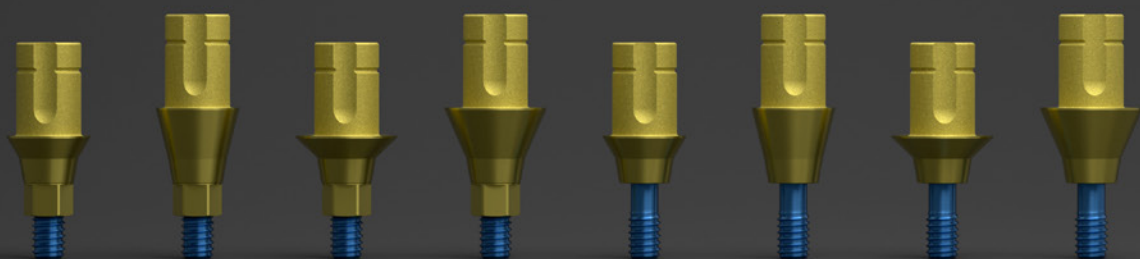
Composition	Cr 26.00 - 30.00%, Mo 5.00 - 7.00%, Si ≤ 1.00%, Mn ≤ 1.00%, Ni ≤ 1.00%, Fe ≤ 0.75%, N ≤ 0.25%, C ≤ 0.14%, Co (balance)
Melting range	1390 - 1415 °C
Coefficient of thermal expansion	13.2 µm/m°C
Colour	Blue (18 10 53) / Green (18 10 54)
Elasticity limit	(Rp 0.2 %) >827 Mpa
Vickers Hardness Test	>320 HV10
Elongation	>12 %
Mass 18 10 53	0.25 gr*

*INDICATIVE MASSES. DEPENDS ON MANUFACTURING CHARACTERISTICS.



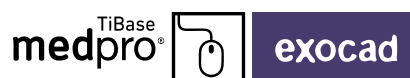
WARNINGS

An alloy must be chosen for cast-to, pursuant to ASTM F1537 and ISO 5832-12 standards. The CoCr base abutment can be trimmed to a maximum of 4 mm from the connection gap, and the diameter of that zone must not be reduced in order to avoid exposure of the metal. The maximum length of the restoration must not exceed 14 mm. The maximum angulation or tilt must be less than 30° with respect to the dental implant axis. See metal specifications.



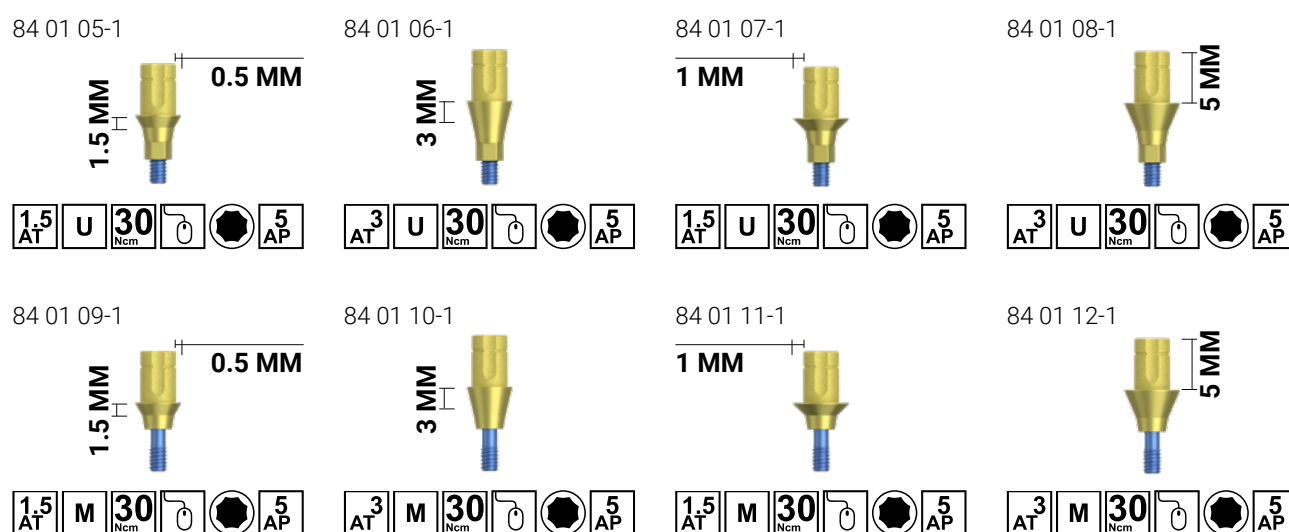
RV PROSTHETIC SOLUTIONS

TITANIUM BASE SCREW-MOUNTED / CEMENTED



84 01 05-1 VEGA® RV KLOCKNER® MEDPROTIBASE® [U-AT1.5-A0.5]
 84 01 06-1 VEGA® RV KLOCKNER® MEDPROTIBASE® [U-AT3-A0.5]
 84 01 07-1 VEGA® RV KLOCKNER® MEDPROTIBASE® [U-AT1.5-A1]
 84 01 08-1 VEGA® RV KLOCKNER® MEDPROTIBASE® [U-AT3-A1]

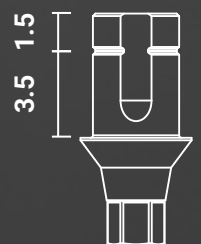
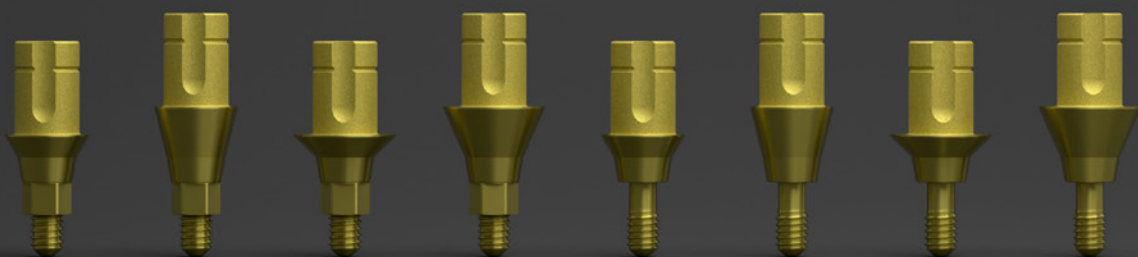
84 01 09-1 VEGA® RV KLOCKNER® MEDPROTIBASE® [M-AT1.5-A0.5]
 84 01 10-1 VEGA® RV KLOCKNER® MEDPROTIBASE® [M-AT3-A0.5]
 84 01 11-1 VEGA® RV KLOCKNER® MEDPROTIBASE® [M-AT1.5-A1]
 84 01 12-1 VEGA® RV KLOCKNER® MEDPROTIBASE® [M-AT3-A1]



WARNINGS

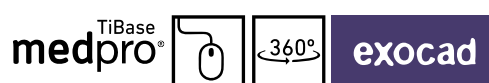
The MEDPROTIBASE® abutments have a prosthetic height of 5 mm and an identification marking at 3.5 mm. All abutments with an identification marking can be drilled through the marking if necessary.





