



The IMZ Implant System



IMZ - Original

The IMZ Implant System was developed in Germany by Dr. Axel Kirsch in the early 1970's. It is the only major implant system using a shock absorbing intermobile element designed to simulate the periodontal ligament.

■ **IMZ Original 3.3 & 4.0 non-hex flat-top**

■ **IMZ Original**

The original IMZ implant was manufactured in two diameters – 3.3mm and 4.0mm. The internal thread of the 3.3mm implant is 2.4mm and the 4.0mm implant has a 3.0mm thread. The external implant body is either titanium plasma sprayed or HA coated with hydroxalapatite. The IMZ implant body is no longer sold, however, IMZ restorative components, such as the complete abutment, UMA, etc., can still be purchased from Attachments International.

Implants	Restoratively Compatible To
■ IMZ Original 3.3 & 4.0 non-hex flat-top	none

Indications and Quantities of Implants recommended:

- * **Single Tooth Replacement**
One implant is required. Use the IMZ Hex Head for this type restoration. Not recommended with the original IMZ 3.3 or 4.0.
- * **Bridge Reconstructions**
Recommended for 1 implant attached to an abutment, or for 2 or more free standing implants using a tissue extension.
- * **Fixed / Detachable Reconstructions**
Recommended for 5 or more implants on a fully edentulous arch.
- * **Bar Type Overdentures**
Recommended for 2 or more implants using a UMA, complete abutment or IME tissue extension, or for an implant attached to a natural abutment.
- * **Stud Type Overdentures**
Requires at least 1 implant. Whenever possible more implants should be used.



Terminology of Components

Restorative Components:

The restorative components are the elements used to fabricate a restoration that will be connected to the implant(s). The restoration may also be attached to an intermediate component called a tissue extension (UMA or IME) or abutment which in turn is connected to the implant(s).

Implant Body:

The implant body is placed into the bone for approximately 4-6 months to allow for osseointegration. The implants should not be loaded prior to osseointegration.



IMZ - Original

Tissue Extension:

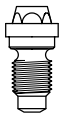
The TE (Tissue Extension) also referred to as the Complete Abutment, is the intermediate connector between the implant and the restoration, it may extend above the tissue. In some instances, a TE extension is subgingival, to provide a more esthetic restoration.



Complete Abutment

Implant Standardization:

The UMA tissue extension was developed to standardize the many different implant companies' components and instruments for a more economically controlled inventory and for simplicity of restorative procedures. Its tapered/hexagon fitting surface is identical, regardless of the size or type of implant employed, while its screw-in base is implant specific.



UMA

Compatibility:

Implants

■ **IMZ Original** 3.3 & 4.0 non-hex flat-top

Restoratively Compatible To

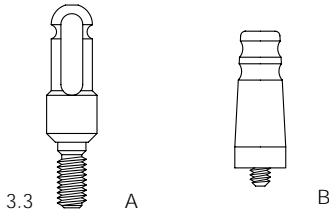
none



IMPRESSION COPINGS

Impression copings are used to take an impression of the implant body or the tissue extension, such as the UMA, Complete abutment, titanium IME, or plastic IME. The Impression Copings which fit the implant bodies are made of titanium and transfer the thread timing. The new style

IME/UMA impression coping is made of titanium and is more accurate than the old style plastic impression coping. For the IMZ-Hex Head implant, refer to the Branemark compatible section. When the UMA insert is used as a tissue extension, the standard line of UMA components is indicated.



SD Small Implant Diameter IMZ 3.3
MD Medium Implant Diameter IMZ 4.0



Description

Impression Copings—To Fit Implant

Impression Coping for IMZ (A)

Order #	Order #
56-300080	56-400080
56-000080	56-000080

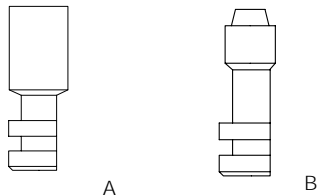
Impression Copings—To Fit UMA / IME or Complete Abutments

IME/UMA Impression Coping Tapered 3.3 or 4.0 (B)

ANALOGS

Analogs are used for the fabrication of a master model. They are replicas of the implant body or the IME or

Complete abutment tissue extension. The new IME impression technique requires only one analog.



Description

IMZ Implant Body Analog, Brass (A)

IME Analog, Brass (B)

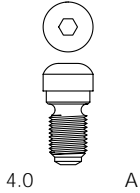
Order #	Order #
56-300015	56-400015
56-000015	56-000015



HEALING CAPS

Healing caps are used to maintain access through tissue during healing phase. They are available in various heights to accommodate tissue depth. Two types of titanium healing

caps are available, both requiring the .050" hex driver:
1) fits directly to the implant, 2) fits on the IME or the UMA.



