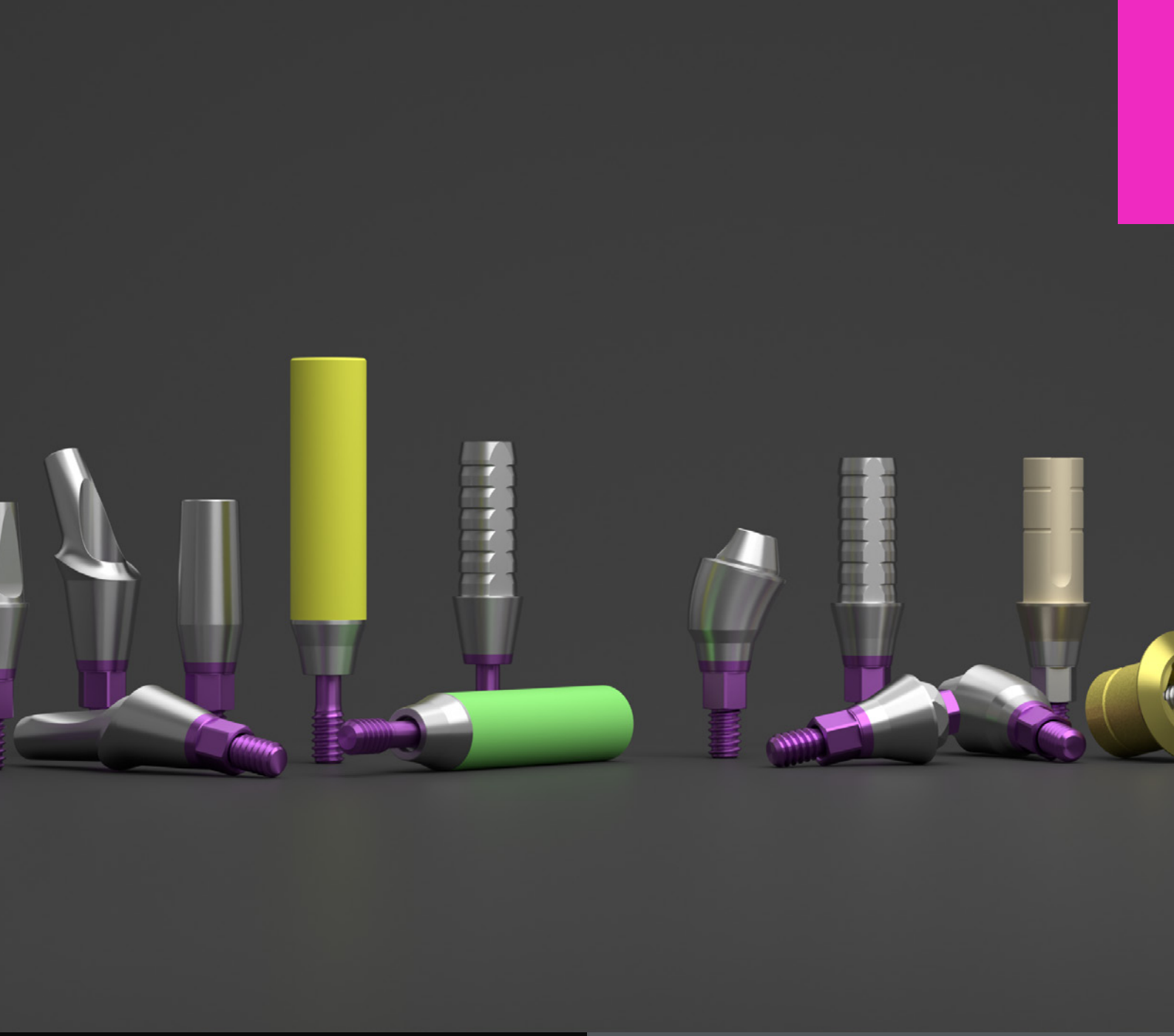

VEGA® · VEGA®+

NV PROSTHETIC SYSTEM

KLOCKNER®

Freedom is not fixed

KLOCKNER®

VEGA® · VEGA®+

NV PROSTHETIC SOLUTIONS

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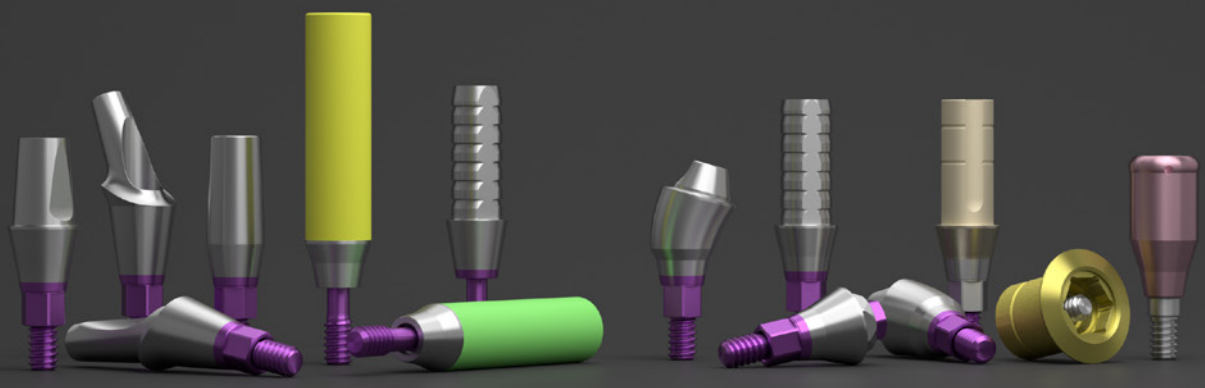


KLOCKNER®

VEGA® is the platform switching implant of the KLOCKNER® IMPLANT SYSTEM for crestal level placement to individualise the treatment of hard and soft tissues.

NV PROSTHETIC SOLUTIONS

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

MIMETIC® NV PROSTHETIC SOLUTIONS

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

PERMANENT® NV 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.

KLOCKNER®

IMPRESSION COPING
ABUTMENT ANALOG

18 09 02 VEGA® NV ABUTMENT ANALOG [CLOSED TRAY]
18 09 03 VEGA® NV ABUTMENT ANALOG [OPEN TRAY]
18 09 03 L VEGA® NV LONG ABUTMENT ANALOG [OPEN TRAY]
18 09 03.2 XL VEGA® NV LONG ABUTMENT ANALOG [OPEN TRAY]
18 09 01 VEGA® NV IMPLANT ANALOG

18 09 02

18 09 03.2 XL

18 09 03

18 09 03 L

18 09 01

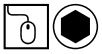
WARNINGS
18 09 02
In case of a single unit, check that the flat faces are perfectly recorded in the impression.

