

AMEA®

1975

PRODUCER OF SPECIAL ALLOYS SINCE

IGE A  
IMPLANT SYSTEM



**The only way to do great work is to love what you do.  
If you haven't yet found what's right for you continue to  
look for it, don't stop, you will know you have found it as  
soon as you see it in front of you.**

**“Steve Jobs”**



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# HISTORY

**Mesa Italia S.r.l. is a leading Italian manufacturer of dental alloys since 1975.** The strength of the Mesa company is the long family tradition that has allowed, founder Giacomo Sala, to pass on the same creative ambition to his two sons Lorenzo and Valerio, promoting a product, the quality of which is recognized both nationally and internationally.

Business continuity, combined with an enduring drive for research and innovation, has enabled the company to make its product portfolio even more comprehensive by channeling interest into the implantology field.

Several divisions operate within the company:

- Administrative and Commercial
- Technological
- Warehouse
- Scientific





The administrative and commercial division is staffed by highly qualified, client-focused personnel who can provide technical and commercial support in 5 languages so as to facilitate every request on the use of the various commodity products for sale; it is present in Italy with agents, while, in the rest of the world, it is represented by distributors managed by area heads.

The technical department consists of four engineers and skilled technicians who, with the help of high-precision tools, enable the production of high-quality machined products.

The “warehousing” division relies on automated vertical warehouses that not only rationalize space but also allow operators precise preparation of orders to be filled.

The science division is in charge of educational communication and scientific-technical research. Oral maxillofacial surgeons and a team of dental technicians are in charge of theoretical and clinical courses.



# INNOVATION

Mesa Italia bases its “know how” in machining, is well aware of the problems arising from any machining defect and imposes scrupulous evaluation and validation protocols on the devices it produces.

The careful selection of raw materials is a daily effort to maintain an excellent level of quality in the products we market.

The production process is carried out by a staff of highly skilled engineers and operators who conduct daily studies on production technology. Mechanical production is done with state-of-the-art sliding headstock machines.

All stages of our production process take place exclusively in Italy and are subject to constant quality control.



# RESEARCH

Igea Implant System was born from the Mesa company's 50 years of experience in the dental field as well as from constructive discussions with dentists. The research and development team based their knowledge on the latest state of the art and designed a system with a simple and functional systematics.







The two terms simple and functional well summarize the dual goal the company is committed to: ensuring innovative solutions that at the same time meet clinicians' expectations. Thanks to collaboration with Italian University Institutions, microleakage tests on our fixture and compatibility studies on the materials of our implant system were carried out. The company has equipped itself with an INSTRON fatigue test system, on which static and dynamic tests were carried out taking ISO 14801:2017 "Dentistry, Implants, Dynamic fatigue test for endo-osseous dental implants" as reference.



# IMPLANT DESCRIPTION

**MACHINED NECK (0.3 mm):**  
preserves the implant from the  
bacterial colonization

**DUAL-PRINCIPLE THREADING:**  
allows a uniform and easy  
insertion with half turns.

**THREAD PITCH:**  
1.2 mm, except for  
the  $\varnothing 5$  mm  
equal to 1.6 mm

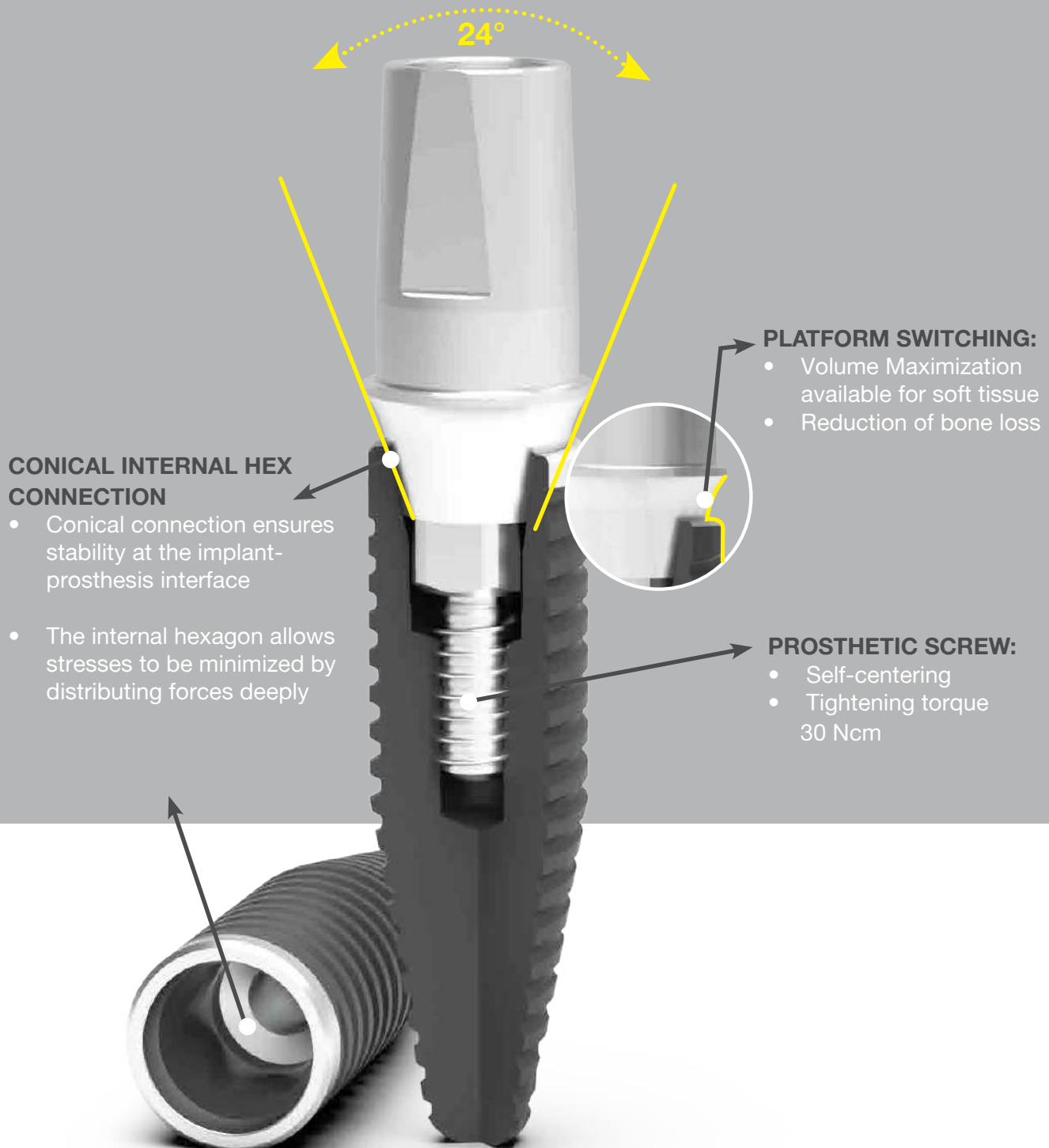
**APICAL CUTTING EDGE:**  
primary achieve stability in  
all types of bone density

**ATRAUMATIC CONICAL APEX:**  
Minimizes the risk of damage to  
underlying anatomical structures

The **CONICAL-CYLINDRICAL** shape of the implant guarantees a  
optimal and uniform distribution of masticatory load.



# CONICAL HEXAGONAL CONNECTION



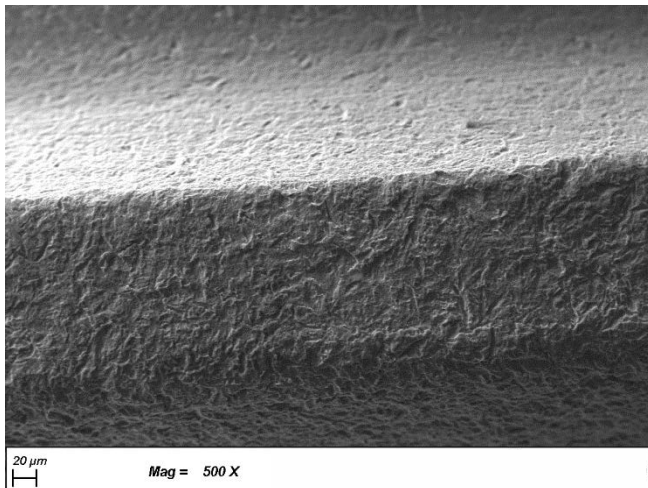
The conical connection with internal hexagon **offers the possibility of balancing load forces** acting on the prosthetic component **preventing** even potential **unscrewing phenomena**.







# THE IMPLANT SURFACE

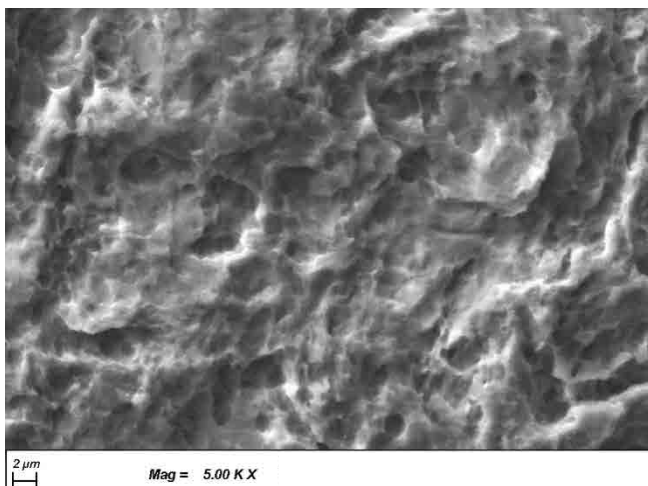


## MATERIAL

The company uses Grade 4 Titanium to produce its entire line of dental implants. This alloy provides rapid osseointegration, excellent biocompatibility and has the highest mechanical strength among commercially pure Titanium grades.

## WASHING

Mesa Italia operates thorough cleaning processes on all equipment through advanced technologies to remove any traces of dirt from industrial processing.



## SLA

The surface treatment performed on Mesa Igea implants involves a sandblasting process followed by acid etching in order to increase the contact surface area and promote osteoblastic cell differentiation.

# IGEA REGULAR IMPLANTS



**R= REGULAR**



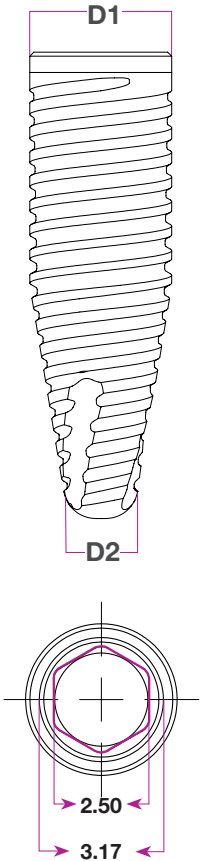
# REGULAR IMPLANT

COLOR CODE

3.8 mm

4.3 mm

5.0 mm



	D1 mm	D2 mm	L mm	Code
	3.8	1.9	8	Ti4-Igea-1006
		1.9	10	Ti4-Igea-1007
		1.9	11.5	Ti4-Igea-1008
		1.9	13	Ti4-Igea-1009
		1.9	15	Ti4-Igea-1010
	4.3	2.2	8	Ti4-Igea-1026
		2.2	10	Ti4-Igea-1027
		2.2	11.5	Ti4-Igea-1028
		2.2	13	Ti4-Igea-1029
		2.2	15	Ti4-Igea-1030
	5.0	2.6	8	Ti4-Igea-1021
		2.6	10	Ti4-Igea-1022
		2.6	11.5	Ti4-Igea-1023
		2.6	13	Ti4-Igea-1024
		2.6	15	Ti4-Igea-1025



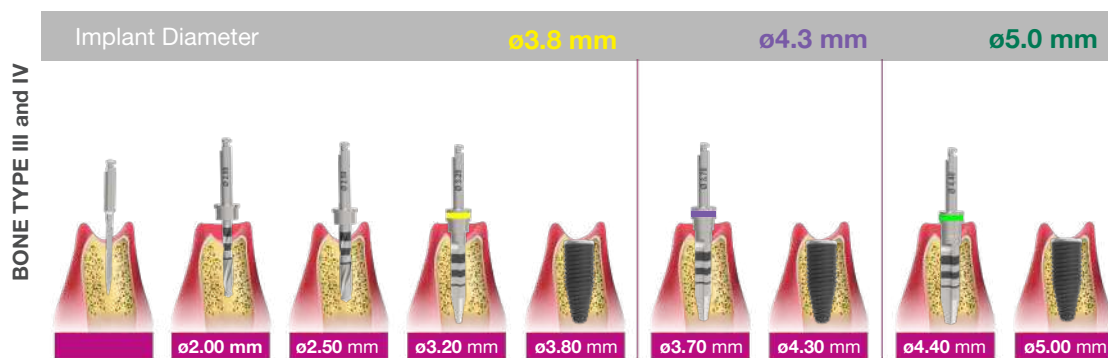
## COVER SCREW

	Thread	Code
	M2	CPS-1500



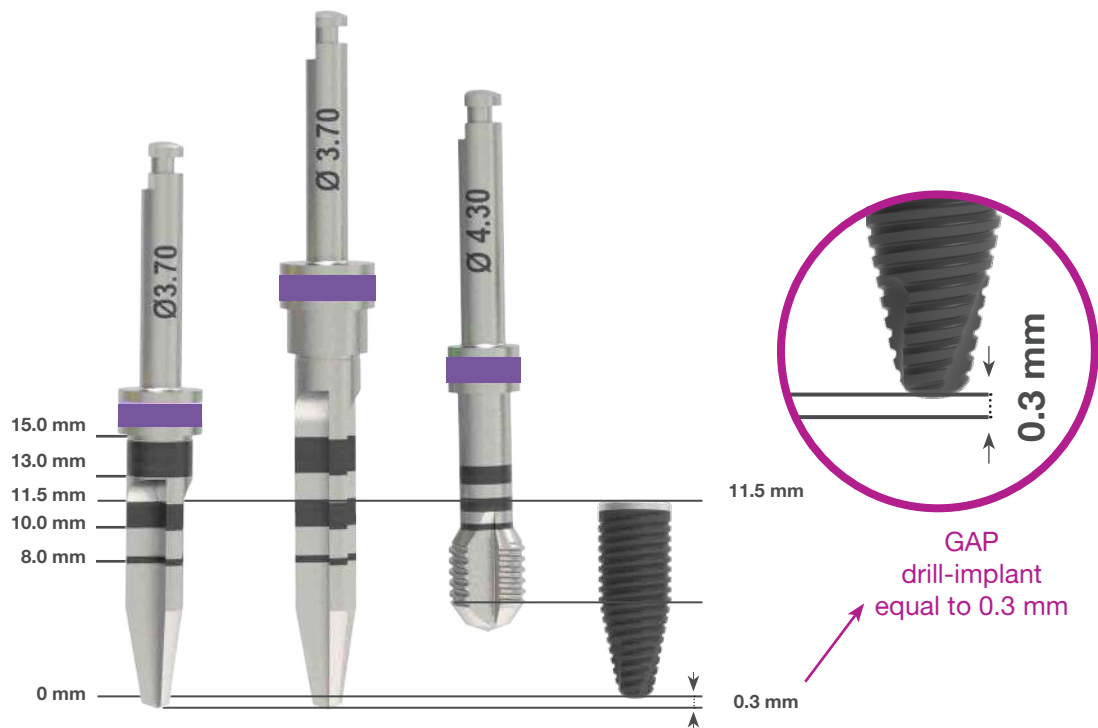
# SURGICAL PROTOCOL

The plant platform should be placed at the bone crest (crestal placement)



The surgical protocol of the Igea implant was developed to provide surgeons with the following

Guidance on how to choose the most appropriate tools for site preparation implant depending on the type of bone. However, it is the surgeon's job to apply the most appropriate protocol based on one's experience



# SURGICAL PROTOCOL

**NOTE:** Do not exceed a tightening torque of 45 Ncm for implants: excessive torque can damage the implant and can cause bone necrosis.