SD Small Implant Diameter IMZ 3.3
MD Medium Implant Diameter IMZ 4.0

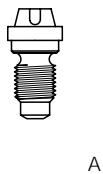


Description	Dimensions	Order #	Order #
Healing Caps—To Fit Implant			
Implant Healing Cap (A)	H=2.0mm	56-302120	56-402120
Implant Healing Cap	H=4.0mm	56-302140	56-402140
Implant Healing Cap	H=6.0mm	56-302160	56-402160
Healing Caps—To Fit IME/UMA			
IME, UMA Healing Cap	H=2.0mm	11-002120	11-002120
IME, UMA Healing Cap	H=4.0mm	11-002140	11-002140
IME, UMA Healing Cap	H=6.0mm	11-002160	11-002160
TOOLS			
DDS Hex Driver .505"		11-000007	11-000007

COMPLETE ABUTMENT (TISSUE EXTENSION) NEW STYLE

The complete titanium abutments are extensions to fit from the implant through the tissue, without the TIE. The Complete Abutment combines the TIE and the IME in one unit, like the UMA. The UMA healing caps will also fit the IME or Complete abutment.

When the UMA insert is used in place of the IME or the Complete Abutment, then the standard line of UMA components are indicated.



Description	Dimensions	Order #	Order #
Complete Abutment 3.3	OH=2.5mm	56-318330	—
Complete Abutment 3.3	OH=3.5mm	56-318335	—
Complete Abutment 4.0	OH=2.0mm	—	56-418320
Complete Abutment 4.0	OH=3.0mm	—	56-418330
Complete Abutment 4.0	OH=5.0mm	—	56-418350
TOOLS			
LT / RA Handle			58-100190
LT / RA Complete Abutment Tip			58-100170
Impression Coping for IME or Complete Abutment			56-000080
Brass Analog for IME or Complete Abutment			56-000015

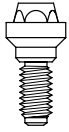
OH = Overall Height



UMA ABUTMENT (TISSUE EXTENSION)

The UMA titanium abutments are extensions which fit from the implant through the tissue, without the TIE. The UMA is the most widely used universal abutment utilizing a hex and a taper. The UMA is available for most commonly available

implant systems. The standard UMA components are indicated when the UMA insert is used in place of the IME or the complete abutment. For details, refer to the UMA section.



3.3



4.0

- SD** Small Implant Diameter IMZ 3.3
- MD** Medium Implant Diameter IMZ 4.0



Description	Dimensions	Order #	Order #
UMA Abutment	0.5mm	—	11-001405
UMA Abutment	1.0mm	—	11-001410
UMA Abutment	2.0mm	11-001320	11-001420
UMA Abutment	3.0mm	11-001330	11-001430
UMA Abutment	4.0mm	11-001340	11-001440
UMA Abutment	5.0mm	11-001350	11-001450
UMA Abutment	6.0mm	11-001360	11-001460
UMA Abutment	7.0mm	11-001370	11-001470

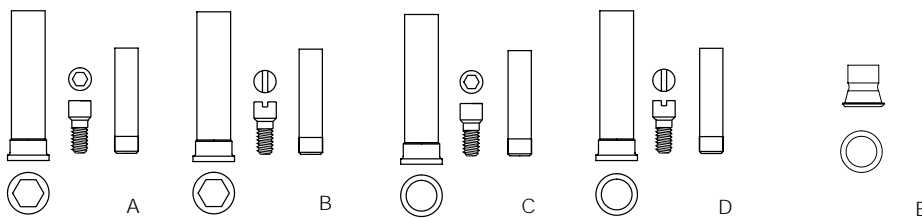
TOOLS:

- UMA Abutment Driver see UMA section
- UMA Impression Coping, Tapered Non-Hex 11-000080
- UMA Impression Coping Hex w/ .050" Hex Guide Pin 11-000090
- UMA Brass Analog 11-000015

UMA, CYLINDER, SCREW & PLUG (CSP)

The UMA, CSP consists of a machined plastic cylinder hex or non-hex (bridge) type, a hex or slot screw, and an occlusal plug to seal the opening of the occlusal access

hole. The hex cylinders are used for single or telescopic abutments, while the non-hex cylinders are used for bridges or overdenture bars.



