

ASA[®]

1975

PRODUCER OF SPECIAL ALLOYS SINCE

IGE A
I M P L A N T S Y S T E M

PRODUCT CATALOG 2024



**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.

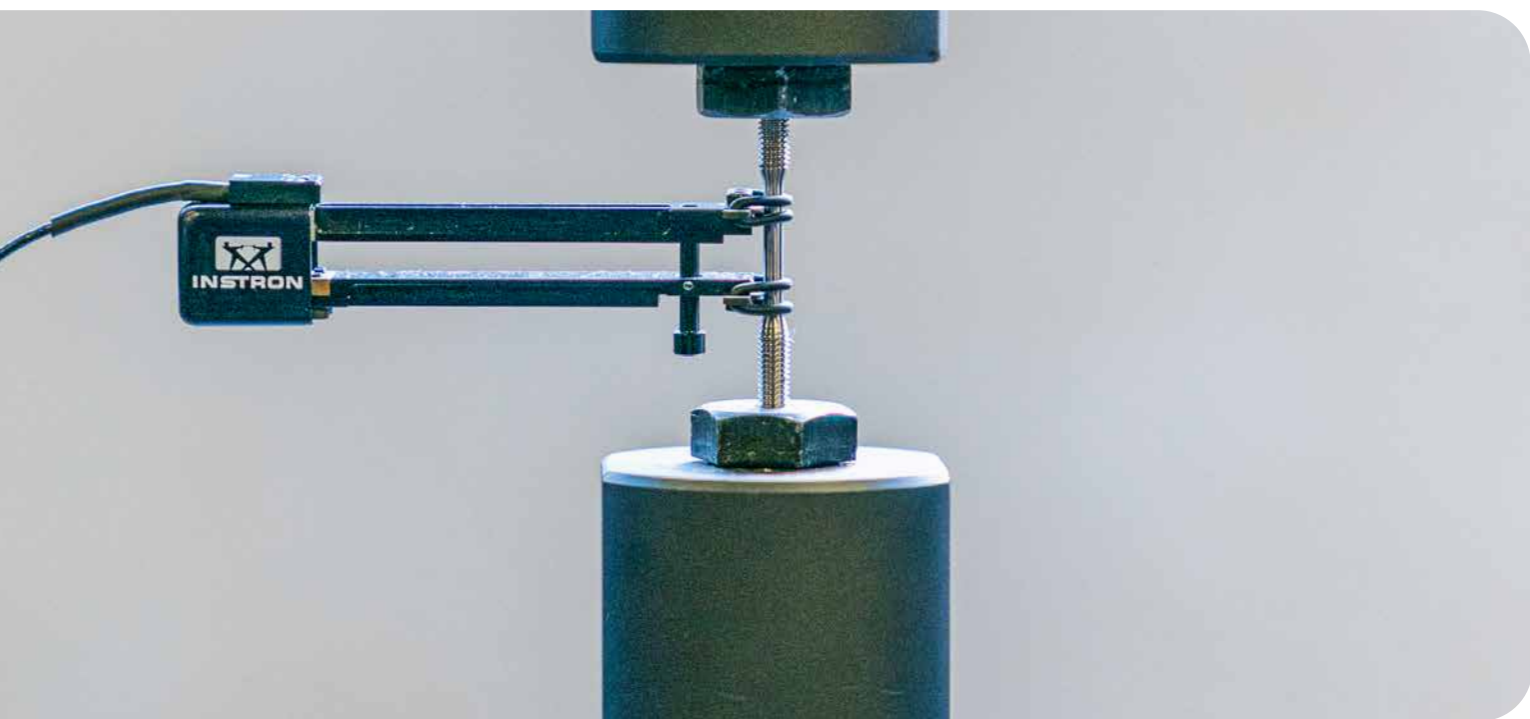
The production process is carried out by a staff of highly skilled engineers and operators who conduct daily studies on production technology. Mechanical production is done with state-of-the-art sliding headstock machines.

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.



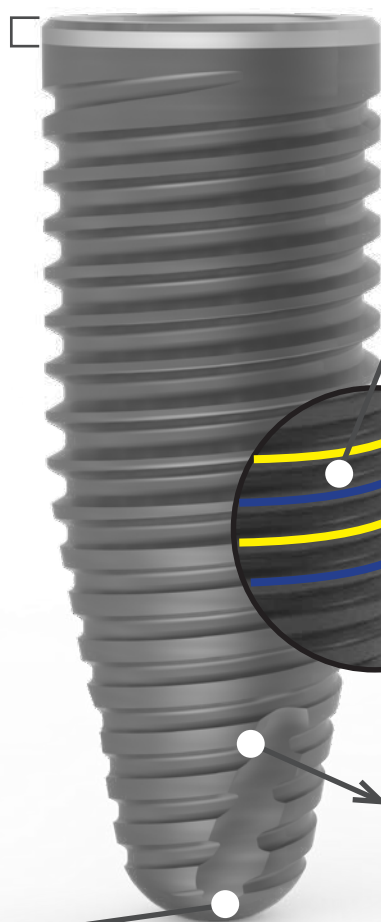


The two terms simple and functional well summarize the dual goal the company is committed to: ensuring innovative solutions that at the same time meet clinicians' expectations. Thanks to collaboration with Italian University Institutions, microleakage tests on our fixture and compatibility studies on 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.

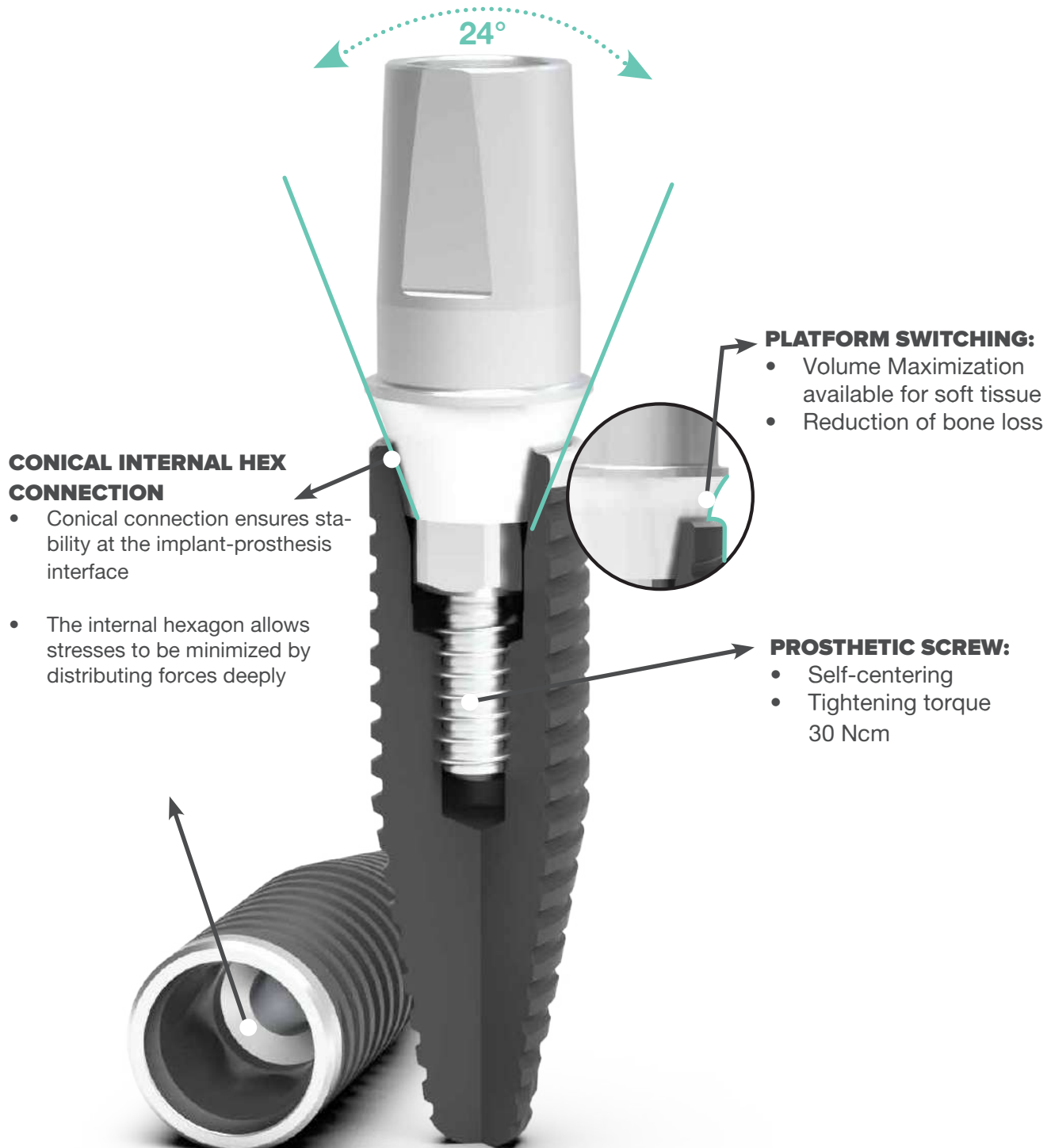
THREAD PITCH:
1.2 mm, except
for the $\varnothing 5$ mm
equal to 1.6 mm

APICAL CUTTING FLUTES:
achieve primary 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.

