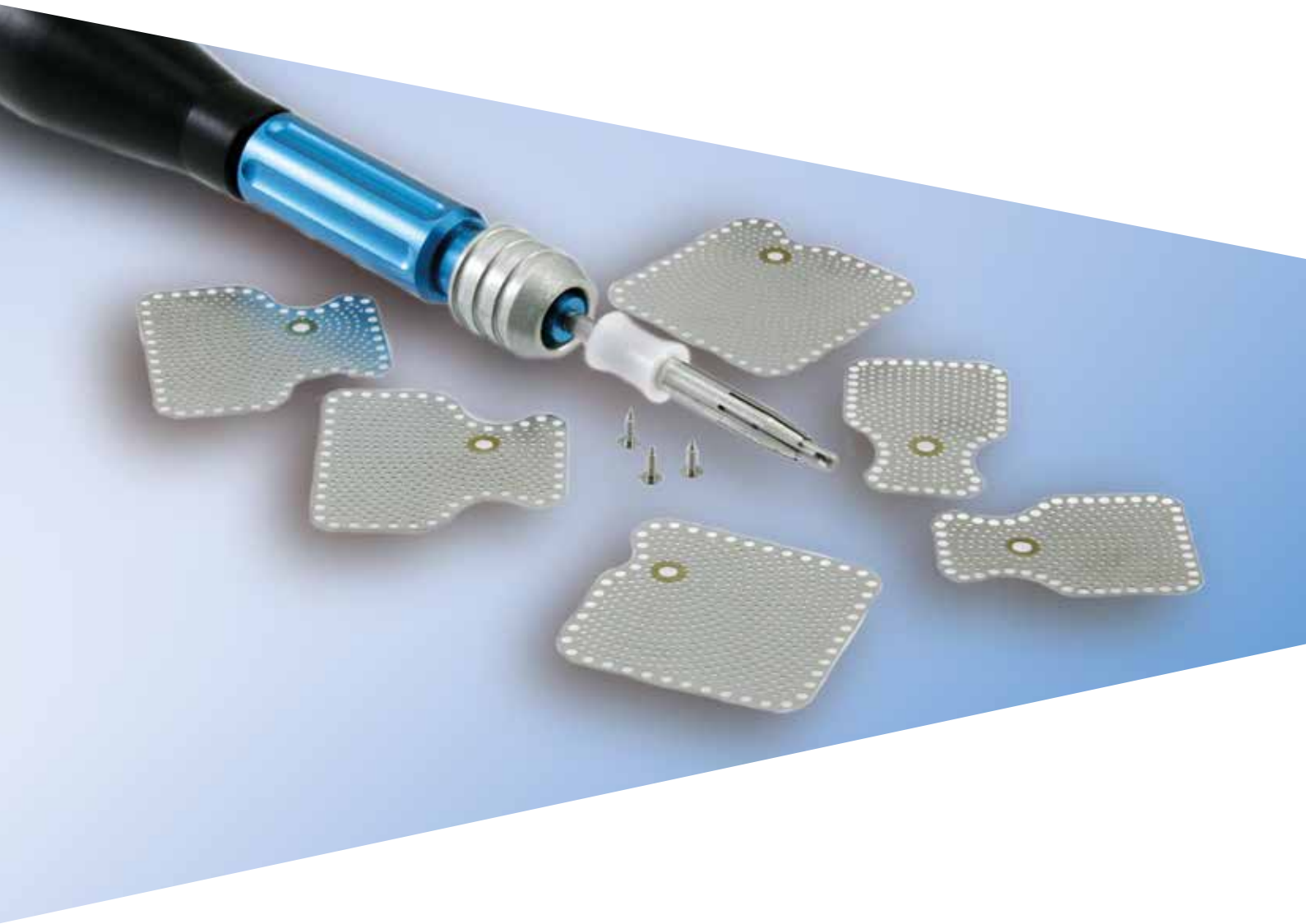


Oral Surgery & Implantology Complementaries



Oral Surgery & Implantology Complementaries

As an industry leader for more than 40 year, Sweden & Martina have been at the forefront in the design, manufacturing and distribution of Dental Implants. By collaborating with the most accomplished Scientific Societies, Universities and world renowned clinicians have been able to produce an exceptional range of instruments and integral surgical accessories to assist in clinical excellence during specialist oral surgery procedures.



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TiNET fm

Bone Regeneration System

The TiNET fm system has been developed by Sweden & Martina in collaboration with dr. Fabrizio Morelli. TiNET fm is a valid and stable option for reconstructive techniques associated with one-stage or two-stage implant insertion.



The disposition of the holes

The holes are placed circularly according to a special algorithm calculated by Sweden & Martina's R&D Department allowing fluids to pass through the holes without compromising the tent effect and conferring exceptionally high mechanical stability to the mesh. This biological condition is crucial for enhancing the neoangiogenesis inside the inserted material leading eventually to the formation of new bone and avoiding any transformation into fibrotic tissue.

The particular position of the small holes (diameter 0.50 mm), the material (Ti grade 1) and the thickness of the mesh (0.20 mm) altogether allow for outstanding ease of handling when the mesh will be adapted to the surgical site. No cutting angles are being produced and if necessary the mesh can be remodelled several times before its insertion in the surgical site. The peripheric holes have a larger diameter (1.20 mm) to allow the insertion of small osteosynthesis screws for the fixation of the mesh to the bone crest.

One single hole (diameter of 2.10 mm) receives the healing screw of the implant and allows for easy handling when the mesh is applied contemporarily to the implant insertion.

Surface treatment

If compared to many competitor products, the TiNET fm has one non treated surface, facing the bone and one polished surface facing the soft tissues, so to respect both tissue categories. Two assymmetrical mesh shapes are offered in specular version to be used on either side of the oral cavity. The polished side of the mesh is indicated by an anodyzed ring of bronze colour around the hole for the healing cap. If the TiNET fm mesh gets accidentally exposed, an apical repositioning might occur, whereas competitor products might reabsorb completely losing the tent effect or they might be exposed to infection.

Clinical indication for the use of the mesh:

- bone defects with 2 or 3 bone walls;
- horizontal bone augmentation;
- vertical bone augmentation;
- combined bone augmentation;
- stabilization in case of accidental bone fracture (ex. during split crest surgery);
- oro-antral communication;
- in association to an osteodistraction technique.



TiNET-FM-1

TiNET-FM-2

TiNET-FM-3

TiNET-FM-4

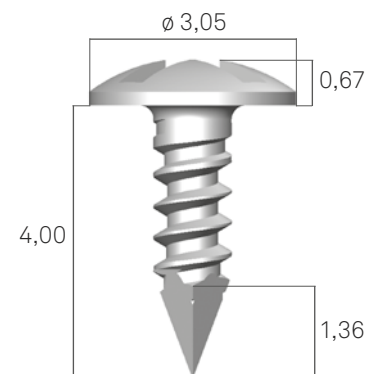
TiNET-FM-5

The TiNET fm mesh can be utilized together with autologous bone or with biomaterial or combining both autologous bone and biomaterials as is already well described in clinical and experimental literature.

Instruments

The TiNET fm system from Sweden & Martina is complete with a series of accessories: a very lightweight and ergonomic handle for a screwdriver; a shank of 70 mm length with cross attachment and a retention device which is mounted on the shaft which therefore guarantees a superb fit but along with secure and efficient retention; alternatively there is a 16 mm long shank for the handpiece; nail screws of 1.2 mm diameter, made of medical grade 5 titanium and with an average breaking strength of 58% higher than the nail screws in the market.

The nail screws are available in 4 mm length. The working part is completely threaded, with large pitch spiral, while the tip is smooth and pyramid-shaped as well as extremely sharp for easy bone penetration.