Description	Order #
UMA, CSP Hex Cyl & Hex .050" Screw & Plug (A)	11-000202
UMA, CSP Hex Cyl & Slot Screw & Plug (B)	11-000201
UMA, CSP Non-Hex Cyl & Hex .050" Screw & Plug (C)	11-000252
UMA, CSP Non-Hex Cyl & Slot Screw & Plug (D)	11-000251
UMA, Short Cylinder Only, Red (E)	11-000270

TOOLS:

- UMA, Reamer Gold Handle 11-000150
- UMA, Lapping Tool and Guide Pin 11-000155

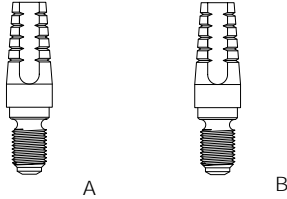
Note: For Slot Screws do not exceed 10 N/cm of torque.



TITANIUM & PLASTIC POSTS

The direct titanium abutment posts screw into the implant body and are indicated for Bridge Restorations only. They may be secured with Teflon tape, Omni-Lite or OMNI-Bond

(see misc. implant section). The tapered posts can be altered like a preparation. Fabricate a soft tissue model whenever preparations are made in the laboratory.



SD Small Implant Diameter IMZ 3.3
MD Medium Implant Diameter IMZ 4.0



Description

Direct Titanium Posts (A)
Direct Plastic Posts (B)

Order #	Order #
56-301200	56-401200
56-301100	56-401100
56-300080	56-400080
56-300015	56-400015

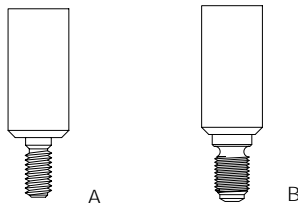
USE WITH:

Impression Coping
Implant Body Analog

TI-BLOC

The titanium bloc screws into the implant body and may be secured with Teflon tape, Omni-Lite or OMNI-Bond. The Ti-Bloc requires more preparation as it is a true cylindrical

bloc. However, the Ti-Bloc can be prepared like a posterior prep, thereby increasing the esthetics and comfort. It can also be prepared to correct for divergency.



Description

Ti-Bloc 3.3 small (A)
Ti-Bloc 3.3 medium
Ti-Bloc 4.0 small (B)
Ti-Bloc 4.0 medium

Dimensions

ø=4.0mm
ø=8.0mm
ø=5.0mm
ø=8.0mm

Order #	Order #
56-301210	—
56-301220	—
—	56-401210
—	56-401220
56-300080	56-400080
56-300015	56-400015

USE WITH:

Impression Coping
Implant Body Analog

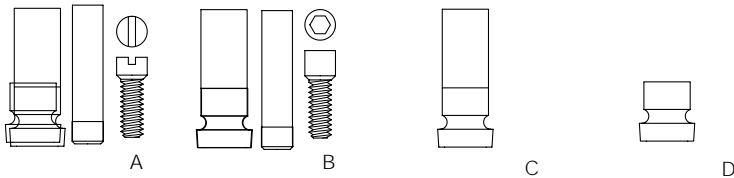


PLASTIC CYLINDERS TO FIT IME & COMPLETE ABUTMENT

The plastic cylinders will fit the IME as well as the Complete Abutment. We recommend the castable plastic cylinders as there will be no coefficient problem or breakage around the cylinder. The cylinders use the short screws that are available with a slot or with a .050" hex head.

The CSP abbreviation means that it includes the long gray castable plastic cylinder, a screw, and an occlusal plug.

DO NOT CAST IMPLANT RESTORATIONS IN BASE ALLOY (NON-PRECIOUS).



SD Small Implant Diameter IMZ 3.3
MD Medium Implant Diameter IMZ 4.0



Description

CSP (Cylinder, Screw & Plug)

CSP, Cylinder, Slot Screw and Plug (A)
CSP, Cylinder, .050" Hex Screw and Plug (B)

PARTS

Plastic Cylinder, Long for 3.3 or 4.0 (C)
Plastic Cylinder, Short for 3.3 or 4.0 (D)

Slot Screw Only
Hex .050" Screw Only

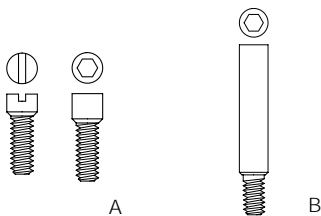
TOOLS

UMA, Reamer Gold Handle
UMA, Lapping Tool and Guide Pin

Order #	Order #
56-300251	56-400251
56-300252	56-400252
56-000250	56-000250
56-000270	56-000270
56-300051	56-400051
56-300052	56-400052
	11-000150
	11-000155

SCREWS & GUIDE PINS

The titanium screws and titanium guide pins are used to fasten the restoration to the abutments.