(\*) In order to maintain the desired insertion torque, **in dense bone, it is recommended the use of the tapper, at the maximum speed of 20 rpm and only with the diameter corresponding to the width of the implant bed.**

All drills and tappers are made of stainless steel for medical use.

The line of surgical drills is comprehensive and easy to use.

All diameters of MESA IGEA implants share the formed drills and spiral drill; depending then on the implant diameter, specific formed drills are provided.

### FEATURES AND ADVANTAGES:

- Each formed drill has depth bands highlighted in contrasting colors and is color-coded for better identification.

**DRILL SPEED:**

We recommend a speed of **drilling between 600-800 rpm.**

- The recommended tapping speed is **max 20 rpm**.
- Perform all drilling with a vertical to-and-fro movement accompanied by copious external irrigation in order to minimize heat production and preserve bone viability.

### DURABILITY OF DRILLS:

- Do not use drills that are damaged, not sharp, or for more than 20 applications to reduce risks of overheating or bone trauma that may compromise the osteointegration process.







# SURGICAL KIT

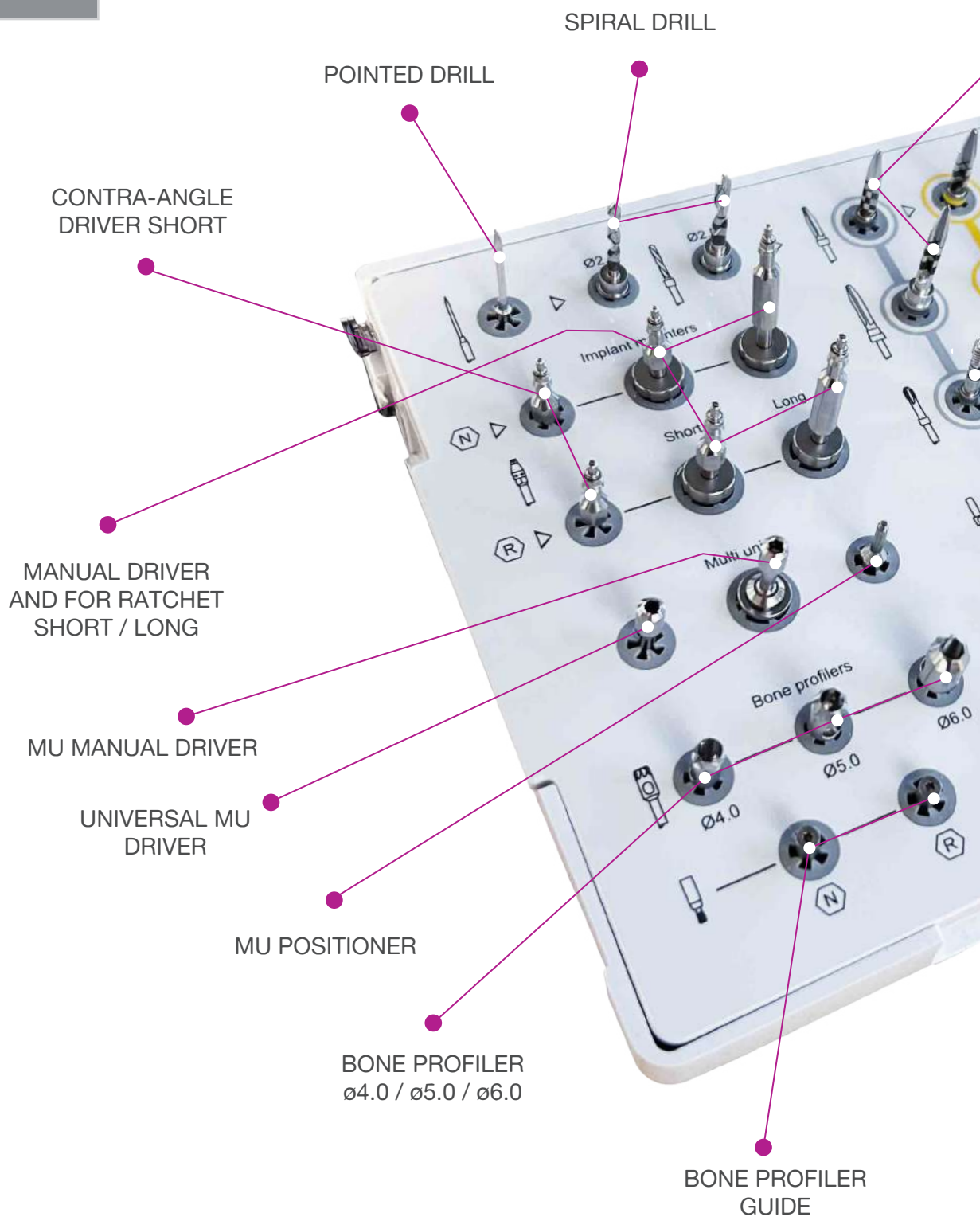


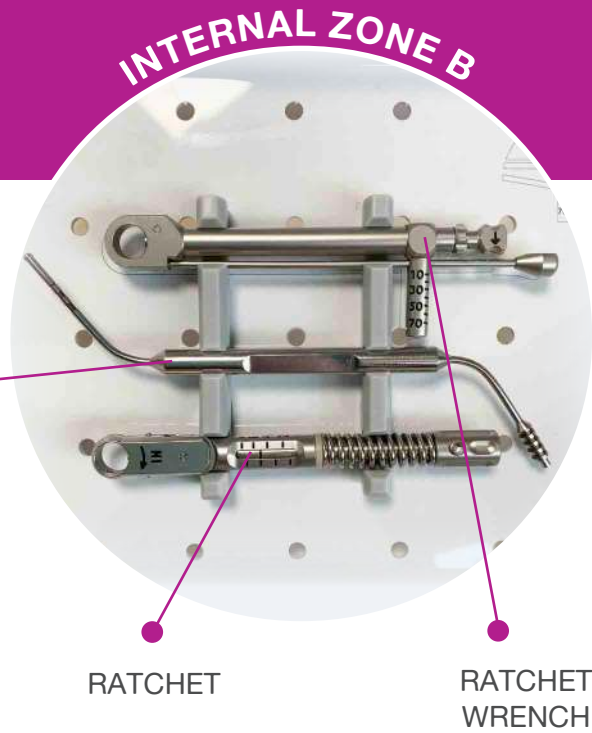
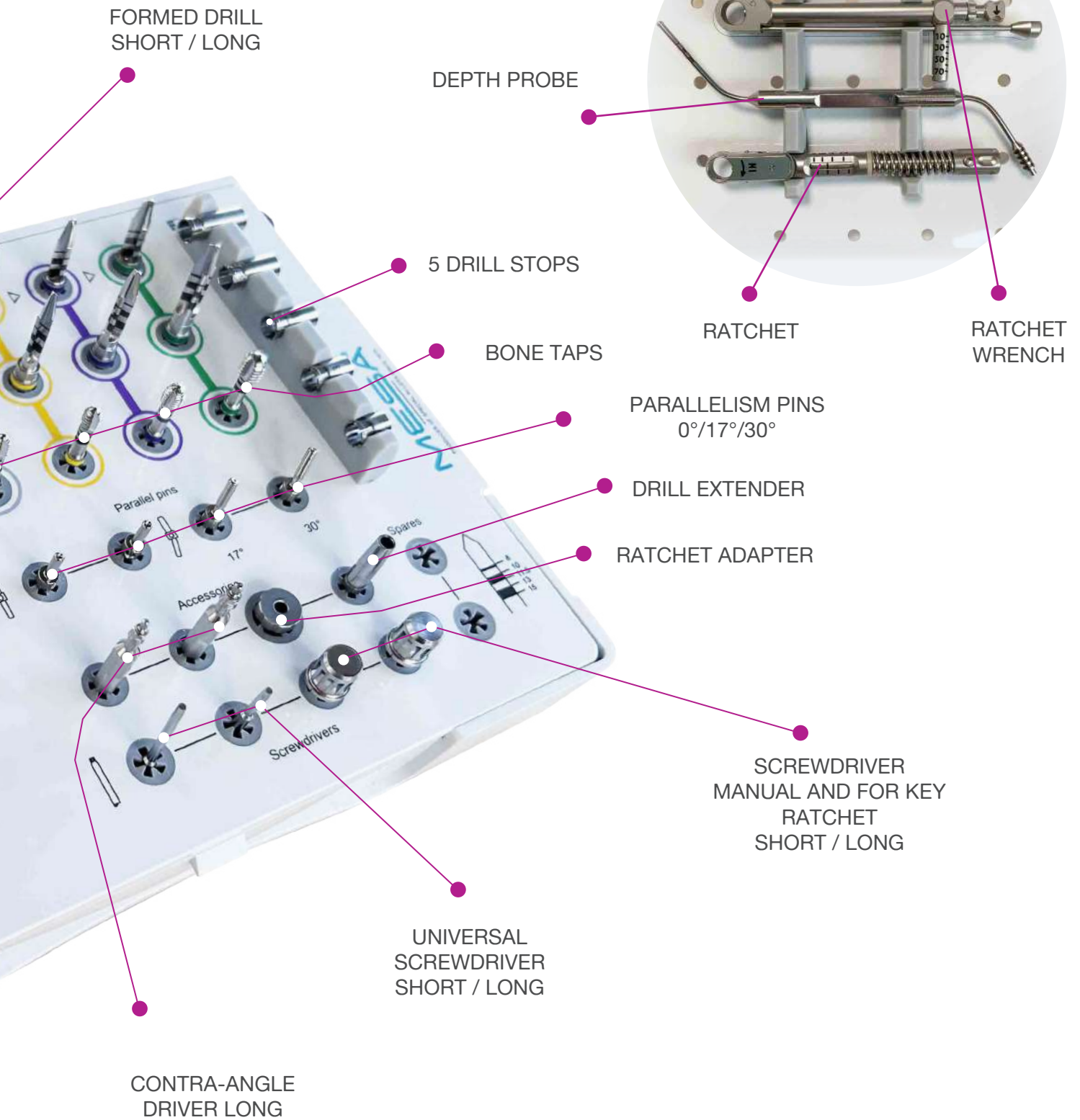
Surgical Box  
1ACO0091A

- **AUTOCLAVE BOX:** Made of thermo-plastic, impact-resistant, autoclavable material.
  - **ERGONOMIC KIT:** silicone tool holders ensure tightness even during transport and sterilization.
  - **SIMPLE AND PERSONALIZED:** accessories are arranged according to the various steps of the surgical protocol, inserts are color-coded to the implant diameter, laser-written symbols allow for optimal orientation.
- ✓ All instruments, including the box should be cleaned and sterilized before use: refer to the instructions for use for sterilization guidelines.

# SURGICAL TOOL KIT




## EXTERNAL ZONE A

















# DRILLS



D mm	Description		Code
	1.5	<b>POINTED DRILL</b>  Osteotomy drill to be used to incise cortical bone and make the invitation for subsequent use of the spiral drill.	SST-0031
		2.0	<b>SPIRAL DRILL</b>  Drill that allows a calibrated osteotomy to be performed, drilling a minimum diameter hole in the maxilla or mandible, with support from the depth notches present. <b>Drill stops are also available for spiral long drills.</b>
	<b>LONG</b> SST-0067		
	2.5		<b>SHORT</b> SST-0108
			<b>LONG</b> SST-0068







**MEDICAL STAINLESS STEEL**



	D mm	Description	Color	Code
	3.2	<b>SHORT FORMED DRILLS</b>  The formed drill is a tapered drill made to be used in the final steps of implant seat fabrication. The markings on the body of the drill indicate the depth relative to the bone level. Color-coding helps the operator match drill diameters to implant diameters in the IGEA implant line.		SST-0077
	3.7			SST-0079
	4.4			SST-0081
	3.2	<b>LONG FORMED DRILLS</b>  The formed drill is a tapered drill made to be used in the final steps of implant seat fabrication. The markings on the body of the drill indicate the depth relative to the bone level. Color-coding helps the operator match drill diameters to implant diameters in the IGEA implant line. <b>The drills can be used in combination with the stops</b> precluding the surgeon's ability to drill into the bone beyond the limit indicated by the stop itself.		SST-0071
	3.7			SST-0073
	4.4			SST-0075

# BONE TAPS








	D mm	Description	Color	Code
	3.8	<b>BONE TAPS</b>  Surgical instrument used to make threads within the bone and assist the self-threading action of the implant. Its function is to prepare the calibrated implant site for the insertion of the implant for which it is intended. In case of mechanical tapping <b>do not</b> operate the bone tap at speeds <b>higher than 20 rpm, maintaining cooling and with plenty of watering.</b> Use is recommended for implant placement in compact bone.		SST-0083
	4.3			SST-0085
	5.0			SST-0087

**MEDICAL STAINLESS STEEL**

# DRILL-STOPS



*8.3 mm	*10.3 mm	*11.8 mm	*13.3 mm	*15.3 mm
				
SST-0100	SST-0101	SST-0102	SST-0103	SST-0104





## TITANIUM GRADE 23


The **DRILL STOPS** allow the working length of the drill to be limited to a predetermined height.