Osteosynthesis screws

The bone regeneration system of Sweden & Martina also provides a series of components and accessories for the fixation of bone particles and for the most advanced bone regeneration techniques: a series of screws for osteosynthesis with cross head of 2 mm diameter in Ti grade 5 with a fracture resistance of 850 N/mm², deliverable with 5, 6, 10, 12, 14, 16, 18 mm length; spiral burs from stainless steel with attachment for the handle (HP) and with two working lengths of 5 and 9 mm and a head of 1.6 mm diameter, or alternatively burs with attachment for handpiece and same lengths.

The osteosynthesis screws from titanium are a prerequisite for the surgical reconstruction of major bone defects.

They are essentially used for:

- Stabilization of grafts from autologous, homologous or heterologous bone. It is clearly demonstrated in literature that a bone graft block will integrate and revascularize only if well fixed in the surgical site. Bone graft blocks of medium-small size can be fixed with a single screw, whereas bigger grafts require fixation with two or more screws (see pictures 1-5).
- Tent effect for three dimensional reconstruction of big defects using particular bone grafts (see pictures 6 and 7) to be created with the use of two or more screws.

Furthermore a practical autoclavable teflon tray with a transparent plastic cover is provided.

All mentioned accessories are provided separately in single unit packaging, while the screws and pin screws are provided in 10 pcs unit packaging per size.

Thus the surgeon will create his own "kit" depending on the surgical technique to be performed.



Clinical case:

Courtesy of dr. Fabrizio Morelli, Turin, Italy



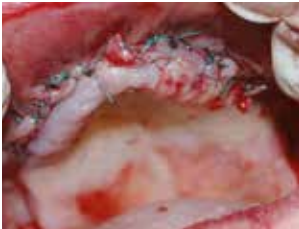
Picture 1. Insertion of Kohno implants \varnothing 3.8 mm and 11.5 mm length: the lack of bone volume in vertical and horizontal direction is clearly visible



Picture 2. The Sweden & Martina standard mesh after being modelled and cut to measure; see the peripheral perforations for the osteosynthesis screws



Picture 3. The Sweden & Martina standard mesh (right side) after final fixation in situ with the implant healing cap and the osteosynthesis screws positioned apically



Picture 4. Single sutures after performing Rehrmann plastic surgery



Picture 5. Detail of the quantity and quality of the bone reconstruction (right side) after removal of the mesh

Clinical case:

Courtesy of dr. Marco Csonka, Catania, Italy



Picture 1. Presurgical orthopantomogram of a major post traumatic defect in an aesthetically sensitive area



Picture 2. Skeletrized bone defect in the mandible



Picture 3. The bonegraft is fixed with osteosynthesis screws and the defect is filled with bone particles



Picture 4. The block bone graft is secured by an osteosynthesis screw, then the gaps are filled with particulate bone



Picture 5. X-ray after 5 months

code	description
TINET-FM-1	Titanium mesh 30x30 thickness 0.20 mm
TINET-FM-2	Titanium mesh 30x30 thickness 0.20 mm
TINET-FM-3	Titanium mesh 20(14)x30 thickness 0.20 mm
TINET-FM-4	Titanium mesh 30(20)x30 thickness 0.20 mm
TINET-FM-5	Titanium mesh 30(20)x30 thickness 0.20 mm
VTN-180	Assembly screw M1.8 to attach implants to titanium mesh
VTN-200	Assembly screw M2.0 to attach implants to titanium mesh
Ti-NET system accessories	
05M-SW-SET	Complete screwdriver (with bar and retention device)
05AC2-16	Bar for screwdriver, contra-angle L. 16.00 mm
CV-110-040-10	Nail screws Ø 1.20 mm, L. 4.00 mm, package 10 pcs
041016-5	Right angle drilling bur for pin screw L. 5.00 mm, Ø 0.75 mm
05COCO-SW	Autoclavable teflon tray with transparent plastic cover
Accessories for bone grafts	
05M-SW-SET	Complete screwdriver (with bar and retention device)
05AC2-16	Bar for screwdriver, contra-angle L. 16.00 mm
05COCO-SW	Autoclavable teflon tray with transparent plastic cover
0220-C5-10	Screw with cross head Ø 2.00 mm L. 5.00 mm, package 10 pcs
0220-C6-10	Screw with cross head Ø 2.00 mm L. 6.00 mm, package 10 pcs
0220-C8-10	Screw with cross head Ø 2.00 mm L. 8.00 mm, package 10 pcs
0220-C10-10	Screw with cross head Ø 2.00 mm L. 10.00 mm, package 10 pcs
0220-C12-10	Screw with cross head Ø 2.00 mm L. 12.00 mm, package 10 pcs
0220-C14-10	Screw with cross head Ø 2.00 mm L. 14.00 mm, package 10 pcs
0220-C16-10	Screw with cross head Ø 2.00 mm L. 16.00 mm, package 10 pcs
0220-C18-10	Screw with cross head Ø 2.00 mm L. 18.00 mm, package 10 pcs
042045-5	Spiral bur L. 5.00 mm HP attachment, Ø 1.60 mm
042045-9	Spiral bur L. 9.00 mm HP attachment, Ø 1.60 mm

Sutures

Silk, synthetic, absorbable and non absorbable sutures

The range of sutures by Sweden & Martina includes a combination of natural and synthetic sutures, both absorbable and non absorbable, with cylindrical, cutting and tapercut needles of different lengths.



Needles

The traditional needles are manufactured in surgical stainless steel AISI 316. Series 300 is an ideal alloy for the dental procedures: very low risk of oxidation, high resistance, extreme ductility, high smoothness.

Moreover, the range includes also some series 300 needles which are produced in an even more resistant steel and which surface is treated with a special hardening process which makes the surface “burnished”.

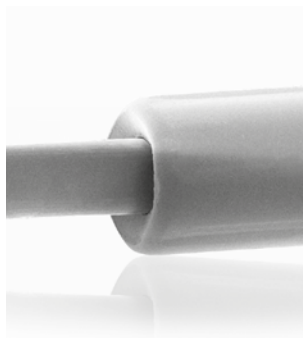
The so called “black” needle grants higher resistance values and a better penetrability.

Furthermore, the black surface makes the needle easily visible also in presence of blood.

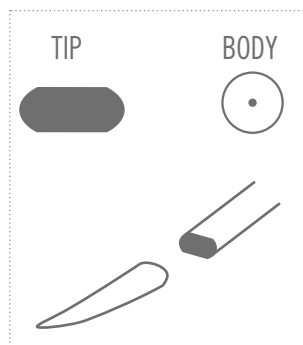
The black needles are available with all synthetic non absorbable threads (Polisoft, Polimid, Polinyl).

Atraumatic morphology

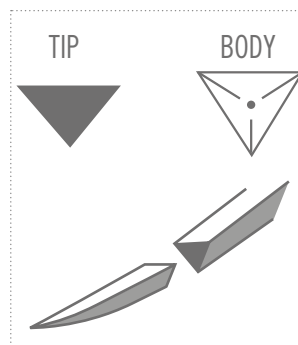
The atraumatic characteristic of Sweden & Martina’s needles is due to the specific morphology of the needle’s tie, with a “close passage” through which the thread is perfectly joined to the needle keeping it in the middle, reducing then the “step” between the edge of the needle and the head of the thread.



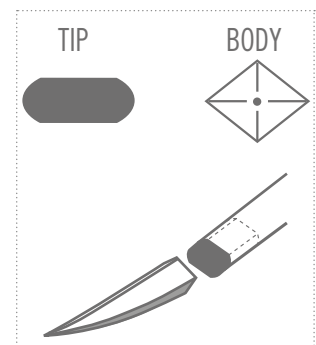
Needle’s tie, “close-passage” type, SEM image



Cylindrical needle
Cylindrical body, flattened laterally, tapering tip



Cutting needle
Triangular body, triangular cutting tip



Tapercut needle
Cylindrical body with lateral flattening for an easier grip, quadrangular tip

Silk

Single thread silk-braided suture.