Description

Screws (A)

Slot Screw
Hex .050" Screw

Guide Pins (B)

Guide Pins .050" Hex

Order #	Order #
56-300051	56-400051
56-300052	56-400052
11-000062	11-000062



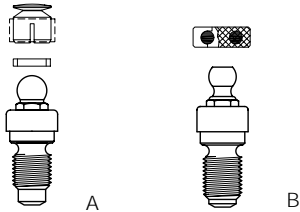
Note: For Slot Screws do not exceed 10 N/cm of torque.



OVERDENTURE STUD TYPE ATTACHMENTS

Two overdenture attachments are commonly used to directly screw in to the implant – the Dalla Bona and the ORS, O-Ring system. Both male elements are made of titanium and are attached directly to the implant body. The Dalla Bona includes 1 male, 1 adjustable female, 1 spacer and

1 brass analog. The ORS includes 1 male, 1 retainer ring, 3 white and 3 red O-Rings and a brass analog. The retention of the Dalla Bona female is adjustable with the activating/deactivating tool.



SD Small Implant Diameter IMZ 3.3
MD Medium Implant Diameter IMZ 4.0



Description	Dimensions		Order #	Order #
Dalla Bona System (A)				
Dalla Bona, complete	H=1mm		56-343010	56-443010
Dalla Bona, complete	H=2mm		56-343020	56-443020
Dalla Bona, complete	H=3mm		56-343030	56-443030
Dalla Bona, complete	H=4mm		56-343040	56-443040
Dalla Bona, complete	H=5mm		56-343050	56-443050
Dalla Bona, complete	H=6mm		56-343060	56-443060
Dalla Bona, complete	H=7mm		56-343070	56-443070
ORS, O-Ring System (B)				
ORS, complete	H=1mm		56-344010	56-444010
ORS, complete	H=2mm		56-344020	56-444020
ORS, complete	H=3mm		56-344030	56-444030
ORS, complete	H=4mm		56-344040	56-444040
ORS, complete	H=5mm		56-344050	56-444050
ORS, complete	H=6mm		56-344060	56-444060
ORS, complete	H=7mm		56-344070	56-444070
PARTS				
Dalla Bona, Implant Ti Female, Spacer & Analog	Fø=3.4mm		40-430002	40-430002
Dalla Bona, Ti Female & Spacer only	Fø=3.4mm		99-451012	99-451012
ORS, Retainer Rings (6)	H=2.0mm ø=5.1mm		99-440044	99-440044
ORS, Combo O-Rings 10 red, 10 wt., 10 blk	Mø=4.5mm		99-443037	99-443037
ORS, Implant Retainer Ring, Analog & O-Rings			40-440002	40-440002
TOOLS				
Bio-Torq Socket			59-100190	59-100190
Bio-Torq ORS / Dalla Bona Tip			59-100140	59-100140
LT/RA Handle			58-100190	58-100190
LT/RA ORS / Dalla Bona Tip			58-100140	58-100140
Dalla Bona Activating Tool, Blue			99-451017	99-451017
Dalla Bona Deactivating Tool, Yellow			99-451018	99-451018



Tip: If you only need the male element Dalla Bona or ORS, replace the last zero of the order number with a 3. For example: 56-343010 is the DB Complete for IMZ 3.3. The male only is 56-343013.



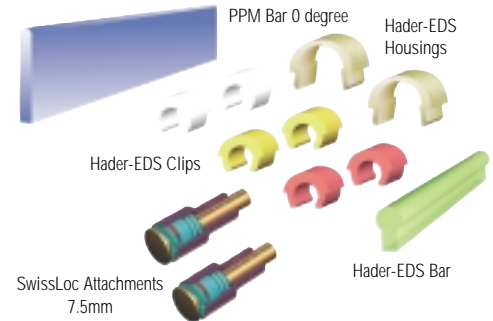
UBS BAR SYSTEM

The UBS—Ultimate Bar System is a convenient kit designed to facilitate the construction of implant bar retained overdentures. In designing this system, consideration has been given to function, ease of use and prevention of distal lift-off while allowing resiliency from the most anterior bar segment.

Applications: Indications are for bar overdentures, precision partial dentures and patient removable implant restorations.