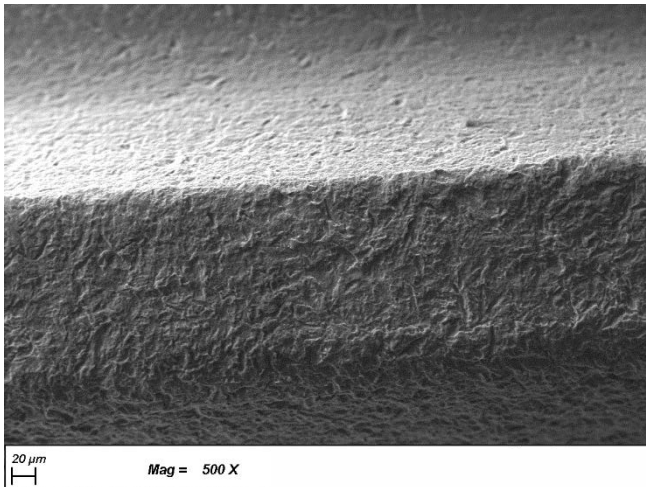
CONICAL HEXAGONAL CONNECTION



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

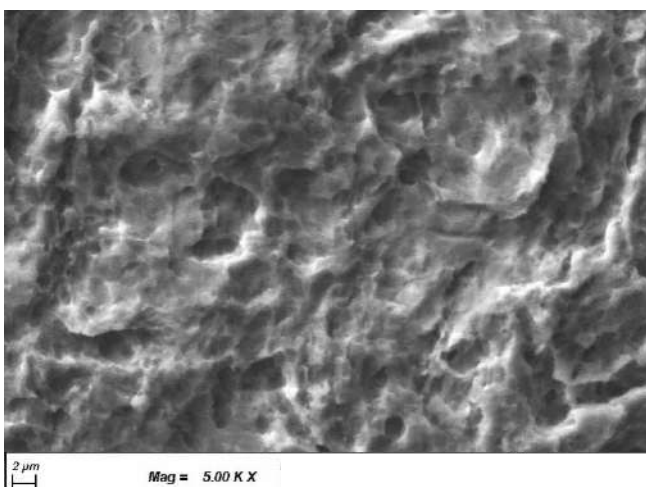


MATERIAL

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

NARROW and REGULAR

IMPLANT



N= NARROW



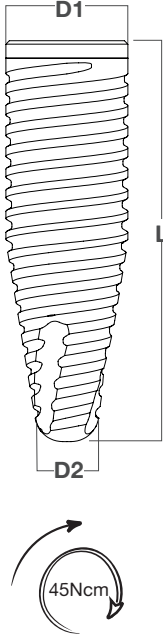


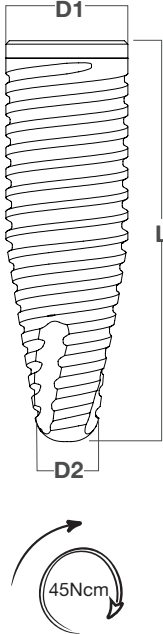


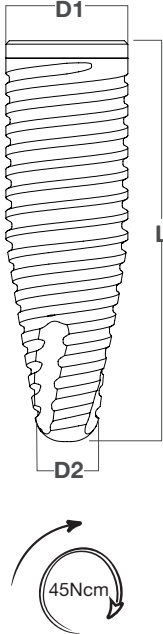


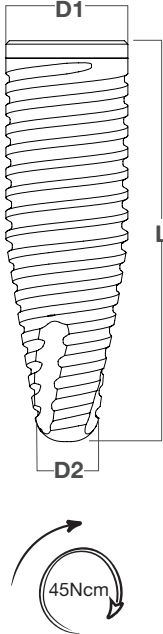


R= REGULAR

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

COLOR CODE

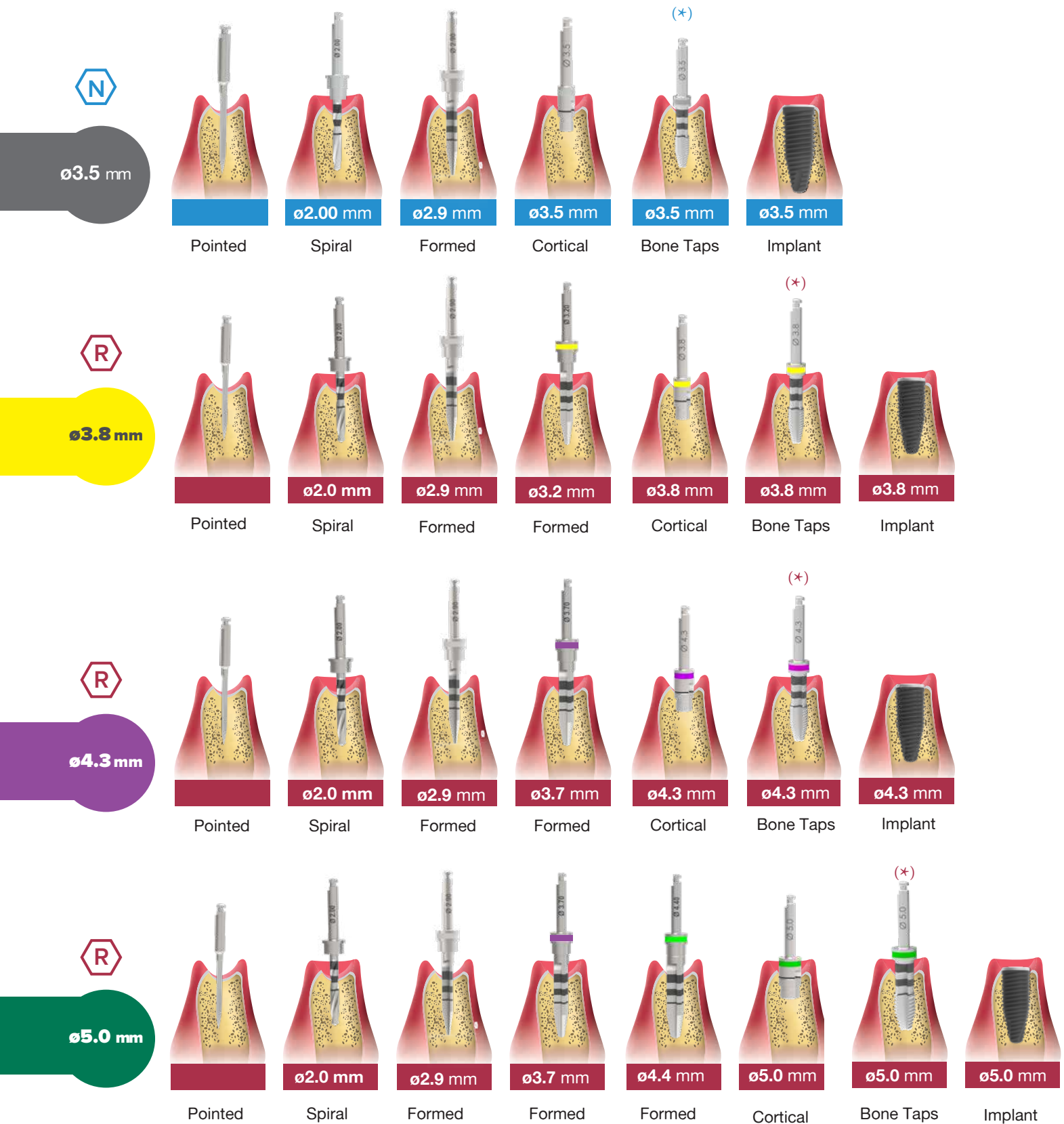
3.5 mm | 3.8 mm | 4.3 mm | 5.0 mm

NARROW AND
REGULAR
IMPLANT

	D1 mm	D2 mm	L mm	Code	
		1.6	8	Ti4-Igea-1003	
			10	Ti4-Igea-1002	
			11.5	Ti4-Igea-1001	
			13	Ti4-Igea-1004	
			15	Ti4-Igea-1005	
		1.9	8	Ti4-Igea-1006	
			10	Ti4-Igea-1007	
			11.5	Ti4-Igea-1008	
			13	Ti4-Igea-1009	
			15	Ti4-Igea-1010	
		2.2	8	Ti4-Igea-1026	
			10	Ti4-Igea-1027	
			11.5	Ti4-Igea-1028	
			13	Ti4-Igea-1029	
			15	Ti4-Igea-1030	
		2.6	8	Ti4-Igea-1021	
			10	Ti4-Igea-1022	
			11.5	Ti4-Igea-1023	
			13	Ti4-Igea-1024	
			15	Ti4-Igea-1025	

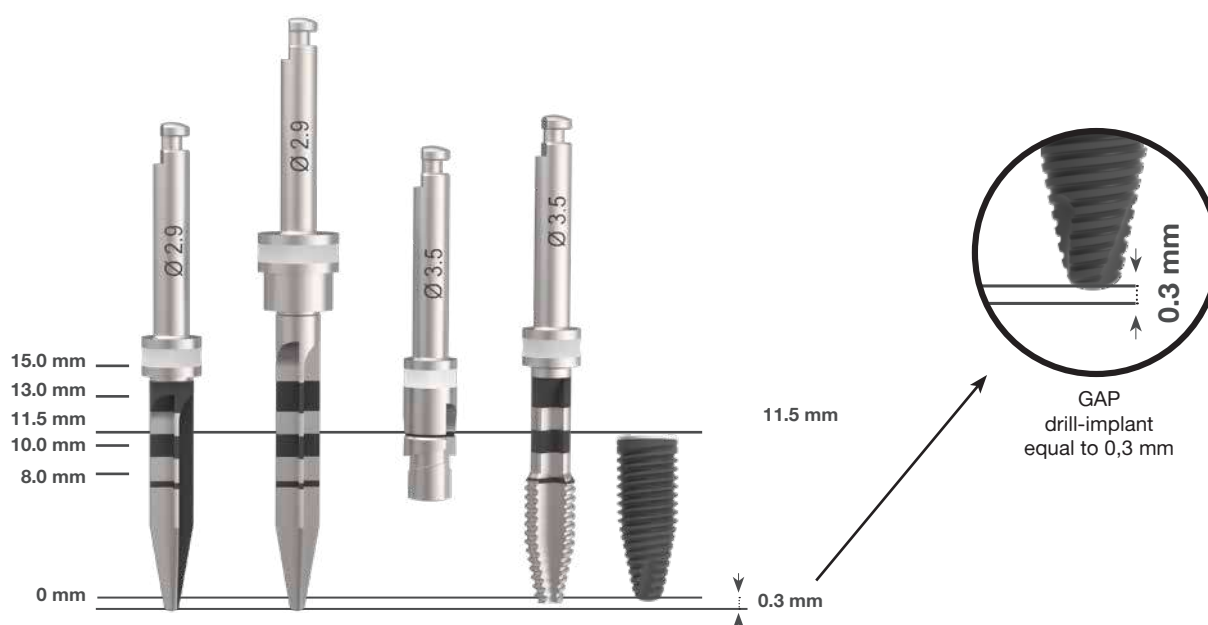
The plant platform should be placed at the bone crest (crestal placement)

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 bone tap, at the maximum speed of 20 rpm and only with the diameter corresponding to the width of the implant bed.

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.



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.

