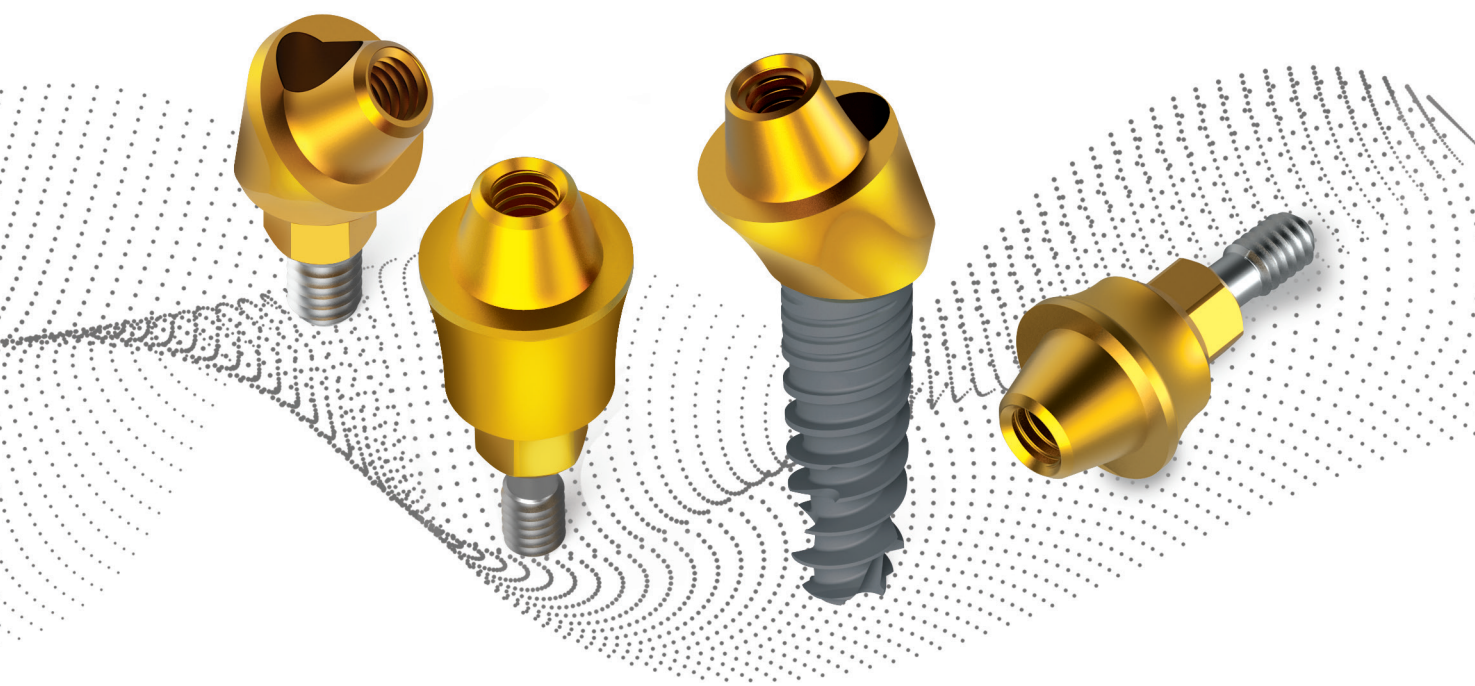
BIOFIX
DENTAL

MULTI UNIT

SCREW RETAINED SYSTEM

PRO.GRIP



TITANIUM NITRIDE (TiN) COATING

PREMIUM PRODUCT

For generation of the TiN coating, the energy transfers of the arc into the target releases titanium atoms, ionises them and accelerates them through the applied voltage towards the implant. During the process, nitrogen is introduced into the vacuum chamber and the nitrogen atoms combine with the titanium atoms on the implant surface to form the desired titanium nitride coating.

Range of Application
Orthopaedic and dental implant components
Surgical instruments
Rotating instruments

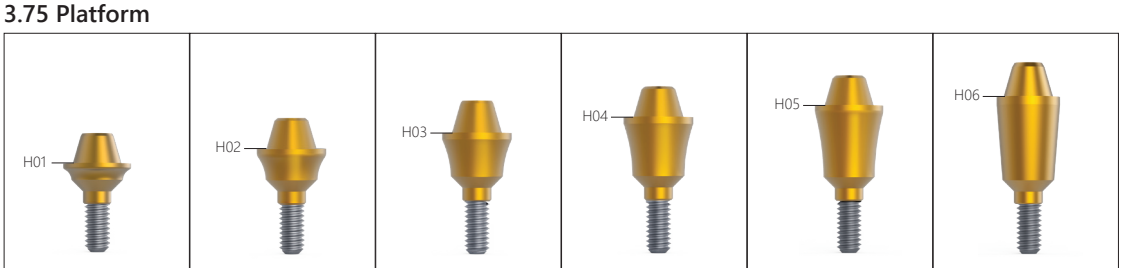
Advantages of the Procedure
Allergy protective effect
4-times harder than conventional cobalt-chrome alloy
Low friction articulation
Long-term chemical stability
Extreme adhesive strength

Properties
TiN coatings only modify the surface properties.
The material properties and biomechanical functionality is not altered by the coating.
Colour: golden yellow
Coating thickness: 1–10 µm
Roughness Ra: ≤ 0.05 µm
Adhesive strength: HF 1–2
Coating hardness: ~2,300 HV