Each system includes:

- 1 Hader-EDS Bar, green plastic (50mm)
- 6 Hader-EDS clips—2 of each retention (2 white, 2 yellow, 2 red)
- 2 Hader-EDS Housings, gold plated stainless steel
- 1 Hader-EDS Seating Tool
- 2 SwissLoc Attachments 7.5mm—adjustable to 4.0mm
- 2 SwissLoc Processing Jigs
- 1 PPM Bar 0 degree, blue plastic (50mm)
- 1 PPM 0 degree Mandrel
- 1 RA 1.5mm Reamer



Description	Order #
UBS BAR KIT UBS - Ultimate Bar System	99-551000



Note: To purchase components or parts separately, refer to the respective pages in the Renew Biocare main catalog.

REAMERS

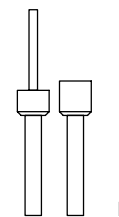
The reamers are used to refine the internal access hole of a castable cylinder. The reamers also refine the seat for the head of the screw. The Reamer fits all UMA and IMZ IME European new style cylinders.



Description	Order #
UMA, Reamer Gold Handle	11-000150

LAPPING TOOLS & PASTE

The Lapping tools are used with diamond polishing paste to refine the fitting surface of the cast cylinder. We recommend that you use it not more than 5-6 times. For superior restorations, you may want to use the 1 micron white diamond lapping paste. The lapping tool fits the cylinders for the Complete Abutment, IME and UMA.



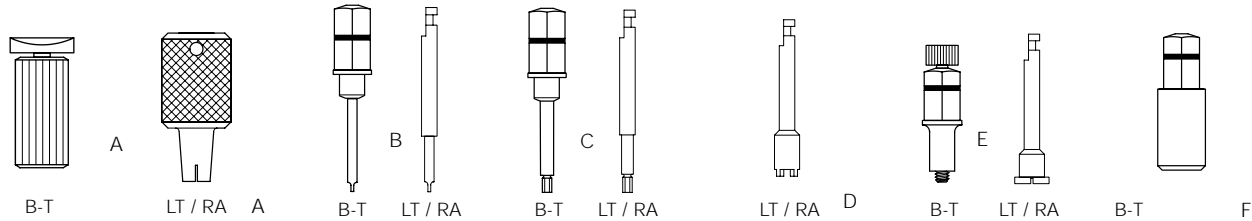
Description	Order #
UMA, Lapping Tool and Guide Pin	11-000155
Lapping Diamond Paste	40-001010



INSERTION DRIVERS

The Bio-Torq (B-T) and LT / RA Systems were designed to facilitate the insertion of implant components. The Bio-Torq Branemark compatible insertion tips may be utilized with the

Bio-Torq socket / adapter or the Bio-Torq wrenches. The LT / RA (latch type) tips are used with right angle handpiece type drivers.

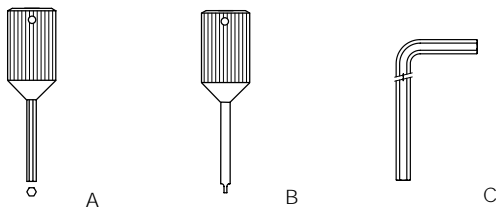


Description	Order #	Order #
	Bio-Torq	LT/RA Driver
Hand Held Socket / Handle (A)	59-100190	58-100190
Slot Tip Short	59-100110	58-100110
Slot Tip Long (B)	59-100115	58-100115
.050" Hex Tip Short	59-100120	58-100120
.050" Hex Tip Long (C)	59-100125	58-100125
.048" Hex Tip Short	59-100130	58-100130
.048" Hex Tip Long	59-100135	58-100135
.9mm CS Hex Tip Short	59-100200	N/A
Complete Abutment Tip (D)	N/A	58-100170
UMA Tip Short (E)	59-100150	58-100150
UMA Tip Long	59-100155	N/A
Bio-Torq Extension	59-100195	N/A



Note: For Slot Screws do not exceed 10 N/cm of torque.

STANDARD DRIVERS, B-T WRENCHES & LT / RA DRIVER



Description	Order #
Standard Drivers	
DDS .050" Hex Driver (A)	11-000007
DDS Slot Screwdriver (B)	11-000005
Lab .050" Hex Driver (C)	11-000006
BIO-TORQ Wrenches & LT / RA Driver	
BIO-TORQ Wrench 10 N/cm	59-100010
BIO-TORQ Wrench 20 N/cm	59-100020
BIO-TORQ Wrench 30 N/cm	59-100030
LT / RA Driver	58-100000