RV PROSTHETIC SOLUTIONS

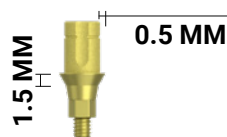
TITANIUM BASE SCREW-MOUNTED / CEMENTED



84 01 05-2 VEGA® RV KLOCKNER® MEDPROTIBASE® [U-AT1.5-A0.5] MP360
 84 01 06-2 VEGA® RV KLOCKNER® MEDPROTIBASE® [U-AT3-A0.5] MP360
 84 01 07-2 VEGA® RV KLOCKNER® MEDPROTIBASE® [U-AT1.5-A1] MP360
 84 01 08-2 VEGA® RV KLOCKNER® MEDPROTIBASE® [U-AT3-A1] MP360

84 01 09-2 VEGA® RV KLOCKNER® MEDPROTIBASE® [M-AT1.5-A0.5] MP360
 84 01 10-2 VEGA® RV KLOCKNER® MEDPROTIBASE® [M-AT3-A0.5] MP360
 84 01 11-2 VEGA® RV KLOCKNER® MEDPROTIBASE® [M-AT1.5-A1] MP360
 84 01 12-2 VEGA® RV KLOCKNER® MEDPROTIBASE® [M-AT3-A1] MP360

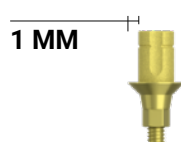
84 01 05-2



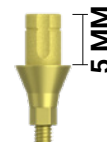
84 01 06-2



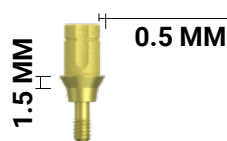
84 01 07-2



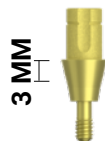
84 01 08-2



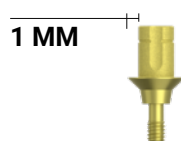
84 01 09-2



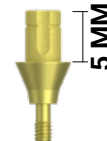
84 01 10-2



84 01 11-2



84 01 12-2



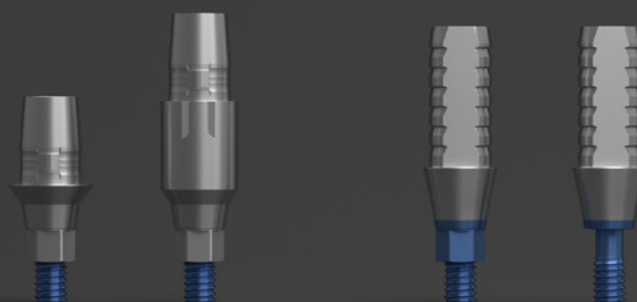
The MEDPRO360° titanium bases include screw 86 001 10 VEGA® RV KLOCKNER® MEDPRO360° SCREW

WARNINGS

The MEDPROTIBASE® abutments have a prosthetic height of 5 mm and an identification marking at 3.5 mm. All abutments with an identification marking can be drilled through the marking if necessary.



Cerec® is a registered trademark of Sirona Dental Systems GmbH, Germany.

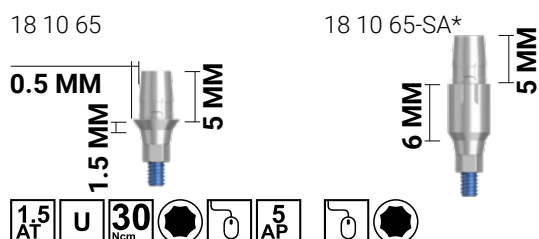


RV PROSTHETIC SOLUTIONS

TITANIUM BASE FOR CEREC® SCREW-MOUNTED / CEMENTED



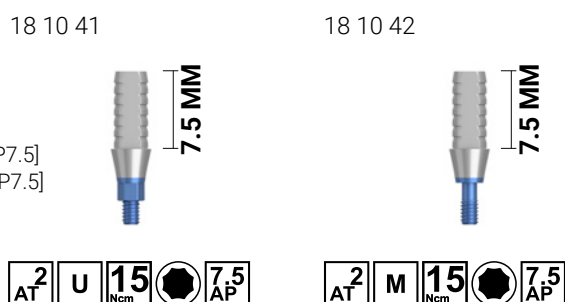
18 10 65 VEGA® RV TIBASE ABUTMENT [U-AT1.5-AP5]
18 10 65-SA* VEGA® RV TIBASE SCAN ABUTMENT



*The Ti-Base scan abutments are indicated for digital scanning of the position of the KLOCKNER® IMPLANT SYSTEM implants using the CEREC® system.

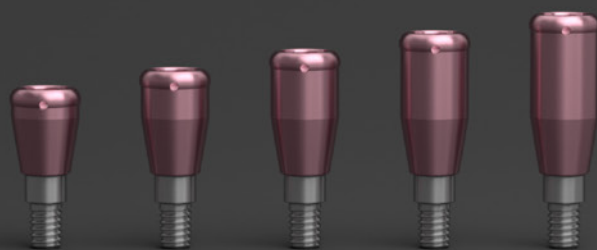
Ti TEMPORARY

18 10 41 VEGA® RV TITANIUM TEMPORARY ABUTMENT [U-AT2-AP7.5]
18 10 42 VEGA® RV TITANIUM TEMPORARY ABUTMENT [M-AT2-AP7.5]



WARNINGS

Manufactured in titanium, they must be drilled with appropriate drills. Provisional solutions must remain in the mouth for a maximum of 90 days. The torque to be applied for final placement is 15 Ncm.



RV PROSTHETIC SOLUTIONS

The different transmucosal heights allow a tighter selection of the appropriate abutment.

The surface treatment offers mechanical properties such as resistance to abrasion, surface hardness, as well as total safety against cytotoxicity. [1][2]

K-LOCK® ABUTMENT · CONNECTORS

18 16 41	VEGA® RV K-LOCK® ATTACHMENT [M-AT2-AP1]
18 16 42	VEGA® RV K-LOCK® ATTACHMENT [M-AT3-AP1]
18 16 43	VEGA® RV K-LOCK® ATTACHMENT [M-AT4-AP1]
18 16 44	VEGA® RV K-LOCK® ATTACHMENT [M-AT5-AP1]
18 16 45	VEGA® RV K-LOCK® ATTACHMENT [M-AT6-AP1]

18 16 41



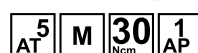
18 16 42



18 16 43



18 16 44



18 16 45



99 16 11-S	K-LOCK® DENTURE PROCESSING PACK (2 PACK)
99 16 13-S	K-LOCK® EXTENDED PIVOT DENTURE PROCESSING PACK (2 PACK)

99 16 11-S



99 16 13-S



99 16 15-S	K-LOCK® DENTURE PACK ASSEMBLY (4 PACK)
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99 16 23-S	K-LOCK® HIGH RETENTION REPLACEMENT INSERTS (CLEAR) (4 PACK)
99 16 22-S	K-LOCK® MEDIUM RETENTION REPLACEMENT INSERTS (PINK) (4 PACK)
99 16 21-S	K-LOCK® LOW RETENTION REPLACEMENT INSERTS (BLUE) (4 PACK)
99 16 27-S	K-LOCK® EXTENDED PIVOT HIGH RETENTION REPLACEMENT INSERTS (GREEN) (4 PACK)
99 16 25-S	K-LOCK® EXTENDED PIVOT LOW RETENTION REPLACEMENT INSERTS (RED) (4 PACK)
99 16 26-S	K-LOCK® EXTENDED PIVOT MEDIUM RETENTION REPLACEMENT INSERTS (ORANGE) (4 PACK)

99 16 15-S



99 16 23-S



99 16 22-S



99 16 21-S



99 16 27-S



99 16 25-S



99 16 26-S



WARNINGS

Indicated for manufacturing implant-retained overdentures on VEGA® RV implants.