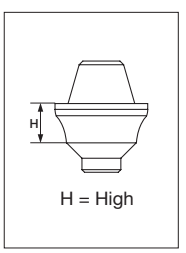
Wear resistance: extremely high wear resistance towards bone cement.
Abrasion: low friction; significant increase of scratch resistance of the surface.
Reduction of allergy potential by reduction of ion release to the detection limit.
Outstanding biocompatibility of TiN (was proved in several publications).
Review Article: ***https://www.hindawi.com/journals/bmri/2015/485975/***

AESTHETIC MINOR UNIT
Straight Multi-Unit an abutment connection to an implant can be mounted at six different heights:

3.75 Platform



EMU-0011	EMU-0021	EMU-0031	EMU-0041	EMU-0051	EMU-0061
H01 = 1.0 mm	H02 = 2.0 mm	H03 = 3.0 mm	H04 = 4.0 mm	H05 = 5.0 mm	H06 = 6.0 mm

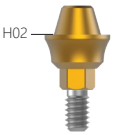
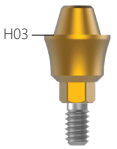
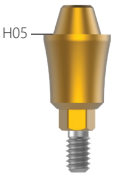


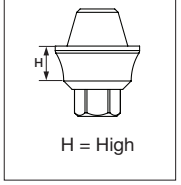
MULTI-UNIT STRAIGHT AESTHETIC ABUTMENTS

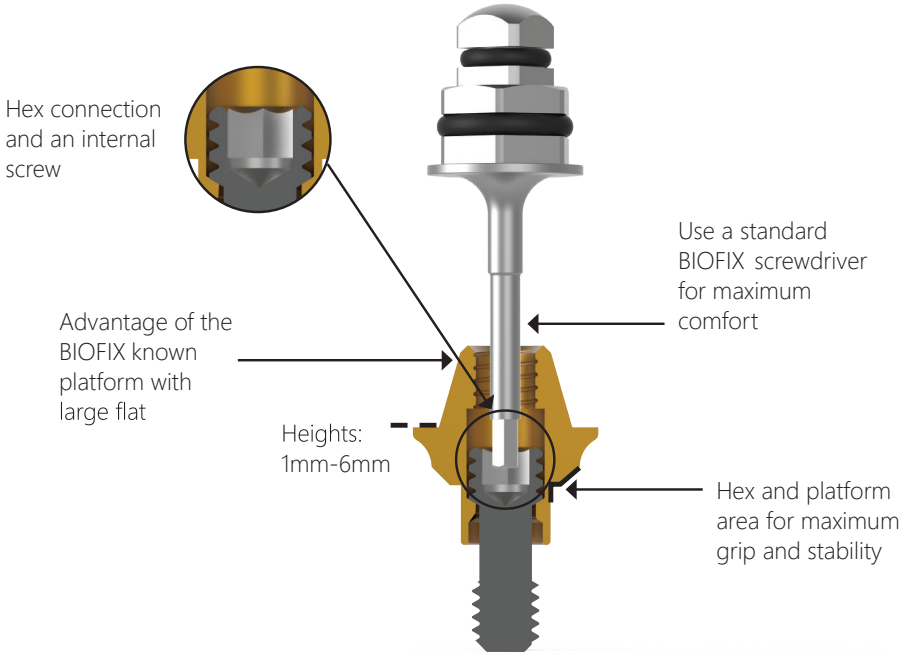
Abutments with smooth, non-locking surface for Multi-Unit Restoration

PREMIUM PRODUCT

Premiun Straight Multi-Unit with hex

					
EMU-6011 H01 = 1.0 mm	**EMU-6021** H02 = 2.0 mm	**EMU-6031** H03 = 3.0 mm	**EMU-6041** H04 = 4.0 mm	**EMU-6051** H05 = 5.0 mm	**EMU-6061** H06 = 6.0 mm





ANGULAR MULTI-UNIT SYSTEM CONCEPT

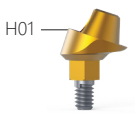
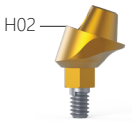
Aesthetic Multi-Unit Angular Overdenture Attachment

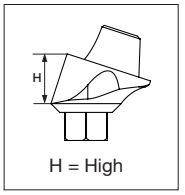
PREMIUM PRODUCT

18°, 30° and 45° Angled Multi-Unit abutments are available in four different heights: H01, H02, H03, H04.

18°

Mono-block

H01	H02	H03	H04
			
AMU-1801 H01 = 2.0 mm **18°** Angular Multi-Unit	**AMU-1811** H02 = 2.8 mm **18°** Angular Multi-Unit	**AMU-1821** H03 = 3.9 mm **18°** Angular Multi-Unit	**AMU-1831** H04 = 5.1 mm **18°** Angular Multi-Unit



30°

Mono-block

H01	H02	H03	H04
			
AMU-3001 H01 = 3.0 mm **30°** Angular Multi-Unit	**AMU-3011** H02 = 3.9 mm **30°** Angular Multi-Unit	**AMU-3021** H03 = 4.9 mm **30°** Angular Multi-Unit	**AMU-3031** H04 = 5.9 mm **30°** Angular Multi-Unit