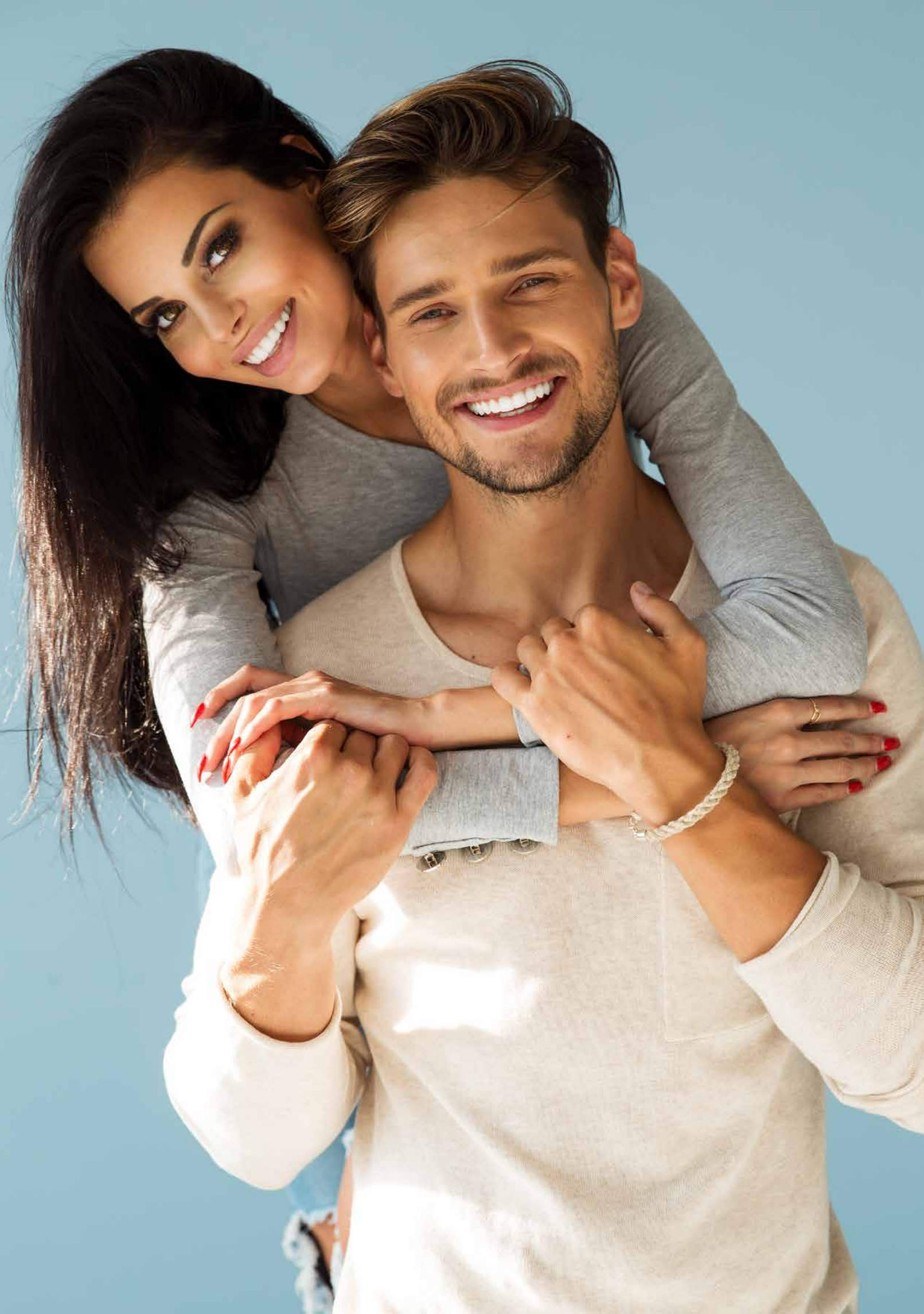
DRILL SPEED:

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.

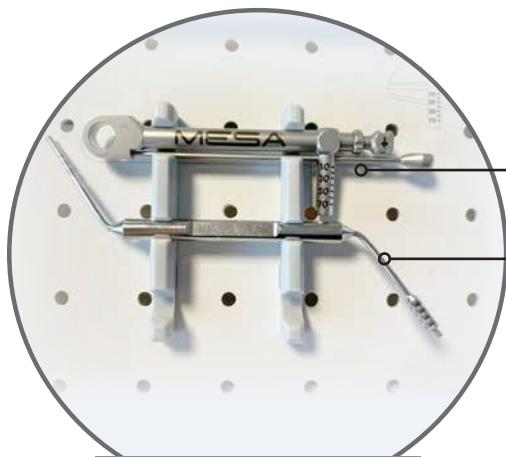


SURGICAL KIT



Surgical Box
41530001A

- **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.



INTERNAL ZONE

RATCHET WRENCH

DEPTH PROBE

SHORT / LONG
FORMED DRILLS

SPIRAL DRILLS

POINTED DRILL

SHORT
CONTRA-ANGLE
DRIVER

MANUAL
SHORT / LONG
DRIVER AND
FOR RATCHET

UNIVERSAL MU
DRIVER

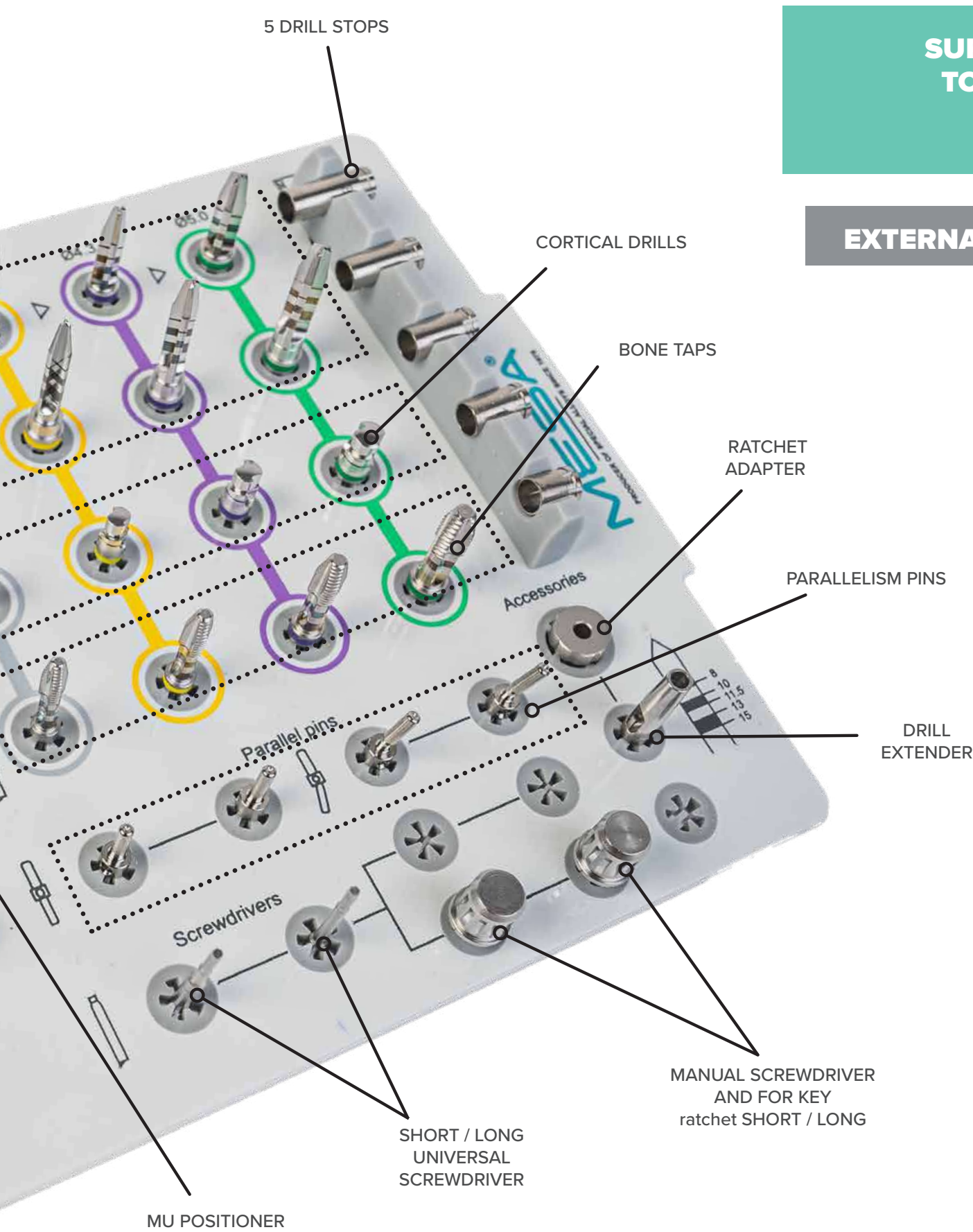
MANUAL MU DRIVER

BONE PROFILER
ø4.0 / ø5.0 / ø6.0

BONE PROFILER
GUIDES

**SURGICAL
TOOL KIT**

EXTERNAL ZONE



DRILLS

MEDICAL STAINLESS STEEL

D mm	Description	Code
------	-------------	------

POINTED DRILL



2

Osteotomy drill to be used to incise cortical bone and make the invitation for subsequent use of the spiral drill.

SST-0031

SPIRAL DRILL























2.0

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.
Drill stops are also available for spiral long drills.

SST-0107
(SHORT)





















SST-0067
(LONG)

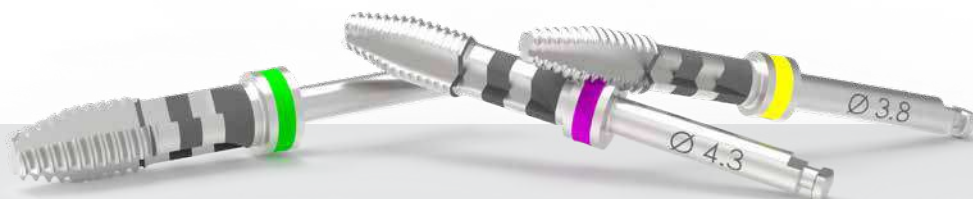


	D mm	Description	Code
	 2.9	SHORT FORMED DRILLS The formed drill is a tapered drill made to be used in the final steps of implant seat fabrication. The markings on the body of the drill indicate the depth relative to the bone level. Color-coding helps the operator match drill diameters to implant diameters in the IGEA implant line.	SST-0076 
	 3.2		SST-0077
	 3.7		SST-0079 
	 4.4		SST-0081
	 2.9	LONG FORMED DRILLS 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. The drills can be used in combination with the stops that prevent the surgeon from drilling into the bone beyond the limit indicated by the stop itself.	SST-0070 
	 3.2		SST-0071
	 3.7		SST-0073 
	 4.4		SST-0075