- They come with a laser marking for immediate length identification.
- Available for long formed drills and spiral drills.
- \*The length shown on the Stops indicates the drilling depth including the apical drill increment of 0.3 mm.

# BONE PROFILER



	D mm	Description	Code
	4.0	<b>BONE PROFILER</b>  Surgical instrument made to level the bone ridge around the implant in order to create the necessary space for the prosthetic component to be properly housed. <b>The maximum recommended speed per contra-angle hand-piece is 15 rpm with plenty of irrigation and maintaining cooling.</b>	SST-0088
	5.0		SST-0089
	6.0		SST-0090
		<b>BONE PROFILER GUIDE</b>  It is used in combination with the Bone Profiler in order to ensure is optional use.	SST-0064




	Description	Code
	<b>DRILL EXTENDER (DRILL EXTENDER)</b>  Tool that allows for greater length availability for hand-piece instruments.	SST-0124

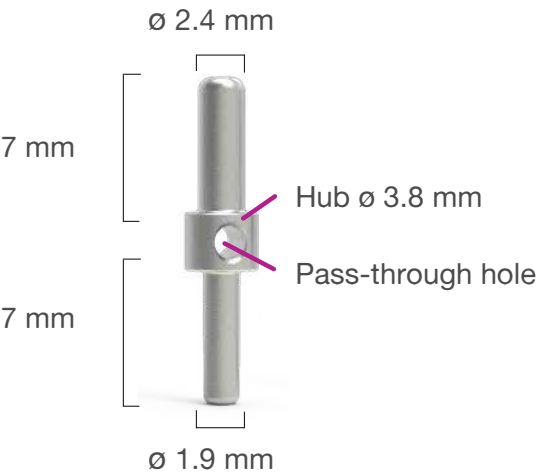
**MEDICAL STAINLESS STEEL**



# PARALLELISM PINS



	Grades	Description	Code
	0°	<p><b>PARALLELISM PINS</b></p> <p>The parallelism pin is designed with opposite ends of different diameters: ø 1.9 and ø 2.4; this allows the clinician to use the pin early in the drilling sequence to ensure proper implant placement and alignment.</p>	MST-1401
	17°		MST-1402
	30°		MST-1403



TITANIUM GRADE 23

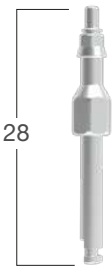
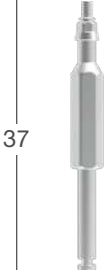
# DRIVER, SCREWDRIVERS AND RATCHET

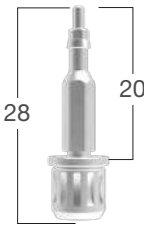
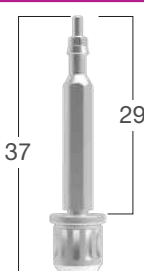


Contra-angle driver is a surgical tool designed to allow the dental implant to be inserted into the bone site.

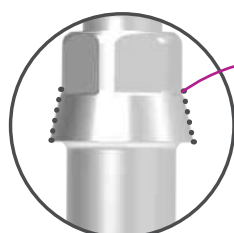
**The recommended speed for implant insertion is 15 rpm, not exceeding 25 rpm. Do not irrigate.**

## IMPLANT DRIVERS

	L	Description	Code
	SHORT	CONTRA-ANGLE DRIVER	SST-0133
	LONG		SST-0136





	L	Description	Code
	SHORT	MANUAL DRIVER AND FOR RATCHET	MST-1203
	LONG		MST-1204





**MEDICAL STAINLESS STEEL**




The engage of the Driver is considered completed only when the conical part is no longer visible.

# PROSTHETIC SCREWDRIVERS

	L	Description	Code
	 <b>SHORT</b>	<b>MANUAL SCREWDRIVER AND FOR RATCHET</b>	<b>MST-1109</b>
	 <b>LONG</b>		<b>MST-1110</b>

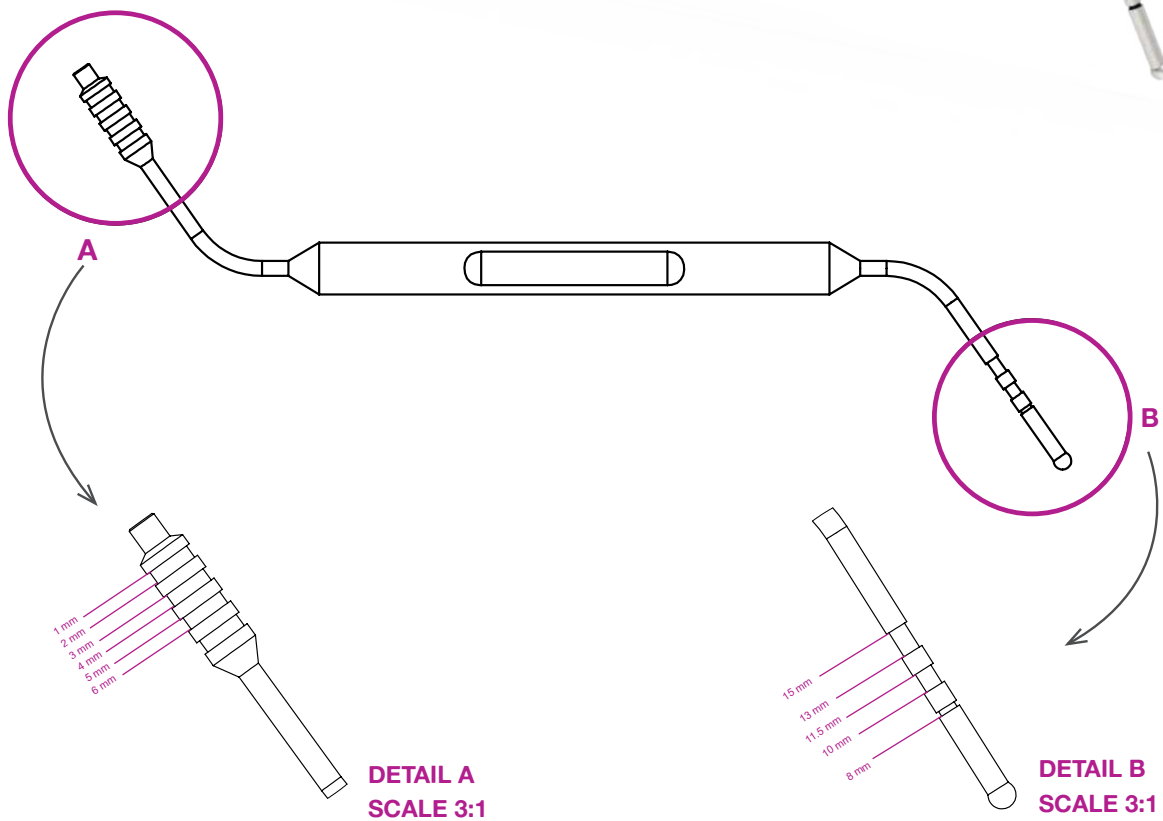
	L	Description	Code
	 <b>SHORT</b>	<b>UNIVERSAL SCREWDRIVER</b>	<b>MST-1111</b>
	 <b>LONG</b>		<b>MST-1112</b>

	Description	Code
	<b>RATCHET ADAPTER</b>	<b>MST-1301</b>

**MEDICAL STAINLESS STEEL**

# DEPTH PROBE

Code  
MST-1004





## DOUBLE MEASURING TIP

- Osteotomy depth: measuring the depth of the implant site elevation.
- Gingival height: the height of the gingival tract is examined.

**MEDICAL STAINLESS STEEL**



# RATCHETS

	Description	Code
	<p><b>RATCHET WRENCH</b></p> <p>Ratchets for implant insertion and locking of prosthetic screws with torque indicative measures.</p>	MST-1001
	<p><b>RATCHET</b></p>	MST-1006

MEDICAL STAINLESS STEEL





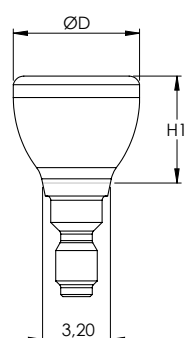
# PRE-PROSTHETIC






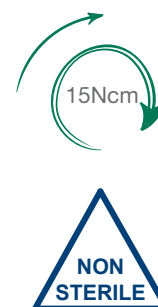
Healing screws prepare the site for superstructure insertion and they “shape” the soft tissue surrounding the implant.

The appropriate screw should be chosen according to the thickness of the mucosa.

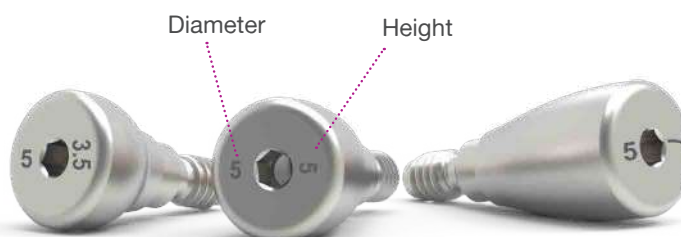
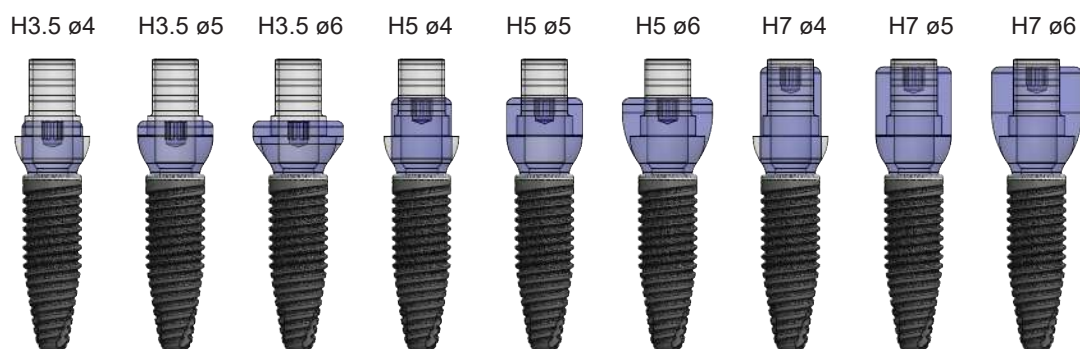
# HEALING SCREWS



	H1 mm	D mm	Thread	Description	Code
	3.5	4	M2	The <b>IGEA REG-ULAR</b> line includes a series of healing screws of different anatomical configurations and varied heights, suitable for conditioning soft tissue according to prosthetic needs.	HLS- <b>1301</b>
		5			HLS- <b>1305</b>
		6			HLS- <b>1309</b>
	5	4	M2		HLS- <b>1303</b>
		5			HLS- <b>1307</b>
		6			HLS- <b>1311</b>
	7	4	M2		HLS- <b>1312</b>
		5			HLS- <b>1313</b>
		6			HLS- <b>1314</b>



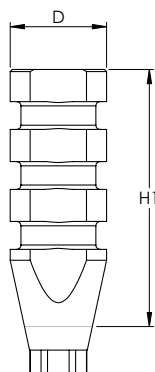
## TITANIUM GRADE 23




Laser marking for immediate identification of diameter and height





# IMPRESSION COPING OPEN TRAY

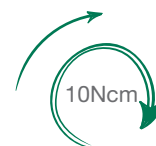


	H1 mm	D mm	Code
	12	4.5	TAB-1601

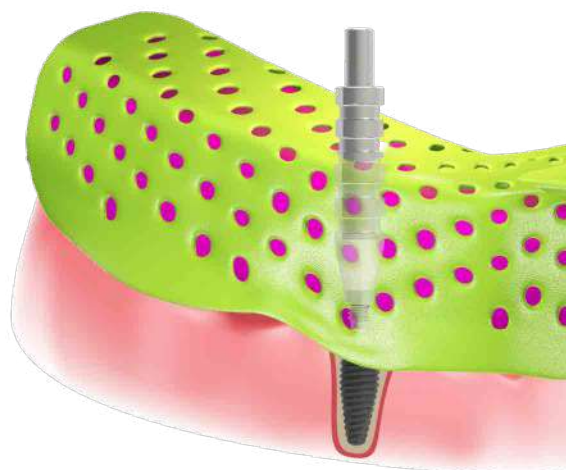


## OPEN TRAY SCREWS

	L mm	Thread	Code
	19	M2	SCR-1406
	24	M2	SCR-1414

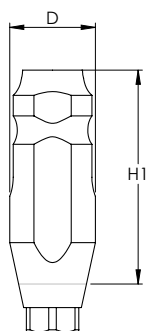



**TITANIUM GRADE 23**



For open transfer, the impression should be made with the open tray or individual tray impression technique.

# IMPRESSION COPING CLOSED TRAY

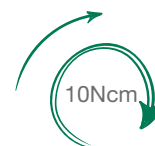


	H1 mm	D mm	Code
	7	4.5	TAB-1603

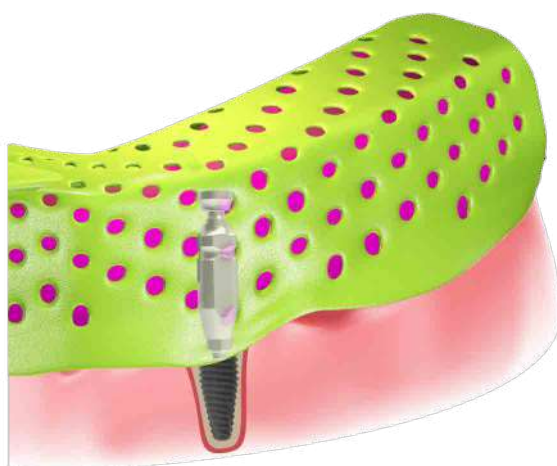


## CLOSED TRAY SCREW

	L mm	Thread	Code
	16	M2	SCR-1409

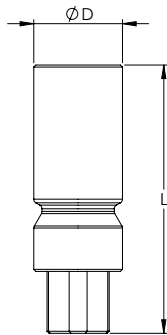



**TITANIUM GRADE 23**



For closed transfer, the impression should be made with the closed spoon or closed tray technique.


# IMPLANT REPLICA



	L mm	D mm	Code
	13	4.3	REP-1615



## REPLICA SCREW

	L mm	Thread	Code
	3.7	M1.6	SCR-1412

MEDICAL STAINLESS STEEL



USE  
IN MODEL  
DIGITAL

USE  
IN CAST

The IGEA line replica is suitable for use in **both plaster models**  
**Both in 3D printed models.** For the use of plaster models, the screw should be tightened on the body of the replica to create an undercut to prevent its axial movements.