45°

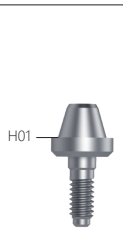
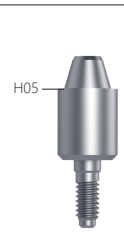
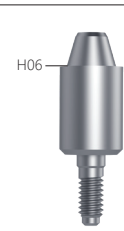
Mono-block

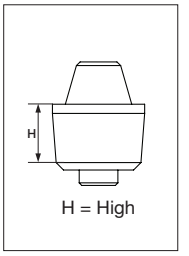
H01	H2
	
AMU-100005 H01 = 4.5 mm **45°** Angular Multi-Unit	**AMU-100064** H02 = 6 mm **45°** Angular Multi-Unit

AESTHETIC WIDE UNIT

Straight Multi-Unit for implant

4.5 Platform

					
EWU-0011 H01 = 1.0 mm	**EWU-0021** H02 = 2.0 mm	**EWU-0031** H03 = 3.0 mm	**EWU-0041** H04 = 4.0 mm	**EWU-0051** H05 = 5.0 mm	**EWU-0061** H06 = 6.0 mm



MULTI-UNIT - ACCESSORIES

							
HCC-4550 Healing cap for Multi-Unit	**TMU-1000** Open tray short transfer	**TMU-1200** Open tray transfer Screw included	**TMU-8005** Closed tray transfer with plastic cap	**WQP-0011** Plastic for closed-tray transfer	**CMU-100006** Titanium sleeve base for Cad/Cam	**TSU-100055** 3D scan body Lab device	**TSU-100043** Titanium 3D scan body Intraoral device

							
CMU-100007 Long slim titanium sleeve Ti Base L = 8.0 mm	**TSU-1250** Titanium sleeve screw included L = 12.0 mm	**TMU-0532** Titanium short sleeve screw included	**TSM-100013** Titanium sleeve for welding	**PSU-0032** Plastic sleeve screw included	**PSU-0050** Parallel connection	**AMU-1201** Analog for Multi-Unit	**DASM-100040** Digital analog for Multi-Unit

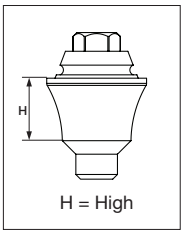
	
SMU-4023 Screw for Multi-Unit sleeve	**SMU-5022** Long head screw for Multi-Unit sleeve

GENERAL COMPATIBLE MULTI-UNIT

AESTHETIC NARROW MULTI UNIT

Straight Narrow Multi-Unit

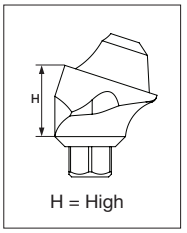
			
NMU-130018 H01 = 1.0 mm	**NMU-130019** H02 = 2.0 mm	**NMU-130020** H03 = 3.0 mm	**NMU-130021** H04 = 4.0 mm



Angular Narrow Multi-Unit

18°

	
NAMU-130022 H01 = 2.0 mm	**NAMU-130023** H02 = 3.5 mm

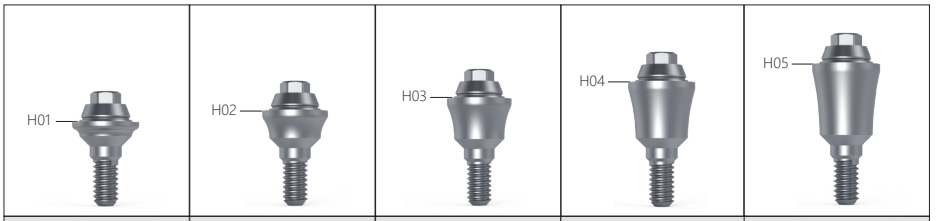


30°

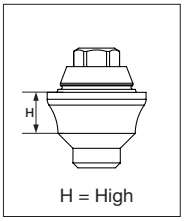
	
NAMU-130024 H01 = 2.7 mm	**NAMU-130025** H02 = 3.7 mm

AESTHETIC STANDART PLATFORM MULTI UNIT

Straight Multi-Unit

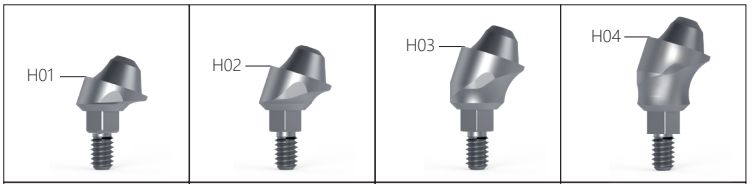


EMU-130007	EMU-130008	EMU-130009	EMU-130010	EMU-130011
H01 = 1.0 mm	H02 = 2.0 mm	H03 = 3.0 mm	H04 = 4.0 mm	H05 = 5.0 mm

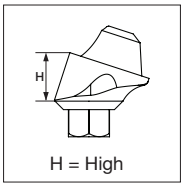


Angular Multi-Unit

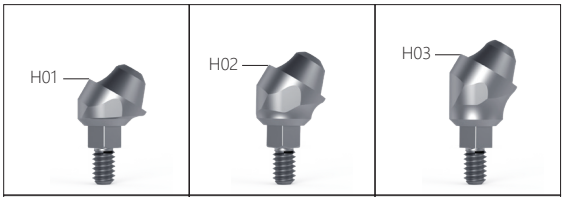
18°



AMU-130004	AMU-130005	AMU-130006	AMU-130028
H01 = 2.0 mm	H02 = 3.0 mm	H03 = 4.0 mm	H04 = 5.0 mm