Covering: microthin silicone membrane

- Highly homogeneous surface silicoining
- Highly homogeneous
- Extremely soft and manageable
- Easy to knot

Color: black.

Length: 60 cm.

Package: 36 pieces.



Polimid



Pseudo single thread suture consisting of filaments twined in polyamide 6.

Covering: external polyamide 6 sheath.

Features:

- Extremely easy to knot
- Good strain resistance
- Non capillarity
- Black needle, for higher tensile strength, penetration and visibility
- Color: black.
- Length: 60 cm.

code	needle code	needle size	needle shape	size U.S.P.
<i>Cutting 3/8C</i> ▼				
S-C3134	C3	13,1	3/8C	4-0
S-C3135	C3	13,1	3/8C	5-0
S-C3163	C3	16,2	3/8C	3-0
S-C3164	C3	16,2	3/8C	4-0
S-C3182	C3	18,7	3/8C	2-0
S-C3183	C3	18,7	3/8C	3-0
S-C3184	C3	18,7	3/8C	4-0
S-C3242	C3	24,3	3/8C	2-0
S-C3243	C3	24,3	3/8C	3-0
<i>Cutting 1/2C</i> ▼				
S-C1203	C1	20	1/2C	3-0
S-C1222	C1	22,9	1/2C	2-0
S-C1223	C1	22,9	1/2C	3-0
<i>Cylindrical 1/2C</i> ☉				
S-T1173	T1	17,4	1/2C	3-0
S-T1174	T1	17,4	1/2C	4-0
S-T1202	T1	20	1/2C	2-0
S-T1203	T1	20	1/2C	3-0
S-T1204	T1	20	1/2C	4-0
S-T1252	T1	25,9	1/2C	2-0
S-T1253	T1	25,9	1/2C	3-0
<i>Tapercutting</i> ⚡				
S-TP3173	TP3	17	3/8C	3-0
S-TP3174	TP3	17	3/8C	4-0
S-TP1173	TP1	17,4	1/2C	3-0
S-TP1174	TP1	17,4	1/2C	4-0
S-TP1175	TP1	17,4	1/2C	5-0

code	needle code	needle size	needle shape	size U.S.P.
<i>Cutting 3/8C</i> ▼				
PM-C3134N	C3	13,1	3/8C	4-0
PM-C3135N	C3	13,1	3/8C	5-0
PM-C3163N	C3	16,2	3/8C	3-0
PM-C3164N	C3	16,2	3/8C	4-0
PM-C3183N	C3	18,7	3/8C	3-0
PM-C3184N	C3	18,7	3/8C	4-0
<i>Cylindrical 1/2C</i> ☉				
PM-T1183N	T1	18	1/2C	3-0
PM-T1184N	T1	18	1/2C	4-0
<i>Tapercutting</i> ⚡				
PM-TP3173N	TP3	17	3/8C	3-0
PM-TP1174N	TP1	17,4	1/2C	4-0



SUTURES



Covering: microthin silicone membrane.

Features:

- Extremely soft and manageable
- Non capillarity
- High strain resistance
- Black needle, for higher tensile strength, penetration and visibility
- Color: green.
- Length: 60 cm.
- Package: 36 pieces.

code	needle code	needle size	needle shape	size U.S.P.
<i>Cutting 3/8C</i> ▼				
PS-C3134N	C3	13,1	3/8C	4-0
PS-C3163N	C3	13,1	3/8C	5-0
PS-C3164N	C3	16,2	3/8C	3-0
PS-C3165N	C3	16,2	3/8C	4-0
PS-C3183N	C3	18,7	3/8C	2-0
PS-C3184N	C3	18,7	3/8C	3-0
PS-C3243N	C3	18,7	3/8C	4-0
<i>Tapercutting</i> ⬇				
PS-TP3173N	TP3	17	3/8C	3-0
PS-TP3174N	TP3	17	3/8C	4-0
PS-TP1174N	TP1	17,4	1/2C	4-0



Single thread suture in polyamide 6.

Features:

- Complete non capillarity
- High strain resistance
- Black needle, for higher tensile strength, penetration and visibility
- Color: black.
- Length: 60 cm.
- Package: 36 pieces.

code	needle code	needle size	needle shape	size U.S.P.
<i>Cutting 3/8C</i> ▼				
NY-C3135N	C3	13,1	3/8C	5-0
NY-C3136N	C3	13,1	3/8C	6-0
NY-C3164N	C3	16,2	3/8C	4-0
NY-C3165N	C3	16,2	3/8C	5-0
NY-C3183N	C3	18,7	3/8C	3-0
NY-C3184N	C3	18,7	3/8C	4-0



Resorb

Covering: microthin polycaprolacton membrane and calcium stearatus.

Absorption: 90 days.

Features:

Extremely smooth and soft

Easy to knot

Color: violet.

Length: 60 cm.

Package: 36 pieces.

**Resorb Fast**

Multi thread polyglycolic acid-braided suture

Covering: microthin polycaprolacton membrane and calcium stearatus.

Absorption: 42 days.

Features:

Fast absorption

Extremely smooth and soft

Easy to knot

Color: violet.

Length: 60 cm.

Package: 36 pieces.



code	needle code	needle size	needle shape	size U.S.P.
<i>Cutting 3/8C</i> ▼				
R-C3134	C3	13,1	3/8C	4-0
R-C3135	C3	13,1	3/8C	5-0
R-C3136	C3	13,1	3/8C	6-0
R-C3163	C3	16,2	3/8C	3-0
R-C3164	C3	16,2	3/8C	4-0
R-C3165	C3	16,2	3/8C	5-0
R-C3183	C3	18,7	3/8C	3-0
R-C3184	C3	18,7	3/8C	4-0
<i>Cylindrical 1/2C</i> ⊙				
R-T1174	T1	17,4	1/2C	4-0
R-T1203	T1	20	1/2C	3-0
R-T1204	T1	20	1/2C	4-0
<i>Tapercutting</i> ⇄				
R-TP3174	TP3	17,4	3/8C	4-0

code	needle code	needle size	needle shape	size U.S.P.
<i>Cutting 3/8C</i> ▼				
RF-C3134	C3	13,1	3/8C	4-0
RF-C3135	C3	13,1	3/8C	5-0
RF-C3164	C3	16,2	3/8C	4-0
<i>Cylindrical 1/2C</i> ⊙				
RF-T1174	T1	17,4	1/2C	4-0
<i>Tapercutting</i> ⇄				
RF-TP3174	TP3	17,4	3/8C	4-0

Monosoft



Non-absorbable PTFE suture



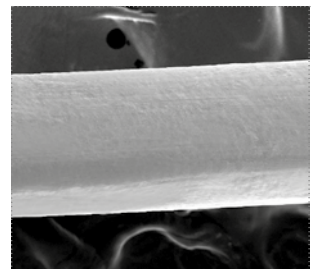
Appreciated by the most demanding doctors, PTFE sutures are ideal in any implant and periodontal procedures where to limit the bacterial adhesion and the possible inflammation is recommended.

Monosoft is a non-absorbable **monofilament** suture, white (undied). It is:

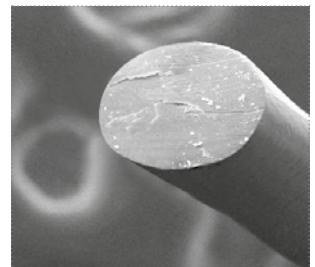
- extremely soft;
- resistant but elastic, easily extensible when edema or post-surgical swelling occur;
- easy to be handled as if it were silk, but, being monofilament, resistant to the bacterial infiltrate and plaque adhesion: the result is healthy tissue with no inflammatory reactions or retractions;
- biologically inert, exceptionally well-tolerated in the oral cavity;
- almost null, or very low risk of inflammatory reactions;
- exceptional holding of the stitches: they do not tear and do not lacerate the tissues.