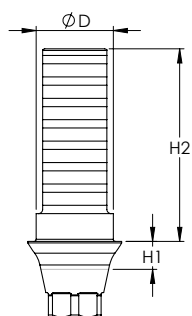
# CEMENT-RETAINED PROSTHESIS AND OVERCASTABLE ABUTMENTS



In the study and design of prosthetic components, Mesa has paid special attention to offering optimal solutions to the clinician in order to make the fabrication of prosthetic elements simple and flexible.

The utmost precision of each of our components helps ensure long-term restoration success.

## TITANIUM STRAIGHT ABUTMENTS

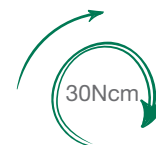


	H1 mm	H2 mm	D mm	Tipo	Code
	1	9	3.6	hexed	CEM-1148
		9	3.6	non-hexed	CEM-1150
	2.5	9	3.6	hexed	CEM-1156
		9	3.6	non-hexed	CEM-1158



## ABUTMENT SCREW

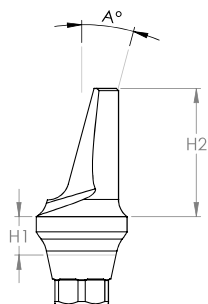
	Thread	Code
	M2	SCR-1401



**TITANIUM GRADE 23**

The abutments are screwed directly onto the implant using the connection screw.  
 They are used to support both single crowns and bridges.  
 They are available in non-rotating and rotating versions.

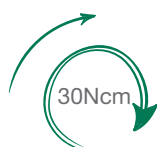
# TITANIUM ANGLED ABUTMENTS



	A°	H1 mm	H2 mm	Code
	15°	1.8	7.8	CEM-1118
	25°	1.6	8.3	CEM-1137



## ABUTMENT SCREW

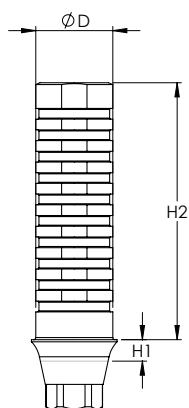



	Thread	Code
	M2	SCR-1401

**TITANIUM GRADE 23**



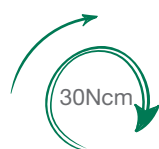
# TITANIUM TEMPORARY ABUTMENTS



	H1 mm	H2 mm	D mm	Type	Code
	1	12	3.6	hexed	CEM- <b>1140</b>
		12	3.6	non-hexed	CEM- <b>1141</b>



## ABUTMENT SCREW



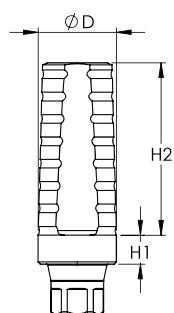
	Thread	Code
	M2	SCR- <b>1401</b>

**TITANIUM GRADE 23**






# TITANIUM RESCUE ABUTMENTS

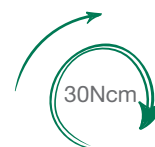


	H1 mm	H2 mm	D mm	Tipo	Codice
1.3	7.7	7.7	3.8	non-hexed	CEM- <b>1162</b>
		7.7	3.8	hexed	CEM- <b>1163</b>
1.3	7.7	7.7	4.3	non-hexed	CEM- <b>1164</b>
		7.7	4.3	hexed	CEM- <b>1165</b>
1.3	7.7	7.7	5.0	non-hexed	CEM- <b>1166</b>
			5.0	hexed	CEM- <b>1167</b>



## ABUTMENT SCREW

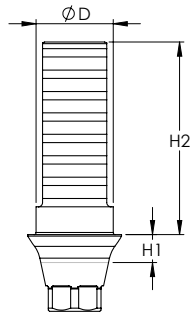
	Thread	Code
	M2	SCR- <b>1401</b>





**TITANIUM GRADE 23**

Rescue abutment is designed for implant that are placed supra gingival.


# CR-CO OVERCASTABLE ABUTMENTS

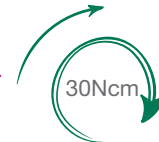


	H1 mm	H2 mm	D mm	Type	Code
	1	9	3.6	hexed	OCA-1149
		9	3.6	non-hexed	OCA-1151
	2.5	9	3.6	hexed	OCA-1157
		9	3.6	non-hexed	OCA-1159



## ABUTMENT SCREW

	Thread	Code
	M2	SCR-1401



**CHROME-COBALT**

**They can be used for a variety of solutions:**

- Superfusion: with lost-wax modeling or by digital modeling
- Soldering
- Bonding of drilled or melting structure

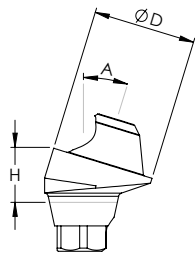
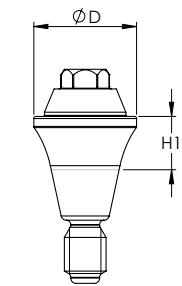
# MULTI-UNIT SYSTEM




A modern multiprosthodontic system, to make screw-retained bridges, screw-retained bars, "toronto bridge", "all on four", and "all on six".

**The variety, precision, and pliability of IGEA's screw-retained prosthetic components enable simple, immediate, and effective correction of** the disparallelism between implants for tension-free (passive-fit) insertion of the prosthesis.

## MULTI-UNIT ABUTMENTS



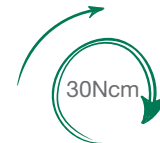
	A°	H1 mm	D mm	Code
	0°	1.5	4.8	MUA-1201
		2.5	4.8	MUA-1209
		3.5	4.8	MUA-1215
	17°	2.5	4.8	MUA-1203
		3.5	4.8	MUA-1211
	30°	3.5	4.8	MUA-1205
		4.5	4.8	MUA-1213



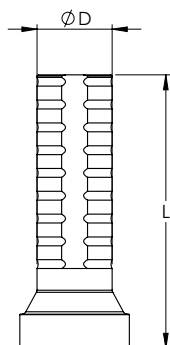
**TITANIUM GRADE 23**



## MULTI-UNIT ABUTMENT SCREW

	Thread	Code
	M2	SCR-1403



## MULTI-UNIT CYLINDER

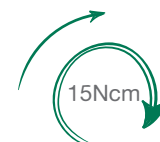


	L mm	D mm	Material	Code
	12	3.3	TITANIUM	CEM-1206
	12	3.3	CR-CO	OCA-1207














## MULTI-UNIT CYLINDER SCREW

	Thread	Code
	M1.4	SCR-1404



# MULTI-UNIT COMPONENTS

Components		Screws	
TAB-1610		<b>IMPRESSION COPING MU OPEN TRAY</b>	 SCR-1407    SCR-1415 M1.4
TAB-1612		<b>IMPRESSION COPING MU CLOSED TRAY</b>	 SCR-1411 M1.4
HLS-1315 H 4.5 HLS-1316 H 6	 	<b>MU HEALING CAP</b>	 SCR-1404 M1.4
REP-1616		<b>MU REPLICA</b>	 SCR-1412 M1.6
SAB-1611		<b>MU SCAN-ABUTMENT</b>	 SCR-1404 M1.4



## ACCESSORIES

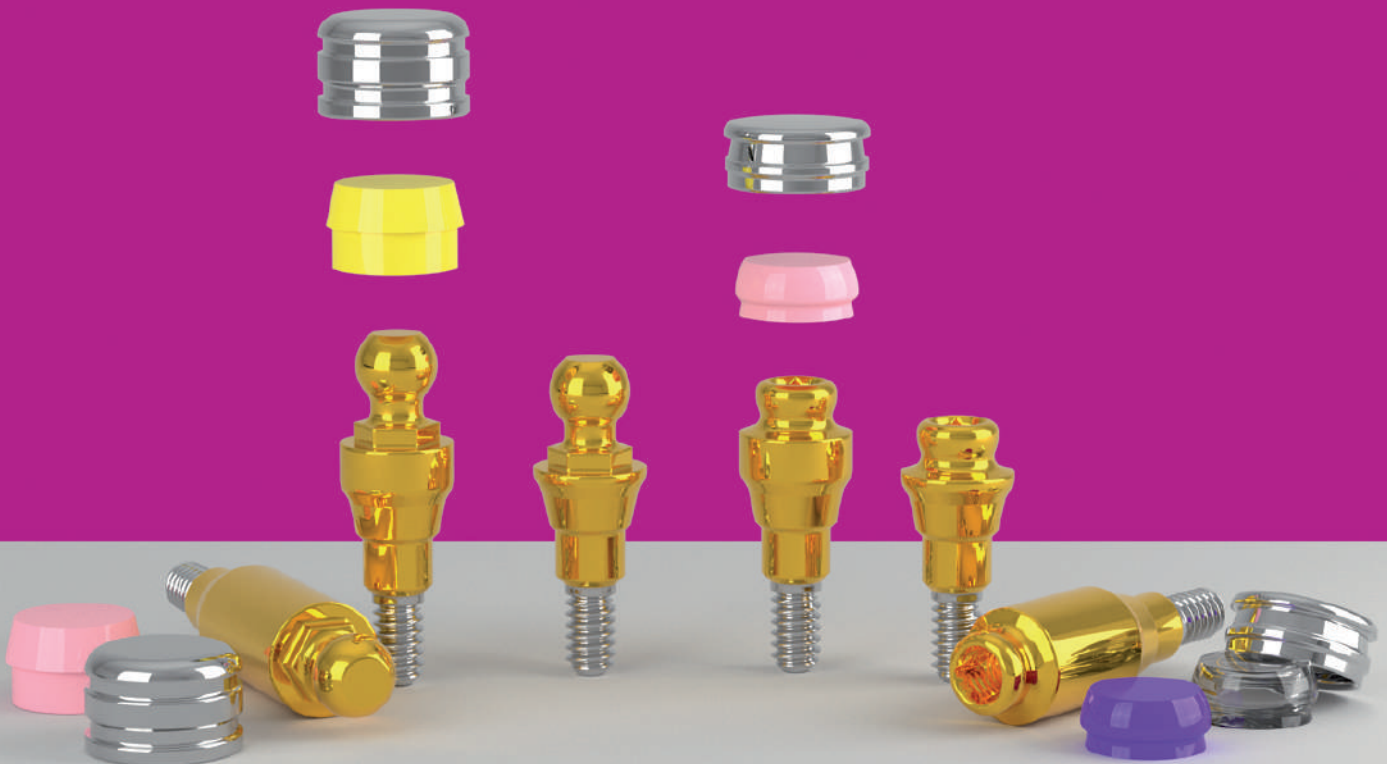
	Descrizione	Codice
	UNIVERSAL MU MOUNTER	MST-1209
	MANUAL MU MOUNTER	MST-1205
	MU POSITIONER	MST-1206



# OVERDENTURE

*Sphero*  
**BLOCK**

**DT** EQUATOR



**RHEIN83**



## OT EQUATOR IGEA REGULAR KIT



H mm	Code*
1.0	130IGR1
2.0	130IGR2
3.0	130IGR3
4.0	130IGR4
5.0	130IGR5
6.0	130IGR6
7.0	130IGR7

Complete package including:

- 1 Ot Equator custom abutment in different lengths in titanium with TIN coating
- 1 black cap (for laboratory use)
- 4 Yellow Retentive Caps: 1 Yellow (extra soft), 1 Pink (Soft), 1 White (standard), 1 Purple (rigid)
- 1 Protective disc

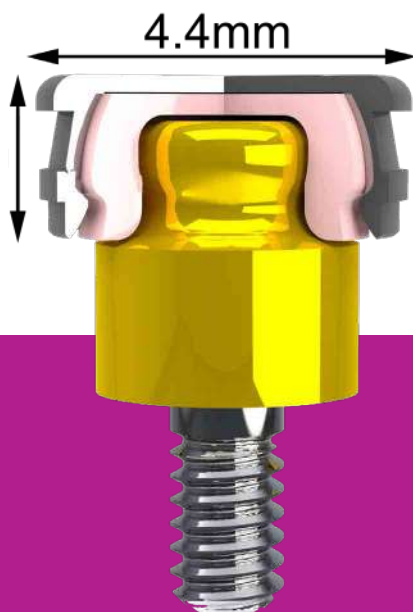


## OT EQUATOR + SMART BOX IGEA REGULAR KIT

Complete package including:

- 1 Ot Equator custom Titanium abutment in different lengths\*
- 4 Retentive caps (different retention)
- 1 Cap self-parallelizing container
- 1 Protective disc

H mm	Code*
1.0	131IGR1
2.0	131IGR2
3.0	131IGR3
4.0	131IGR4
5.0	131IGR5
6.0	131IGR6
7.0	131IGR7



**EQUATOR SECTION  
COMPLETE**

## RETENTIVE CAP ASSORTMENT KIT

### KIT-192ECE

- 1 stainless steel cap container, Container
- 1 Black Cap (for laboratory use)
- 4 Yellow Retentive Caps: 1 Yellow (extra soft), 1 Pink (Soft), 1 White (standard), 1 Purple (rigid)
- 1 Protective disc



**PURPLE CAP** (4 pcs)  
Rigid seal (2.5 Kg)  
**140CEV**



**BLACK CAP** (4 pcs)  
From the laboratory  
**140CEN**



**WHITE CAP** (4 pcs)  
Standard seal (1.8 Kg)  
**140CET**



**STAINLESS STEEL CAP CONTAINER**  
(2 pcs)  
**141CAE**



**PINK CAP** (4 pcs)  
Soft seal (1.2 Kg)  
**140CER**



**IMPRESSION COPING CLOSED TRANSFER STRAPPING** (2 pcs)  
**044CAIN**



**YELLOW CAP** (4 pcs)  
Extra soft seal (0.6 Kg)  
**140CEG**



**LABORATORY ANALOG**  
(2 pcs)  
**144AE**



**SMARTBOX CONTAINER WITH BLACK CAP FOR DIVERGENCES UP TO 50°**  
**330SBE**



**EQUATOR KEY FOR RATCHET**  
**774CHE**



**INSERTER/EXTRACTOR FOR CAPS**  
(OT EQUATOR - NORMO)  
**487ICE**



**DRIVER FOR DYNAMOMETRIC HANDPIECE**  
**760CE**



## SPHERO BLOCK NORMO



H mm	Code*
1.0	002IGR1
2.0	002IGR2
3.0	002IGR3
4.0	002IGR4
5.0	002IGR5
6.0	002IGR6
7.0	002IGR7

Complete package including:

- 1 Customized spherical abutment
- 3 Retentive caps (different retention)
- 1 Cap container
- 3 Directional rings
- 1 Protective disc



**TRANSPARENT CAP**  
STANDARD RETENTION  
**040CRN**



**BLACK CAP** FROM THE LABORATORY  
**043CLN**



**PINK CAP**  
SOFT RETENTION  
**040CRNSN**



**STAINLESS STEEL CONTAINER**  
**041CAN**



**YELLOW CAP**  
EXTRASOFT RETENTION  
**060CRNAY**



**SPHERO BLOCK KEY FOR RATCHET**  
**771CEF**



**INSERTER/EXTRACTOR** FOR CAPS  
(OT EQUATOR - NORMO)  
**485ICE**



**CONNECTOR FOR DYNAMOMETRIC HANDPIECE**  
**760CE**



## REVERSIBLE DYNAMOMETRIC RATCHET

For tightening of Sphero-Block and Ot Equator  
Values of torque from 15 to 35 Ncm - Max 50 Ncm,  
suggested torque 25 Ncm

**760CRD-US**









# DIGITAL LIBRARIES

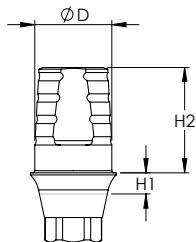




Our libraries are available for the following software: Exocad and 3Shape  
and can be downloaded from the website [www.mesaitalia.it](http://www.mesaitalia.it)

**3shape**  **exocad**

Before installation, the associated digitising components and accessories must be identified.