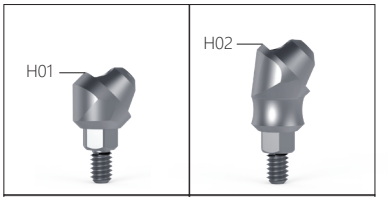


30°



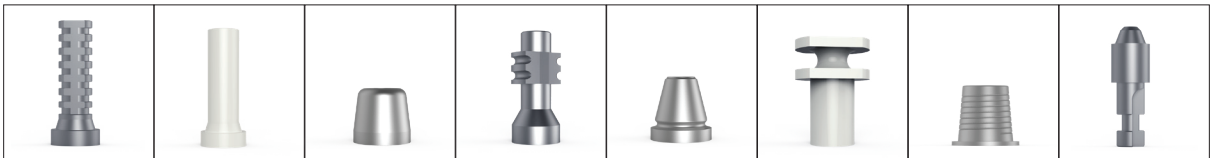
AMU-130001	AMU-130002	AMU-130003
H01 = 3.0 mm	H02 = 4.0 mm	H03 = 5.0 mm

45°



AMU-130014	AMU-130027
H01 = 4.0 mm	H02 = 6.0 mm

ACCESSORIES FOR GENERAL COMPATIBLE MULTI-UNIT

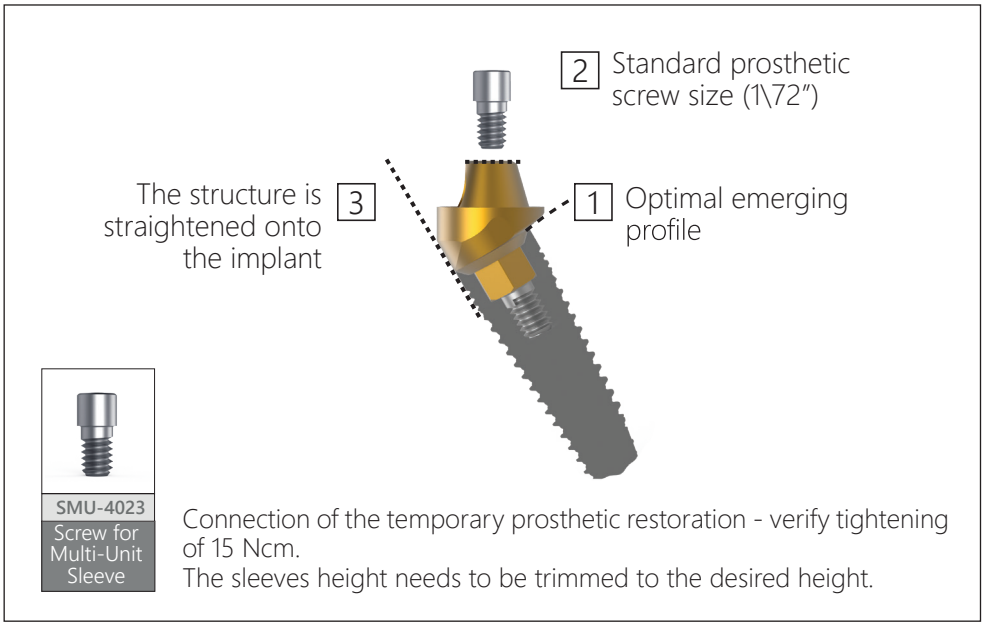


MP-300076 Titanium sleeve	SM-300140 Plastic sleeve for casting	HCC-300024 Healing cap	TM-300068 Open tray transfer	TMU-130012 closed tray transfer	WQP-130013 Closed tray plastic transfer	CMU-300134 Ti Base	AM-300070 Analog

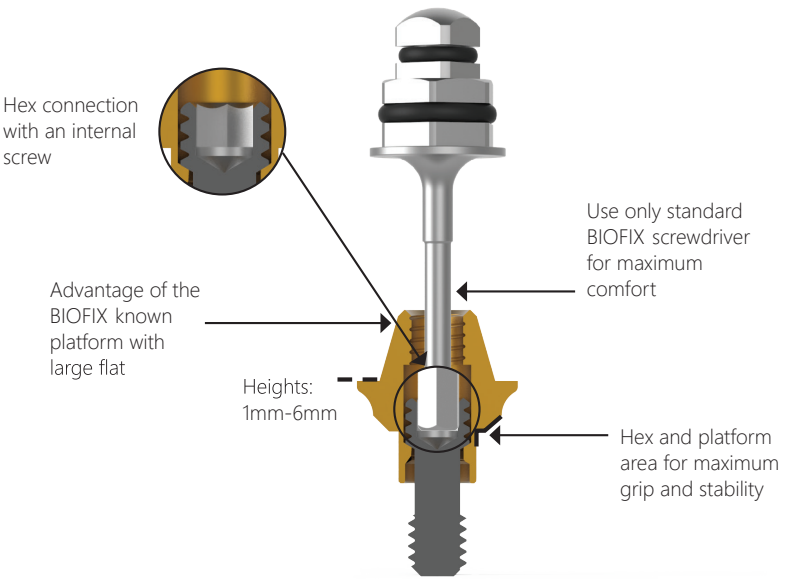


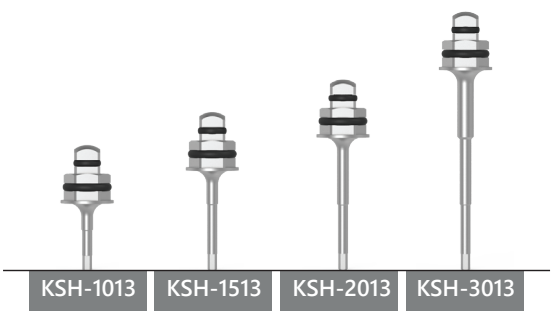
DASM-300146 Analog for digital model	NSU-3821 Screw for sleeve	TEM-130016 Straight Multi-Unit Key	TSU-300150 Scan body for general Multi-Unit