Application fields

- Regenerative surgery (mesh and membrane implantation, bone grafts); horizontal and vertical mattress stitches.
- Mucogingival surgery, both on natural teeth and on implants.
- Immediate loading implants in aesthetic areas: in order to fit the flap to the provisional.
- in periodontology.



Monosoft thread, SEM image



Monosoft thread section, SEM image

code	needle code	needle size	needle shape	size U.S.P
<i>Cutting</i> ▼				
MS-C3163	C3	16	3/8C	3-0
MS-C3124	C3	12	3/8C	4-0
MS-C3135	C3	13	3/8C	5-0
<i>Tapercutting</i> Ⓞ				
MS-TP3183	TP3	18	3/8C	3-0
MS-TP3154	TP3	15	3/8C	4-0
MS-TP3185	TP3	18	3/8C	5-0
MS-TP1173	TP1	17	1/2C	3-0
MS-TP1174	TP1	17	1/2C	4-0

The PTFE thread, due to the characteristics of its material, has a diameter slightly smaller than the other threads, then a diameter larger than that chosen for the other non-absorbable threads is recommended

PERI-SET

Surgical treatment of defects caused by periimplantitis

Periimplantitis represents the most serious site-specific biological complication which affects osseointegrated dental implants following prosthetic restoration. The distinctive feature of this pathology is periimplant bone reabsorption, which can manifest itself both vertically and horizontally, or better three-dimensionally, exposing part of the body and threads of the implant.

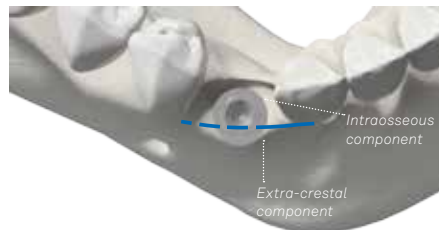


Healthy implant



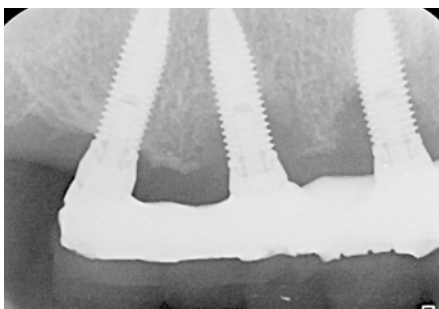
Implant with periimplantitis

Three-dimensional view of the same periimplant defect (occlusal view and vestibular view)

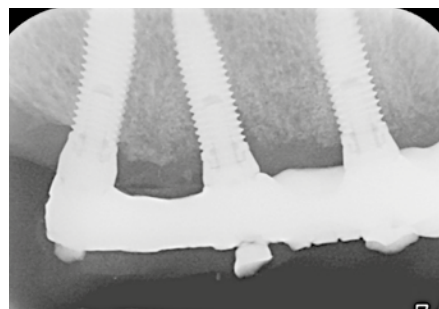


PERI-SET was created by the collaboration between two Italian doctors, dr. Giuseppe Corrente and dr. Roberto Abundo who, over the years, have perfected effective and repeatable sequences to recover situations which were seriously compromised due to periimplantitis. Their experience has influenced the presence of different types of instruments in the PERI-SET kit, whose use depends on the anatomical features of the periimplant defect to be treated. The follow-up of numerous cases treated confirms the real possibility of recovering hard and soft tissues which remain stable over time.

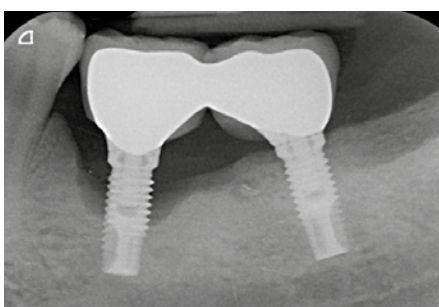
Radiography Follow-up



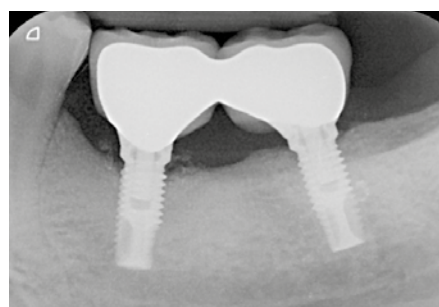
Initial situation



Follow-up after 1 year



Initial situation



Follow-up after 3 years

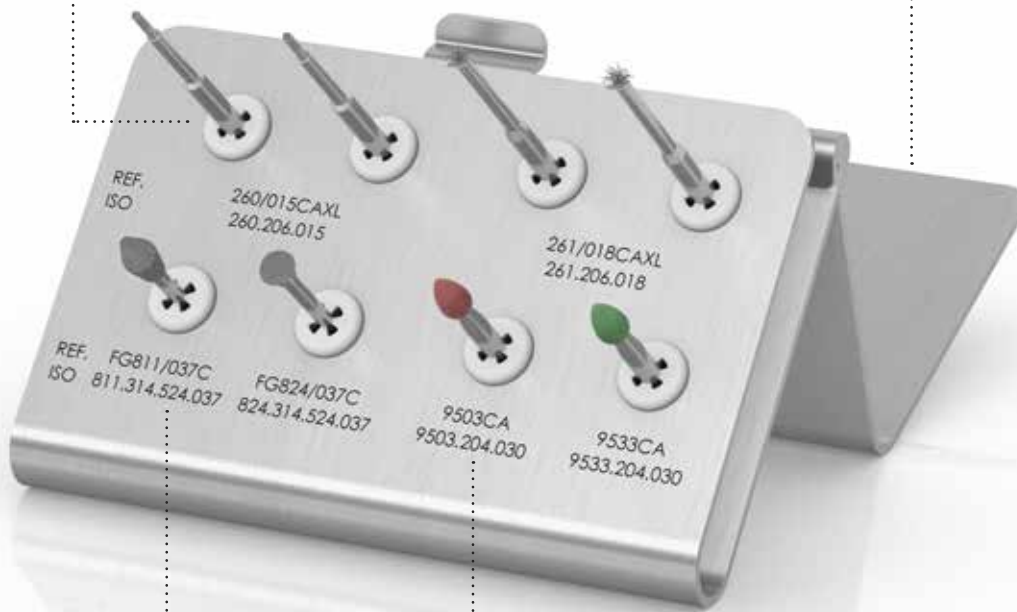
PERI-SET

The crucial issue for the treatment of periimplantitis is the difficulty in completely removing pathogens and damaged tissues from the surface of the implant and, at the same time, restoring the macro and microgeometry of the surface making it suitable again for the hard and soft tissues. This kit has been developed in order that a decontamination protocol of the implant's surface microgeometry and modification of its macrogeometry can be reproduced by odontologists with a view to optimal healing of tissue.

PERI-SET contains 2 types of disposable brushes, one with a pointed tip and one with open bristles, for a thorough cleaning of the surface. In addition there is a diamond drill and disc used for implantoplasty, as well as two different coloured tapered rubber tips for completing the treatment. The instruments are contained in a practical instrument holder made of stainless steel which can be sterilized and is autoclavable; it also allows the instruments to be organized ergonomically.

The two disposable brushes with a pointed tip and two with open bristles included in the kit are not to be sterilized and reused but are to be replaced after every use.

When the cover is open, the base of the instrument holder is placed at an angle allowing better working ergonomics.



The morphology of the diamond instruments allows the implant surface to be abraded without needing to remove the prosthesis.

The tapered rubber tips can be distinguished thanks to the two different colours (red and green).

Instrumentation

Pointed brush 260/015CAXL



Brush with nickel-titanium bristles. It is used with a 300-600 rpm micromotor to carry out cleaning of the implant's surface, in particular the surface of the threads. It must be used with a horizontal movement along the pitch of the thread or with vertical movements in a coronapical and then apicocoronal direction. This brush is disposable.