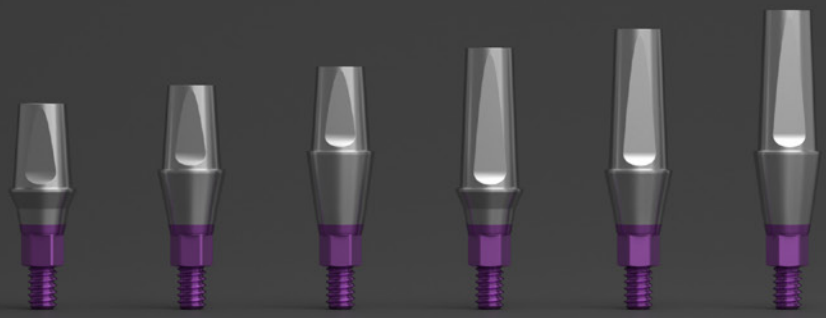
18 09 03 / 18 09 03 L
Keep the screw area clear, removing any excess impression material before it sets.
According to the relationship between the antagonist and adjacent teeth, the gingival height, select the appropriate transfer, long or short, according to product availability.
The correct transfer seating in the implant and/or abutment must be confirmed when choosing the direct impression technique for the latter.

IMPRESSION COPING
DIGITAL

82 31 01 02 i-NV 1 SCAN ABUTMENT

82 31 01 02





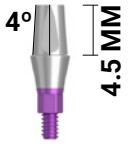
KLOCKNER®

STRAIGHT 2° AND 4°
CEMENTED

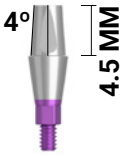
18 10 08	VEGA® NV STRAIGHT ABUTMENT [AT1 - AP4.5]	18 10 26	VEGA® NV STRAIGHT ABUTMENT [AT1 - AP7.5]
18 10 09	VEGA® NV STRAIGHT ABUTMENT [AT2 - AP4.5]	18 10 27	VEGA® NV STRAIGHT ABUTMENT [AT2 - AP7.5]
18 10 10	VEGA® NV STRAIGHT ABUTMENT [AT3 - AP4.5]	18 10 28	VEGA® NV STRAIGHT ABUTMENT [AT3 - AP7.5]

18 10 08

18 10 09



18 10 10



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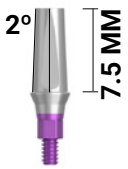

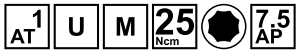

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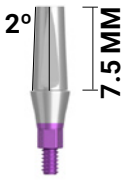
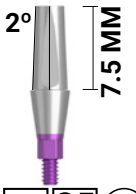


18 10 28

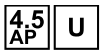


WARNINGS
Do not drill at a height below 4 mm.

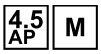
---

18 12 01	VEGA® NV CASTABLE ABUTMENT FOR STRAIGHT ABUTMENT [U-AP4.5]
18 12 02	VEGA® NV CASTABLE ABUTMENT FOR STRAIGHT ABUTMENT [M-AP4.5]

18 12 01



18 12 02



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18 11 01 VEGA® NV STAR SCREW

STRAIGHT 4°	**CoCr**
ANGLED 15°	**TITANIUM BASE FOR CEREC®**
ANGLED 25°	**TI**
ZERO	**AESTHETIC**
GOLD	**PERMANENT® ANGLED**

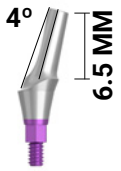
Do not apply tightening forces to the abutments and/or screws during the manufacturing process of the prosthesis. During final insertion of the prosthesis, a torque of 25 Ncm must be applied to all abutments and 15 Ncm to superstructure fixation screws Ref. 10 11 21. The abutments include screw Ref. 18 11 01.

ANGLED 15°
CEMENTED

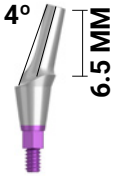
18 10 15 VEGA® NV 15° ANGLED ABUTMENT [AT2-AP6.5]
18 10 16 VEGA® NV 15° ANGLED ABUTMENT [AT3-AP6.5]

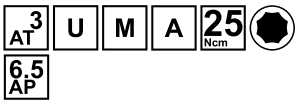
WARNINGS
Do not drill at a height below 4 mm.

18 10 15



18 10 16



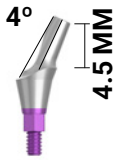


ANGLED 25°
CEMENTED

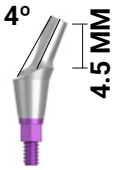
18 10 17 VEGA® NV 25° ANGLED ABUTMENT [AT2-AP4.5]
18 10 18 VEGA® NV 25° ANGLED ABUTMENT [AT3-AP4.5]

WARNINGS
Do not drill at a height below 4 mm.

18 10 17



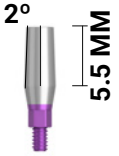
18 10 18

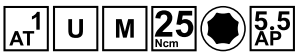


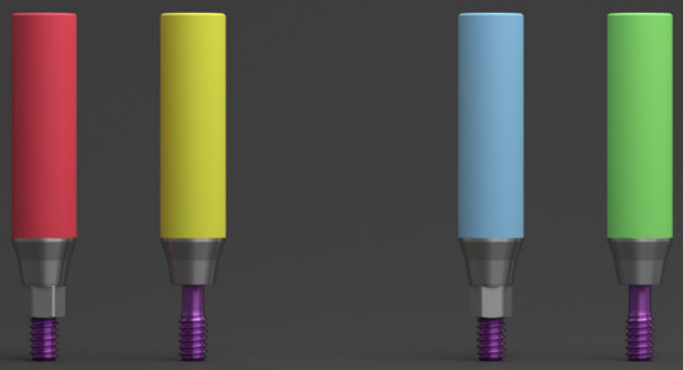
ZERO
CEMENTED

18 10 07 VEGA® NV ZERO ABUTMENT [AT1-AP5.5]

18 10 07



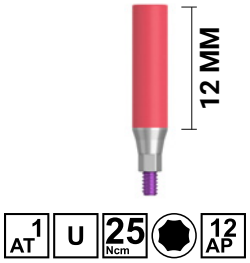




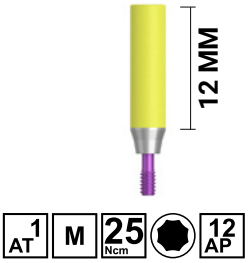
GOLD
SCREW-MOUNTED / CEMENTED

18 10 11 VEGA® NV GOLD ABUTMENT [U-AT1-AP12]
18 10 12 VEGA® NV GOLD ABUTMENT [M-AT1-AP12]

18 10 11



18 10 12



SPECIFICATIONS OF GOLD SOLUTIONS

Composition	Au-60%, Pt-19%, Pd-20%, Ir-1%
Melting range	1415 - 1495 °C
Thermal expansion	[CTE 25-600ºC] 12.2 µm/mºC
Colour	Red (18 10 11) / Yellow (18 10 12)
Elasticity limit	(Rp 0.2 %) >640 N/m2
Vickers Hardness Test	>230
Elongation	>2 %
Mass 18 10 51	0.53 gr*

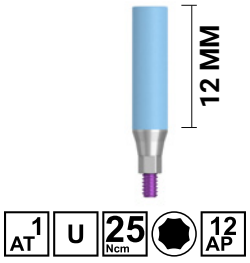
*INDICATIVE MASSES. DEPENDS ON MANUFACTURING CHARACTERISTICS.