# Ti-BASE




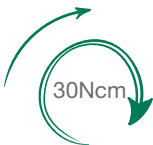
	H1 mm	H2 mm	D mm	Tipo	Code
	1	5	3.6	hexed	CEM-1104
		5	3.6	non-hexed	CEM-1105
	2.5	5	3.6	hexed	CEM-1112
		5	3.6	non-hexed	CEM-1113




TITANIUM GRADE 23

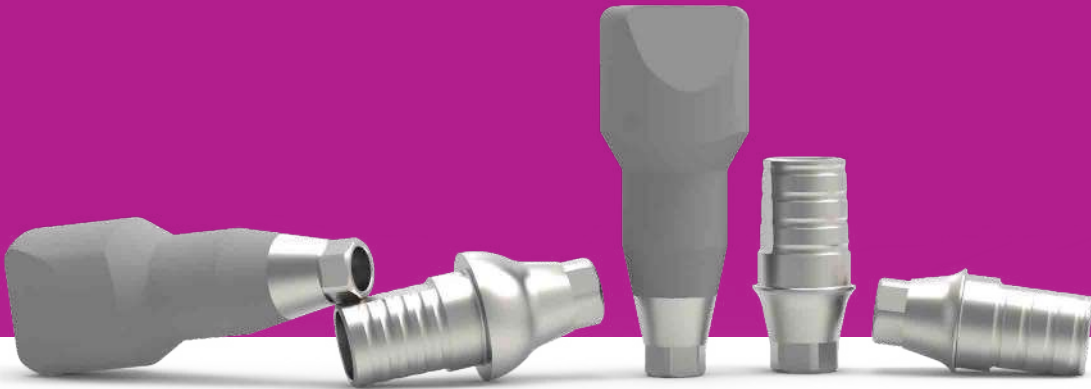
# Ti-BASE SCREW

	Thread	Code
	M2	SCR-1401



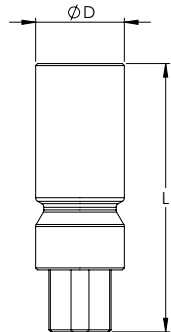
The components of the Igea system that can be downloaded in the digital libraries, are marked with the symbol  next to the reference table.


# CAD/CAM ACCESSORIES



Ti-Base, Scan-Abutment and Analog allow our implant line to have a wide range of restorative products allowing dentists and laboratories to embrace the digitization to design and create aesthetic and long-lasting restorations.


## IMPLANT REPLICA



	L mm	D mm	Code
	13	4.3	REP-1615



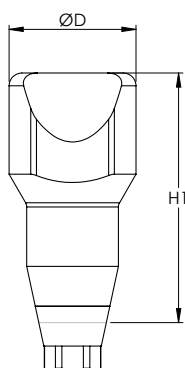
## REPLICA SCREW

	L mm	Thread	Code
	3.7	M1.6	SCR-1412

MEDICAL STAINLESS STEEL

The analogue of the IGEA line is suitable for use both for plaster models and **for 3D printed models**

## SCAN-ABUTMENT



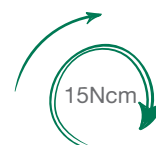
	H1 mm	D mm	Code
	12	6	SAB-1609



TITANIUM GRADE 23

## SCAN ABUTMENT SCREW

	Thread	Code
	M2	SCR-1401












# IGEA REGULAR SCREWS



IGEA screws allow for high-quality implant-abutment fixation, thus to eliminate unscrewing that could cause damage to the finished work



## SCREWS AND CODES

	Description	Thread	Code
	SCAN-ABUTMENT SCREW	M2	SCR- <b>1401</b>
	Ti-BASE SCREW		
	SCAN-ABUTMENT SCREW		
	MU ABUTMENT SCREW	M2	SCR- <b>1403</b>
	MU SCAN-ABUTMENT SCREW	M1.4	SCR- <b>1404</b>
	CYLINDER SCREW		
	HEALING CAP SCREW		
	CLOSED TRAY SCREW	M2	SCR- <b>1409</b>
	MU CLOSED TRAY	M1.4	SCR- <b>1411</b>
	OPEN TRAY SCREW L19	M2	SCR- <b>1406</b>
	OPEN TRAY SCREW L 24		SCR- <b>1414</b>
	MU OPEN TRAY SCREW L19	M1.4	SCR- <b>1407</b>
	MU OPEN TRAY SCREW L 24		SCR- <b>1415</b>
	REPLICA SCREW	M1.6	SCR- <b>1412</b>
	MU REPLICA SCREW		
	COVER SCREW	M2	SCR- <b>1500</b>

# IGEA IMPLANTS NARROW



The use in posterior areas is not recommended for Igea Narrow Implants

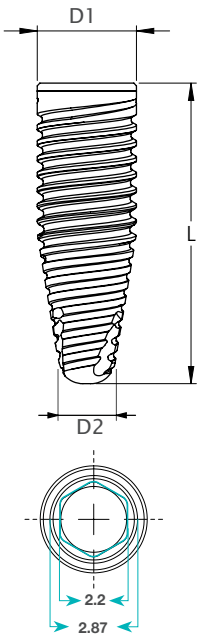


N= NARROW

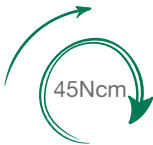
# NARROW IMPLANT

COLOR CODE

3.5 mm



	D1 mm	D2 mm	L mm	Code
	3.5	1.6	8	Ti4-Igea-1003
		1.6	10	Ti4-Igea-1002
		1.6	11.5	Ti4-Igea-1001
		1.6	13	Ti4-Igea-1004
		1.6	15	Ti4-Igea-1005



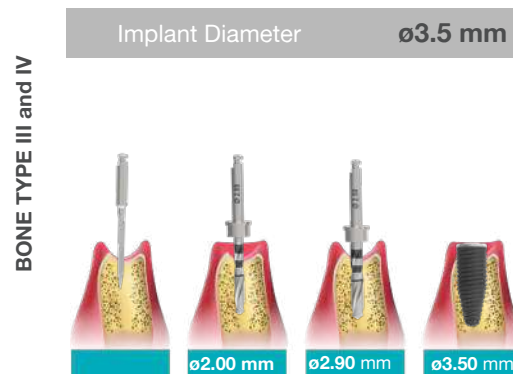
## COVER SCREW

	Thread	Code
	M1.6	CPS-1501

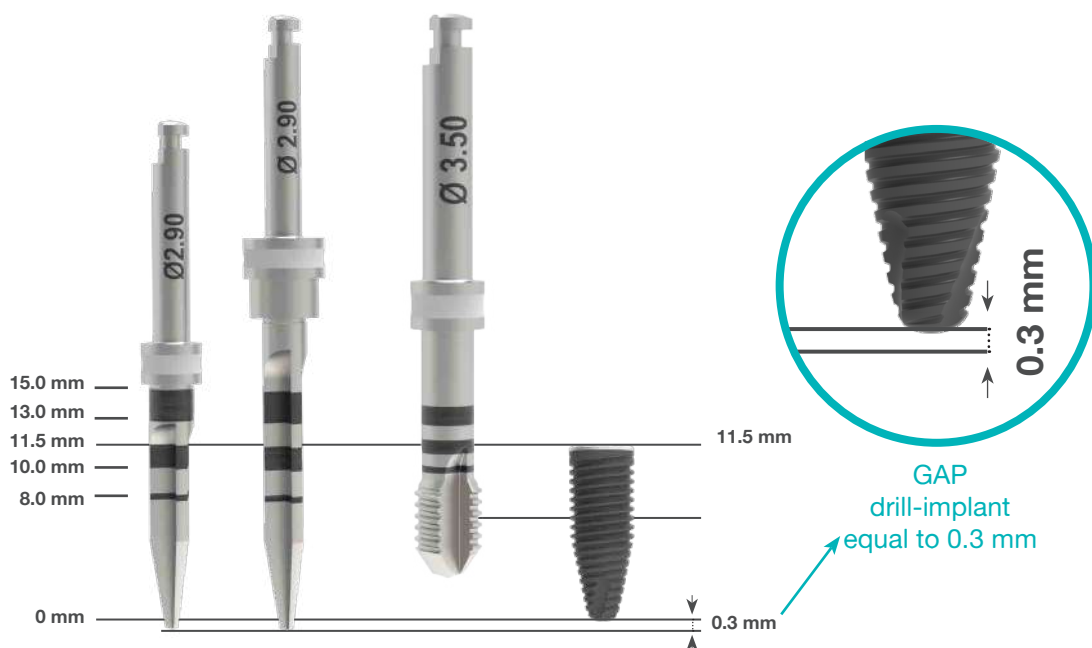


# SURGICAL PROTOCOL

The plant platform should be placed at the bone crest (crestal placement)

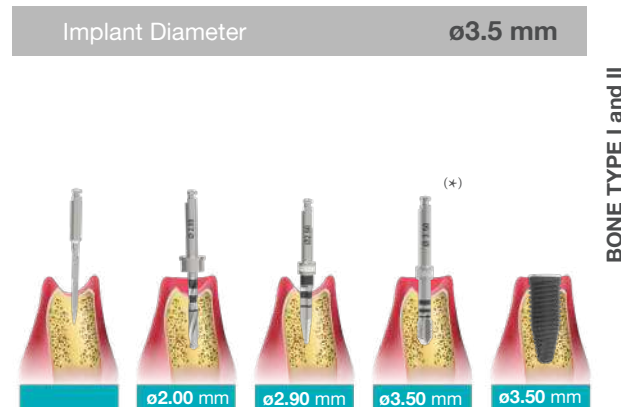


The surgical protocol of the Igea implant was developed to provide surgeons with the following guidance on how to choose the most appropriate instruments for implant site preparation depending on the type of bone. However, it is up to the surgeon to apply the most appropriate protocol based on his or her experience



# SURGICAL PROTOCOL

**NOTE:** Do not exceed a tightening torque of 45 Ncm for implants: excessive torque can damage the implant and can cause bone necrosis.



(\*) In order to maintain the desired insertion torque, **in dense bone it is recommended using the taper at the maximum speed of 20 rpm and only with the diameter corresponding to the width of the implant bed.**

All drills and tappers are made of stainless steel for medical use.

The line of surgical drills is comprehensive and easy to use.

All diameters of MESA IGEA implants share the formed drills and spiral drill; depending then on the implant diameter, specific formed drills are provided.

## FEATURES AND ADVANTAGES:

- Each formed drill has depth bands highlighted in contrasting colors and is color-coded for better identification.

## DRILL SPEED:

We recommend a speed of **drilling between 600-800 rpm.**





- The recommended tapping speed is **max 20 rpm.**
- Perform all drilling with a vertical to-and-fro movement accompanied by copious external irrigation in order to minimize heat production and preserve bone viability.

## DURABILITY OF DRILLS:

- Do not use drills that are damaged, not sharp, or for more than 20 applications to reduce risks of overheating or bone trauma that may compromise the osteointegration process.




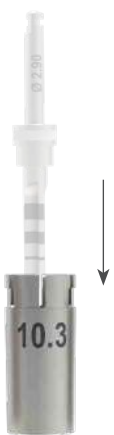



# DRILLS AND BONE TAP

	D mm	Description	Code
		<b>POINTED DRILL</b>  Osteotomy drill to be used to incise cortical bone and make the invitation for subsequent use of the spiral drill.	SST-0031
	2.0	<b>SPIRAL DRILL</b>  Drill that allows a calibrated osteotomy to be performed, drilling a minimum diameter hole in the maxilla or mandible, with support from the depth notches present. <b>Drill stops are also available for long spiral drills.</b>	<b>SHORT</b> SST-0107  <b>LONG</b> SST-0067
	2.9	<b>FORMED DRILL</b>  The formed drill is a tapered drill made to be used in the final steps of implant seat fabrication. The markings on the body of the drill indicate the depth relative to the bone level. Color coding helps the operator associate the diameters of the drills to the diameters of the IGEA implant line implants. <b>Drill stop can be mounted on the long formed drill.</b>	<b>SHORT</b> SST-0076  <b>LONG</b> SST-0070
	3.5	<b>BONE TAP</b>  Surgical instrument used to make threads within the bone and assist the self-threading action of the implant. Its function is to prepare the calibrated implant site for the insertion of the implant for which it is intended. In case of mechanical tapping <b>do not</b> operate the tapping machine at speeds <b>higher than 20 rpm, maintaining cooling and with plenty of watering.</b> Use is recommended for implant placement in compact bone.	SST-0082

**MEDICAL STAINLESS STEEL**

# DRILL - STOPS



*8.3 mm	*10.3 mm	*11.8 mm	*13.3 mm	*15.3 mm
				
SST-0100	SST-0101	SST-0102	SST-0103	SST-0104



## TITANIUM GRADE 23


The **DRILL STOPS** allow the working length of the drill to be limited to a predetermined height.

- They come with a laser marking for immediate length identification.
- Available for long formed drills and spiral drills.
- \*The length shown on the Stops indicates the drilling depth including the apical drill increment of 0.3 mm.