Brush with open bristles 261/018CAXL



Brush with open nickel-titanium bristles. It is used with a 300-600 rpm micromotor to carry out cleaning of the implant's surface, placing the brush's fibers perpendicularly to the surface. This brush is disposable.

Diamond drill FG811/037C



The diamond head of this drill has a double cone shape. It is used with a red ring reducer handpiece or with a turbine to carry out the resection of the threads and the first step of smoothing the portions outside the bone levels, both horizontally and vertically. The pronounced angle of the head's surface enables work to be performed along the external profile of the implant, including situations in which it is not possible to remove, even temporarily, the prosthetic over-structure connected to the implant affected by periimplantitis.

Diamond disc FG824/037C



This diamond instrument has a disc-shaped head. It is used with a red ring reducer handpiece or with a turbine to carry out the resection and the first step of smoothing the portions of the implant's surface and threads outside the horizontal and vertical bone levels. The disc's flat shape and small diameter enable work to be performed perpendicularly to the external profile of the fixture, including situations in which it is not possible to remove, even temporarily, the prosthetic over-structure connected to the implant.

Red rubber polisher 9503CA









This instrument can be recognized by its red head. It is operated with a micromotor and must be used at approximately 1200 rpm to perform polishing of the portions of the implant's surface external to the horizontal and vertical bone levels.



Green rubber polisher 9533CA



Similar to the red rubber polisher, but with a finer grain, this is operated with a micromotor at approximately 1200 rpm to carry out the final step in polishing the portions of the implant's surface outside the horizontal and vertical bone levels.

Contents of PERI-SET kit

description	code	quantity
Pointed nickel-titanium brush Attachment for right angle Disposable	260/015CAXL 	2
Brush with open nickel-titanium bristles Attachment for right angle Disposable	261/018CAXL 	2
Diamond drill with double cone Medium grain Attachment for turbine	FG811/037C 	1
Diamond disc Medium grain Attachment for turbine	FG824/037C 	1
Tapered rubber tip, red Attachment for right angle	9503CA 	1
Tapered rubber tip, green, fine grain Attachment for right angle	9533CA 	1

description	code
PERI-SET, Kit for surgical treatment of periimplantitis containing no. 8 instruments	Z4600 
Empty tray	4600 

D.B.E. System

Drill Bone Expander System by Dr. A. Grosso



General features

- Non-traumatic progressive expansion technique.
- Less discomfort and pain than traditional surgical techniques.
- Controlled positioning of the cortical plate.
- Insertion of a wide variety of implants.
- Expanders can be interchanged quickly and easily.
- Excellent mechanical resistance of the instruments.
- Completely autoclavable tray for maximum hygiene.
- Can also be used in the flapless, post-extraction and mini maxillary sinus lift techniques.

Over the last few years, expansion techniques have gained popularity among dental implant specialists because they allow increasing the bone and placing the implant in the desired space with only one operation.

This is certainly the main advantage compared to other techniques for increasing bone volume which require more than one surgical procedure and involve greater patient discomfort.

On the other hand, classic crestal expansion techniques are associated with a rather long learning curve, and require the use of a surgical hammer which is not very pleasant for the patient.

The Drill Bone Expander System (D.B.E.) designed by dr. A. Grosso is a new conception in the preparation of the implant site, based on a system of non-traumatic double-threaded screws connected to a special grip.

This allows avoiding the use of standard surgical drills and expanding the bone in a controlled manner. With the screws inserted progressively, the long levering arm produced by the grip allows easily moving the bone wall during the screwing process. This in turn creates a wide implant site for inserting the implant into the desired position in a site with four walls.

The shape of the spires also allows the self-tapping points to penetrate into all situations of maxillary bone types 3 and 4, so as to create a site for positioning the implant without sculpting a flap, but using a simple circular scalpel.

The D.B.E. system can be easily used in flapless, post-extraction and mini maxillary sinus lift techniques, allowing a localized management of the floor thanks to the shape of its points.

Surgical Kit

The surgical kit consists of a practical autoclavable box containing the five expanders in surgical steel and the special grip on which the tips are mounted by means of a connection hexagon. The insertion/removal of the expanders is quick and simple, and does not require the use of special additional instruments.

The table lists all the codes of the accessories included in the D.B.E. kit.











Depth lines:

The table below lists the diameters of the expanders at the apex and crown and in correspondence of the laser-etched depth lines:

Diameter in correspondence of the laser markings [mm]

device	apical	1 st line h 6.00 mm	2 nd line h 8.50 mm	3 th line h 11.50 mm	4 th line h 13.00 mm	crown h 14.50 mm
ESP-G-270	1.50	-	2.28	2.64	2.82	3.00
ESP-G-350	2.00	2.67	3.00	3.40	3.63	3.80
ESP-G-450	3.00	3.62	3.97	4.39	4.59	4.80
ESP-G-550	4.00	4.65	5.05	5.52	5.73	6.00
ESP-G-650	5.00	5.00	5.58	5.98	6.47	6.95

picture and code	description
 <p>ESP-G-KIT</p>	Surgical kit complete with expanders and handle
 <p>ESP-G-270</p>	Bone expander Ø 2.70 mm
 <p>ESP-G-350</p>	Bone expander Ø 3.50 mm
 <p>ESP-G-450</p>	Bone expander Ø 4.50 mm
 <p>ESP-G-550</p>	Bone expander Ø 5.50 mm
 <p>ESP-G-650</p>	Bone expander Ø 6.50 mm
 <p>ESP-G-GRIP</p>	Handle for expanders
 <p>ESP-G-TRAY</p>	Autoclavable container for expanders

M.I.S.E. Evo kit

Minimally Invasive Sinus Elevation Non traumatic technique for sinus elevation with transcrestal approach

The aim of M.I.S.E. Technique is the non traumatic and gradual elevation of the sinus pavement up to a maximum of 5 mm with respect to the initial situation. Depth stops of different lengths (1 mm progression) and easy to be assembled, make the operation safe, easy and fast.

The M.I.S.E. EVO kit is complete with drills and bone filling carriers of 3 different diameters (3.0, 3.4 and 4 mm) then allows the insertion of any kind of implant with diameter 3.3 and 5 mm (Premium Straight).

- No need to open a lateral access.
- Lifting of cortical sinus pavement is made possible with gradual steps, 1 mm each.
- Reduced surgical time in comparison to traditional sinus elevation techniques.
- Recover of bone height up 5 to 10 mm.
- It can be used with any type of implants with a diameter in the range from 3 to 5 mm.
- Drills and bone filling carriers are provided with stops for maximum safety.
- The insertion and removal of the stops and carriers are simple, quick and safe.
- Highly mechanical resistant instruments.
- Tray in autoclavable Radel, to grant always the highest hygiene.
- Highly comfortable for the patient.
- High proven clinical success reported in the many international publications.