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 30º with respect to the dental implant axis. See metal specifications.

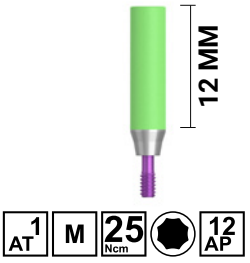
CoCr
SCREW-MOUNTED / CEMENTED

18 10 13 VEGA® NV CoCr ABUTMENT [U-AT1-AP12]
18 10 14 VEGA® NV CoCr ABUTMENT [M-AT1-AP12]

18 10 13



18 10 14

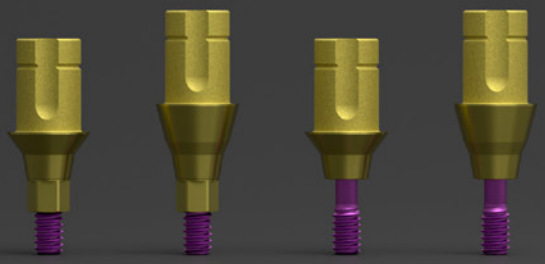


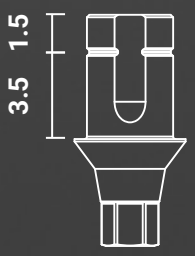
SPECIFICATIONS OF CoCr SOLUTIONS

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 13) / Green (18 10 14)
Elasticity limit	(Rp 0.2 %) >827 Mpa
Vickers Hardness Test	>320 HV10
Elongation	>12 %
Mass 18 10 13	0.25 gr*

*INDICATIVE MASSES. DEPENDS ON MANUFACTURING CHARACTERISTICS.

WARNINGS
An alloy must be chosen for cast-to, pursuant to ASTM F1537and 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 30º with respect to the dental implant axis. See metal specifications.



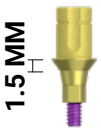


KLOCKNER®

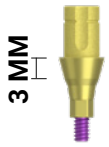
TITANIUM BASE
SCREW-MOUNTED / CEMENTED

84 01 01-1 VEGA® NV KLOCKNER® MEDPROTIBASE® [U-AT1.5-A0.5]
84 01 02-1 VEGA® NV KLOCKNER® MEDPROTIBASE® [U-AT3-A0.5]
84 01 03-1 VEGA® NV KLOCKNER® MEDPROTIBASE® [M-AT1.5-A0.5]
84 01 04-1 VEGA® NV KLOCKNER® MEDPROTIBASE® [M-AT3-A0.5]

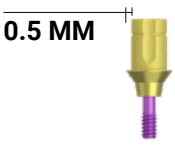
84 01 01-1

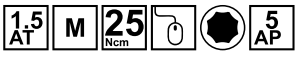


84 01 02-1

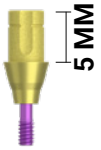


84 01 03-1



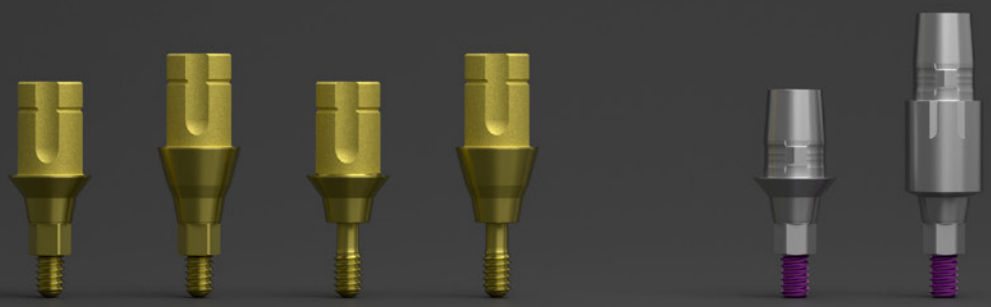


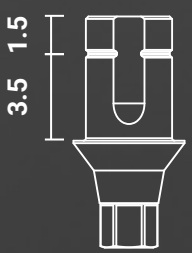
84 01 04-1



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.





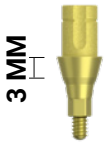
KLOCKNER®

TITANIUM BASE
SCREW-MOUNTED / CEMENTED

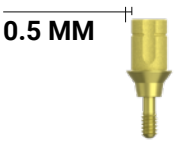
84 01 01-2 VEGA® NV KLOCKNER® MEDPROTIBASE® [U-AT1.5-A0.5] MP360
84 01 02-2 VEGA® NV KLOCKNER® MEDPROTIBASE® [U-AT3-A0.5] MP360
84 01 03-2 VEGA® NV KLOCKNER® MEDPROTIBASE® [M-AT1.5-A0.5] MP360
84 01 04-2 VEGA® NV KLOCKNER® MEDPROTIBASE® [M-AT3-A0.5] MP360

84 01 01-2

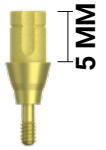
84 01 02-2



84 01 03-2



84 01 04-2

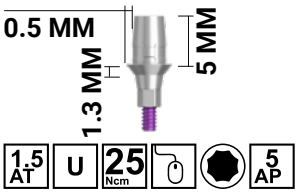


The MEDPRO360° Ti-base include screw 86 001 09 VEGA® NV KLOCKNER® MEDPRO360° SCREW

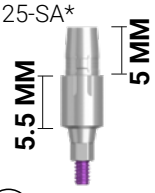
TITANIUM BASE FOR CEREC®
SCREW-MOUNTED / CEMENTED

18 10 25 VEGA® NV TIBASE ABUTMENT [U-AT1.5-AP5]
18 10 25-SA* VEGA® NV TIBASE SCAN ABUTMENT

18 10 25

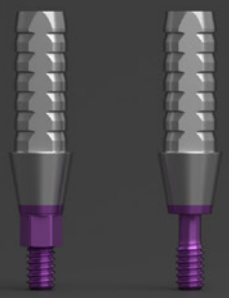


18 10 25-SA*



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

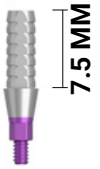
WARNINGS
The MEDPROTIBASE® abutments have a prosthetic height of 5 mm and an identification marking at 3.5 mm. All abutments with an identification marking can be drilled through the marking if necessary.