CORTICAL DRILL AND BONE TAPS

MEDICAL STAINLESS STEEL

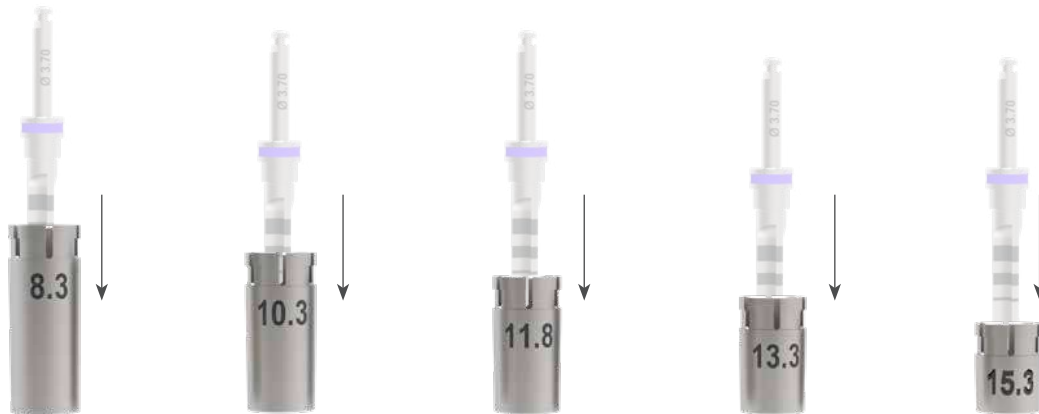
	D mm	Description	Code
	 3.5	CORTICAL DRILL Drill recommended to widen the cortical collar in case of compact bone, in order to facilitate implant insertion. Do not plunge beyond the black line.	SST-0109 
	 3.8		SST-0110
	 4.3		SST-0111 
	 5.0		SST-0112
	 3.5	BONE TAPS Surgical instrument used to make 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 do not operate the bone tap at speeds higher than 20 rpm, maintaining cooling and with plenty of watering. Use is recommended for implant placement in compact bone.	SST-0082 
	 3.8		SST-0083
	 4.3		SST-0085 
	 5.0		SST-0087



DRILL-STOPS

TITANIUM GRADE 23

*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








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




MEDICAL STAINLESS STEEL

	D mm	Description	Code
	4.3		SST-0088
BONE PROFILER			
	5.0	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. The maximum recommended speed per contra-angle handpiece is 15 rpm with plenty of irrigation and maintaining cooling.	SST-0089
	6.0		SST-0090
			SST-0063  SST-0064 
		DRILL EXTENDER Tool that allows for greater length availability for handpiece instruments.	SST-0124



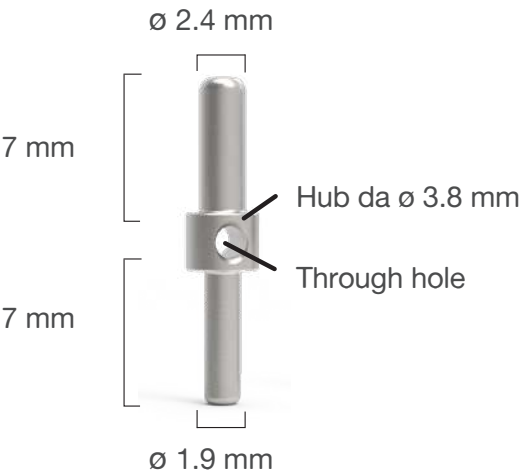
PARALLELISM
PINS

TITANIUM GRADE 23

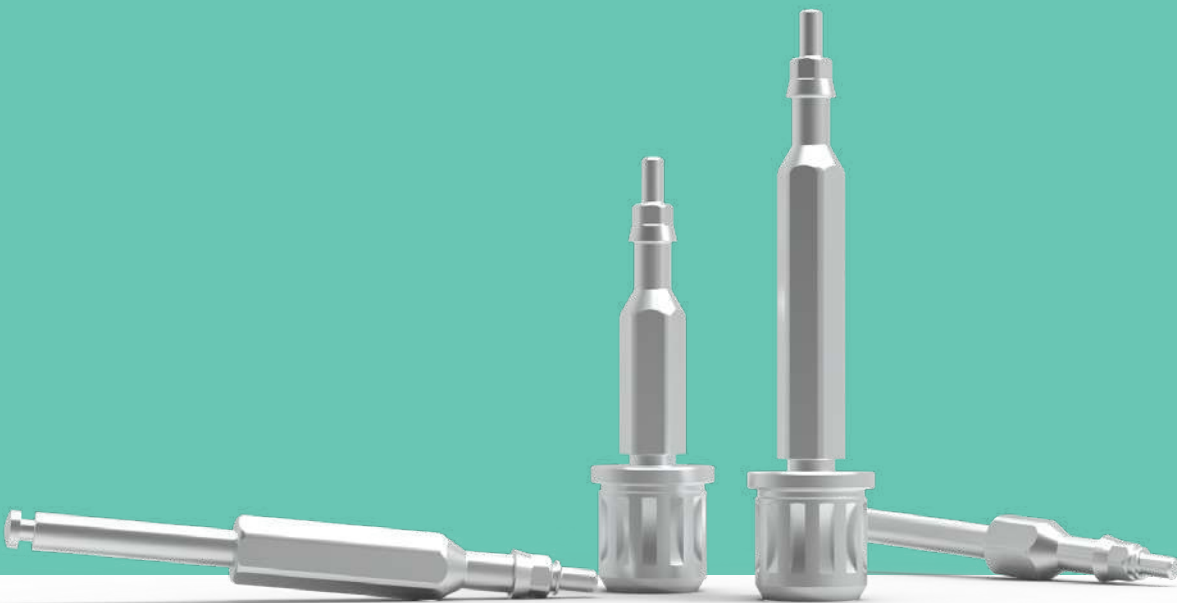
	D mm	Description	Code
	0°		MST-1401
	17°		MST-1402
	30°		MST-1403

PARALLELISM PINS

The parallelism pin is designed with opposite ends of different diameters: \varnothing 1.9 and \varnothing 2.4; this allows the clinician to use the pin early in the drilling sequence to ensure proper implant placement and alignment.



DRIVER, SCREWDRIVERS AND RATCHET

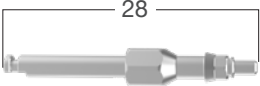


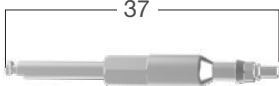




Contra-Angle driver is a surgical tool designed to allow the dental implant to be inserted into the bone site.

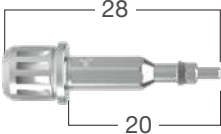


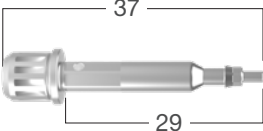


The recommended speed for implant insertion is 15 rpm, not exceeding 25 rpm. Do not irrigate.

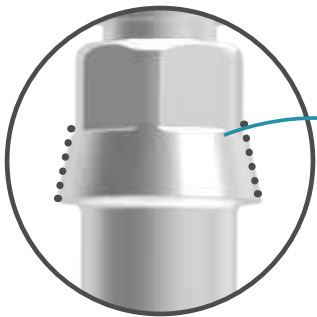
IMPLANT DRIVERS

MEDICAL STAINLESS STEEL

L	Description	Code
	CONTRA-ANGLE DRIVER	SST-0132 
SHORT		SST-0133 
		SST-0135 
LONG		SST-0136 

For the extraction of the implant use only the motor mounter

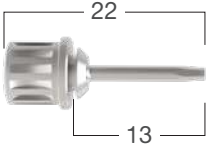
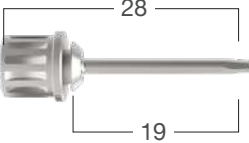



L	Description	Code
	MANUAL DRIVER AND FOR RATCHET	MST-1207 
SHORT		MST-1203 
		MST-1208 
LONG		MST-1204 



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

PROSTHETIC
SCREWDRIVERS

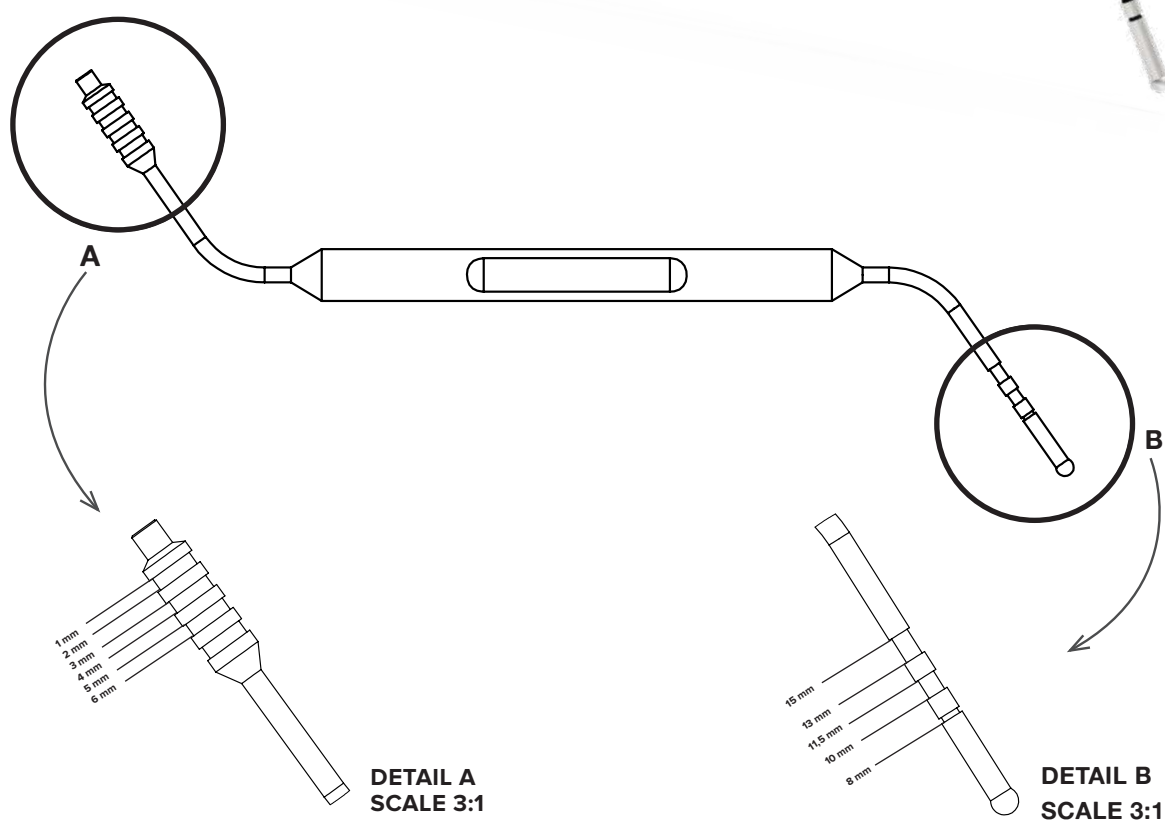
MEDICAL STAINLESS STEEL

L	Description	Code
	SHORT	MST-1109
	LONG	MST-1110
	SHORT	MST-0093
	LONG	MST-0094
	RATCHET ADAPTER	MST-1301

DEPTH PROBE

MEDICAL STAINLESS STEEL

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.