General comments: A torque of 30 Ncm must be applied during its final placement. The shoulder support of the retentive connector must remain exposed in all cases. The cavities that will completely house the retentive connectors must not be filled in as excess acrylic material is not advisable. It is preferable to use lingual canals to ensure that the excess material does not prevent correct seating of the overdentures. In case splinting of the connectors takes place in the mouth, a protector should be placed [for example, a rubber dam] to prevent possible excess resin from seeping under the neck of the K-LOCK® retentive abutment. The different transmucosal heights facilitate use of the K-LOCK® system in cases with either a fine gingival biotype or hypertrophic gums.



RV PROSTHETIC SOLUTIONS

99 16 29-S	K-LOCK® BLOCK-OUT SPACER (20 PACK)
99 16 32-S	K-LOCK® IMPRESSION COPING (4 PACK)
99 16 31-S	K-LOCK® ABUTMENT LAB ANALOG (4MM DIAMETER)(4 PACK)
99 16 41-S	K-LOCK® SYSTEM TOOL, 2-PIECE
99 16 42-S	K-LOCK® LATCH HANDPIECE DRIVER, TRI-LOBE
86 000 03	CONTRA ANGLE/RATCHET FOR TORQUE WRENCH ADAPTER

99 16 29-S



99 16 32-S



99 16 31-S



99 16 41-S



99 16 42-S



86 000 03



WARNINGS

Failure to follow the recommendations for use may cause an early deterioration of the system. Failure to secure the instruments in the mouth can lead to loosening in the oral cavity and accidental swallowing or aspiration of same. KLOCKNER® implant system declines any liability for damages resulting from failure to comply with the instructions for use.





MIMETIC® RV PROSTHETIC SOLUTIONS®

MIMETIC® is a family of attachments that includes the healing abutment, the temporary abutment and the titanium base.

They have been designed with a unique emergence profile in all three phases, healing (healing abutment), provisionalisation (temporary abutment) and final restoration (titanium base) in order to maintain and care for the soft tissue from implant placement to final restoration. In addition, it facilitates the restorative process without creating unnecessary pressure on the soft tissue when changing attachments.

The maximum diameter is 3.6 mm in all cases, being a narrow emergence that allows its use in reduced interproximal spaces. Available in three transmucosal heights, 1, 2, 3 mm.

Libraries have been developed to include them in digital flows both in the laboratory and in the clinic and are available for the main CAD design programmes.

MIMETIC® TEMPORARY



- 18 14 37 P VEGA® RV MIMETIC® TITANIUM TEMPORARY ABUTMENT [U-AT1-AP7]
- 18 14 38 P VEGA® RV MIMETIC® TITANIUM TEMPORARY ABUTMENT [U-AT2-AP7]
- 18 14 39 P VEGA® RV MIMETIC® TITANIUM TEMPORARY ABUTMENT [U-AT3-AP7]

18 14 37 P



18 14 38 P



18 14 39 P



Temporary abutments and Tibase abutments are delivered with screws 18 11 02

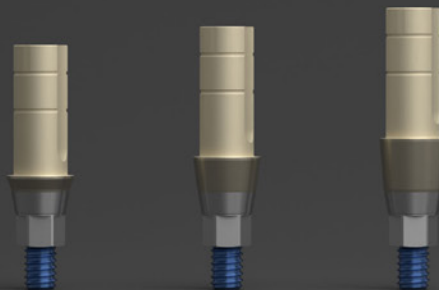
18 11 02 VEGA® RV STAR SCREW



WARNINGS

Manufactured in titanium, they must be drilled with appropriate drills. Provisional solutions must remain in the mouth for a maximum of 90 days. The torque to be applied for final placement is 15 Ncm.





SOLUCIONES PROTÉSICAS RV MIMETIC®

The MIMETIC® titanium base incorporates an innovative light gold surface treatment that mimics the natural tooth colour while providing enhanced mechanical and biological properties [1] [2].

MIMETIC® titanium bases have a prosthetic height of 7 mm and two identification marks at 3.5 and 5 mm. All abutments with identification markings can be milled by the marking if required.

MIMETIC® TITANIUM BASE



SCREW-MOUNTED / CEMENTED

- 18 14 37 VEGA® RV MIMETIC® TIBASE ABUTMENT [U-AT1-AP7]
18 14 38 VEGA® RV MIMETIC® TIBASE ABUTMENT [U-AT2-AP7]
18 14 39 VEGA® RV MIMETIC® TIBASE ABUTMENT [U-AT3-AP7]

18 14 37



18 14 38



18 14 39



Temporary abutments and Tibase abutments are delivered with screws 18 11 02

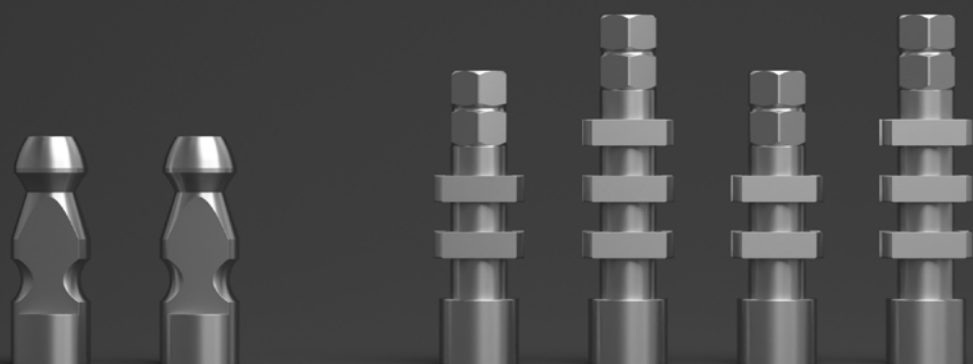
18 11 02 VEGA® RV STAR SCREW



WARNINGS

For the correct use of the MIMETIC® line solutions it is important to follow the correct compatibility between devices. For compatibility see the instructions for use at ifu.klockner.dental.





PERMANENT® RV PROSTHETIC SOLUTIONS

The PERMANENT® abutment can be positioned on the day of implant insertion, thereby facilitating work on the abutment in the prosthesis manufacturing process. The different transepithelial heights that are available facilitate abutment selection depending on the requirements of each case and according to the peri-implant soft tissue characteristics or treatment objectives. Using the final abutment from the moment the implant is placed helps preserve the crestal bone surrounding the implants, preventing its removal and placement during the different manufacturing stages of prosthetic restoration.