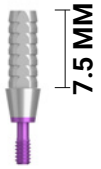
Ti
TEMPORARY

18 10 01	VEGA® NV TITANIUM TEMPORARY ABUTMENT [U-AT2-AP7.5]
18 10 02	VEGA® NV TITANIUM TEMPORARY ABUTMENT [M-AT2-AP7.5]

18 10 01



18 10 02



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.

[1] External test - Cytotoxicity test according to EN ISO 10993-5.
[2] Surface treatment supplier documentation.
For more information, consult your sales representative.

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®

ABUTMENTS · CONNECTORS

18 16 31	VEGA® NV K-LOCK® ATTACHMENT [M-AT2-AP1]
18 16 32	VEGA® NV K-LOCK® ATTACHMENT [M-AT3-AP1]
18 16 33	VEGA® NV K-LOCK® ATTACHMENT [M-AT4-AP1]
18 16 34	VEGA® NV K-LOCK® ATTACHMENT [M-AT5-AP1]
18 16 35	VEGA® NV K-LOCK® ATTACHMENT [M-AT6-AP1]

18 16 31

AT 2 | M | 25 Ncm | 1 AP

18 16 32

AT 3 | M | 25 Ncm | 1 AP

18 16 33

AT 4 | M | 25 Ncm | 1 AP

18 16 34

AT 5 | M | 25 Ncm | 1 AP

18 16 35

AT 6 | M | 25 Ncm | 1 AP

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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)
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® NV implants.

General comments: A torque of 25 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.

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® 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.

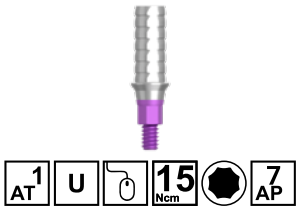
The maximum diameter is 3.6 mm in all cases, being a narrow emergence that allows its use in reduced interproximal spaces. Available in three transmucosal heights, 1, 2, 3 mm.

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.

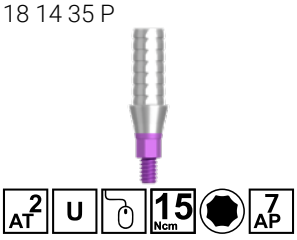
MIMETIC®
TEMPORARY

18 14 34 P VEGA® NV MIMETIC® TITANIUM TEMPORARY ABUTMENT [U-AT1-AP7]
18 14 35 P VEGA® NV MIMETIC® TITANIUM TEMPORARY ABUTMENT [U-AT2-AP7]
18 14 36 P VEGA® NV MIMETIC® TITANIUM TEMPORARY ABUTMENT [U-AT3-AP7]

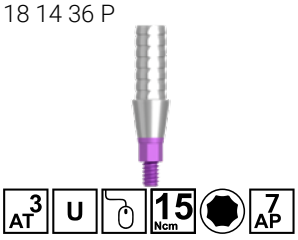
18 14 34 P



18 14 35 P



18 14 36 P



Temporary abutments and Tibase abutments are delivered with screws 18 11 01

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18 11 01 VEGA® NV 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 fi nal placement is 15 Ncm.

[1] Surface treatment supplier documentation.
[2] External assay, cell adhesion and proliferation.

For more information, consult your sales representative.

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].

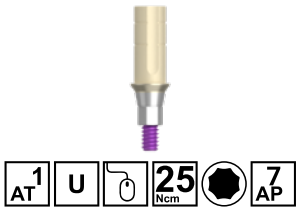
MIMETIC® titanium bases have a prosthetic height of 7 mm and two identification marks at 3.5 and 5 mm.
All abutments with identification markings can be milled by the marking if required.

MIMETIC® TITANIUM BASE

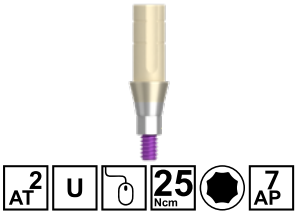
SCREW-MOUNTED / CEMENTED

18 14 34 VEGA® NV MIMETIC® TIBASE ABUTMENT [U-AT1-AP7]
18 14 35 VEGA® NV MIMETIC® TIBASE ABUTMENT [U-AT2-AP7]
18 14 36 VEGA® NV MIMETIC® TIBASE ABUTMENT [U-AT3-AP7]