RATCHETS

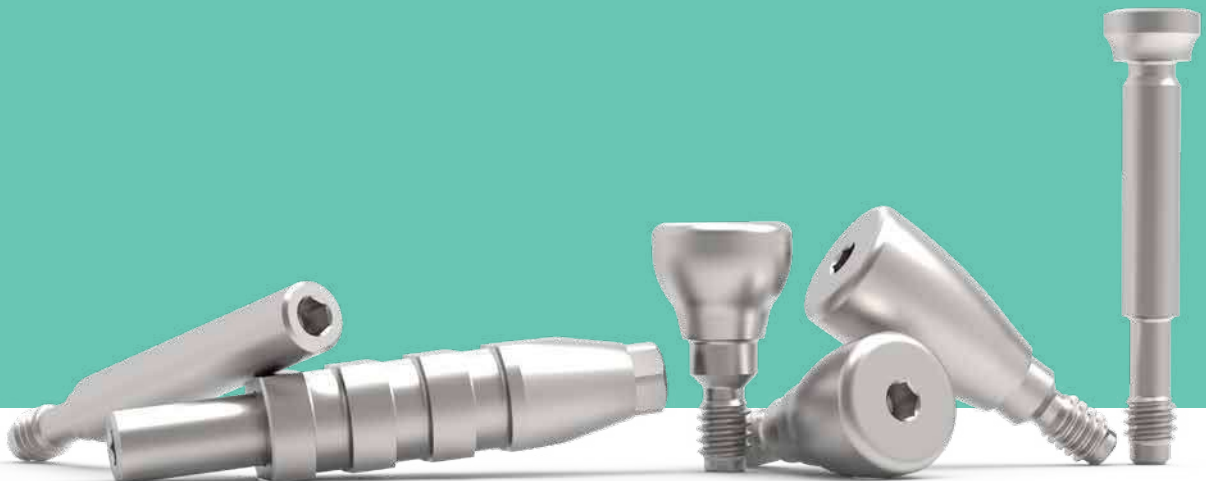
MEDICAL STAINLESS STEEL

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



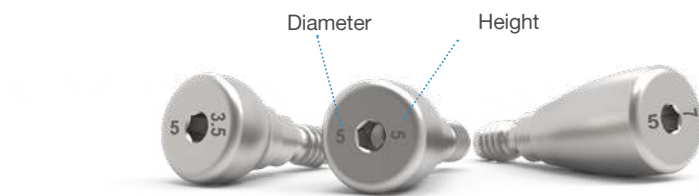


PRE-PROSTHETIC



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.

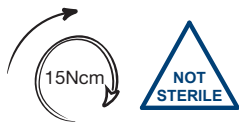
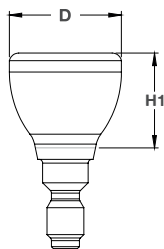


Laser marking for immediate identification of diameter and height

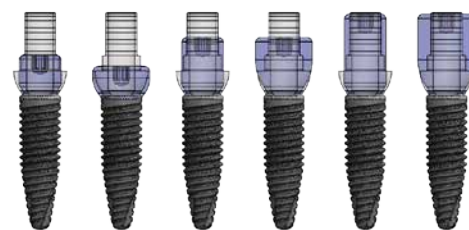
HEALING SCREWS





TITANIUM GRADE 23

	H1 mm	D mm	Thread	Code	
	3.5	3.7 5	M1.6	HLS-1300 HLS-1304	
	5	3.7 5	M1.6	HLS-1302 HLS-1306	
	7	3.7 5	M1.6	HLS-1308 HLS-1310	

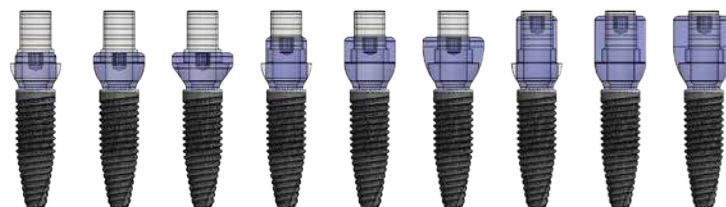


H3.5 ø3.7 H3.5 ø5 H5 ø3.7 H5 ø5 H7 ø3.7 H7 ø5



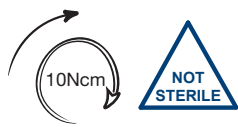
	H1 mm	D mm	Thread	Code	
	3.5	4 5 6	M2	HLS-1301 HLS-1305 HLS-1309	
	5	4 5 6	M2	HLS-1303 HLS-1307 HLS-1311	
	7	4 5 6	M2	HLS-1312 HLS-1313 HLS-1314	



H3.5 ø4 H3.5 ø5 H3.5 ø6 H5 ø4 H5 ø5 H5 ø6 H7 ø4 H7 ø5 H7 ø6



IMPRESSION COPING OPEN TRAY



TITANIUM GRADE 23

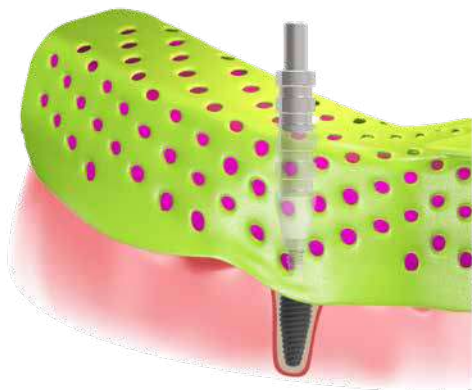



H1 mm	D mm	Code	
12	4.2	TAB-1600	
	4.5	TAB-1601	

OPEN TRAY SCREWS



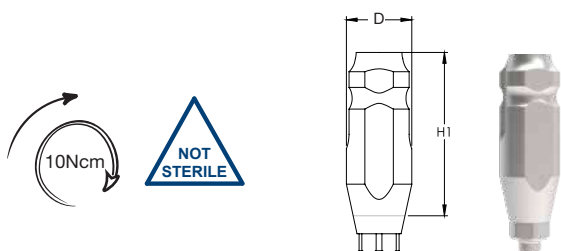
L mm	Thread	Code	
19	M1.6	SCR-1405	
24	M1.6	SCR-1413	
19	M2	SCR-1406	
24	M2	SCR-1414	





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

IMPRESSION COPING CLOSED TRAY



TITANIUM GRADE 23



H1 mm	D mm	Code
10	4.1	TAB-1602 
	4.4	TAB-1603 

CLOSED TRAY SCREW



L mm	Thread	Code
16	M1.6	SCR-1408 
16	M2	SCR-1409 

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



IMPLANT REPLICA

MEDICAL STAINLESS STEEL



REPLICA SCREW

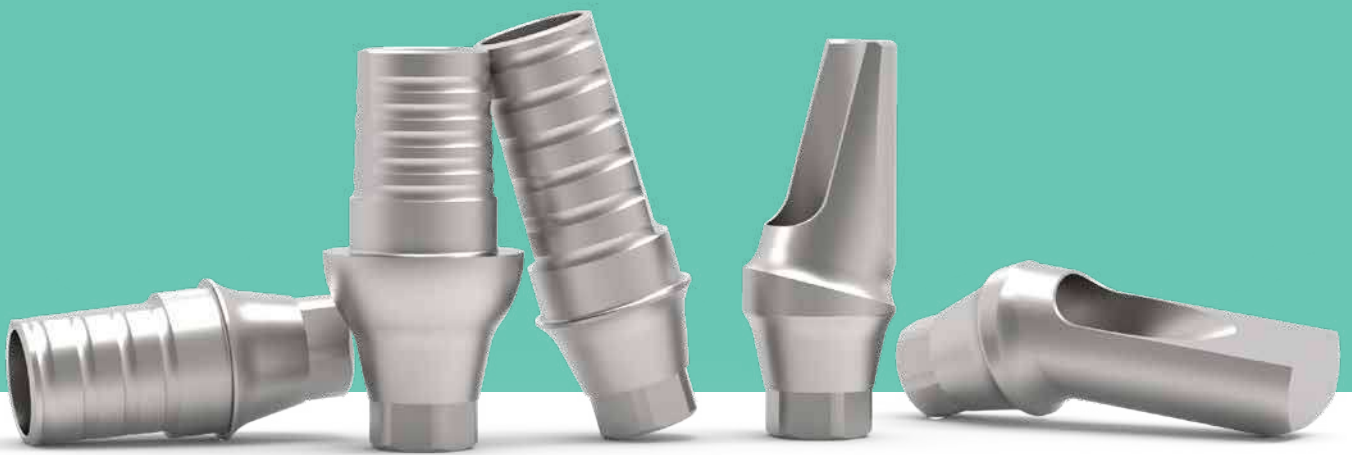
L mm	Thread	Code
3.7	M1.6	SCR-1412



The IGEA line replica is suitable for use in **both plaster models and 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

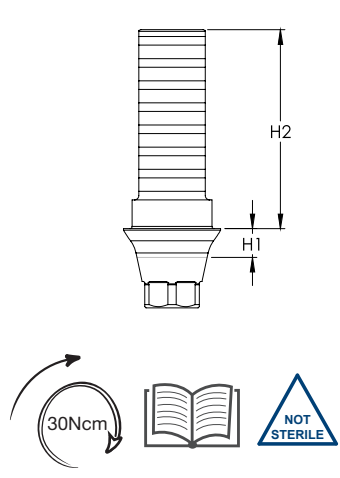






In the study and design of prosthetic components, Mesa has paid special attention to offering optimal solutions to the clinician in order to make the fabrication of prosthetic elements simple and flexible.

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



TITANIUM STRAIGHT ABUTMENTS

TITANIUM GRADE 23

H1 mm		H2 mm	D mm	Type	Code
	1	9	3.3	hexed non-hexed	CEM-1144  CEM-1146
			3.6	hexed non-hexed	CEM-1148  CEM-1150
	2.5	9	3.3	hexed non-hexed	CEM-1152  CEM-1154
			3.6	hexed non-hexed	CEM-1156  CEM-1158

ABUTMENT SCREW











Thread	Code
M1.6	SCR-1400 
M2	SCR-1401 



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.