ANALOGUE IMPRESSIONS

- 18 09 08 ABUTMENT ANALOG FOR VEGA® PERMANENT® [U-CLOSED TRAY]
- 18 09 07 ABUTMENT ANALOG FOR VEGA® PERMANENT® [M-CLOSED TRAY]
- 18 09 06 ABUTMENT ANALOG FOR VEGA® PERMANENT® [U-OPEN TRAY]
- 18 09 06 L LONG ABUTMENT ANALOG FOR VEGA® PERMANENT® [U-OPEN TRAY]
- 18 09 05 ABUTMENT ANALOG FOR VEGA® PERMANENT® [M-OPEN TRAY]
- 18 09 05 L LONG ABUTMENT ANALOG FOR VEGA® PERMANENT® [M-OPEN TRAY]
- 18 09 04 VEGA® PERMANENT® IMPLANT AND ABUTMENT ANALOG

18 09 08



18 09 06



18 09 06 L



18 09 07



18 09 05



18 09 05 L



18 09 04



WARNINGS

18 09 08 / 18 09 07

In case of a single unit, check that the flat faces are perfectly recorded in the impression.

18 09 05 / 18 09 06

Keep the screw area clear, removing any excess impression material before it sets.

According to the relationship between the antagonist and adjacent teeth, the gingival height, select the appropriate transfer, long or short, according to product availability.

The correct transfer seating in the implant and/or abutment must be confirmed when choosing the direct impression technique for the latter.



DIGITAL IMPRESSIONS

82 02 01 05 i-PV 1 SCAN ABUTMENT
82 02 01 06 i-PV 2 SCAN ABUTMENT

82 02 01 05



82 02 01 06



The VEGA® implant, and the prosthetic components designed for restoration, aim to preserve the peri-implant bone and thus secure greater soft tissue stability - the main indication being in aesthetic locations within the mouth. This objective is optimised if insertion of the implant is combined with placement of the prosthesis abutment. The PERMANENT® abutments and family of components facilitate the restoration work, since removal once placed is not necessary when performing each of the prosthesis manufacturing steps.



PERMANENT® RV PROSTHETIC SOLUTIONS

PERMANENT® STRAIGHT SCREW-MOUNTED · SINGLE

18 10 70 U VEGA® RV STRAIGHT PERMANENT® ABUTMENT [U-AT1]
 18 10 71 U VEGA® RV STRAIGHT PERMANENT® ABUTMENT [U-AT2]
 18 10 72 U VEGA® RV STRAIGHT PERMANENT® ABUTMENT [U-AT3]

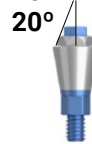
18 10 70 U



18 10 71 U



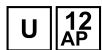
18 10 72 U



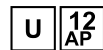
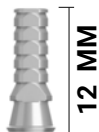
18 12 03 CASTABLE ABUTMENT FOR VEGA® PERMANENT® ABUTMENT [U]
 18 13 01 VEGA® PERMANENT® TITANIUM ABUTMENT [U-AP12]

10 11 21 MICRO STAR SCREW [EC-VEGA®-SK2]

18 12 03



18 13 01



10 11 21



WARNINGS

Tightening on the RV PERMANENT® abutments is to be avoided [maximum torque 5 Ncm] during the prosthesis manufacturing process until definitive insertion of the prosthesis, when the applicable torque is 30 Ncm. A torque of 15 Ncm must be applied to the superstructure fixation screws, the occlusal screw. Exceeding a torque of 15 Ncm can cause screw breakage. The PERMANENT® RV abutments [occlusal screw] are not drillable.

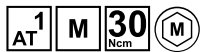


PERMANENT® RV PROSTHETIC SOLUTIONS

PERMANENT® STRAIGHT SCREW-MOUNTED · MULTIPLE

18 10 70 M VEGA® RV STRAIGHT PERMANENT® ABUTMENT [M-AT1]
 18 10 71 M VEGA® RV STRAIGHT PERMANENT® ABUTMENT [M-AT2]
 18 10 72 M VEGA® RV STRAIGHT PERMANENT® ABUTMENT [M-AT3]

18 10 70 M



18 10 71 M



18 10 72 M

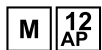
20°



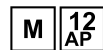
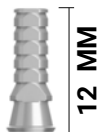
18 12 04 CASTABLE ABUTMENT FOR VEGA® PERMANENT® ABUTMENT [M]
 18 13 02 VEGA® PERMANENT® TITANIUM ABUTMENT [M-AP12]

10 11 21 MICRO STAR SCREW [EC-VEGA®-SK2]

18 12 04



18 13 02



10 11 21



WARNINGS

Tightening on the RV PERMANENT® abutments is to be avoided [maximum torque 5 Ncm] during the prosthesis manufacturing process until definitive insertion of the prosthesis, when the applicable torque is 30 Ncm. A torque of 15 Ncm must be applied to the superstructure fixation screws, the occlusal screw. Exceeding a torque of 15 Ncm can cause screw breakage. The PERMANENT® RV abutments [occlusal screw] are not drillable.

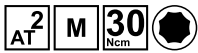


PERMANENT® RV PROSTHETIC SOLUTIONS

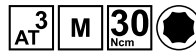
PERMANENT® ANGULATED 18° SCREW-MOUNTED

- 18 10 59 VEGA® RV 18° ANGLED PERMANENT® ABUTMENT [M-AT2]
 18 10 60 VEGA® RV 18° ANGLED PERMANENT® ABUTMENT [M-AT3]
 18 10 61 VEGA® RV 18° ANGLED PERMANENT® ABUTMENT [M-AT4]

18 10 59



18 10 60



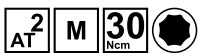
18 10 61



PERMANENT® ANGULATED 30° SCREW-MOUNTED

- 18 10 62 VEGA® RV 30° ANGLED PERMANENT® ABUTMENT [M-AT2]
 18 10 63 VEGA® RV 30° ANGLED PERMANENT® ABUTMENT [M-AT3]
 18 10 64 VEGA® RV 30° ANGLED PERMANENT® ABUTMENT [M-AT4]

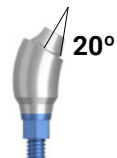
18 10 62



18 10 63



18 10 64



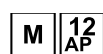
- 18 12 04 CASTABLE ABUTMENT FOR VEGA® PERMANENT® ABUTMENT [M]
 18 13 02 VEGA® PERMANENT® TITANIUM ABUTMENT [M-AP12]

- 10 11 21 MICRO STAR SCREW [EC-VEGA®-SK2]

18 12 04



18 13 02



10 11 21



The 18° and 30° PERMANENT® abutments include screw Ref. 18 11 02.

WARNINGS

Tightening on the RV PERMANENT® abutments is to be avoided [maximum torque 5 Ncm] during the prosthesis manufacturing process until definitive insertion of the prosthesis, when the applicable torque is 25 Ncm. A torque of 15 Ncm must be applied to the superstructure fixation screws, the occlusal screw. Exceeding a torque of 15 Ncm can cause screw breakage. The PERMANENT® RV abutments [occlusal screw] are not drillable.