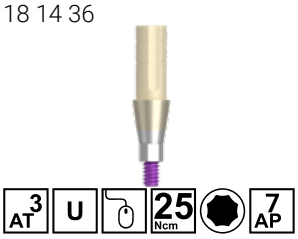
18 14 34



18 14 35



18 14 36



Temporary abutments and Tibase abutments are delivered with screws 18 11 01

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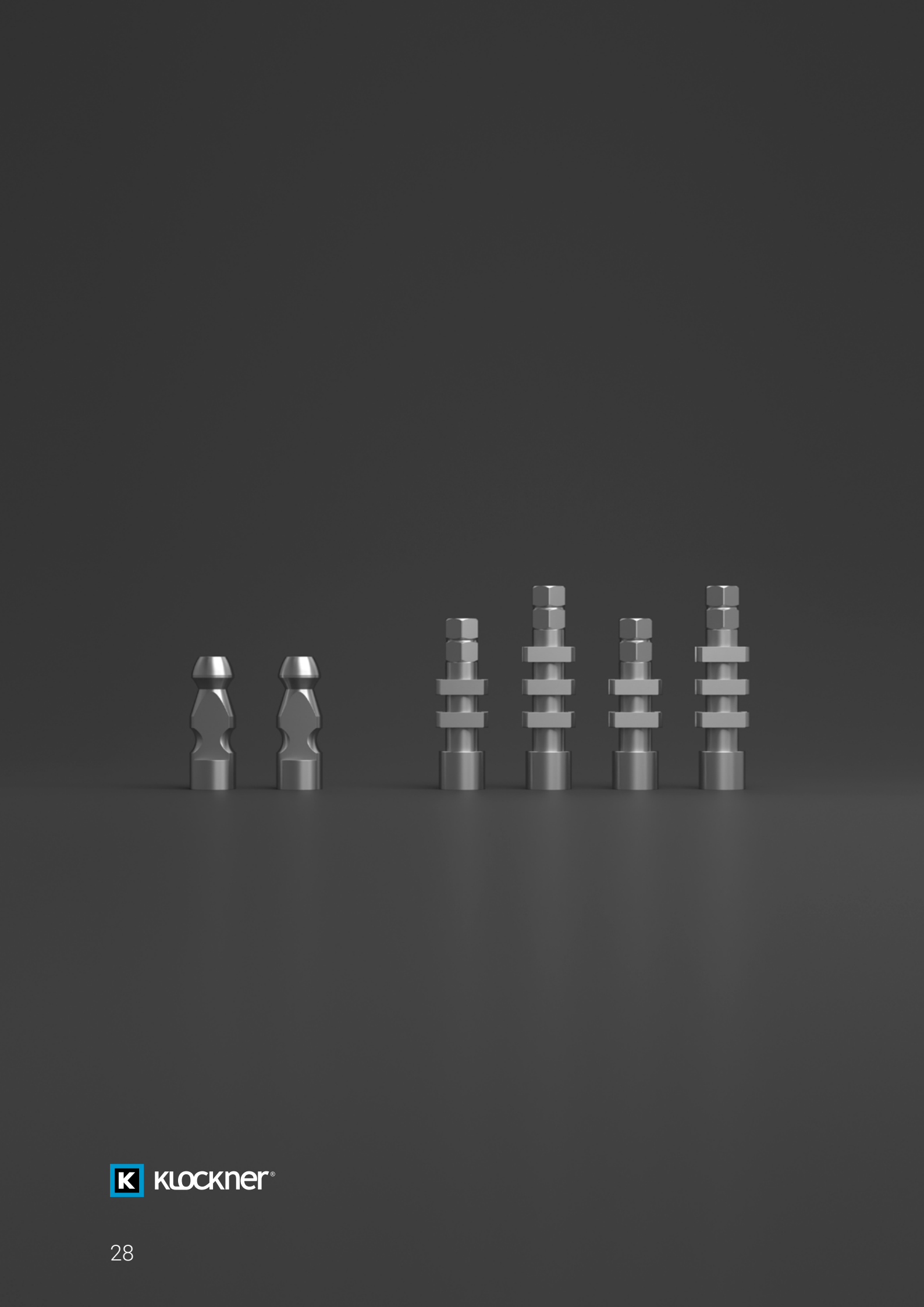
18 11 01 VEGA® NV STAR SCREW

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.



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 06	ABUTMENT ANALOG FOR VEGA® PERMANENT® [U-OPEN TRAY]
18 09 06 L	LONG ABUTMENT ANALOG FOR VEGA® PERMANENT® [U-OPEN TRAY]
18 09 07	ABUTMENT ANALOG FOR VEGA® PERMANENT® [M-CLOSED 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.

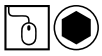
18 09 05 / 18 09 06
Keep the screw area clear, removing any excess impression material before it sets.
According to the relationship between the antagonist and adjacent teeth, the gingival height, select the appropriate transfer, long or short, according to product availability.
The correct transfer seating in the implant and/or abutment must be confirmed when choosing the direct impression technique for the latter.

KLOCKNER®

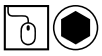
DIGITAL IMPRESSIONS

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® STRAIGHT

SCREW-MOUNTED · SINGLE

18 10 30 U VEGA® NV STRAIGHT PERMANENT® ABUTMENT [U-AT1]
18 10 31 U VEGA® NV STRAIGHT PERMANENT® ABUTMENT [U-AT2]
18 10 32 U VEGA® NV STRAIGHT PERMANENT® ABUTMENT [U-AT3]

18 10 30 U

AT1 U 25 Ncm U

18 10 31 U

AT2 U 25 Ncm U

18 10 32 U

AT3 U 25 Ncm U

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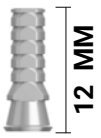
18 12 03 CASTABLE ABUTMENT FOR VEGA® PERMANENT® ABUTMENT [U]
18 13 01 VEGA® PERMANENT® TITANIUM ABUTMENT [U-AP12]

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

18 12 03

U 12 AP

18 13 01



U 12 AP

10 11 21

15 Ncm

WARNINGS
Tightening on the NV 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® NV abutments [occlusal screw] are not drillable.

KLOCKNER®

PERMANENT® STRAIGHT

SCREW-MOUNTED · MULTIPLE

18 10 30 M VEGA® NV STRAIGHT PERMANENT® ABUTMENT [M-AT1]
18 10 31 M VEGA® NV STRAIGHT PERMANENT® ABUTMENT [M-AT2]
18 10 32 M VEGA® NV STRAIGHT PERMANENT® ABUTMENT [M-AT3]

18 10 30 M

AT1 M 25 Ncm M

18 10 31 M

AT2 M 25 Ncm M

18 10 32 M

AT3 M 25 Ncm M

---

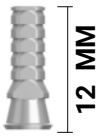
18 12 04 CASTABLE ABUTMENT FOR VEGA® PERMANENT® ABUTMENT [M]
18 13 02 VEGA® PERMANENT® TITANIUM ABUTMENT [M-AP12]

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

18 12 04

M 12 AP

18 13 02

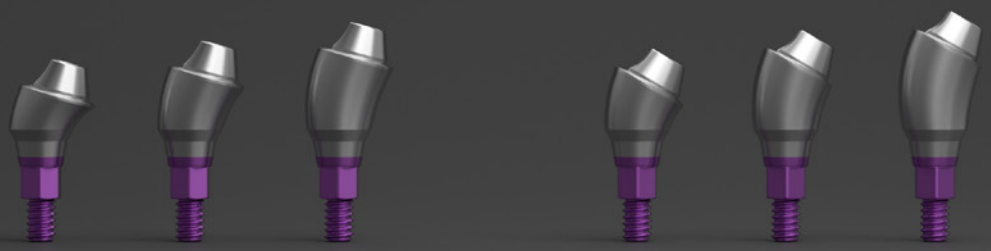


M 12 AP

10 11 21

15 Ncm

WARNINGS
Tightening on the NV 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® NV abutments [occlusal screw] are not drillable.