# BONE PROFILER






	D mm	Description	Code
	4.0	<b>BONE PROFILER</b>  Surgical instrument made to level the bone ridge around the implant in order to create the necessary space for the prosthetic component to be properly housed. <b>The maximum recommended speed per contra-angle hand-piece is 15 rpm with plenty of irrigation and maintaining cooling.</b>	SST-0088
	4.0	<b>BONE PROFILER GUIDE</b>  It is used in combination with the Bone Profiler in order to ensure is optional use.	SST-0063

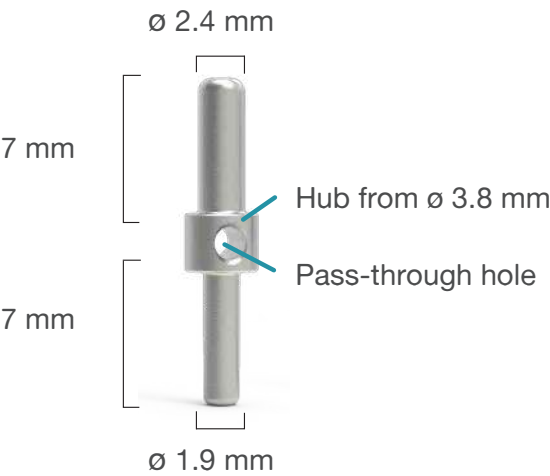
	Description	Code
	<b>DRILL EXTENDER (DRILL EXTENDER)</b>  Tool that allows for greater length availability for hand-piece instruments.	SST-0124

**MEDICAL STAINLESS STEEL**

# PARALLELISM PINS



	Grades	Description	Code
	0°	<p><b>PARALLELISM PINS</b></p> <p>The parallelism pin is designed with opposite ends of different diameters. ø 1.9 and ø 2.4; this allows the clinician to use the pin early in the drilling sequence to ensure proper implant placement and alignment.</p>	MST-1401
	17°		MST-1402
	30°		MST-1403



TITANIUM GRADE 23



# DRIVER, SCREWDRIVERS AND RATCHETS

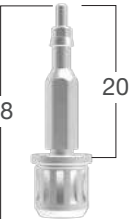
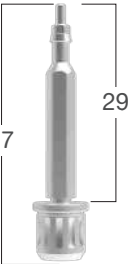


Contra-angle driver is a surgical tool designed to allow the dental implant to be inserted into the bone site.  
**The recommended speed for implant insertion is 15 rpm, not exceeding 25 rpm. Do not irrigate.**

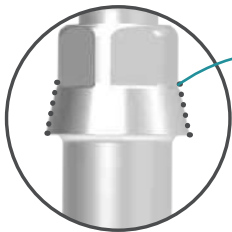


# IMPLANT DRIVER

	L	Description	Code
	SHORT	CONTRA - ANGLE DRIVER	SST-0132
	LONG		SST-0135





	L	Description	Code
	SHORT	MANUAL DRIVER AND FOR RATCHET	MST-1207
	LONG		MST-1208





MEDICAL STAINLESS STEEL




The engage of the Driver is considered completed only when the conical part is no longer visible.

# PROSTHETIC SCREWDRIVERS

	L	Description	Code
	 <b>SHORT</b>	<b>MANUAL SCREWDRIVER AND FOR RATCHET</b>	MST-1109
	 <b>LONG</b>		MST-1110

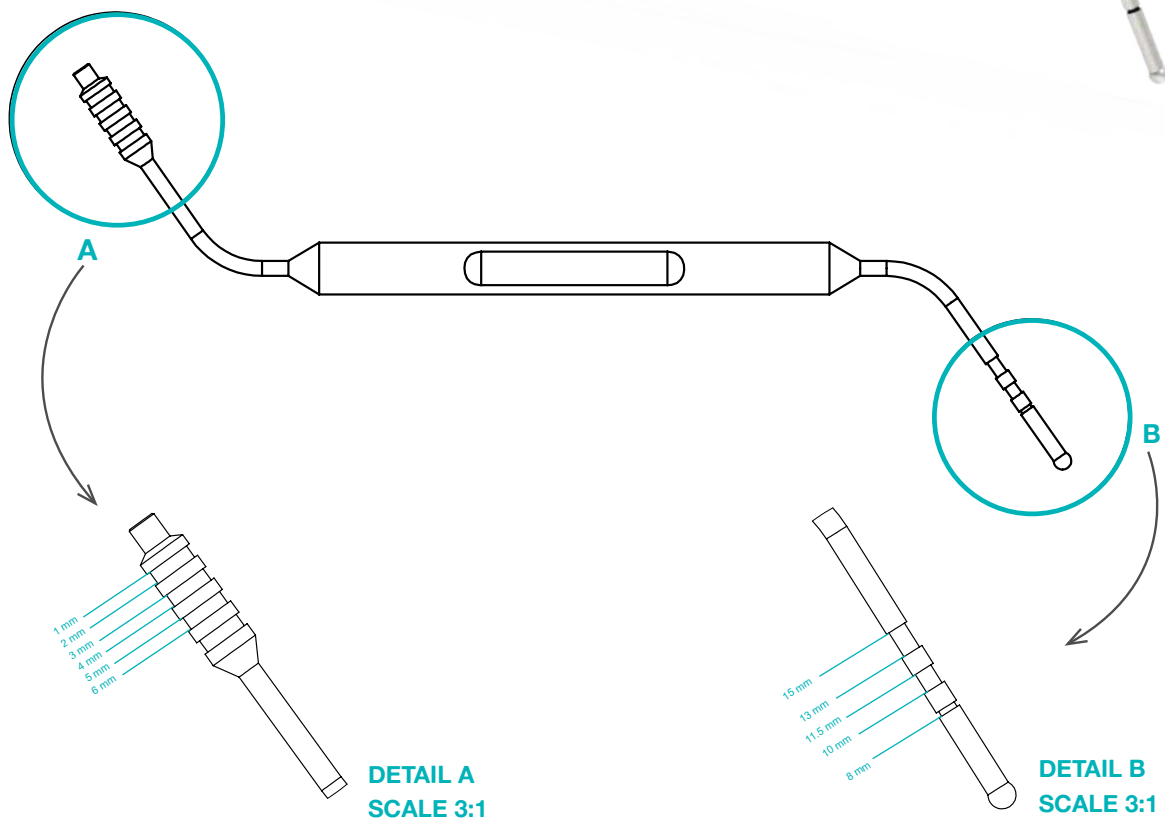
	L	Description	Code
	 <b>SHORT</b>	<b>UNIVERSAL SCREWDRIVER</b>	MST-1111
	 <b>LONG</b>		MST-1112

	Description	Code
	<b>RATCHET ADAPTER</b>	MST-1301

**MEDICAL STAINLESS STEEL**

# DEPTH PROBE

Code  
MST-1004





## DOUBLE MEASURING TIP

- Osteotomy depth: measuring the depth of the implant site elevation.
- Gingival height: the height of the gingival tract is examined.

MEDICAL STAINLESS STEEL

# RATCHETS

	Description	Code
	<p><b>RATCHET WRENCH</b></p> <p>Ratchets for implant insertion and locking of prosthetic screws with torque indicative measures.</p>	MST-1001
	<p><b>RATCHET</b></p>	MST-1006

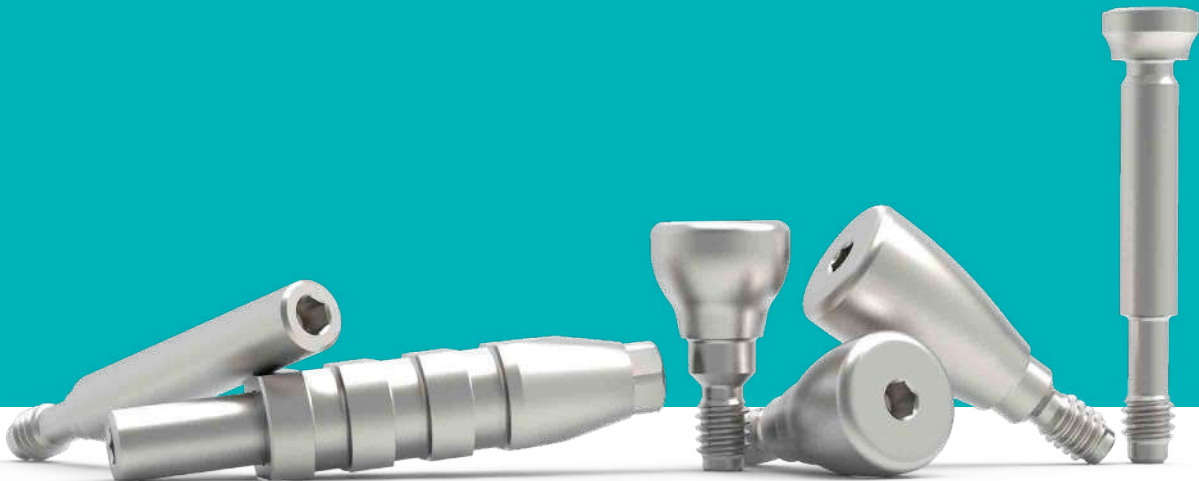
MEDICAL STAINLESS STEEL







# PRE-PROSTHETIC

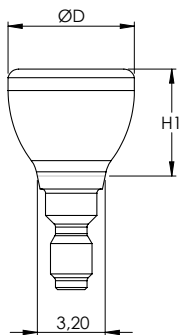





Healing screws prepare the site for superstructure insertion and “shape” the soft tissue surrounding the implant.

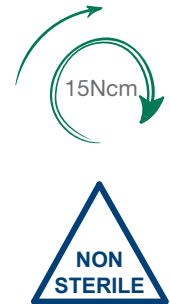
The appropriate screw should be chosen according to the thickness of the mucosa.



# HEALING SCREWS

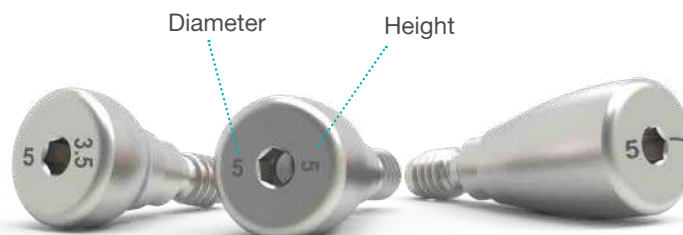
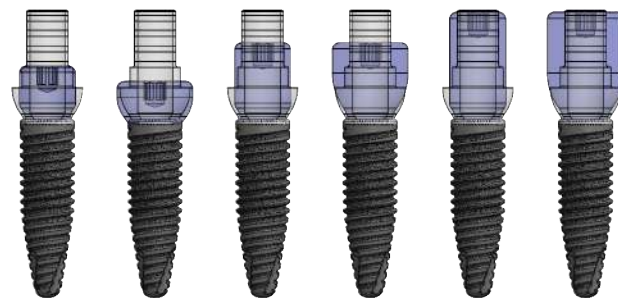


	H1 mm	D mm	Thread	Description	Code
	3.5	3.7	M1.6	The <b>IGEA NARROW</b> line includes a series of healing screws of different anatomical configurations and varied heights, suitable for conditioning soft tissue according to prosthetic needs.	HLS-1300
		5			HLS-1304
	5	3.7	M1.6		HLS-1302
		5			HLS-1306
	7	3.7	M1.6		HLS-1308
		5			HLS-1310



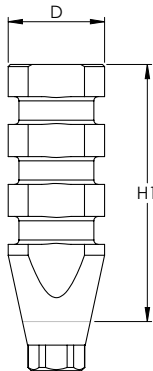
## TITANIUM GRADE 23


H3.5 ø3.7 H3.5 ø5 H5 ø3.7 H5 ø5 H7 ø3.7 H7 ø5



Laser marking for immediate identification of diameter and height



# IMPRESSION COPING OPEN TRAY

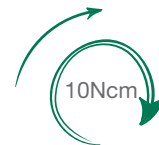


	H1 mm	D mm	Code
	12	4.5	TAB-1600

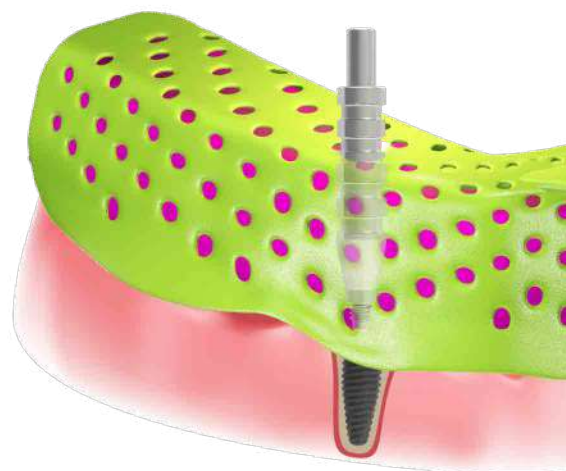


## OPEN TRAY SCREWS

	L mm	Thread	Code
	19	M1.6	SCR-1405
	24	M1.6	SCR-1413

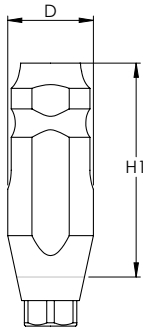



**TITANIUM GRADE 23**



For open transfer, the impression should be made with the open tray or individual tray impression technique.


# IMPRESSION COPING CLOSED TRAY

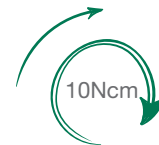


	H1 mm	D mm	Code
	7	4.5	TAB-1602

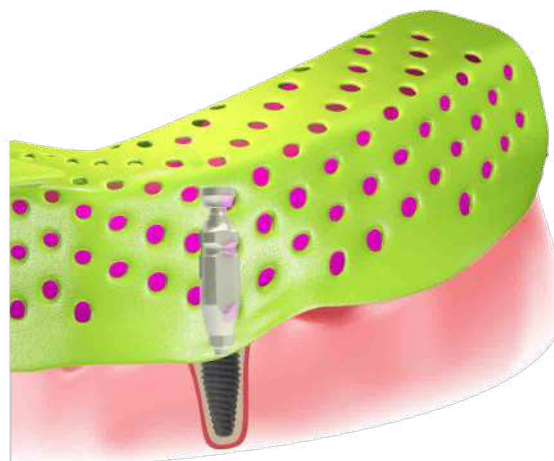


## CLOSED TRAY SCREW

	L mm	Thread	Code
	16	M1.6	SCR-1408

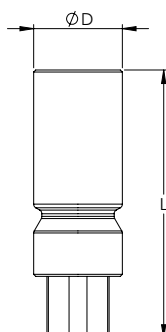



**TITANIUM GRADE 23**



For closed transfer, the impression should be made with the closed spoon or closed tray technique.