SYSTEM ADVANTAGES



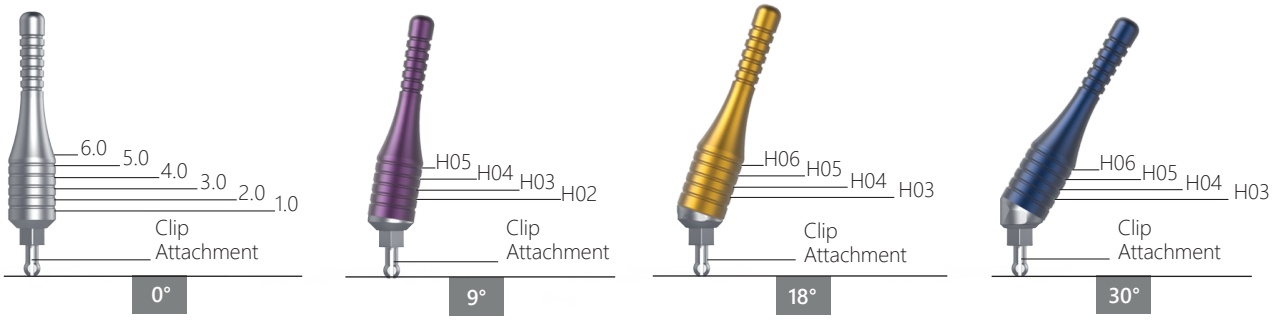
Note: The screw geometry was carefully designed and optimized to allow safe tightening and long service. Special attention must be paid while tightening the screw. Make sure to use an original BIOFIX hex key with edges that do not show wear. It is recommended to purchase additional screws.