PERMANENT® ANGLED 18º
SCREW-MOUNTED

18 10 19 VEGA® NV 18° ANGLED PERMANENT® ABUTMENT [M-AT2]
18 10 20 VEGA® NV 18° ANGLED PERMANENT® ABUTMENT [M-AT3]
18 10 21 VEGA® NV 18° ANGLED PERMANENT® ABUTMENT [M-AT4]

18 10 19

AT2 M 25 Ncm

18 10 20

AT3 M 25 Ncm

18 10 21

AT4 M 25 Ncm

PERMANENT® ANGLED 30º
SCREW-MOUNTED

18 10 22 VEGA® NV 30° ANGLED PERMANENT® ABUTMENT [M-AT2]
18 10 23 VEGA® NV 30° ANGLED PERMANENT® ABUTMENT [M-AT3]
18 10 24 VEGA® NV 30° ANGLED PERMANENT® ABUTMENT [M-AT4]

18 10 22

AT2 M 25 Ncm

18 10 23

AT3 M 25 Ncm

18 10 24

AT4 M 25 Ncm

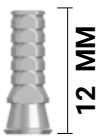
18 12 04 CASTABLE ABUTMENT FOR VEGA® PERMANENT® ABUTMENT [M]
18 13 02 VEGA® PERMANENT® TITANIUM ABUTMENT [M-AP12]

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

18 12 04

M 12 AP

18 13 02



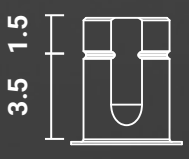
M 12 AP

10 11 21

15 Ncm

The 18° and 30° PERMANENT® abutments include screw Ref. 18 11 01

WARNINGS
Tightening on the NV 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® NV abutments [occlusal screw] are not drillable.



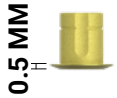
KLOCKNER®

PERMANENT® TITANIUM BASE
SCREW-MOUNTED

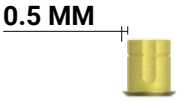
84 01 13-1 PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [U-AT0.5-A0.5]
84 01 14-1 PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [U-AT0.5-A1]
84 01 15-1 PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [M-AT0.5-A0.5]
84 01 16-1 PERMANENT® VEGA® KLOCKNER® MEDPROTIBASE® [M-AT0.5-A1]

84 01 13-1

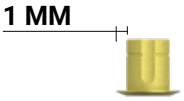
84 01 14-1



84 01 15-1



84 01 16-1



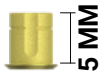
10 11 21

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

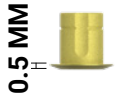
PERMANENT® TITANIUM BASE
SCREW-MOUNTED

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

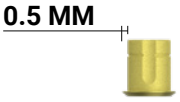
84 01 13-2



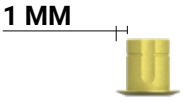
84 01 14-2



84 01 15-2



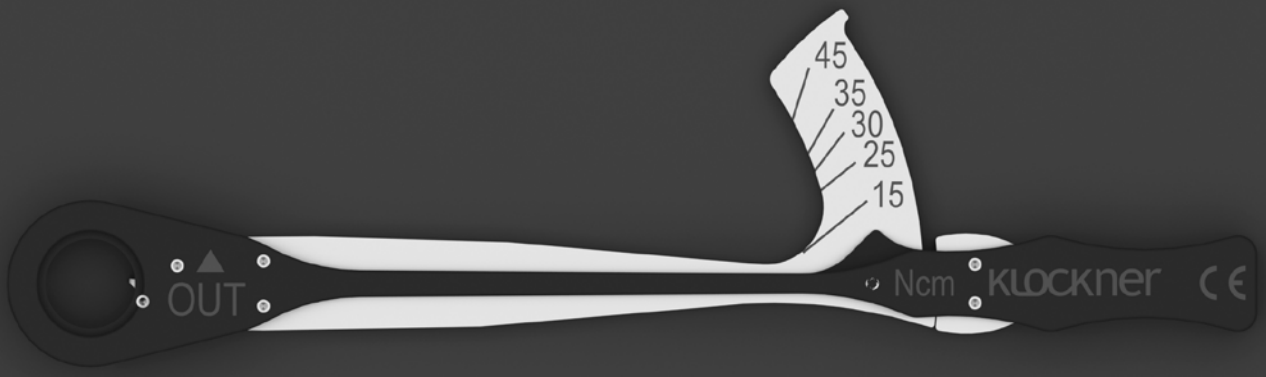
84 01 16-2



86 001 03

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.

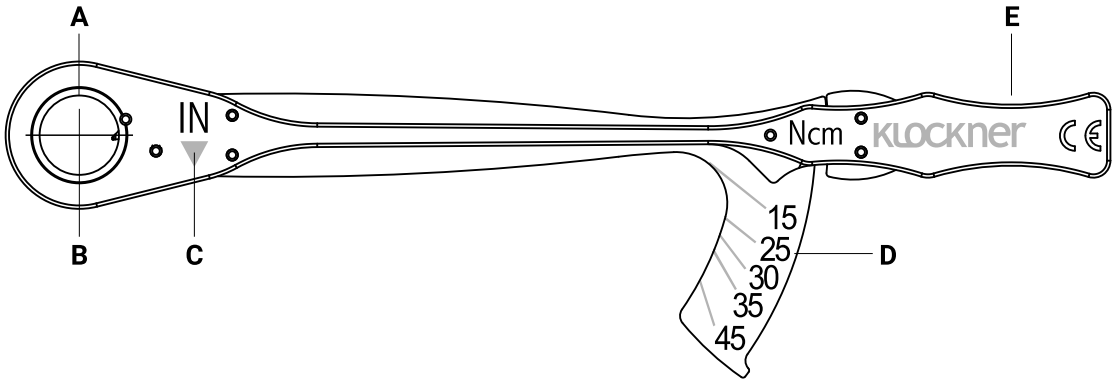


JDTWKL JDTORQUE® TORQUE WRENCH

Markings indicated at 15 / 25 / 30 / 35 / 45 Ncm.

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].



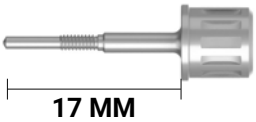
A · ADAPTER FITTING AREA
B · TRANSMISSION SHAFT
C · WORKING DIRECTION INDICATOR [IN/OUT]
D · TORQUE SCALE
E · GRIP

EXTRACTION ADAPTERS

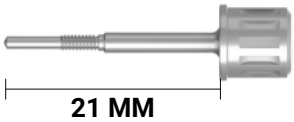
Made of stainless steel.