PERMANENT® RV PROSTHETIC SOLUTIONS

PERMANENT® TITANIUM BASE SCREW-MOUNTED



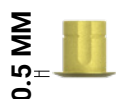
exocad

84 01 13-1	PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [U-AT0.5-A0.5]
84 01 14-1	PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [U-AT0.5-A1]
84 01 15-1	PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [M-AT0.5-A0.5]
84 01 16-1	PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [M-AT0.5-A1]

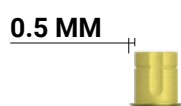
84 01 13-1



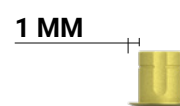
84 01 14-1



84 01 15-1



84 01 16-1



Titanium bases for PERMANENT® abutments include screw 10 11 21 MICRO STAR SCREW [EC-VEGA®-SK2]

PERMANENT® TITANIUM BASE SCREW-MOUNTED



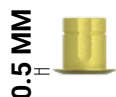
exocad

84 01 13-2	PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [U-AT0.5-A0.5] MP360
84 01 14-2	PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [U-AT0.5-A1] MP360
84 01 15-2	PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [M-AT0.5-A0.5] MP360
84 01 16-2	PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [M-AT0.5-A1] MP360

84 01 13-2



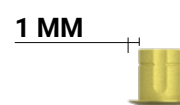
84 01 14-2



84 01 15-2



84 01 16-2

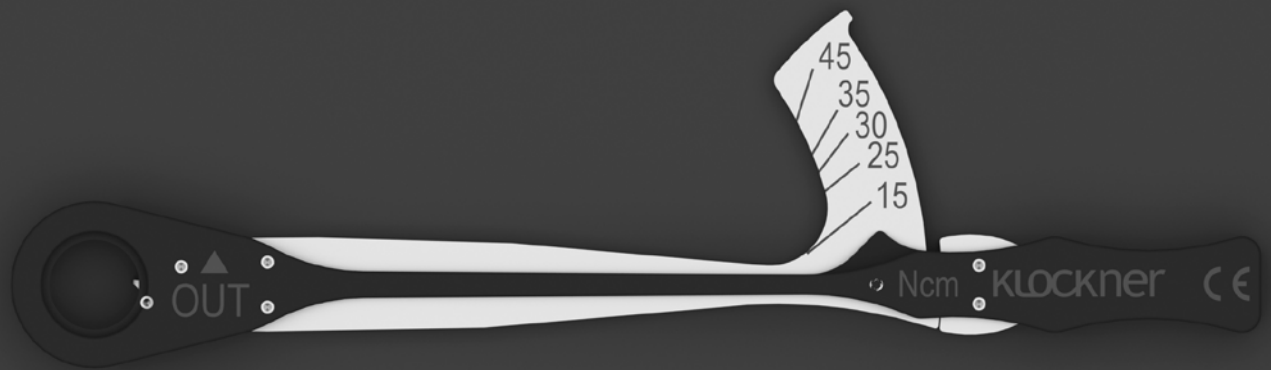


The MEDPRO360° titanium bases for PERMANENT® abutments include screw 86 001 03 MICRO [SK2-EC-KL-VEGA®] KLOCKNER® MEDPRO360° SCREW

WARNINGS

The MEDPROTIBASE® titanium bases make it possible to overcome aesthetic and functional challenges with an intuitive, validated and safe digital flow. The MEDPROTIBASE® bases have been designed for open digital flow in both the laboratory and the clinic and are available for the most popular CAD software solutions on the market.

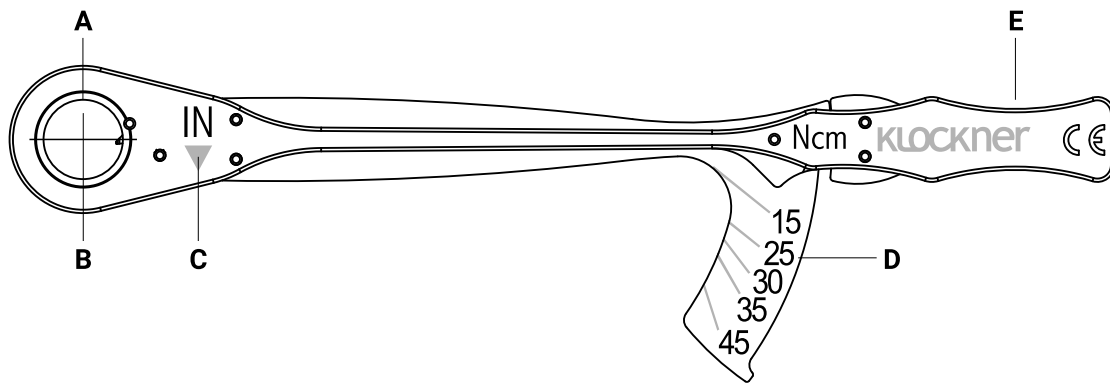




TORQUE WRENCH

The torque wrench is indicated for the surgical and prosthetic phase to tighten abutments and fixation screws in the final placing of the prosthesis on the implants. Manufactured in stainless steel and PEEK, it provides elasticity, mechanical resistance and lightness. It is easy to handle and, at the same time, provides a simple torque control. The torque scale makes it easy to control the torque, at 15 Ncm, 25 Ncm, 30 Ncm, 35 Ncm and 45 Ncm.

It can be used in both directions, rotating the wrench. In the head of the wrench it indicates the direction of the tightening [IN] and loosening [OUT]. The torque wrench can be sterilized in an autoclave. The wrench must be correctly stored and maintained [see instructions for use leaflet].



- A · ADAPTER FITTING AREA
- B · TRANSMISSION SHAFT
- C · WORKING DIRECTION INDICATOR [IN/OUT]
- D · TORQUE SCALE
- E · GRIP

EXTRACTION ADAPTERS

Made of stainless steel.

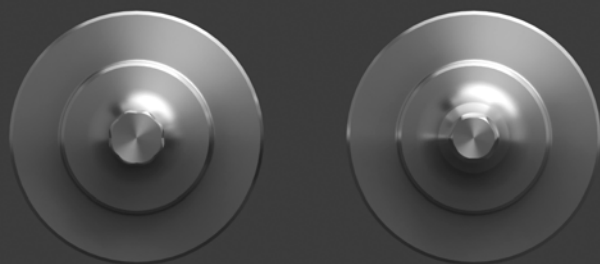
- 18 07 17 SHORT MANUAL EXTRACTOR WRENCH FOR VEGA® RV ABUTMENTS
- 18 07 18 LONG MANUAL EXTRACTOR WRENCH FOR VEGA® RV ABUTMENTS

18 07 17



18 07 18





SCREWDRIVERS TORQUE · CONTRA-ANGLE

SCREWDRIVERS

TORQUE WRENCH

Made of stainless steel.