# IMPLANT REPLICA



	L mm	D mm	Code
	13	4.3	REP-1614



## REPLICA SCREW

	L mm	Thread	Code
	3.7	M1.6	SCR-1412

**MEDICAL STAINLESS STEEL**



**USE  
IN MODEL  
DIGITAL**

**USE  
IN CAST**

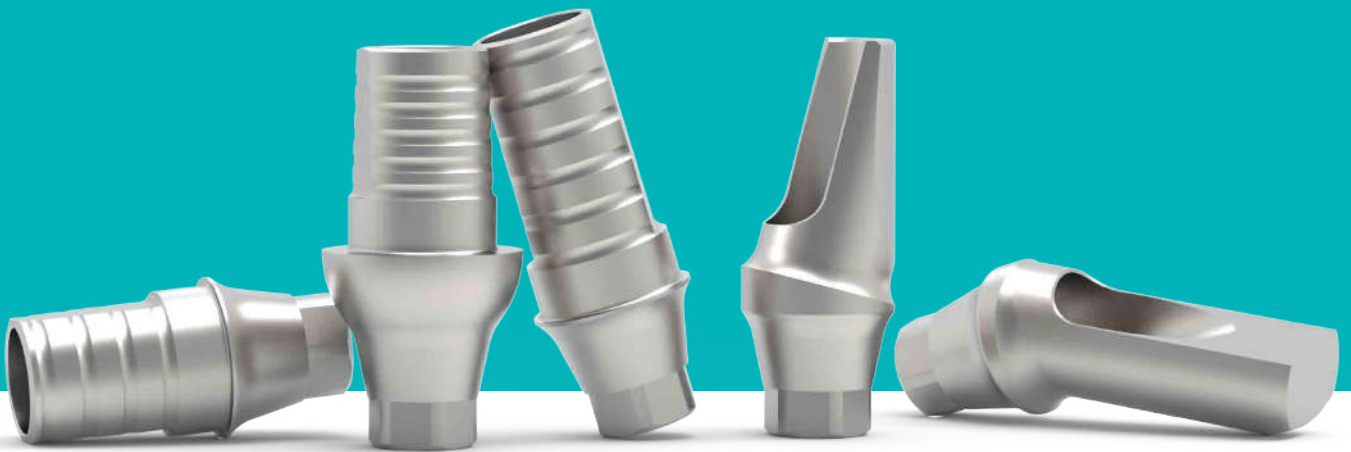
The IGEA line replica is suitable for use in **both plaster models**  
**Both in 3D printed models.** For the use of plaster models, the screw should be tightened on the body of the replica to create an undercut to prevent its axial movements.







# CEMENT-RETAINED PROSTHESIS AND OVERCASTABLE ABUTMENTS

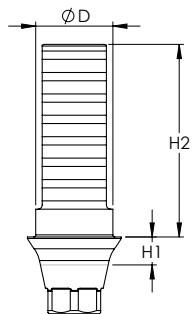




In the study and design of prosthetic components, Mesa has paid special attention to offering optimal solutions to the clinician in order to make the fabrication of prosthetic elements simple and flexible.

**The utmost precision of each of our components helps ensure long-term restoration success.**



## TITANIUM STRAIGHT ABUTMENTS

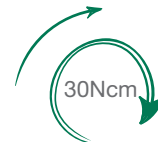


	H1 mm	H2 mm	D mm	Type	Code
	1	9	3.3	hexed	CEM-1144
		9	3.3	non-hexed	CEM-1146
	2.5	9	3.3	hexed	CEM-1152
		9	3.3	non-hexed	CEM-1154



## ABUTMENT SCREW

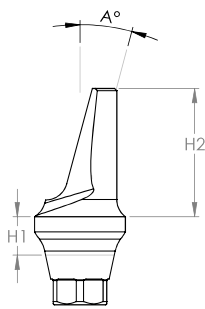
	Thread	Code
	M1.6	SCR-1400





**TITANIUM GRADE 23**

The abutments are screwed directly onto the implant using the connection screw.  
 They are used to support both single crowns and bridges.  
 They are available in non-rotating and rotating versions.

# TITANIUM ANGLED ABUTMENTS

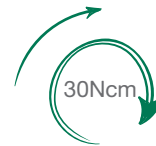


	A°	H1 mm	H2 mm	Code
	15°	1.8	7.8	CEM-1116
	25°	1.6	8.3	CEM-1136



## ABUTMENT SCREW

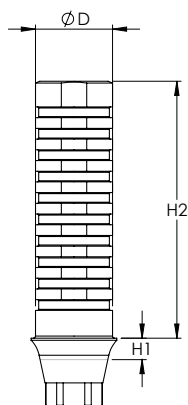
	Thread	Code
	M1.6	SCR-1400




**TITANIUM GRADE 23**



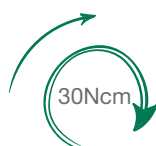
# TITANIUM TEMPORARY ABUTMENTS



	H1 mm	H2 mm	D mm	Type	Code
	1	12	3.3	hexed	CEM- <b>1138</b>
		12	3.3	non-hexed	CEM- <b>1139</b>



## ABUTMENT SCREW

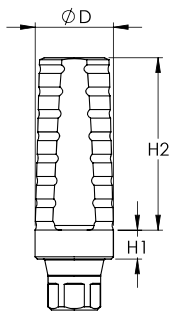



	Thread	Code
	M1.6	SCR- <b>1400</b>

**TITANIUM GRADE 23**



# TITANIUM RESCUE ABUTMENTS

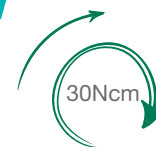


	H1 mm	H2 mm	D mm	Type	Code
	1.3	7.7	3.5	hexed	CEM- <b>1160</b>
		7.7	3.5	non-hexed	CEM- <b>1161</b>



## ABUTMENT SCREW

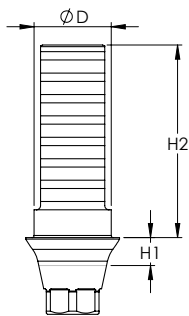
	Thread	Code
	M2	SCR- <b>1401</b>




### TITANIUM GRADE 23

Rescue abutment is designed for implant that are placed supra gingival.


# CR-CO OVERCASTABLE ABUTMENTS

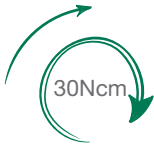


	H1 mm	H2 mm	D mm	Type	Code
	1	9	3.6	hexed	OCA-1145
		9	3.6	non-hexed	OCA-1147
	2.5	9	3.6	hexed	OCA-1153
		9	3.6	non-hexed	OCA-1155



## ABUTMENT SCREW

	Thread	Code
	M2	SCR-1400



**CHROME-COBALT**

**They can be used for a variety of solutions:**

- Superfusion: with lost-wax modeling or by digital modeling
- Soldering
- Bonding of drilled or melting structure

# MULTI-UNIT-SYSTEM

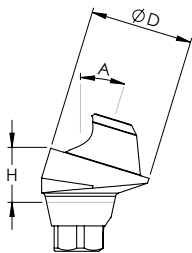
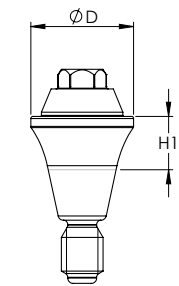




A modern multiprosthodontic system, to make screw-retained bridges, screw-retained bars, "toronto bridge", "all on four", and "all on six".

**The variety, precision, and pliability of IGEA's screw-retained prosthetic components enable simple, immediate, and effective correction of** the disparallelism between implants for tension-free (passive-fit) insertion of the prosthesis.



## MULTI-UNIT ABUTMENTS



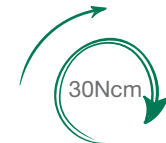
	A°	H1 mm	D mm	Code
	0°	1.5	4.8	MUA-1200
		2.5	4.8	MUA-1208
		3.5	4.8	MUA-1214
	17°	2.5	4.8	MUA-1202
		3.5	4.8	MUA-1210
	30°	3.5	4.8	MUA-1204
		4.5	4.8	MUA-1212



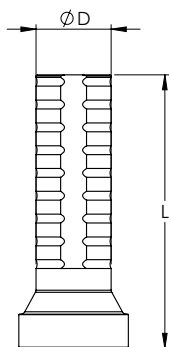
**TITANIUM GRADE 23**



## MULTI-UNIT ABUTMENT SCREW

	Thread	Code
	M1.6	SCR-1402




## MULTI-UNIT CYLINDER

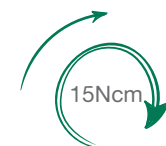


	L mm	D mm	Material	Code
	12	3.3	TITANIUM	CEM-1206
	12	3.3	CR-CO	OCA-1207















## MULTI-UNIT CYLINDER SCREW

	Thread	Code
	M1.4	SCR-1404






# MULTI-UNIT COMPONENTS

Components		Screws
TAB-1600		<div> <div>  SCR-1407 </div> <div>  SAB-1415 </div> </div> M1.4
TAB-1612		<div>  SCR-1411 </div> M1.4
HLS-1315 H 4.5 HLS-1316 H 6	 	<div>  SCR-1404 </div> M1.4
REP-1616		<div>  SCR-1412 </div> M1.6
SAB-1611		<div>  SCR-1404 </div> M1.4



## ACCESSORIES

	Description	Code
	UNIVERSAL MU MOUNTER	MST-1209
	MANUAL MU MOUNTER	MST-1205
	MU POSITIONER	MST-1206

# OVERDENTURE

*Sphero*  
**BLOCK**

**DT** EQUATOR



**RHEIN83**



## OT EQUATOR IGEA REGULAR KIT



H mm	Code*
1.0	<b>130IGR1</b>
2.0	<b>130IGR2</b>
3.0	<b>130IGR3</b>
4.0	<b>130IGR4</b>
5.0	<b>130IGR5</b>
6.0	<b>130IGR6</b>

Complete package including:

- 1 Ot Equator custom abutment in different lengths in titanium with TIN coating
- 1 black cap (for laboratory use)
- 4 Yellow Retentive Caps: 1 Yellow (extra soft), 1 Pink (Soft), 1 White (standard), 1 Purple (rigid)
- 1 Protective disc

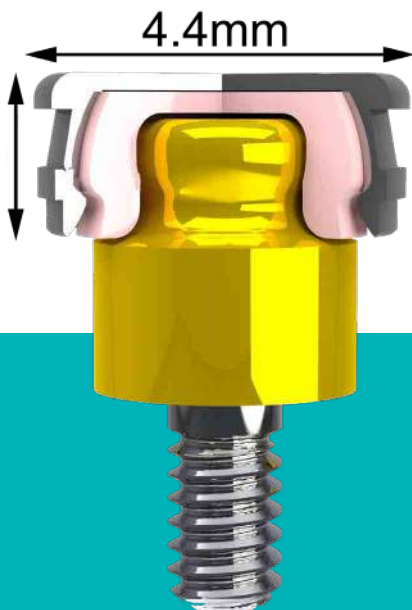


## OT EQUATOR + SMART BOX IGEA NARROW KIT

Complete package including:

- 1 Ot Equator custom Titanium abutment in different lengths
- 4 Retentive caps (different retention)
- 1 Cap self-parallelizing container
- 1 Protective disc

H mm	Code*
1.0	<b>131IGN1</b>
2.0	<b>131IGN2</b>
3.0	<b>131IGN3</b>
4.0	<b>131IGN4</b>
5.0	<b>131IGN5</b>
6.0	<b>131IGN6</b>



**EQUATOR SECTION  
COMPLETE**

## RETENTIVE CAP ASSORTMENT KIT

### KIT-192ECE

- 1 stainless steel cap container, Container
- 1 Black Cap (for laboratory use)
- 4 Yellow Retentive Caps: 1 Yellow (extra soft), 1 Pink (Soft), 1 White (standard), 1 Purple (rigid)
- 1 Protective disc



**PURPLE CAP** (4 pcs)  
Rigid seal (2.5 Kg)  
**140CEV**



**BLACK CAP** (4 pcs)  
From the laboratory  
**140CEN**



**WHITE CAP** (4 pcs)  
Standard seal (1.8 Kg)  
**140CET**



**STAINLESS STEEL CAP CONTAINER**  
(2 pcs)  
**141CAE**



**PINK CAP** (4 pcs)  
Soft seal (1.2 Kg)  
**140CER**



**IMPRESSION COPING CLOSED TRANSFER STRAPPING** (2 pcs)  
**044CAIN**



**YELLOW CAP** (4 pcs)  
Extra soft seal (0.6 Kg)  
**140CEG**



**LABORATORY ANALOG**  
(2 pcs)  
**144AE**



**SMARTBOX CONTAINER WITH BLACK CAP FOR DIVERGENCES UP TO 50°**  
**330SBE**



**EQUATOR KEY FOR RATCHET**  
**774CHE**



**INSERTER/EXTRACTOR FOR CAPS**  
(OT EQUATOR - NORMO)  
**487ICE**



**DRIVER FOR DYNAMOMETRIC HANDPIECE**  
**760CE**



## SPHERO BLOCK NORMO



H mm	Code*
1.0	002IGR1
2.0	002IGR2
3.0	002IGR3
4.0	002IGR4
5.0	002IGR5
6.0	002IGR6
7.0	002IGR7

Complete package including:

- 1 Customized spherical abutment
- 3 Retentive caps (different retention)
- 1 Cap container
- 3 Directional rings
- 1 Protective disc



### TRANSPARENT CAP STANDARD RETENTION 040CRN



### BLACK CAP FROM THE LABORATORY 043CLN



### PINK CAP SOFT RETENTION 040CRNSN



### STAINLESS STEEL CONTAINER 041CAN



### YELLOW CAP EXTRASOFT RETENTION 060CRNAY



### SPHERO BLOCK KEY FOR RATCHET 771CEF



### INSERTER/EXTRACTOR FOR CAPS (OT EQUATOR - NORMO) 485ICE



### CONNECTOR FOR DYNAMOMETRIC HANDPIECE 760CE



### REVERSIBLE DYNAMOMETRIC RATCHET

For tightening of Sphero-Block and Ot Equator  
Values of torque from 15 to 35 Ncm - Max 50 Ncm,  
suggested torque 25 Ncm

### 760CRD-US







# DIGITAL LIBRARIES

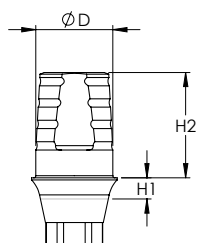




Our libraries are available for the following software: Exocad and 3Shape  
and can be downloaded from the website [www.mesaitalia.it](http://www.mesaitalia.it)



Before installation, the associated digitising components and accessories must be identified.