18 07 32 SHORT MANUAL EXTRACTOR WRENCH FOR VEGA® MV/NV ABUTMENTS
18 07 33 LONG MANUAL EXTRACTOR WRENCH FOR VEGA® MV/NV ABUTMENTS

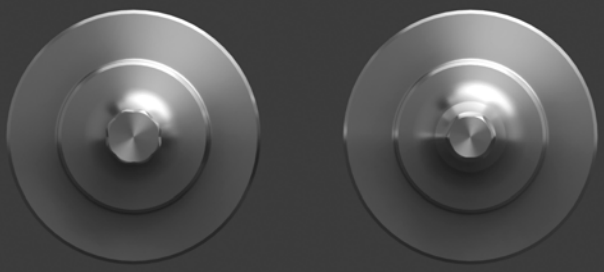
18 07 32



18 07 33



KLOCKNER®

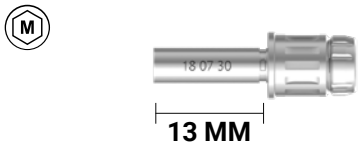


SCREWDRIVERS

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



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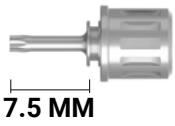
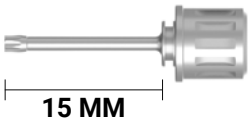


10 08 11 L



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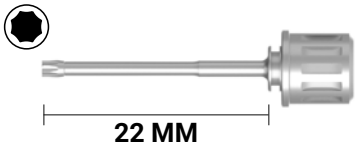

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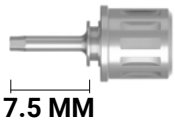

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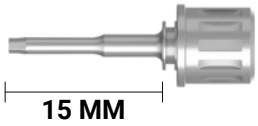

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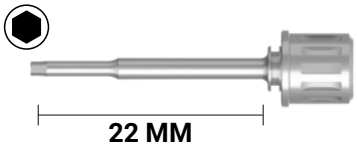
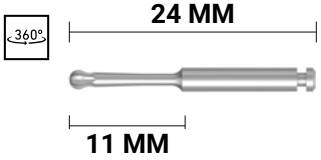


MEDPRO360º

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



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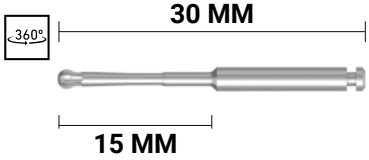

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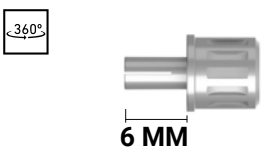
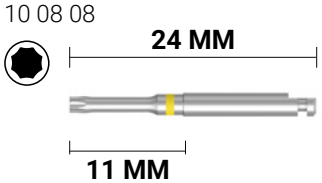


SCREWDRIVERS

CONTRA-ANGLE
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



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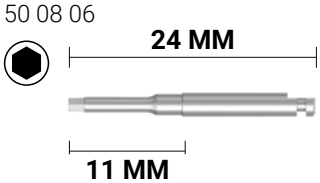


PRODUCT WARNINGS

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.

NV 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 02	VEGA® NV ABUTMENT ANALOG [CLOSED TRAY]
18 09 03	VEGA® NV ABUTMENT ANALOG [OPEN TRAY]
18 09 03 L	VEGA® NV LONG ABUTMENT ANALOG [OPEN TRAY]
18 09 03.2 XL	VEGA® NV EXTRA LONG ABUTMENT ANALOG SCREW [OPEN TRAY]
18 09 01	VEGA® NV IMPLANT ANALOG

82 31 01 02	i-NV 1 SCAN ABUTMENT

STRAIGHT 2° AND 4°

18 10 08	VEGA® NV STRAIGHT ABUTMENT [AT1-AP4.5]
18 10 09	VEGA® NV STRAIGHT ABUTMENT [AT2-AP4.5]
18 10 10	VEGA® NV STRAIGHT ABUTMENT [AT3-AP4.5]
18 10 26	VEGA® NV STRAIGHT ABUTMENT [AT1-AP7.5]
18 10 27	VEGA® NV STRAIGHT ABUTMENT [AT2-AP7.5]
18 10 28	VEGA® NV STRAIGHT ABUTMENT [AT3-AP7.5]

18 12 01	VEGA® NV CASTABLE ABUTMENT FOR STRAIGHT ABUTMENT [U-AP4.5]
18 12 02	VEGA® NV CASTABLE ABUTMENT FOR STRAIGHT ABUTMENT [M-AP4.5]

15°

18 10 15	VEGA® NV 15° ANGLED ABUTMENT [AT2-AP6.5]
18 10 16	VEGA® NV 15° ANGLED ABUTMENT [AT3-AP6.5]

25°

18 10 17	VEGA® NV 25° ANGLED ABUTMENT [AT2-AP4.5]
18 10 18	VEGA® NV 25° ANGLED ABUTMENT [AT3-AP4.5]

ZERO

18 10 07	VEGA® NV ZERO ABUTMENT [AT1-AP5.5]

GOLD

18 10 11	VEGA® NV GOLD ABUTMENT [U-AT1-AP12]
18 10 12	VEGA® NV GOLD ABUTMENT [M-AT1-AP12]

CoCr

18 10 13	VEGA® NV CoCr ABUTMENT [U-AT1-AP12]
18 10 14	VEGA® NV CoCr ABUTMENT [M-AT1-AP12]

TITANIUM BASE

84 01 01-1	VEGA® NV KLOCKNER® MEDPROTIBASE® [U-AT1.5-A0.5]
84 01 02-1	VEGA® NV KLOCKNER® MEDPROTIBASE® [U-AT3-A0.5]
84 01 03-1	VEGA® NV KLOCKNER® MEDPROTIBASE® [M-AT1.5-A0.5]
84 01 04-1	VEGA® NV KLOCKNER® MEDPROTIBASE® [M-AT3-A0.5]

84 01 01-2	VEGA® NV KLOCKNER® MEDPROTIBASE® [U-AT1.5-A0.5] MP360
84 01 02-2	VEGA® NV KLOCKNER® MEDPROTIBASE® [U-AT3-A0.5] MP360
84 01 03-2	VEGA® NV KLOCKNER® MEDPROTIBASE® [M-AT1.5-A0.5] MP360
84 01 04-2	VEGA® NV KLOCKNER® MEDPROTIBASE® [M-AT3-A0.5] MP360

18 10 25	VEGA® NV TIBASE ABUTMENT [U-AT1.5-AP5]
18 10 25-SA	VEGA® NV TIBASE SCAN ABUTMENT

Ti

18 10 01	VEGA® NV TITANIUM TEMPORARY ABUTMENT [U-AT2-AP7.5]
18 10 02	VEGA® NV TITANIUM TEMPORARY ABUTMENT [M-AT2-AP7.5]

18 11 01	VEGA® NV STAR SCREW

86 001 03	MICRO [SK2-EC-KL-VEGA®] KLOCKNER® MEDPRO360° SCREW
86 001 09	VEGA® NV KLOCKNER® MEDPRO360° SCREW

MIMETIC®

MIMETIC®

18 14 34 P	VEGA® NV MIMETIC® TITANIUM TEMPORARY ABUTMENT [U-AT1-AP7]
18 14 35 P	VEGA® NV MIMETIC® TITANIUM TEMPORARY ABUTMENT [U-AT2-AP7]
18 14 36 P	VEGA® NV MIMETIC® TITANIUM TEMPORARY ABUTMENT [U-AT3-AP7]