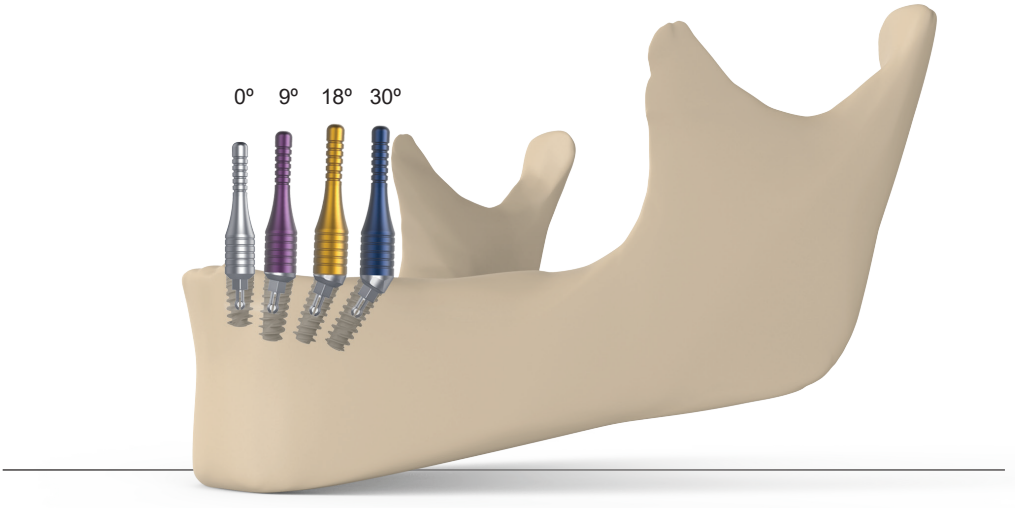


MULTI-UNIT ALIGNING CLIP GAUGE

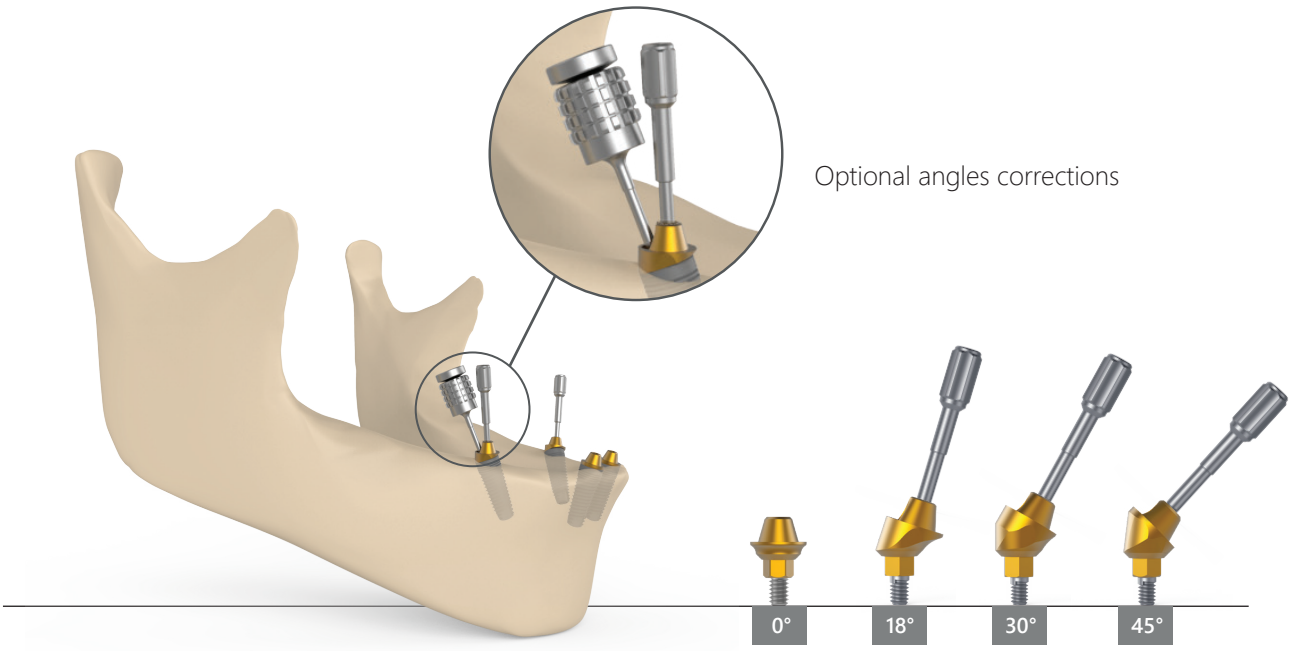
Angle and height clip gauge - use the Gauge Set for angle and height selection.



Using the angle gauges gives you an option to pre-plan the use of the abutment in order to achieve maximum parallelism.

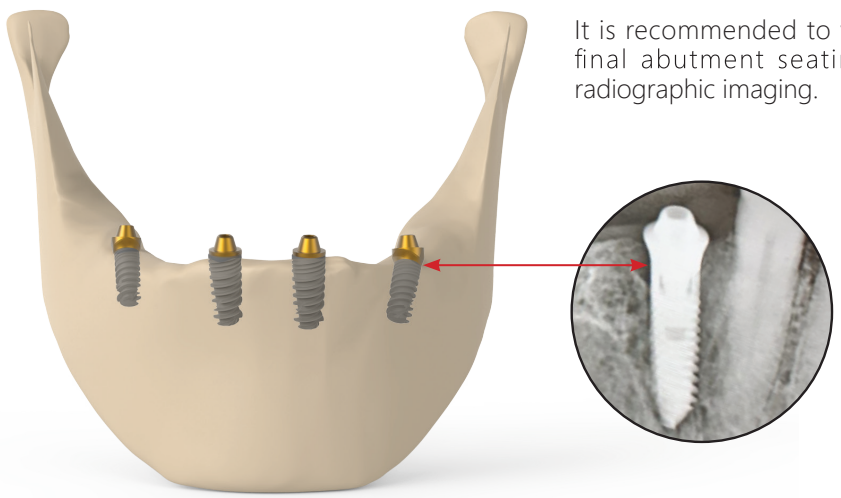


Multi-Unit connection - place the Multi-Unit abutment appropriate angle and high.
Use the holder to place the base connection into the implant.



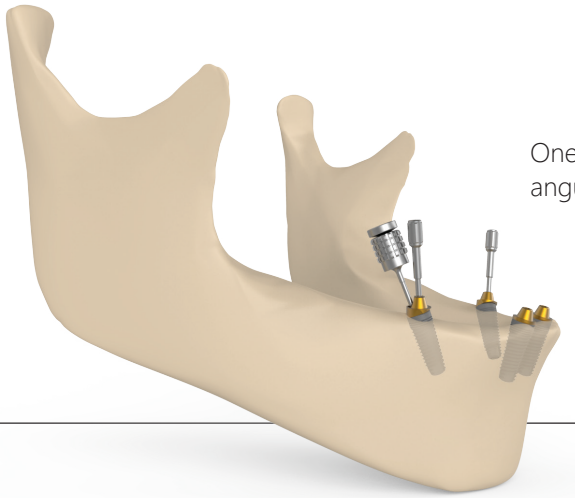
Note: Tighting force up to 20 N/cm.
The Multi-Unit with hex must be used with original BIOFIX screw driver:
KSH-1013, KSH-1513, KSH-2013, KSH-3013, MKS-0813, MKM-1513, MKL-2513.

Verify the Multi-Unit abutments attached to the implant with perfect contact to the implant platform.

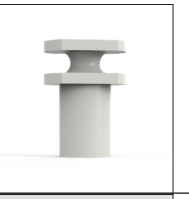


It is recommended to verify the final abutment seating using radiographic imaging.

Closed tray impression coping - with Plastic cap.
The proven way to achive time reduction with excellent presition the coping.



Ones you placed the Multi-Unit in a propriate angulation.