Picture 1. Breaking of sinus floor



Picture 2. Lifting of Schneider membrane by keeping its integrity



Picture 3. Insertion of bone filling floor



Picture 4. Implant insertion

Clinical case:

Courtesy of dr. Giorgio Carusi, Pistoia, Italy



Picture 1. Pre-operation X-ray: an initial crest height of 4 mm is noticed
















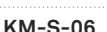
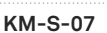
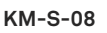
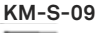
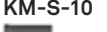






Picture 2. Insertion of a Premium implant 11.5 high in 1.5 area



Picture 3. X-ray check after 5 years. In the area where the sinus lift was carried out with M.I.S.E. EVO technique, an increase of bone density can be noticed

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code	description
ZMISEB1 	Kit M.I.S.E. EVO (Minimally Invasive Sinus Elevation), complete with all instruments
MISE-TRAY 	Tray for Kit M.I.S.E. EVO, empty (tray only)
KM-F-200 	Initial drill, Ø 2.00 mm
KM-F-250 	Intermediate drill, Ø 2.50 mm
KM-F-B300 	Break up drill, Ø 3.00 mm
KM-F-C300 	Chamfered drill, Ø 3.00 mm
KM-F-R300 	Rounded drill, Ø 3.00 mm
KM-F-R340 	Rounded drill, Ø 3.40 mm
KM-F-R400 	Rounded drill, Ø 4.00 mm
KM-S-01 	Stop for both drills and bone filling carriers, L. 1.00 mm
KM-S-02 	Stop for both drills and bone filling carriers, L. 2.00 mm
KM-S-03 	Stop for both drills and bone filling carriers, L. 3.00 mm
KM-S-04 	Stop for both drills and bone filling carriers, L. 4.00 mm
KM-S-05 	Stop for both drills and bone filling carriers, L. 5.00 mm
KM-S-06 	Stop for both drills and bone filling carriers, L. 6.00 mm
KM-S-07 	Stop for both drills and bone filling carriers, L. 7.00 mm
KM-S-08 	Stop for both drills and bone filling carriers, L. 8.00 mm
KM-S-09 	Stop for both drills and bone filling carriers, L. 9.00 mm
KM-S-10 	Stop for both drills and bone filling carriers, L. 10.00 mm
KM-S-11 	Stop for both drills and bone filling carriers, L. 11.00 mm
KM-S-12 	Stop for both drills and bone filling carriers, L. 12.00 mm
KM-S-13 	Stop for both drills and bone filling carriers, L. 13.00 mm
KM-C-PROF-300 	Double function instrument, on one end depth gauge, on the other end bone filling carrier Ø 3.00 mm
KM-C-340-400 	Double size bone filling carrier, on one end Ø 3.40 mm, on the other end Ø 4.00 mm

Impla 6000

Brushless implant motor



IMPLA 6000 is a brushless implant motor: compact, reliable and simple to use. It ensures the best results during each stage of the implant surgical treatment. It's a versatile motor, equipped with software for endodontics as well.

General features

- Brushless autoclavable motor 40.000 RPM.
- Maximum torque, 60 Ncm.
- Although it fits well with all ISO standard connection handpieces , it has been set for optimum performance with the Sirona 20: 1 contrangle handpiece.
- It has 5 preset programs (speed, torque, pump on/off and flow rate, direction), customized on Sweden & Martina implants, for all implant surgical treatment stages.
- Easy-to-use interface that is adjustable during all procedures, the preset programs parameters can be easily re-set and memorized according to operator's needs.
- The silicone tubing set supplied with the motor is autoclavable.
- Integrated and easy-load irrigation pump.
- Multi-function foot control allows for easily selecting the desired program, as well as controlling speed, direction, torque and turn the pump on/off.
- Dual-function motor: by connecting a 6:1 contrangle and simply pressing a button, the correct ratio can be easily set. This switches from the implant surgical procedure to the endodontics function. This function has 5 preset programs customized for root canal "simultaneous technique" preparation made by Mtwo files.
- Auto-Stop Torque function available on Implant mode and Auto-Stop-Reverse Torque function available on Endo mode.
- Modern design and easy-to-clean surfaces.

Advantages

- Quiet, brushless motor with minimal vibration.
- Easy and intuitive program setup.
- Maximum freedom of action with the multifunction pedal.
- Increased functionality by autoclavable tubing.
- Very versatile thanks to preset programs for implantology and endodontics.
- Extremely easy-to-use.

Standard configuration

Control console, autoclavable brushless micromotor, autoclavable motor holder with attaching bracket, multi-function foot control, autoclavable irrigation tubing set, irrigation bag hanger rod, power cord.

technical features	
console size	8.6" W x 9.2" L x 4.8" H
console weight	1.8 Kg
rotational speed	1,000-40,000 rpm / minute
max torque	60 Ncm
flow irrigation pump	maximum 140 ml / min
sterilization	motor and accessories: 132°C (270°F)

Sirona 20:1

Surgery contra-angle handpiece

- Powerful, precise and durable.
- Ergonomic design (small head).
- ISO interface.
- Internal or external spray.
- Push button chuck for drills and instruments.
- Easy to dismantle without any tools.
- Easy to clean and sterilizable.

technical features	
weight	2.5 Oz
max. working speed	2,000 rpm
max. torque	65 Ncm
head height w/o bur	13.80 mm
head diameter	10.30 mm
fittings	ø 2.35 mm CA with internal cooling
chuck	push button



ref.	description
IMPLA-6000	Implant dental system complete with accessories
AE-23	Autoclavable tubing set for IMPLA-6000
IMPLA-6000-DEF	Disposable tubing for IMPLA-6000, 1 pce
SIRO20	Sirona contra-angle 20:1

Impla 7000

Implantology micromotor with built-in fibre optics



IMPLA 7000 is a latest generation motor for implantology equipped with exclusive functionality. Brushless, compact, and reliable like its predecessor IMPLA 6000, it retains all of the functions and advantages, adding features that make it a highly technological and absolutely exclusive motor: **built-in fiber optics, dynamometer calibration system, and high torque.**

IMPLA 7000 is a reliable and versatile motor that is **also equipped with an endodontics program.**

General characteristics

- **Built-in fiber optics:** illuminates the operating field both at low rpm and with the motor stopped. So it must be used with a fiber optic contra-angle for surgery.
- **High torque value, 80 Ncm.**
- **Dynamometer calibration system:** a specific software lets the user calibrate the motor to the specific contra-angle used, thus maximizing all parameters of its performance;
- Autoclavable 40,000 RPM brushless micromotor.
- **6 implantology preset programs** with custom speed, torque, irrigation, and rotation direction parameters based on Sweden & Martina implant systems.
- Easy-to-use interface, parameters adjustable during any type of procedure, easily reprogrammable preset programs that can be saved with different values based on the operator's needs.
- **The tubing provided is made of silicone and is autoclavable;** the motor is also compatible with traditional disposable tubing.
- Completely built-in irrigation pump and easy-to-assemble tubing;
- **Multifunction pedal** that allows quick selection of the desired programs and control of the various parameters.
- **Dual function:** connecting a contra-angle with a 6:1 reduction handpiece and setting the correct ratio, a simple touch of a button easily switches from the implantology procedure to the endodontics program with 5 preset programs based on the simultaneous Mtwo preparation technique.
- Auto-stop function.
- Torque selectable in implantology mode and Auto-Stop-Reverse in endodontics mode.
- Modern design with surfaces that are easy to disinfect.



Advantages

- High torque.
- Always maximum performance in all parameters.
- Illumination even at very low rpm thanks to the built-in fibre optics.
- Quiet, brushless motor with minimal vibration.
- Easy and intuitive program setup.
- Maximum liberty of action with the multifunction pedal.
- Optimized functionality of the autoclavable tubing.
- Preset programs for implantology and endodontics.
- Maximum simplicity of use.

Standard configuration

Control unit, autoclavable brushless micromotor, autoclavable handpiece cradle with stand, multifunction pedal, autoclavable tubing, irrigation set for peristaltic pump (10 pieces), support rod for physiological function, adapter for self-calibration, power cord.



technical characteristics	
unit dimensions	25.3 cm x 23.9 cm x 12.9 cm
unit weight	3.3 Kg
power supply	100-240V
rotation speed:	1.000-40.000 rpm
max torque	80 Ncm
sterilization	in autoclave at 132°C
insulation	Class I, type B

Mont Blanc Anthogyr 20:1

Mont Blanc fibre optic contra-angle for surgery, model 10400XL

- Perfect for surgical and implant procedures.
- fibre optic device.
- suitable for a torque of 80 Ncm.
- reliable and durable even when used with extremely demanding procedures.
- functional design: anatomical grip and scratch-resistant coating.
- push-button.
- easily disassembled and sterilized.

technical characteristics	
model	10400XL
maximum speed	40.000 Ncm
maximum torque	80 Ncm
burr diameter	2.35 mm, L max 40 mm
connection	push-button



code	description
IMPLA-7000	Implant dental system including accessories
AE-23	Autoclavable tubing for IMPLA6000/7000 micromotor, 1 pce
IMPLA-6000-DEF	Disposable tubing for IMPLA 6000/7000 micromotor, 1 pce
ANT20FIBER	Mont Blanc Anthogyr Contra-angle 20:1 mod. 10400XL

Dent-Weld

Intraoral Welding Unit



Dent Weld is a high technology intraoral welding unit designed for joining and stabilizing immediate loading implants, favoring the maximum implant stability during the whole healing process and implant osseointegration.