MIMETIC® TITANIUM BASE

18 14 34	VEGA® NV MIMETIC® TIBASE ABUTMENT [U-AT1-AP7]
18 14 35	VEGA® NV MIMETIC® TIBASE ABUTMENT [U-AT2-AP7]
18 14 36	VEGA® NV MIMETIC® TIBASE ABUTMENT [U-AT3-AP7]

PERMANENT®

IMPRESSION COPING

18 09 08	ABUTMENT ANALOG FOR VEGA® PERMANENT® [U-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 07	ABUTMENT ANALOG FOR VEGA® PERMANENT® [M-CLOSED 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 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 30-U	VEGA® NV STRAIGHT PERMANENT® ABUTMENT [U-AT1]
18 10 31-U	VEGA® NV STRAIGHT PERMANENT® ABUTMENT [U-AT2]
18 10 32-U	VEGA® NV STRAIGHT PERMANENT® ABUTMENT [U-AT3]
18 10 30-M	VEGA® NV STRAIGHT PERMANENT® ABUTMENT [M-AT1]
18 10 31-M	VEGA® NV STRAIGHT PERMANENT® ABUTMENT [M-AT2]
18 10 32-M	VEGA® NV STRAIGHT PERMANENT® ABUTMENT [M-AT3]

18°

18 10 19	VEGA® NV 18° ANGLED PERMANENT® ABUTMENT [M-AT2]
18 10 20	VEGA® NV 18° ANGLED PERMANENT® ABUTMENT [M-AT3]
18 10 21	VEGA® NV 18° ANGLED PERMANENT® ABUTMENT [M-AT4]

30°

18 10 22	VEGA® NV 30° ANGLED PERMANENT® ABUTMENT [M-AT2]
18 10 23	VEGA® NV 30° ANGLED PERMANENT® ABUTMENT [M-AT3]
18 10 24	VEGA® NV 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]

K-LOCK®

18 16 31	VEGA® NV K-LOCK® ATTACHMENT [M-AT2-AP1]
18 16 32	VEGA® NV K-LOCK® ATTACHMENT [M-AT3-AP1]
18 16 33	VEGA® NV K-LOCK® ATTACHMENT [M-AT4-AP1]
18 16 34	VEGA® NV K-LOCK® ATTACHMENT [M-AT5-AP1]
18 16 35	VEGA® NV 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

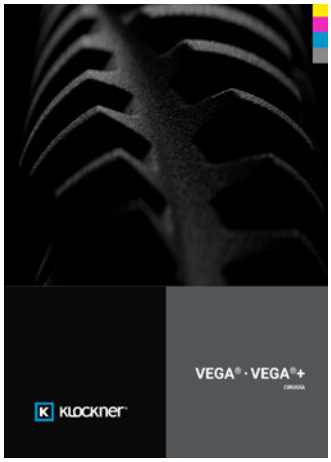
WRENCHES AND ADAPTERS

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 30	VEGA® PERMANENT® ABUTMENT WRENCH [M]
18 07 31	VEGA® PERMANENT® ABUTMENT WRENCH [U]
18 07 32	SHORT MANUAL EXTRACTOR WRENCH FOR VEGA® MV/NV ABUTMENTS
18 07 33	LONG MANUAL EXTRACTOR WRENCH FOR VEGA® MV/NV ABUTMENTS
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
- OPEN TRAY
- DIGITAL
- STAR TIP
- HEXAGONAL TIP
- ABUTMENT HEXAGONAL TIP - U
- ABUTMENT HEXAGONAL TIP - M
- PLACEMENT AT 15 NCM
- PLACEMENT AT 25 NCM
- PLACEMENT AT 30 NCM
- UNIT SOLUTION
- TRANSMUCOSAL HEIGHT 0.5 MM
- TRANSMUCOSAL HEIGHT 1.0 MM
- TRANSMUCOSAL HEIGHT 1.5 MM
- TRANSMUCOSAL HEIGHT 2.0 MM
- TRANSMUCOSAL HEIGHT 3.0 MM
- TRANSMUCOSAL HEIGHT 3.5 MM
- TRANSMUCOSAL HEIGHT 4.0 MM
- TRANSMUCOSAL HEIGHT 5.0 MM
- TRANSMUCOSAL HEIGHT 6.0 MM
- ANATOMICAL ABUTMENT BODY
- MULTIPLE SOLUTION
- MEDPRO 360º SYSTEM
- PROSTHETIC HEIGHT 0.5 MM
- PROSTHETIC HEIGHT 1.0 MM
- PROSTHETIC HEIGHT 4.5 MM
- PROSTHETIC HEIGHT 5.0 MM
- PROSTHETIC HEIGHT 5.5 MM
- PROSTHETIC HEIGHT 6.5 MM
- PROSTHETIC HEIGHT 7.0 MM
- PROSTHETIC HEIGHT 7.5 MM
- PROSTHETIC HEIGHT 9.0 MM
- PROSTHETIC HEIGHT 12 MM

VEGA_IM_KLOCKNER_EN
VEGA® · VEGA®+ IMPLANTS



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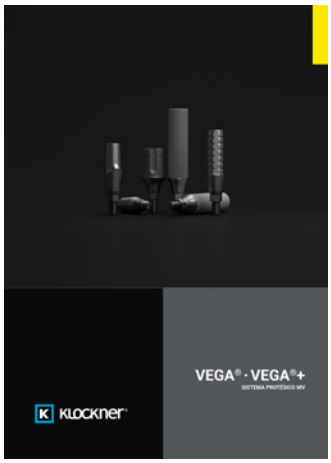
VEGA® · VEGA®+ SURGERY



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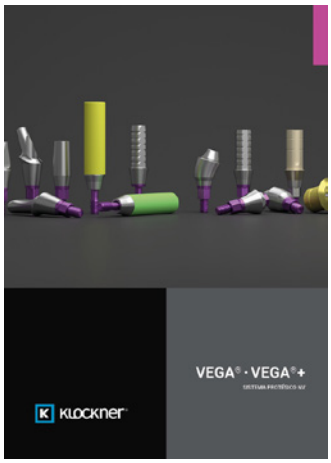
VEGA® · VEGA®+
MV PROSTHETIC SYSTEM



VEGA_NV_KLOCKNER_EN
VEGA® · VEGA®+
NV PROSTHETIC SYSTEM

VEGA_RV_KLOCKNER_EN
VEGA® · VEGA®+
RV PROSTHETIC SYSTEM

KLOCKNER®

Freedom is not fixed

KLOCKNER®

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_NV_KLOCKNER_EN_V05

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