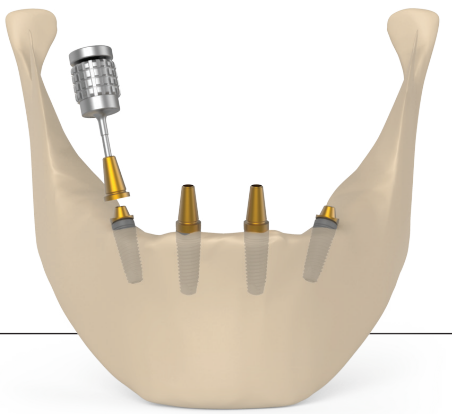
WQP-0011
Assembly

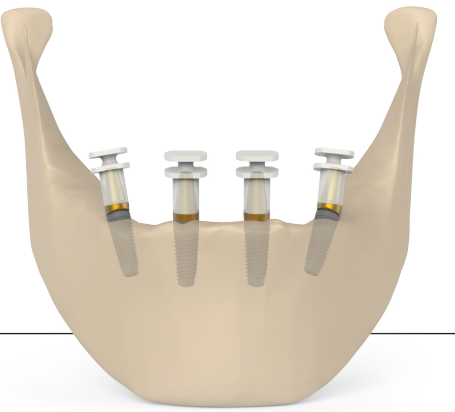
The plastic cap is produced in a lathe machine in order to maintain the plastic deformation carcter of the material. this carcter enable to have deformation of the cap without losing presition.

1. Place the transfer without any tightening force.

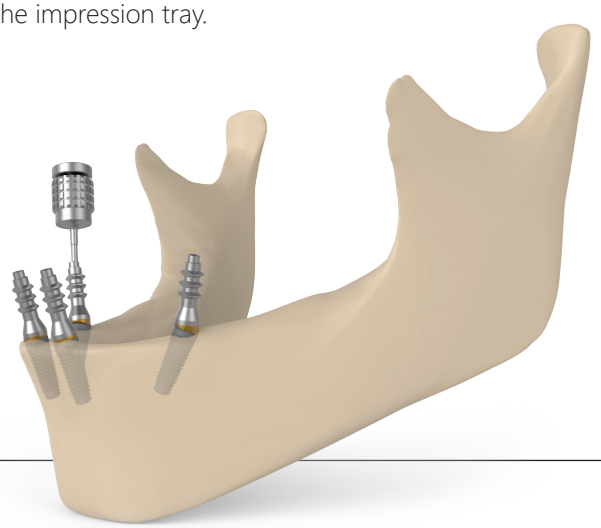
2. Snap-on the plastic cap to secure positioning.

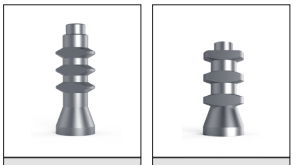
3. Use Closed-tray impression coping.



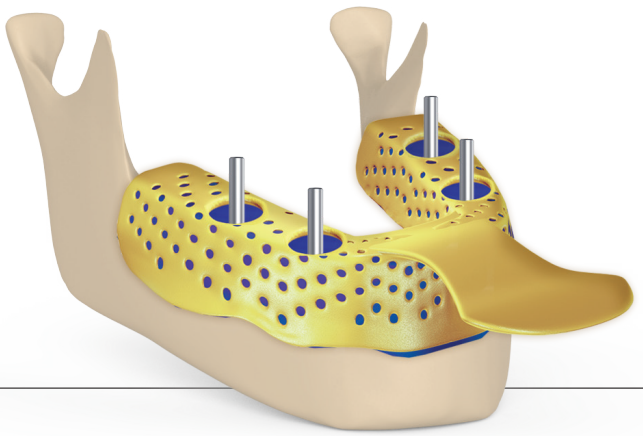


Open tray impression coping - connect the transfer onto the abutment. Inject impression material and position the impression tray.



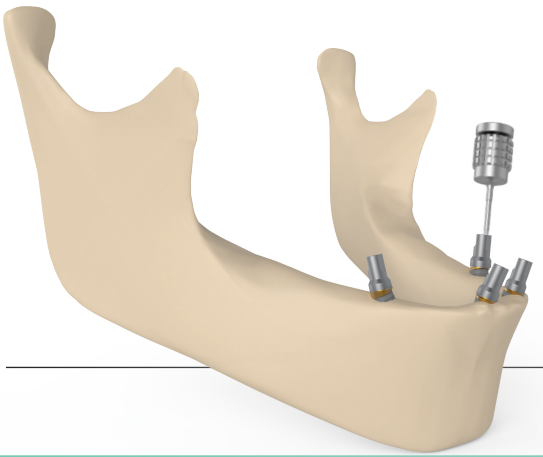


TMU-1200	TMU-1000
Open Tray Transfer	Open Tray Short Transfer



Inject impression material and position the impression tray.
Send the impression tray to the laboratory.

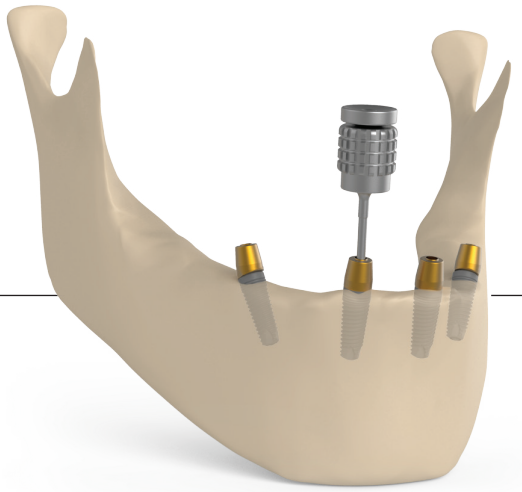
implement the intraoral scanning procedure and send the file to the lab.