- 18 07 30 VEGA® PERMANENT® ABUTMENT WRENCH [M]
- 18 07 31 VEGA® PERMANENT® ABUTMENT WRENCH [U]
- 10 08 11 EC-VEGA® STAR SCREWDRIVER FOR TORQUE WRENCH
- 10 08 11 L EC-VEGA® LONG STAR SCREWDRIVER FOR TORQUE WRENCH
- 10 08 14 EC-VEGA® EXTRA LONG STAR SCREWDRIVER FOR TORQUE WRENCH
- 50 08 04 VEGA®-KL HEXAGONAL 1.2MM LONG SCREWDRIVER FOR TORQUE WRENCH
- 50 08 05 VEGA®-KL HEXAGONAL 1.2MM SHORT SCREWDRIVER FOR TORQUE WRENCH
- 50 08 09 VEGA®-KL HEXAGONAL 1.2MM XL SCREWDRIVER FOR TORQUE WRENCH

18 07 30



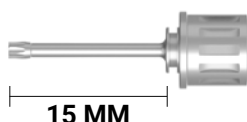
18 07 31



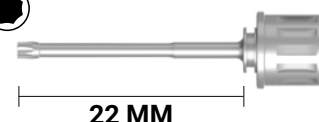
10 08 11



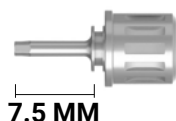
10 08 11 L



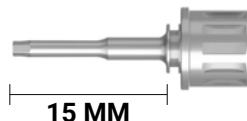
10 08 14



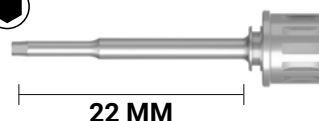
50 08 05



50 08 04



50 08 09

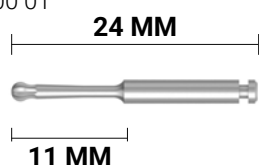


MEDPRO360°

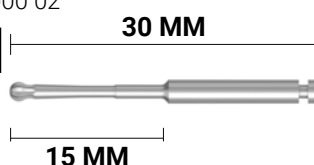
Made of stainless steel.

- 86 000 01 MEDPRO360° CONTRA ANGLE LONG SCREWDRIVER
- 86 000 02 MEDPRO360° CONTRA ANGLE EXTRA LONG SCREWDRIVER
- 86 000 03 CONTRA ANGLE/RATCHET FOR TORQUE WRENCH ADAPTER

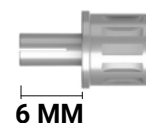
86 000 01



86 000 02



86 000 03



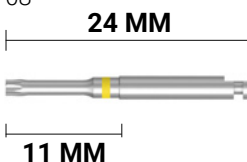
SCREWDRIVERS

CONTRA ÁNGULO

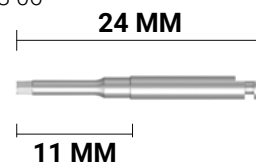
Made of stainless steel.

- 10 08 08 EC-VEGA® STAR CONTRA-ANGLE SCREWDRIVER
- 50 08 06 VEGA®-KL HEXAGONAL 1.2MM CONTRA-ANGLE SCREWDRIVER

10 08 08



50 08 06



PRODUCT WARNINGS

IMPRINTING

General comments:

- Individual trays must be used for impressions, made for each case.
- In addition, use quality materials and follow the manufacturer's instructions for use.
- Check that the implant connection is clean (blood, residue...).
- Take the necessary precautions to prevent elements from becoming detached in the oral cavity, with the risk of swallowing or aspiration of same.

VOIDING

Check the stability of the replica-transfer unit in the impression before removing. Use quality materials and follow the manufacturer's instructions for use.

RV ABUTMENTS

General comments:

- Do not apply tightening forces [maximum 5 Ncm] to the Abutments during the manufacturing process of the prosthesis until their final insertion, in which a torque of 25 Ncm should be applied.
- It is important to not exceed a torque of 25 Ncm.
- In case of provisional solutions, the torque to be applied for the placement is 15 Ncm.
- Use of the corresponding castable and reamer is crucial for obtaining a superstructure with an optimal fit.

LIST OF REFERENCES

IMPRESSION COPING

18 09 12	VEGA® RV ABUTMENT ANALOG [CLOSED TRAY]
18 09 13	VEGA® RV ABUTMENT ANALOG [OPEN TRAY]
18 09 13 L	VEGA® RV LONG ABUTMENT ANALOG [OPEN TRAY]
18 09 13.2 XL	VEGA® RV EXTRA LONG ABUTMENT ANALOG SCREW [OPEN TRAY]
18 09 21	VEGA® RV IMPLANT ANALOG

82 21 01 02	i-RV 1 SCAN ABUTMENT
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STRAIGHT 2° AND 4°

18 10 48	VEGA® RV STRAIGHT ABUTMENT [AT1-AP4.5]
18 10 49	VEGA® RV STRAIGHT ABUTMENT [AT2-AP4.5]
18 10 50	VEGA® RV STRAIGHT ABUTMENT [AT3-AP4.5]
18 10 66	VEGA® RV STRAIGHT ABUTMENT [AT1-AP7.5]
18 10 67	VEGA® RV STRAIGHT ABUTMENT [AT2-AP7.5]
18 10 68	VEGA® RV STRAIGHT ABUTMENT [AT3-AP7.5]
18 12 11	VEGA® RV CASTABLE ABUTMENT FOR STRAIGHT ABUTMENT [U-AP4.5]
18 12 12	VEGA® RV CASTABLE ABUTMENT FOR STRAIGHT ABUTMENT [M-AP4.5]

15°

18 10 55	VEGA® RV 15° ANGLED ABUTMENT [AT2-AP6.5]
18 10 56	VEGA® RV 15° ANGLED ABUTMENT [AT3-AP6.5]

25°

18 10 57	VEGA® RV 25° ANGLED ABUTMENT [AT2-AP4.5]
18 10 58	VEGA® RV 25° ANGLED ABUTMENT [AT3-AP4.5]

GOLD

18 10 51	VEGA® RV GOLD ABUTMENT [U-AT1-AP12]
18 10 52	VEGA® RV GOLD ABUTMENT [M-AT1-AP12]

CoCr

18 10 53	VEGA® RV CoCr ABUTMENT [U-AT1-AP12]
18 10 54	VEGA® RV CoCr ABUTMENT [M-AT1-AP12]