## Ti-BASE



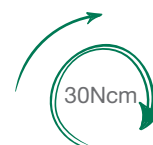
	H1 mm	H2 mm	D mm	Tipo	Code
	1	5	3.3	hexed	CEM-1100
		5	3.3	non-hexed	CEM-1101
	2.5	5	3.3	hexed	CEM-1108
		5	3.3	non-hexed	CEM-1109




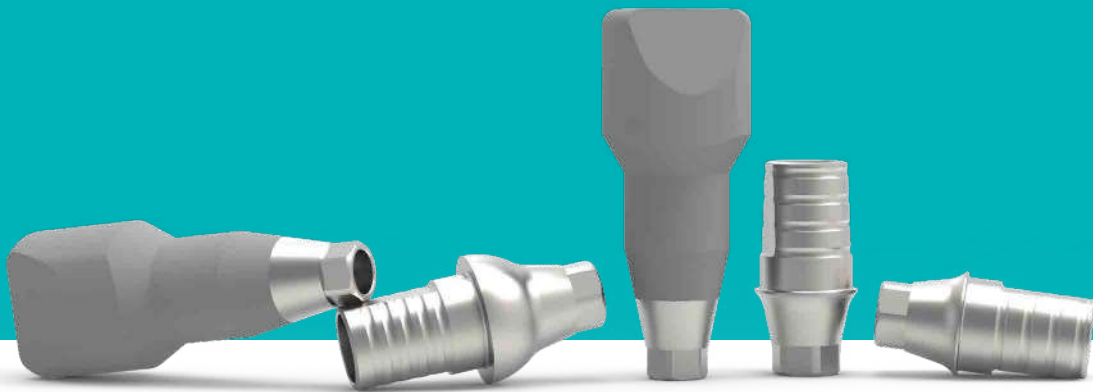
**TITANIUM GRADE 23**

## Ti-BASE SCREW

	Thread	Code
	M1.6	SCR-1400

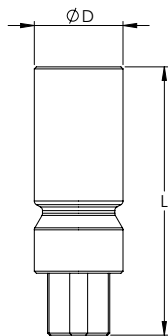



The components of the Igea system that can be downloaded in the digital libraries, are marked with the symbol  next to the reference table.



Ti-Base, Scan-Abutment and Analog allow our implant line to have a wide range of restorative products allowing dentists and laboratories to embrace the digitization to design and create aesthetic and long-lasting restorations.


## IMPLANT REPLICA



	L mm	D mm	Code
	13	4.3	REP-1614

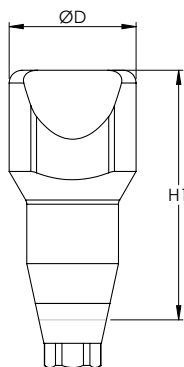



## REPLICA SCREW

	L mm	Thread	Code
	3.7	M1.6	SCR-1412

MEDICAL STAINLESS STEEL

## SCAN-ABUTMENT



	H1 mm	D mm	Code
	12	6	SAB-1608

TITANIUM GRADE 23

## SCAN-ABUTMENT SCREW

	Thread	Code
	M1.6	SCR-1400





# IGEA NARROW SCREWS



IGEA screws allow for high quality abutment implant fixation  
To avoid unscrewing that could result in damage to the finished work



## SCREWS AND CODES

	Description	Thread	Code
	SCAN-ABUTMENT SCREW	M1.6	SCR- <b>1400</b>
	Ti-BASE SCREW		
	SCAN-ABUTMENT SCREW		
	MU ABUTMENT SCREW	M1.6	SCR- <b>1402</b>
	MU SCAN-ABUTMENT SCREW	M1.4	SCR- <b>1404</b>
	CYLINDER SCREW		
	HEALING CAP SCREW		
	CLOSED TRAY SCREW	M1.6	SCR- <b>1408</b>
	MU CLOSED TRAY	M1.4	SCR- <b>1411</b>
	OPEN TRAY SCREW L19	M1.6	SCR- <b>1405</b>
	OPEN TRAY SCREW L 24		SCR- <b>1413</b>
	MU OPEN TRAY SCREW L19	M1.4	SCR- <b>1407</b>
	MU OPEN TRAY SCREW L 24		SCR- <b>1415</b>
	REPLICA SCREW	M1.6	SCR- <b>1412</b>
	MU REPLICA SCREW		
	COVER SCREW	M1.6	SCR- <b>1501</b>

# RAW MATERIALS

Mesa Italia has always been careful to select the best raw materials on the market.

**Commercially pure Grade 4 Titanium** is used for the production of the **implant**, which in addition to ensuring rapid osseointegration has the highest mechanical strength among commercially pure Titanium grades.

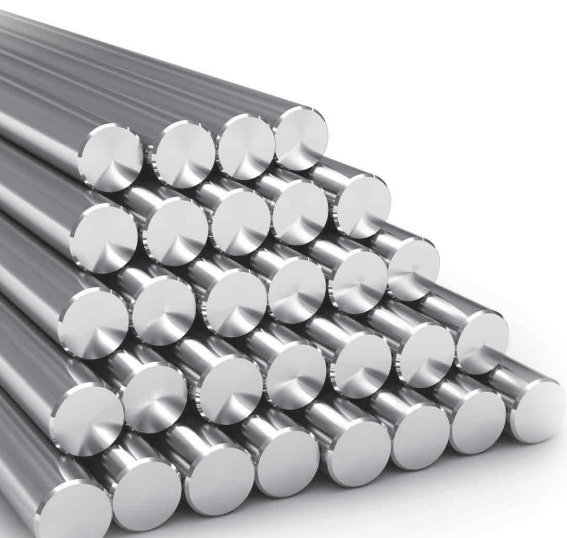
## MEDICAL GRADE 4 TITANIUM TECHNICAL SPECIFICATIONS

CHEMICAL COMPOSITION	CONCENTRATION (% m/m)
Nitrogen (N)	< 0.05
Carbon (C)	< 0.08
Hydrogen (H)	< 0.015
Iron (Fe)	< 0.50
Oxygen (O)	< 0.40
Titanium (Ti)	Remaining

MECHANICAL PROPERTIES	MINIMUM VALUES
Breaking load	> 550 MPa
Yield strength (0.2%)	> 483 MPa
Elongation	> 15%

Our implants conform to the specifications expressed in current regulations for the use of Grade 4 Titanium in implantology:

- ASTM F67: Standard Specification for unalloyed titanium, for surgical implant applications



# RAW MATERIALS

The prosthetic components is made from **Grade 23 Titanium alloy**, the **higher purity version of Grade 5**, which provides not only excellent biocompatibility but also high fracture resistance, making it suitable for the fabrication of prostheses.

## SPECIFICATIONS TITANIUM GRADE 23 (Ti6 AL-4V ELI)

CHEMICAL COMPOSITION	CONCENTRATION (%)
Nitrogen (N)	< 0.05
Carbon (C)	< 0.08
Hydrogen (H)	< 0.012
Iron (Fe)	< 0.25
Oxygen (O)	< 0.13
Aluminum (Al)	5.50-6.50
Vanadium (V)	3.50-4.50
Titanium (Ti)	Remaining

MECHANICAL PROPERTIES	MINIMUM VALUES
Breaking load	> 860 MPa
Yield strength (0.2%)	> 795 MPa
Elongation	> 10%

Our components comply with the specifications expressed in current regulations for the use of Grade 23 Titanium in implantology:

- ASTM F136: Standard Specification for wrought Titanium-6Aluminum-4Vanadium ELI (Extra low Interstitial) Alloy for surgical implant applications;
- ISO 5832-3: Surgical implants - Metallic materials - Part 3: Alloy Titanium 6 - Aluminum 4 - vanadium



# RAW MATERIALS

**MESA's overcasts are produced with Magnum Splendidum Chromium-Cobalt alloy**, the company's historic alloy that has excellent characteristics and is also ideal for overcasting.

Overcasting with Magnum Lucens alloy, which is equally known for its peculiar oxidation resistance and lower solidus/liquidus temperature (1253-1304°C) than standard Cr/Co alloys, is recommended.

Displayed in the tables below, are data on the chemical composition and physical-mechanical properties of the alloys just described.

## CHEMICAL COMPOSITION OF CHROME-COBALT ALLOYS:

	CO (%)	CR (%)	W (%)	MO (%)	NB (%)	OTHER COMPONENTS
<b>Magnum Splendidum</b>	60	28	9	0	0.0	3 (Si)
<b>Magnum Lucens</b>	63	28	3	0	4.0	2 (Mn, Fe)

## PHYSICAL-MECHANICAL PROPERTIES OF CHROME-COBALT ALLOYS:

	CET (25-500°)	FUSION TEMPERATURE
<b>Magnum Splendidum</b>	14.2x10 <sup>-6</sup> K-1	1440°C
<b>Magnum Lucens</b>	14.1x10 <sup>-6</sup> K-1	1360°C



Mesa Discs - **Magnum Splendidum**



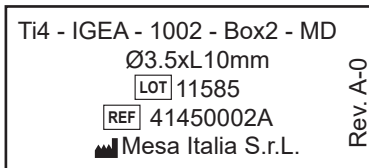


# IMPLANT PACKAGING

Mesa implants come in sterile packaging that guarantees, if intact and well preserved, the sterility of the same.

## CARDBOARD BOX

which adequately preserves the product, allows for easy storage and enables immediate visual identification due to the well-presented color code on the outer label.



Inside the box there are also:

- Three adhesive labels showing code and lot identifying the implant that must be applied to and to the implant passport.
- Applied to the implant passport and to the medical record.
- The paper instruction for use.



0425



Production date



Manufacturer



To be used within



Batch Code



Sterilized by irradiation



Not reusable



Do not re-sterilize



Danger



Sterile packaging.  
Do not use the blister is open or damaged



## IMPLANT SAMPLING

The implant is picked up directly inside the Titanium container, by the operator by means of the contra-angle, without disrupting the sterile chain.



**1**

Rotate the cap backwards.



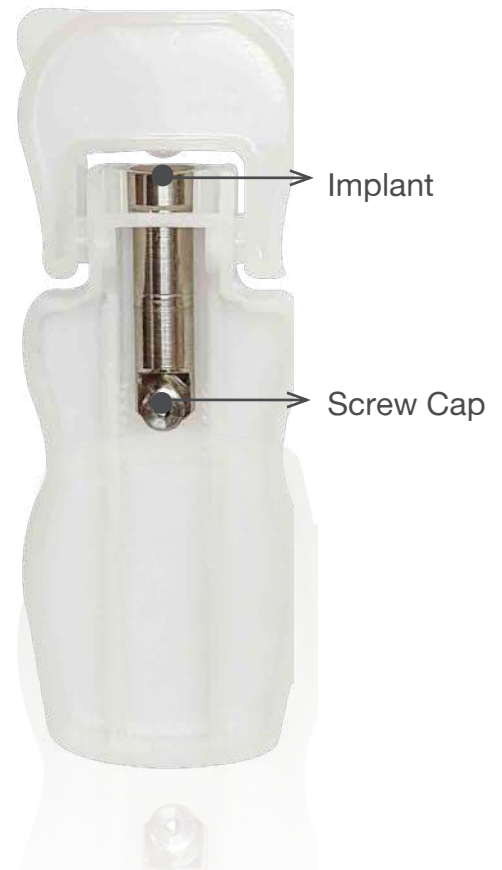
**2**

Take securely the blisters.



**3**

Pick up the implant with the contra-angle Moulder motorized.



## IMPLANT PACKAGING

- **Ease of use:**  
easy opening to allow convenient access to the implant and screw cap
- Titanium holder that serves as a support for the implant.

# ANATOMICAL CRITERIA

Before any implant surgery, a thorough patient history must be taken (clinical and radiographic analysis are necessary) and all possible risks must be evaluated. The patient's expectations must also be well outlined. Close communication between the patient, dentist, surgeon, and dental technician is critical to achieving the desired prosthetic result.

Design, quantity, diameter, and length of implants to be placed will depend on the type of restoration planned and the quality and quantity of bone available.

Only by respecting the minimum distances between elements can the restoration be designed so that the necessary oral hygiene measures can be performed. Inappropriate choice of implant size can lead to hard- and soft-tissue complications, even to implant surgery failure.

The location of the plant can be considered in 3 dimensions:

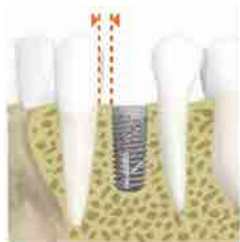
- **Mesio-distal**

The presence of mesio-distal bone is an important factor in the choice of implant diameter as well as inter-implant distances in the case of multiple implants.

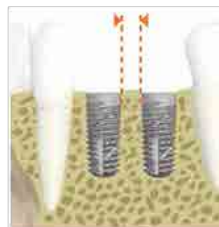
Therefore, stick to the following minimum measures:

- Minimum distance 2 mm between implant emergence and contiguous tooth (mesial and distal) at the level of the bone crest;
- Minimum distance 3 mm between two adjacent implant emergences (mesial and distal).

**Minimum 2 mm**



**Minimum 3 mm**



**NOTE:** suggested measurements are indicative, the greater the distance the lower the risk of post-surgical issues.

- **Lingual vestibule**

The minimum requirement for restoration contours equals 1.0 mm on both sides of the platform diameter. In anterior areas, it is desirable to have at least 2 mm vestibular cortical area.

**Minimum 1 mm**



- **Vertical anatomical boundaries**

It is recommended to maintain a distance of 1.0 to 2.0 mm between the maximum depth of the osteotomy and the upper limit of the mandibular canal to avoid injuring the neurovascular bundle.

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# WARNINGS AND CERTIFICATIONS

## INSTRUCTIONS FOR USE

The information contained in this manual, supplements, without replacing, the instructions for use that accompany each Igea Implant System device and should not be construed as an alternative to the training and professional experience of the user.

Before using each product, it is recommended that you carefully read the instructions for use, which can also be found at [www.mesaitalia.it](http://www.mesaitalia.it).

Mesa Italia accepts no liability in the event of failure to comply with these instructions.

## CASE DOCUMENTATION AND TRACEABILITY

It is recommended that clinical, radiological, photographic and statistical documentation be recorded for each patient.

Each implant and prosthetic components should be tracked using the part number and lot number, which are on the respective labels accompanying the dental implant: implant labels should be attached to the patient card to facilitate traceability

## DISCLAIMER

The “IGEA” dental implant is intended only for professional use by licensed dental surgeons with extensive knowledge of dental prosthetics and should be inserted using only instruments and components supplied by the manufacturer.

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