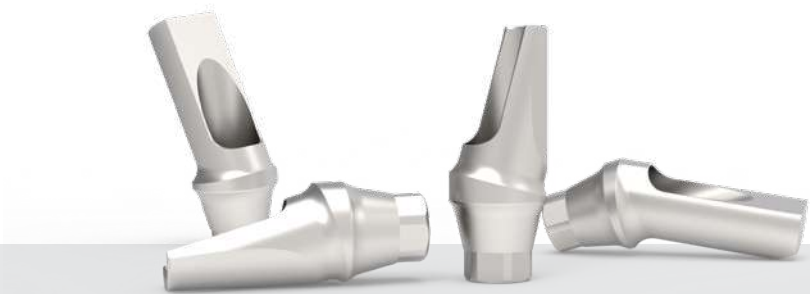
TITANIUM ANGLED ABUTMENTS

TITANIUM GRADE 23

A°	H1 mm	H2 mm	Hexagon	Code
15°	1.8	6.0	 Hex A	CEM-1116
			 Hex B	CEM-1118
25°	1.6	7.0	 Hex A	CEM-1169
			 Hex B	CEM-1171
			 Hex A	CEM-1136
			 Hex B	CEM-1137
			 Hex A	CEM-1173
			 Hex B	CEM-1175

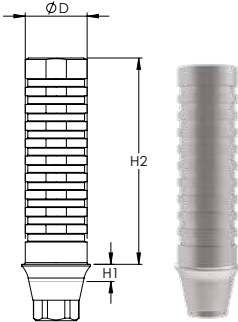
ABUTMENT SCREW



Thread	Code
M1.6	SCR-1400 
M2	SCR-1401 






TITANIUM TEMPORARY ABUTMENTS

TITANIUM GRADE 23





H1 mm	H2 mm	D mm	Type	Code
1	12	3.3	hexed non-hexed	CEM-1138  CEM-1139
		3.6	hexed non-hexed	CEM-1140  CEM-1141



ABUTMENT SCREW

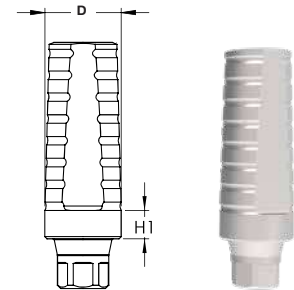





Thread	Code
M1.6	SCR-1400 
M2	SCR-1401 





TITANIUM RESCUE ABUTMENTS

TITANIUM GRADE 23

	H1 mm	H2 mm	D mm	Type	Code
	1.3	7.7	3.5	hexed non-hexed	CEM-1160 CEM-1161
	1.3	7.7	3.8	hexed non-hexed	CEM-1162 CEM-1163
	1.3	7.7	4.3	hexed non-hexed	CEM-1164 CEM-1165
	  	1.3	7.7	5.0	hexed non-hexed

ABUTMENT SCREW

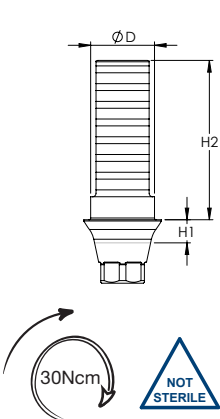








Thread	Code
M1.6	SCR-1400 
M2	SCR-1401 

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



CR-CO OVERCASTABLE ABUTMENTS

CHROME-COBALT

		H1 mm	H2 mm	D mm	Type	Code	
		1	9	3.3	hexed non-hexed	OCA-1145 OCA-1147	
				3.6	hexed non-hexed	OCA-1149 OCA-1151	
		2.5	9	3.3	hexed non-hexed	OCA-1153 OCA-1155	
				3.6	hexed non-hexed	OCA-1157 OCA-1159	

ABUTMENT SCREW



Thread	Code	
M1.6	SCR-1400	
M2	SCR-1401	

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



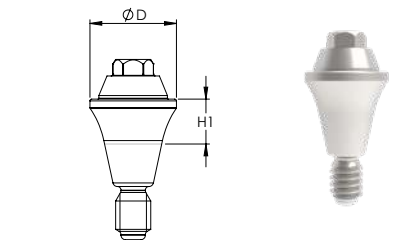
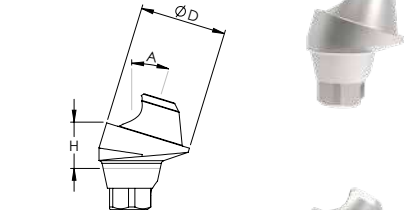

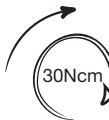

A modern multiprosthodontic system, to make screw-retained bridges, screw-retained bars, "toronto bridge", "all on four", and "all on six".

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

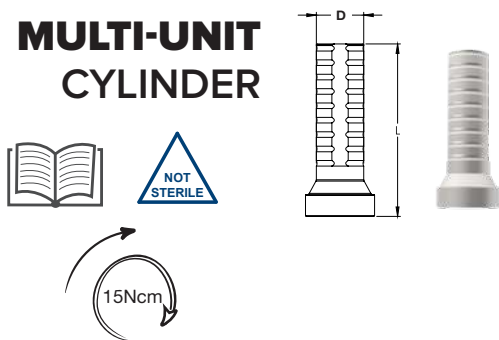
TITANIUM GRADE 23

		A°	H1 mm	D mm	Code	
	0°		1.5		MUA-1200	
			2.5	4.8	MUA-1201	
			3.5		MUA-1208	
	17°		2.5	4.8	MUA-1209	
			3.5		MUA-1214	
					MUA-1215	
  	30°		3.5	4.8	MUA-1202	N
					MUA-1203	R
					MUA-1210	MU
					MUA-1211	
			4.5		MUA-1204	
					MUA-1205	
					MUA-1212	
					MUA-1213	

MULTI-UNIT
ABUTMENT
SCREW

Thread	Code
M1.6	SCR-1402 N
M2	SCR-1403 R

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 MU

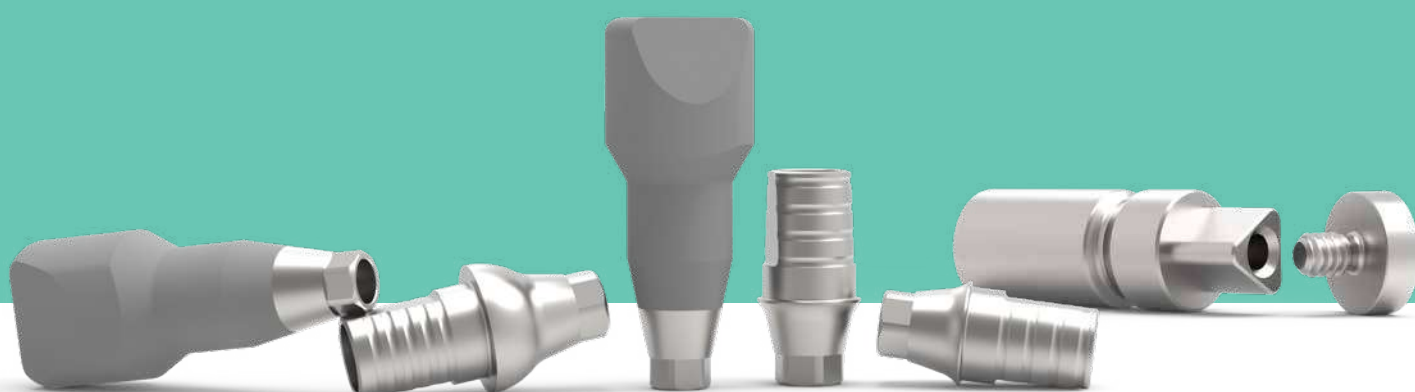
MULTI-UNIT COMPONENTS

	Components		Screws	
TAB-1610		IMPRESSION COPING MU OPEN TRAY		SCR-1407 SCR-1415 M1.4
TAB-1612		IMPRESSION COPING MU CLOSED TRAY		SCR-1411 M1.4
HLS-1315 (h 4.5)		MU HEALING CAP		SCR-1404 M1.4
HLS-1316 (h 6)				
REP-1616		 MU REPLICA		SCR-1412 M1.6
SCA-1621		 MU SCAN-ABUTMENT		SCR-1404 M1.4

ACCESSORIES

	Description	Code
	UNIVERSAL MU MOUNTER	MST-0092
	MANUAL MU MOUNTER	MST-1205
	MU POSITIONER	MST-1206
	RATCHET ADAPTER	MST-1301

DIGITAL LIBRARIES AND CAD/CAM ACCESSORIES



Our libraries are available for the following softwares: Exocad and 3Shape
and can be downloaded from the website www.mesaitalia.it


3shape  exocad

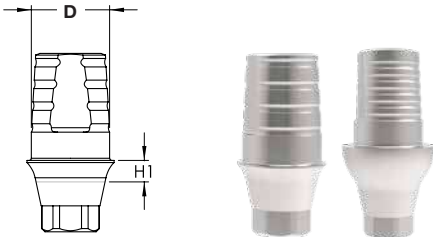




Before installation, the associated digitising components and accessories must be identified.



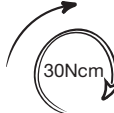
Ti-Base, Scan-Abutment and Analog allow our implant line to have a wide range of restorative products
allowing dentists and laboratories to embrace the
digitization to design and create aesthetic and long-lasting restorations.

Ti-BASE

TITANIUM GRADE 23



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

		H1 mm	H2 mm	D mm	Type	Code
	1	9	3.3	hexed non-hexed	CEM-1100  CEM-1101	
			3.6	hexed non-hexed	CEM-1104  CEM-1105	
	2.5	9	3.3	hexed non-hexed	CEM-1108  CEM-1109	
			3.6	hexed non-hexed	CEM-1112  CEM-1113	