TITANIUM BASE

84 01 05-1	VEGA® RV KLOCKNER® MEDPROTIBASE® [U-AT1.5-A0.5]
84 01 06-1	VEGA® RV KLOCKNER® MEDPROTIBASE® [U-AT3-A0.5]
84 01 07-1	VEGA® RV KLOCKNER® MEDPROTIBASE® [U-AT1.5-A1]
84 01 08-1	VEGA® RV KLOCKNER® MEDPROTIBASE® [U-AT3-A1]
84 01 09-1	VEGA® RV KLOCKNER® MEDPROTIBASE® [M-AT1.5-A0.5]
84 01 10-1	VEGA® RV KLOCKNER® MEDPROTIBASE® [M-AT3-A0.5]
84 01 11-1	VEGA® RV KLOCKNER® MEDPROTIBASE® [M-AT1.5-A1]
84 01 12-1	VEGA® RV KLOCKNER® MEDPROTIBASE® [M-AT3-A1]
84 01 05-2	VEGA® RV KLOCKNER® MEDPROTIBASE® [U-AT1.5-A0.5] MP360
84 01 06-2	VEGA® RV KLOCKNER® MEDPROTIBASE® [U-AT3-A0.5] MP360
84 01 07-2	VEGA® RV KLOCKNER® MEDPROTIBASE® [U-AT1.5-A1] MP360
84 01 08-2	VEGA® RV KLOCKNER® MEDPROTIBASE® [U-AT3-A1] MP360
84 01 09-2	VEGA® RV KLOCKNER® MEDPROTIBASE® [M-AT1.5-A0.5] MP360
84 01 10-2	VEGA® RV KLOCKNER® MEDPROTIBASE® [M-AT3-A0.5] MP360
84 01 11-2	VEGA® RV KLOCKNER® MEDPROTIBASE® [M-AT1.5-A1] MP360
84 01 12-2	VEGA® RV KLOCKNER® MEDPROTIBASE® [M-AT3-A1] MP360
18 10 65	VEGA® RV TIBASE ABUTMENT [U-AT1.5-AP5]
18 10 65-SA	VEGA® RV TIBASE SCAN ABUTMENT

Ti

18 10 41	VEGA® RV TITANIUM TEMPORARY ABUTMENT [U-AT2-AP7.5]
18 10 42	VEGA® RV TITANIUM TEMPORARY ABUTMENT [M-AT2-AP7.5]
18 11 02	VEGA® RV STAR SCREW

86 001 03	MICRO [SK2-EC-KL-VEGA®] KLOCKNER® MEDPRO360° SCREW
86 001 10	VEGA® RV KLOCKNER® MEDPRO360° SCREW

MIMETIC®

MIMETIC®

18 14 37 P	VEGA® RV MIMETIC® TITANIUM TEMPORARY ABUTMENT [U-AT1-AP7]
18 14 38 P	VEGA® RV MIMETIC® TITANIUM TEMPORARY ABUTMENT [U-AT2-AP7]
18 14 39 P	VEGA® RV MIMETIC® TITANIUM TEMPORARY ABUTMENT [U-AT3-AP7]

MIMETIC® TITANIUM BASE

18 14 37	VEGA® RV MIMETIC® TIBASE ABUTMENT [U-AT1-AP7]
18 14 38	VEGA® RV MIMETIC® TIBASE ABUTMENT [U-AT2-AP7]
18 14 39	VEGA® RV MIMETIC® TIBASE ABUTMENT [U-AT3-AP7]

PERMANENT®

IMPRESSION COPING

18 09 08	ABUTMENT ANALOG FOR VEGA® PERMANENT® [U-CLOSED TRAY]
18 09 07	ABUTMENT ANALOG FOR VEGA® PERMANENT® [M-CLOSED TRAY]
18 09 06	ABUTMENT ANALOG FOR VEGA® PERMANENT® [U-OPEN TRAY]
18 09 06 L	LONG ABUTMENT ANALOG FOR VEGA® PERMANENT® [U-OPEN TRAY]
18 09 05	ABUTMENT ANALOG FOR VEGA® PERMANENT® [M-OPEN TRAY]
18 09 05 L	LONG ABUTMENT ANALOG FOR VEGA® PERMANENT® [M-OPEN TRAY]
18 09 04	VEGA® PERMANENT® IMPLANT AND ABUTMENT ANALOG

82 02 01 05	i-PV 1 SCAN ABUTMENT
82 02 01 06	i-PV 2 SCAN ABUTMENT

STRAIGHT

18 10 70 U	VEGA® RV STRAIGHT PERMANENT® ABUTMENT [U-AT1]
18 10 71 U	VEGA® RV STRAIGHT PERMANENT® ABUTMENT [U-AT2]
18 10 72 U	VEGA® RV STRAIGHT PERMANENT® ABUTMENT [U-AT3]
18 10 70 M	VEGA® RV STRAIGHT PERMANENT® ABUTMENT [M-AT1]
18 10 71 M	VEGA® RV STRAIGHT PERMANENT® ABUTMENT [M-AT2]
18 10 72 M	VEGA® RV STRAIGHT PERMANENT® ABUTMENT [M-AT3]

18°

18 10 59	VEGA® RV 18° ANGLED PERMANENT® ABUTMENT [M-AT2]
18 10 60	VEGA® RV 18° ANGLED PERMANENT® ABUTMENT [M-AT3]
18 10 61	VEGA® RV 18° ANGLED PERMANENT® ABUTMENT [M-AT4]

30°

18 10 62	VEGA® RV 30° ANGLED PERMANENT® ABUTMENT [M-AT2]
18 10 63	VEGA® RV 30° ANGLED PERMANENT® ABUTMENT [M-AT3]
18 10 64	VEGA® RV 30° ANGLED PERMANENT® ABUTMENT [M-AT4]
18 12 03	CASTABLE ABUTMENT FOR VEGA® PERMANENT® ABUTMENT [U]
18 13 01	VEGA® PERMANENT® TITANIUM ABUTMENT [U-AP12]

18 12 04	CASTABLE ABUTMENT FOR VEGA® PERMANENT® ABUTMENT [M]
18 13 02	VEGA® PERMANENT® TITANIUM ABUTMENT [M-AP12]

TITANIUM BASE

84 01 13-1	PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [U-AT0.5-A0.5]
84 01 14-1	PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [U-AT0.5-A1]
84 01 15-1	PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [M-AT0.5-A0.5]
84 01 16-1	PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [M-AT0.5-A1]
84 01 13-2	PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [U-AT0.5-A0.5] MP360
84 01 14-2	PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [U-AT0.5-A1] MP360
84 01 15-2	PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [M-AT0.5-A0.5] MP360
84 01 16-2	PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [M-AT0.5-A1] MP360

10 11 21	MICRO STAR SCREW [EC-VEGA®-SK2]
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K-LOCK®