Welding is made by electric discharge passing through the contact point between two titanium elements; it's a high intensity electric discharge, lasting extremely short time (few milliseconds), to prevent heating of surrounding tissues.

Main features

- Dent Weld is 100% Italian technology and quality intraoral welder.
- Reliable and safe, the welding unit has a microprocessor to ensure full safety during all applications.
- By means of easy convenient titanium bars (available in different diameters) to be welded to the abutments, implants are solidly splinted in a few seconds; this guarantees keeping of stability during the whole osseointegration period.
- Dent Weld doesn't produce sparks; there is no risk for patients since the welding clamp is disconnected from the mains during the welding process.
- Thanks to the greater thermal conductivity of copper compared to titanium, the heat produced is dissipated through the copper electrodes, without any inconvenience to patient or doctor.
- Dent Weld works even in presence of saliva or other fluid.
- Easy to use, thanks to preset programs.
- Easy to handle, due to the welding clamp easy hanging.
- Due to small size and to easy and quick hanging system of cables, the clamp is extremely easy to handle, making sterilization process simpler.

Standard equipment

Control unit, welding clamp, cable, control pedal, power cable, user's manual.

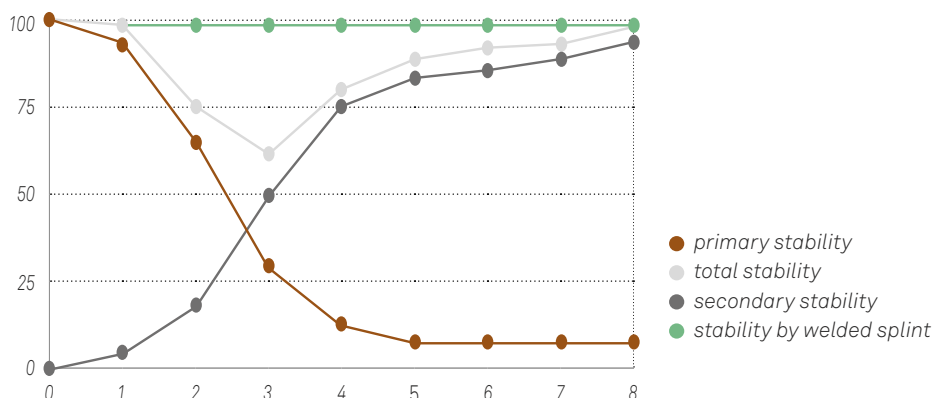


Dent Weld is ideal to weld temporary caps of Conoweld conometric technique.

Technical data	
power supply:	230V AC
network frequency:	50 -60 Hz
input average power:	10 W
weight:	7 Kg
size:	330x220x170 mm
classification:	I-BF, IPX0

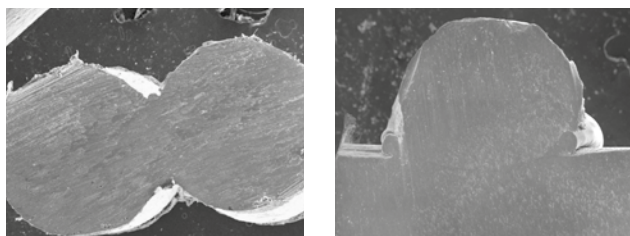


Primary stability and Immediate Loading



Sem pictures

Scanning electron microscope pictures of joints made by Dent Weld
 Courtesy of dr. Loris Gaspari and dr. Luca Lepidi, Italy



Clinical Pictures

Courtesy of Dr. Loris Gaspari and Dr. Luca Lepidi, Italy



Abutment splinting by intraoral welding



Stabilization by electro-welded bar, for immediate loading of screwed prosthesis on temporary post



Stabilization of posts by electro-welded bar, for impression transfer procedure

code	description
DENT-WELD	Intraoral welding unit Dent Weld
DW-BARRA1.2	Titanium bar, type.2, L. 150 mm, dia.1,20 mm, 5 pcs.
DW-BARRA1.5	Titanium bar, type 2, L. 150 mm, dia.1,50 mm, 5 pcs.
DW-BARRA1.8	Titanium bar, type 2, L. 150 mm, dia.1,80 mm, 5 pcs.

Plasma R

Plasma reactor for dental use

Plasma R is an appliance that enables the decontamination and activation of prosthetic structures to be carried out directly in the dentist's clinic before inserting them in the oral cavity.

The technology is the same one used in industry to decontaminate the implants, but the reactor dimensions have been studied especially for chair-side use and for perfect integration with the facilities present in every dentist's clinic.

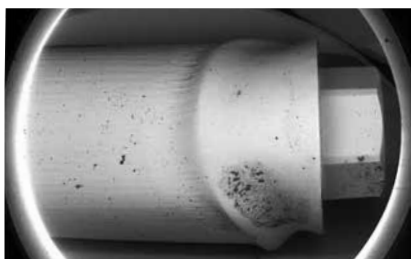
Plasma treatment, backed up by many scientific studies published in the main reviews in the sector, allows the dentist to carry out surface treatments both on prostheses to be fitted on natural teeth and on implant prostheses, optimising and promoting the bonds of the structures both with the soft tissues and with the adhesive materials. Moreover, in the specific case of implant posts, the total removal of contaminants from the portion that enters the well of the implant allows a better closing of the connection and higher resistance to the unscrewing of the prosthetic screws.



Operating principle

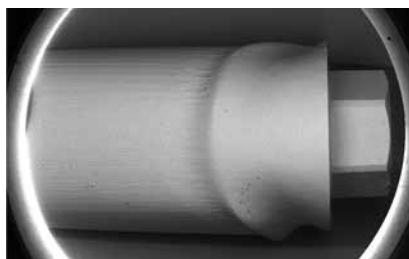
In the various phases of laboratory processing a series of residues of various origin builds up on the surface of the prosthetic components; if not correctly removed, these residues are transferred into the implant connection, preventing a perfect seal and creating a possible point of access for the infiltration of bacteria. In addition, the contaminants that remain on the crown surface have a negative influence on the adhesion of the soft tissues and often prevent optimum adhesion with the finishing materials.

Plasma treatment, which is triggered in the special vacuum chamber of the Plasma R reactor, generates an ionic bombardment with Argon gas*, which detaches the contaminants from the surface of the prosthetic product and converts them into their gaseous phase, which is ejected at the same time, removing any residue.



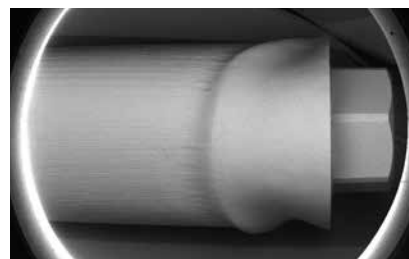
NON TREATED POST

Electronic microscope image of a post subjected to laboratory treatments: many contaminants can be seen in the thread of the screw and in the whole area of the connection



WASHING WITH ULTRASONIC BATH CLEANING

The same post after washing with ultrasonic bath cleaning: the contaminants are mostly removed, but some residue is still visible, especially in the bottom area of the thread



PLASMA CLEANING TREATMENT

After treatment with Plasma R all the areas of the post are decontaminated and free from particle residue

The plasma cleaning technique, carried out chair-side with the PLASMA-R decontamination unit, is highly effective in removing laboratory processing contaminants from implant posts, thus preventing the interference of processing residue with the biological stability of the tissues.