TI-BASE
SCREW



Thread	Code
M1.6	SCR-1400 
M2	SCR-1401 

IMPLANT
REPLICA

MEDICAL STAINLESS STEEL






L mm	D mm	Code
13	3.65	REP-1614 
	4.3	REP-1615 

REPLICA
SCREW

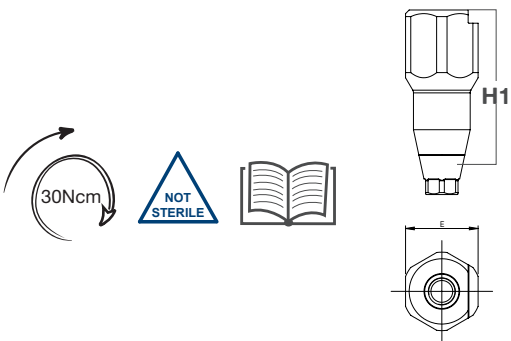


L mm	Thread	Code
3.7	M1.6	SCR-1412

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

SCAN-ABUTMENT
LARGE & SMALL

TITANIUM GRADE 23



LARGE

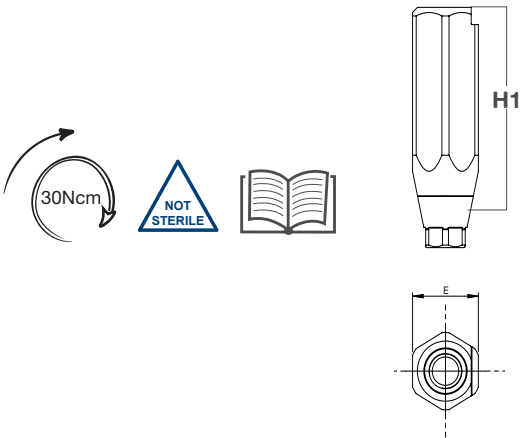


H1 mm	E mm	Code
12	6	SCA-1617
		SCA-1618

SCAN ABUTMENT
SCREW



Thread	Code
M1.6	SCR-1400
M2	SCR-1401



SMALL



H1 mm	E mm	Code
12	4.5	SCA-1619
		SCA-1620

SCAN ABUTMENT
SCREW






























Thread	Code
M1.6	SCR-1400
M2	SCR-1401

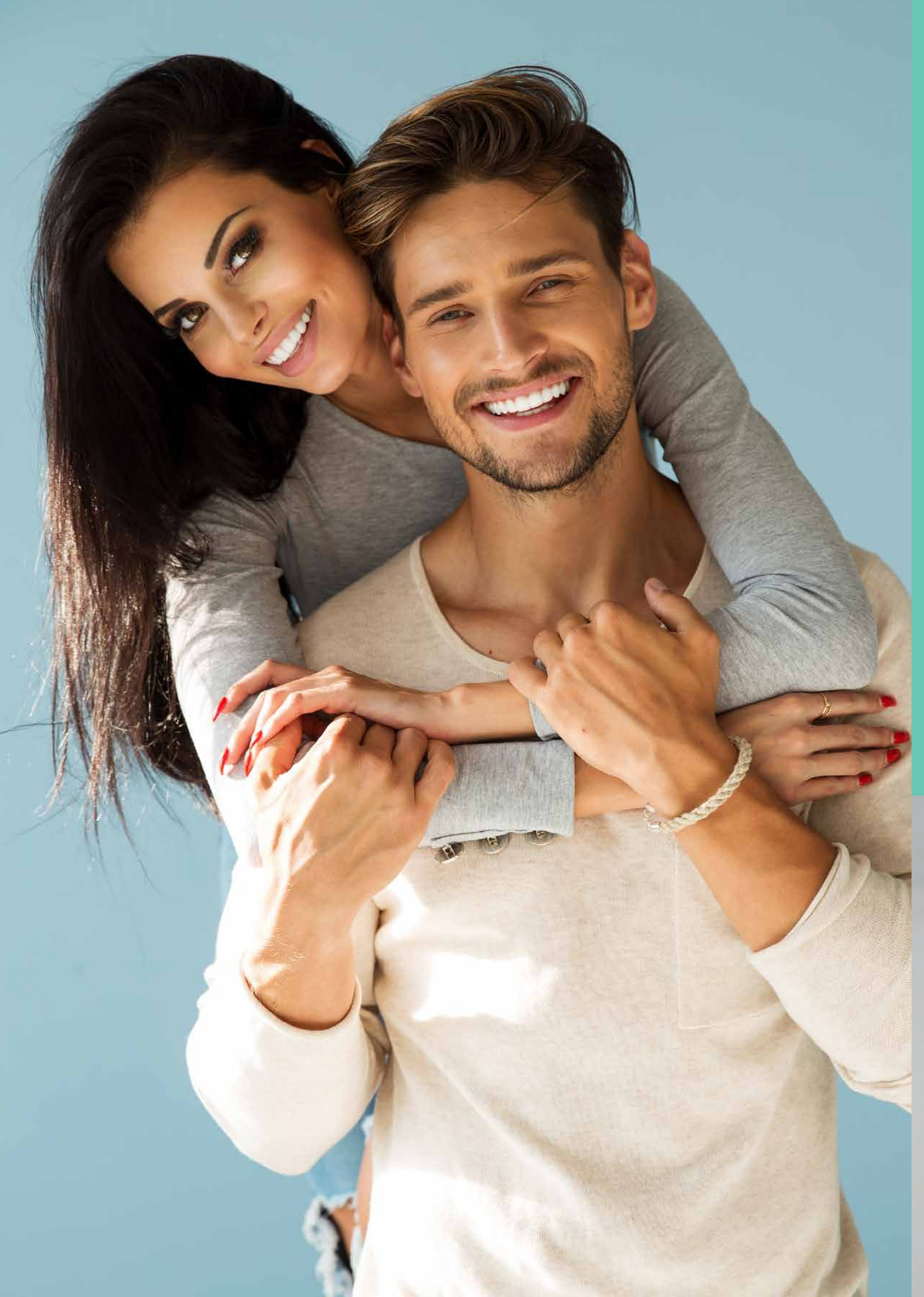
IGEA NARROW AND REGULAR SCREWS



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

SCREWS AND CODES

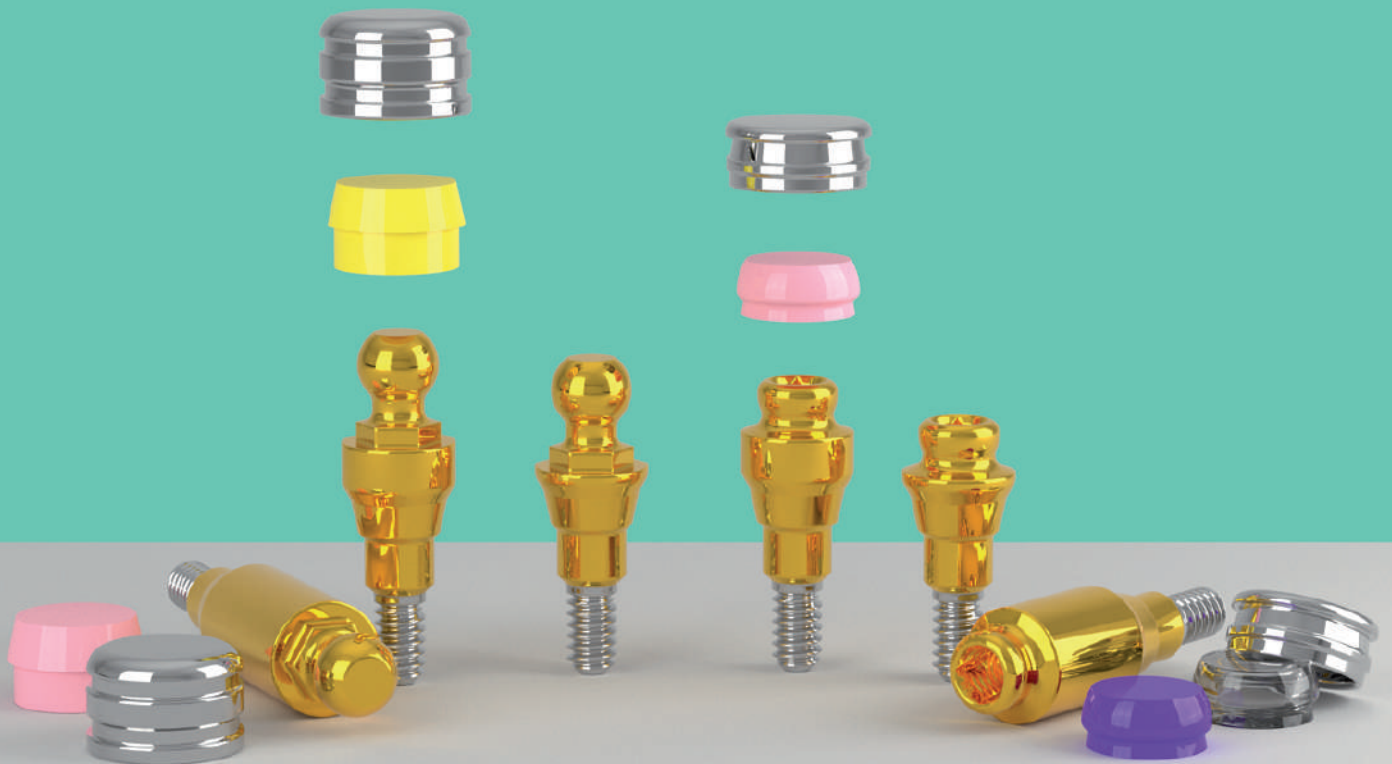
	Used to	Thread	Code
	ABUTMENT SCREW	M1.6	SCR-1400 
	Ti-BASE SCREW	M2	SCR-1401 
	SCAN-ABUTMENT SCREW		
	MU ABUTMENT SCREW	M1.6	SCR-1402 
		M2	SCR-1403 
	MU SCAN-ABUTMENT SCREW		
	CYLINDER SCREW	M1.4	SCR-1404 
	HEALING CAP SCREW		
	CLOSED TRAY SCREW	M1.6	SCR-1408 
		M2	SCR-1409 
	MU CLOSED TRAY	M1.4	SCR-1411 
	OPEN TRAY SCREW L19	M1.6	SCR-1405 
			SCR-1406 
	OPEN TRAY SCREW L 24	M2	SCR-1413 
			SCR-1414 
	MU OPEN TRAY SCREW L19	M1.4	SCR-1407 
	MU OPEN TRAY SCREW L 24		SCR-1415 
	REPLICA SCREW MU REPLICA SCREW	M1.6	SCR-1412
	COVER SCREW	M1.6	SCR-1501 
		M2	SCR-1500 



OVERDENTURE

Spheno
BLOCK



DT EQUATOR



RHEIN83

KIT OT EQUATOR IGEA NARROW AND REGULAR



H mm	 Code*	 Code*
1.0	130IGN1	130IGR1
2.0	130IGN2	130IGR2
3.0	130IGN3	130IGR3
4.0	130IGN4	130IGR4
5.0	130IGN5	130IGR5
6.0	130IGN6	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

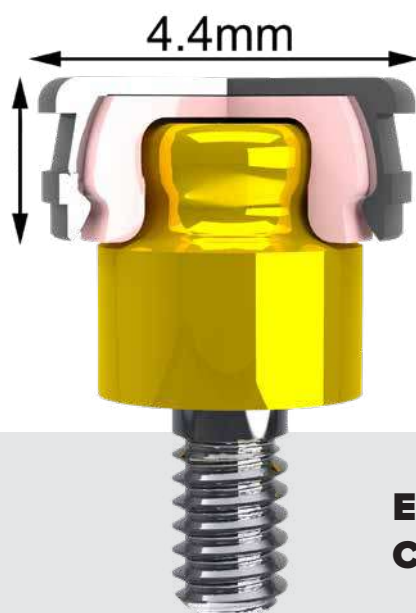


OT EQUATOR + SMART BOX IGEA NARROW AND REGULAR KIT

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*	 Code*
1.0	131IGN1	131IGR1
2.0	131IGN2	131IGR2
3.0	131IGN3	131IGR3
4.0	131IGN4	131IGR4
5.0	131IGN5	131IGR5
6.0	131IGN6	131IGR6
7.0		131IGR7



EQUATOR SECTION COMPLETE

RETENTIVE CAP ASSORTMENT KIT

KIT-192ECE

- 1 stainless steel cap 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



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



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



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



BLACK CAP (4 pcs)
For laboratory use
140CEN



STAINLESS STEEL CAP CONTAINER
(2 pcs)
141CAE



IMPRESSION COPING CLOSED TRANSFER STRAPPING (2 pcs)
044CAIN



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

Sphero
BLOCK

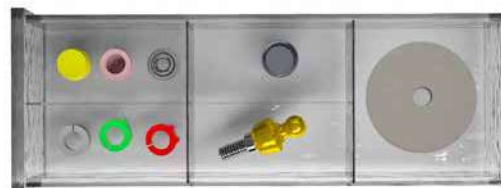


H mm	 Code*	 Code*
1.0	002IGN1	002IGR1
2.0	002IGN2	002IGR2
3.0	002IGN3	002IGR3
4.0	002IGN4	002IGR4
5.0	002IGN5	002IGR5
6.0	002IGN6	002IGR6
7.0	002IGN7	002IGR7

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



TRANSPARENT CAP STANDARD RETENTION 040CRN



BLACK CAP FOR 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





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



The prosthetic components are made with **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.