18 16 41	VEGA® RV K-LOCK® ATTACHMENT [M-AT2-AP1]
18 16 42	VEGA® RV K-LOCK® ATTACHMENT [M-AT3-AP1]
18 16 43	VEGA® RV K-LOCK® ATTACHMENT [M-AT4-AP1]
18 16 44	VEGA® RV K-LOCK® ATTACHMENT [M-AT5-AP1]
18 16 45	VEGA® RV K-LOCK® ATTACHMENT [M-AT6-AP1]
99 16 11-S	K-LOCK® DENTURE PROCESSING PACK (2 PACK)
99 16 13-S	K-LOCK® EXTENDED PIVOT DENTURE PROCESSING PACK (2 PACK)
99 16 15-S	K-LOCK® DENTURE PACK ASSEMBLY (4 PACK)
99 16 23-S	K-LOCK® HIGH RETENTION REPLACEMENT INSERTS (CLEAR) (4 PACK)
99 16 22-S	K-LOCK® MEDIUM RETENTION REPLACEMENT INSERTS (PINK) (4 PACK)
99 16 21-S	K-LOCK® LOW RETENTION REPLACEMENT INSERTS (BLUE) (4 PACK)
99 16 27-S	K-LOCK® EXTENDED PIVOT HIGH RETENTION REPLACEMENT INSERTS (GREEN) (4 PACK)
99 16 25-S	K-LOCK® EXTENDED PIVOT LOW RETENTION REPLACEMENT INSERTS (RED) (4 PACK)
99 16 26-S	K-LOCK® EXTENDED PIVOT MEDIUM RETENTION REPLACEMENT INSERTS (ORANGE) (4 PACK)
99 16 29-S	K-LOCK® BLOCK-OUT SPACER (20 PACK)
99 16 32-S	K-LOCK® IMPRESSION COPING (4 PACK)
99 16 31-S	K-LOCK® ABUTMENT LAB ANALOG (4MM DIAMETER)(4 PACK)
99 16 41-S	K-LOCK® SYSTEM TOOL, 2-PIECE
99 16 42-S	K-LOCK® LATCH HANDPIECE DRIVER, TRI-LOBE
86 000 03	CONTRA ANGLE/RATCHET FOR TORQUE WRENCH ADAPTER

WRENCHES AND ADAPTERS

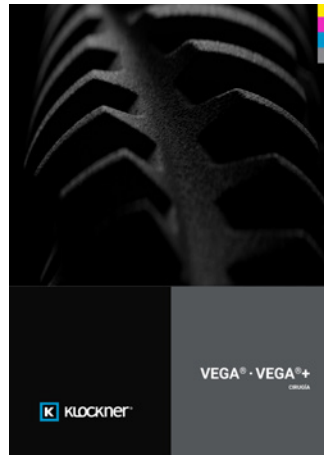
JDTWKL	JDTORQUE® TORQUE WRENCH
10 08 11	EC-VEGA® STAR SCREWDRIVER FOR TORQUE WRENCH
10 08 11 L	EC-VEGA® LONG STAR SCREWDRIVER FOR TORQUE WRENCH
10 08 14	EC-VEGA® EXTRA LONG STAR SCREWDRIVER FOR TORQUE WRENCH
50 08 04	VEGA®-KL HEXAGONAL 1.2MM LONG SCREWDRIVER FOR TORQUE WRENCH
50 08 05	VEGA®-KL HEXAGONAL 1.2MM SHORT SCREWDRIVER FOR TORQUE WRENCH
50 08 09	VEGA®-KL HEXAGONAL 1.2MM XL SCREWDRIVER FOR TORQUE WRENCH
18 07 17	SHORT MANUAL EXTRACTOR WRENCH FOR VEGA® RV ABUTMENTS
18 07 18	LONG MANUAL EXTRACTOR WRENCH FOR VEGA® RV ABUTMENTS
18 07 30	VEGA® PERMANENT® ABUTMENT WRENCH [M]
18 07 31	VEGA® PERMANENT® ABUTMENT WRENCH [U]
86 000 01	MEDPRO360° CONTRA ANGLE LONG SCREWDRIVER
86 000 02	MEDPRO360° CONTRA ANGLE EXTRA LONG SCREWDRIVER
86 000 03	CONTRA ANGLE/RATCHET FOR TORQUE WRENCH ADAPTER
10 08 08	EC-VEGA® STAR CONTRA-ANGLE SCREWDRIVER
50 08 06	VEGA®-KL HEXAGONAL 1.2MM CONTRA-ANGLE SCREWDRIVER

SYMBOLS AND NOTES

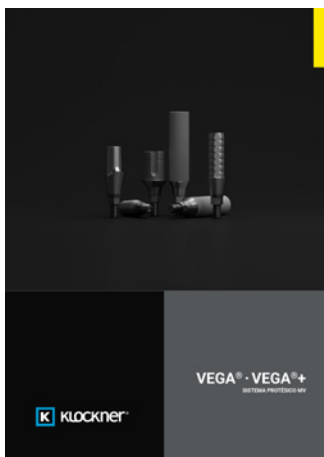
	CLOSED TRAY		TRANSMUCOSAL HEIGHT 0.5 MM		MEDPRO 360° SYSTEM
	OPEN TRAY		TRANSMUCOSAL HEIGHT 1.0 MM		PROSTHETIC HEIGHT 0.5 MM
	DIGITAL		TRANSMUCOSAL HEIGHT 1.5 MM		PROSTHETIC HEIGHT 1.0 MM
	STAR TIP		TRANSMUCOSAL HEIGHT 2.0 MM		PROSTHETIC HEIGHT 4.5 MM
	HEXAGONAL POINT		TRANSMUCOSAL HEIGHT 3.0 MM		PROSTHETIC HEIGHT 5.0 MM
	ABUTMENT HEXAGONAL TIP - U		TRANSMUCOSAL HEIGHT 4.0 MM		PROSTHETIC HEIGHT 5.5 MM
	ABUTMENT HEXAGONAL TIP - M		TRANSMUCOSAL HEIGHT 5.0 MM		PROSTHETIC HEIGHT 6.5 MM
	PLACEMENT AT 15 NCM		TRANSMUCOSAL HEIGHT 6.0 MM		PROSTHETIC HEIGHT 7.0 MM
	PLACEMENT AT 25 NCM		ANATOMICAL ABUTMENT BODY		PROSTHETIC HEIGHT 7.5 MM
	PLACEMENT AT 30 NCM		UNIT SOLUTION		PROSTHETIC HEIGHT 9.0 MM
			MULTIPLE SOLUTION		PROSTHETIC HEIGHT 12 MM



VEGA®_IM_KLOCKNER_EN
VEGA® · VEGA®+ IMPLANTS



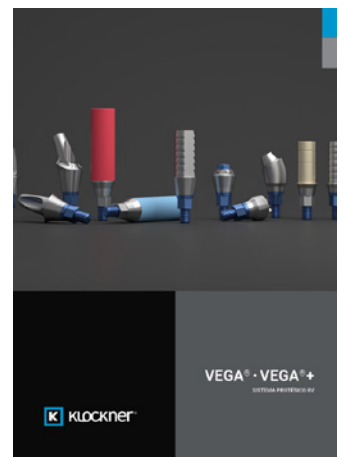
VEGA®_SU_KLOCKNER_EN
VEGA® · VEGA®+ SURGERY



VEGA®_MV_KLOCKNER_EN
**VEGA® · VEGA®+
 MV PROSTHETIC SYSTEM**



VEGA®_NV_KLOCKNER_EN
**VEGA® · VEGA®+
 NV PROSTHETIC SYSTEM**



VEGA®_RV_KLOCKNER_EN
**VEGA® · VEGA®+
 RV PROSTHETIC SYSTEM**

**Freedom
is not
fixed**



All KLOCKNER® IMPLANT SYSTEM products follow the laws and regulations applicable to medical devices, such as: European new regulation MDR 2017/745 · US FDA 21 CFR Part 820 Regulations · EN ISO 13485 Quality Standards and other applicable standards and regulations.



VEGA®_RV_KLOCKNER_EN_V05

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