⚠ **Caution:** Never exceed recommended maximum **15 Ncm** tightening torque for the abutment screw. Overtightening of abutment may lead to a screw fracture.

In cases when a two-stage surgery is indicated:
Healing procedure - connect the temporary restoration healing cap.





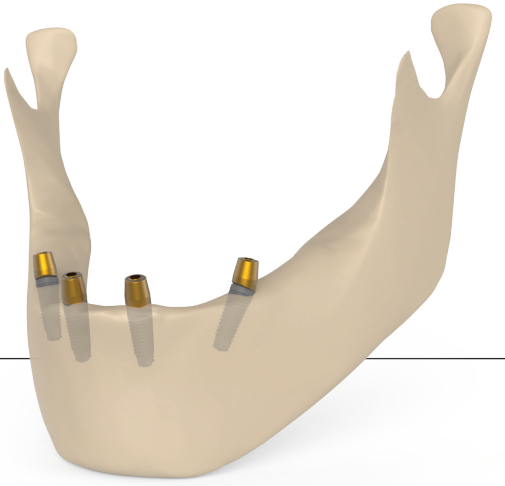
HCC-4550

Healing Cap

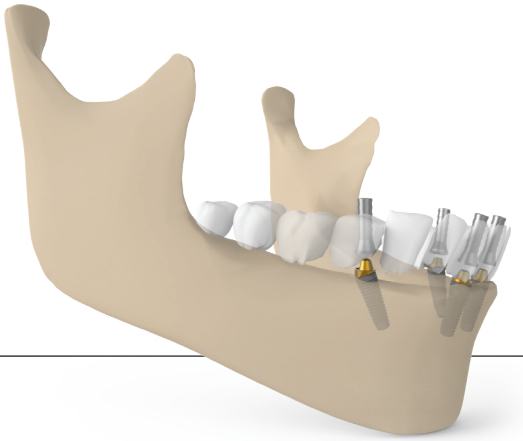
Very importent to use the healing cap during the operation procedure to eliminate the possibility of gum swelling on the multi-unit connection.

Provisional

The original denture can be used on top of the healing caps while the temporary denture is being produced.



Simple immediate restoration implantation





TSU-1250

Titanium Sleeve



CMU-100007

Titanium Sleeve

GENERAL OPTIONS CUSTOMIZED RESTORATION

Temporary bridge PMMA
on titanium base adapter



Pre op bar overdenture



chrome cobalt bridge direct on Multi-Unit



Titanium bridge direct on Multi-Unit



Fiberglass bar on titanium
base adapter

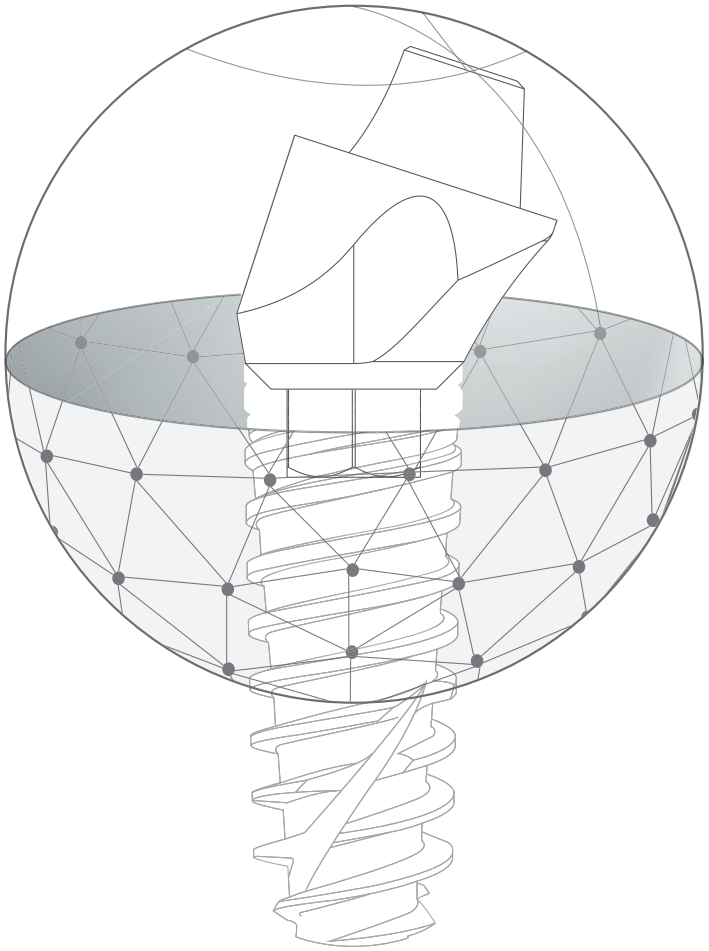


Zirconium bridge on titanium
base adapter



INNOVATIVE SCREW RETAINED CONCEPT

BIOFIX's unique Multi-Unit system provides a solution for screw-retained prostheses. BIOFIX designed the system to provide a solution for multiple tilted implants cases that are complicated to restore. The Multi-Unit system provides a superior prosthetic solutions and covers a full range of sizes for both the upper and lower jaws: This low profile system comes in different angels: a straight adapter, 18°, 30° and 45° angle adapters, in a variety of gingival heights. The system also contains all the significant complementary products needed.



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