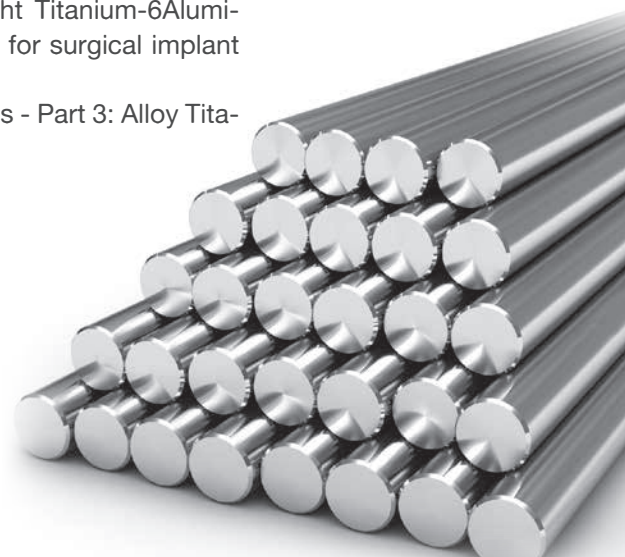
SPECIFICATIONS TITANIUM GRADE 23 (Ti6 AL-4V ELI)

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



MESA's overcastable abutments 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 unique oxidation resistance and for a lower solidus/liquidus temperature (1253-1304°C) compared to 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:

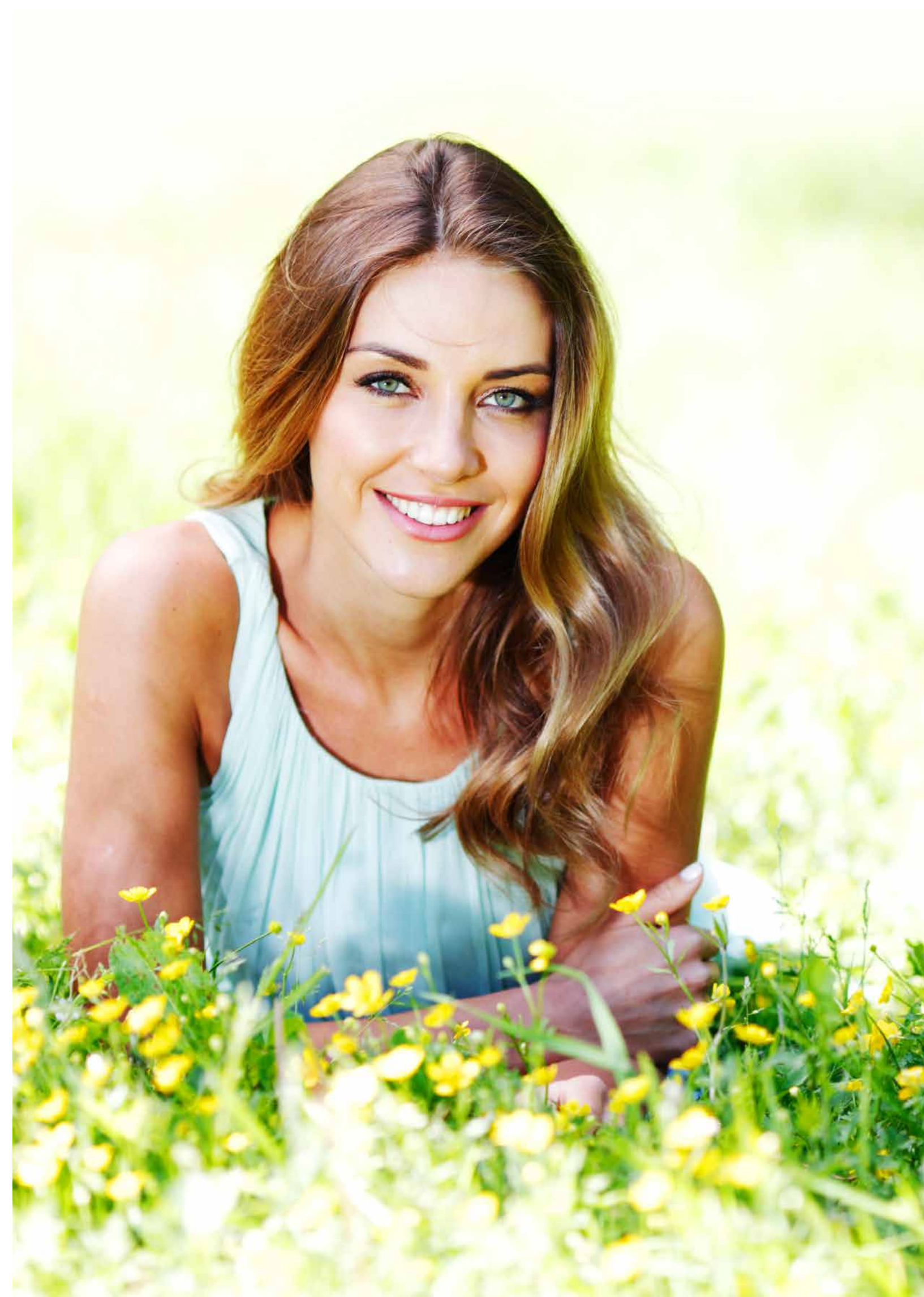
	CO(%)	CR(%)	W (%)	MO (%)	NB (%)	OTHER COMPONENTS
Magnum Splendidum	61	28	8.5	0	0.0	3 (Si, Mn, Fe)
Magnum Lucens	63	28	3	0	4.0	2 (Mn, Fe, Si)

PHYSICAL-MECHANICAL PROPERTIES OF CHROME-COBALT ALLOYS:

	CET (25-500°)	FUSION TEMPERATURE
Magnum Splendidum	14.2x10 ⁻⁶ K-1	1440°C
Magnum Lucens	14.1x10 ⁻⁶ K-1	1360°C



Mesa Discs - **Magnum Splendidum**

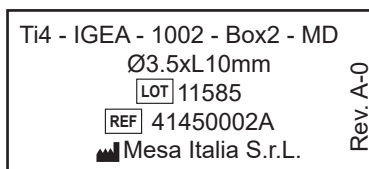


IMPLANT PACKAGING

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 the implant passport and to the medical record.
- The paper instructions 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 if the blister is open or damaged

IMPLANT PICKING

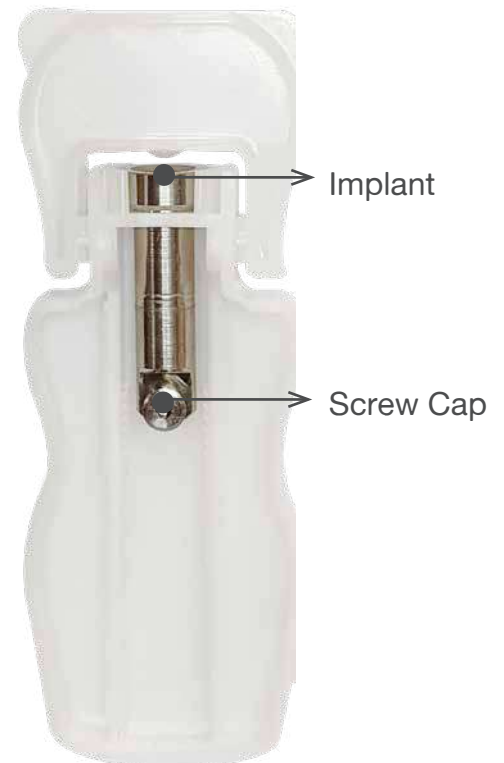
The implant is picked up directly from the Titanium container, by the operator using the contra-angle, without disrupting the sterile chain.



Rotate the cap backwards.



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



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 implant 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.

- Barfeie A, Wilson J, Rees: «Implant surface characteristic and their effect on osseointegration.» *British Dent J* (2015): 218:1-9.
- CM, Abraham. «A Brief Historical Perspective on Dental Implants, Their Surface Coatings.» *Open Dent J* (2014; 8:50-55).
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- Ikar M., Grobeckere-Karl M., Steiner C., «Mechanical stress during implant surgery and its effects on marginal bone: a literature review.» *Quintessence Int* (2020): 51,142-150.
- Larsson C., Wexell P. Thomsen B. Aronsson O, Tengvall P, Rodahl P.,. «Bone Response to Surface-Modified Titanium Implants:» *International Journal of Biomaterials* (Volume 2013,): Article ID 412482, 10 pages.
- Lutering, Gerd and James C. Williams. *Commercially pure (CP) titanium and alpha alloys*. Berlin: Springer, 2003. p. 175-176., 2003.
- OE, Ogle. «Implant surface material, design and osseointegration.» *Dent Clin North Am* (2015): 59:505-520.
- Palmquist A., Esposito M, Lausmaa J, Thomsen P. «Titanium oral implants: surface characteristics, interface biology and clinical outcome.» *J R Soc Interface* (2010 Oct): Suppl 5(Suppl 5):S515-27.
- Roccuzzo M., Roccuzzo A., Ramanuskaite A. «Papilla height in relation to the distance between bone crest and interproximal contact point at single-tooth implants: A.» *Clinical Oral Implant Research* (2018;): 29(Suppl. 15):50–61.
- Velasco-Ortega E, Jimenez-Guerra et al. «Long-Term Clinical Outcomes of Treatment with Dental Implants with Acid Etched Surface.» *Materials* (2020): 13,1553.
- Velasco-Ortega E, Ortiz-Garcia I et al-. «Osseointegration of Sandblasted and Acid-Etched Implant Surfaces. A Histological and Histomorphometric Study in the rabbit.» *Int. J. Mol. Sci.* (2021,): 22, 8507.
- Wennerberg A., Albrektsson T., Chrcanovic B. «Long-term clinical outcome of implants with different surface modifications.» *Eur J Oral Implantol* (2018;): 11 Suppl 1:S123-S136.

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.

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 catalog 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

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