In comparison with the traditional cleaning systems, plasma cleaning increases the resistance to unscrewing of the connecting screws.



On the titanium disc, clean but not plasma treated, a special solution for assessing wettability is applied with a brush. The liquid thickens immediately forming macro drops (laboratory tests)



After treatment with Plasma R the liquid maintains the morphology given by the brush strokes for a longer time, indeed it gradually tends to spread over the surface (laboratory tests)

Fields of application

- Cleaning and activating implant abutments.
- Cleaning prosthetic rehabilitations (crowns and bridges in alloy, metal-free ceramics) to increase their adhesive cementing processes.
- Cleaning and activating prosthetic structures to increase their adhesion to the ceramic.
- Cleaning ceramic veneers (disilicate and zirconia) to optimise the adhesive cementing processes.

Advantages

- Chamber sufficiently large to contain anything from a single element to a complete arch.
- Simple and intuitive controls, with a cycle with pre-set power to make its use easy and safe, error-proof.

Technical data

frequency:	100 Hz
power:	16 W
complete cycle time:	8 minutes approx
dimensions:	210x420x342 mm
dimensioni camera:	60x60 mm approx

For an even more efficient treatment, a special support base for the prosthetic structures is available. It is to be inserted into the decontamination chamber. It is not supplied with the unit but is optional.



Standard configuration

Control unit, cable, connection tube for Argon gas, instruction manual.

code	description
PLASMA-R*	Chair-side plasma cleaning
SUP3-PLASMA-R	Support base for Plasma R

*** Warning:** To operate the appliance you must purchase a cylinder of Argon gas, not supplied by Sweden & Martina; apply to your local specialised dealers.

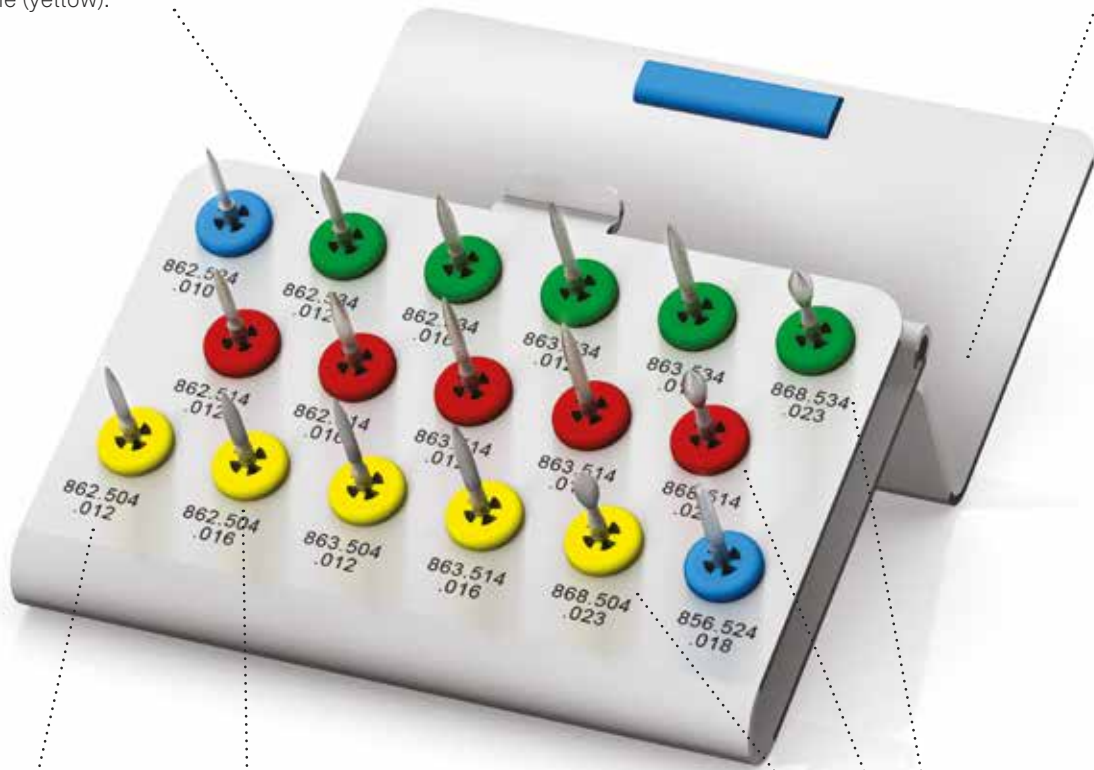
Preparation Drills

B.O.P.T. Technique (Biologically Oriented Preparation Technique) by Dr. Ignazio Loi

Diamond drills for the biologically oriented vertical preparation of the tooth.

The drills of the same shape are arranged diagonally in the 3 grits, coarse (green), fine (red) and superfine (yellow).

Once opened, the cover determines the angle of the base of the case, allowing the best ergonomic working position.



The ISO code allows easy identification of the drills.

The colour of the silicone supports is the code of the grit of the drills and corresponds to the coloured ring on the drill shank.

The three different grits in which the preparation drills are available allow perfect smoothing of the tooth so as to guarantee an improved seal after cementing of the crown.

The B.O.P.T. Technique consists of the vertical preparation of the tooth to allow soft tissues to adapt to the desired prosthetic contours.

This prosthetic protocol is known as B.O.P.T. or Biologically Oriented Preparation Technique, indicating that it is the tissues themselves that adapt naturally to the preparation and the restoration.

The technique, supported by Dr. Loi's long clinical experience, has demonstrated medium- and long-term stability of the tissues.

This selection of diamond drills allows the performance of all the clinical steps for the preparation of teeth, from mesiodistal separation of adjacent teeth to preparation of all profiles, according to the B.O.P.T. Technique.

The assortment includes 17 diamond drills with different shapes and grits, the morphology of which allows them to work making grooves indentations or unevennesses that would prevent the correct and natural adaptation of the mucosa. The different grits allow gradual polishing of the tooth so as to obtain an optimum surface finish.

Together with the assortment of drills a handy stainless steel holder is supplied, which is sterilisable and autoclavable and allows the instruments to be ergonomically organised.

For further details about the technique and the instruments see the catalogue "B.O.P.T. Technique".

Code **Z4999** refers to complete assortment of one drill of each type and the stainless steel drill holder. To improve lifetime of the drills it is recommended to make periodic use of the stone 529D, which must be ordered separately.

code	description
FG856/018C	Diamond bur medium grit 856.524.018
FG862/010C	Diamond bur medium grit 862.524.010
FG862FC/012C	Diamond bur superfine grit 862.504.012
FG862FC/016C	Diamond bur superfine grit 862.504.016
FG862G/012C	Diamond bur coarse grit 862.534.012
FG862G/016C	Diamond bur coarse grit 862.534.016
FG862M/012C	Diamond bur fine grit 862.514.012
FG862M/016C	Diamond bur fine grit 862.514.016
FG863FC/012C	Diamond bur superfine grit 863.504.012
FG863FC/016C	Diamond bur superfine grit 863.504.016
FG863G/012C	Diamond bur coarse grit 863.534.012
FG863G/016C	Diamond bur coarse grit 863.534.016
FG863M/012C	Diamond bur fine grit 863.514.012
FG863M/016C	Diamond bur fine grit 863.514.016
FG868FC/023C	Diamond bur superfine grit 868.504.023
FG868G/023C	Diamond bur coarse grit 868.534.023
FG868M/023C	Diamond bur fine grit 868.514.023
4999	Bur holder for preparation drills B.O.P.T., empty

Preparation and Finishing Drills for Temporary Bridges

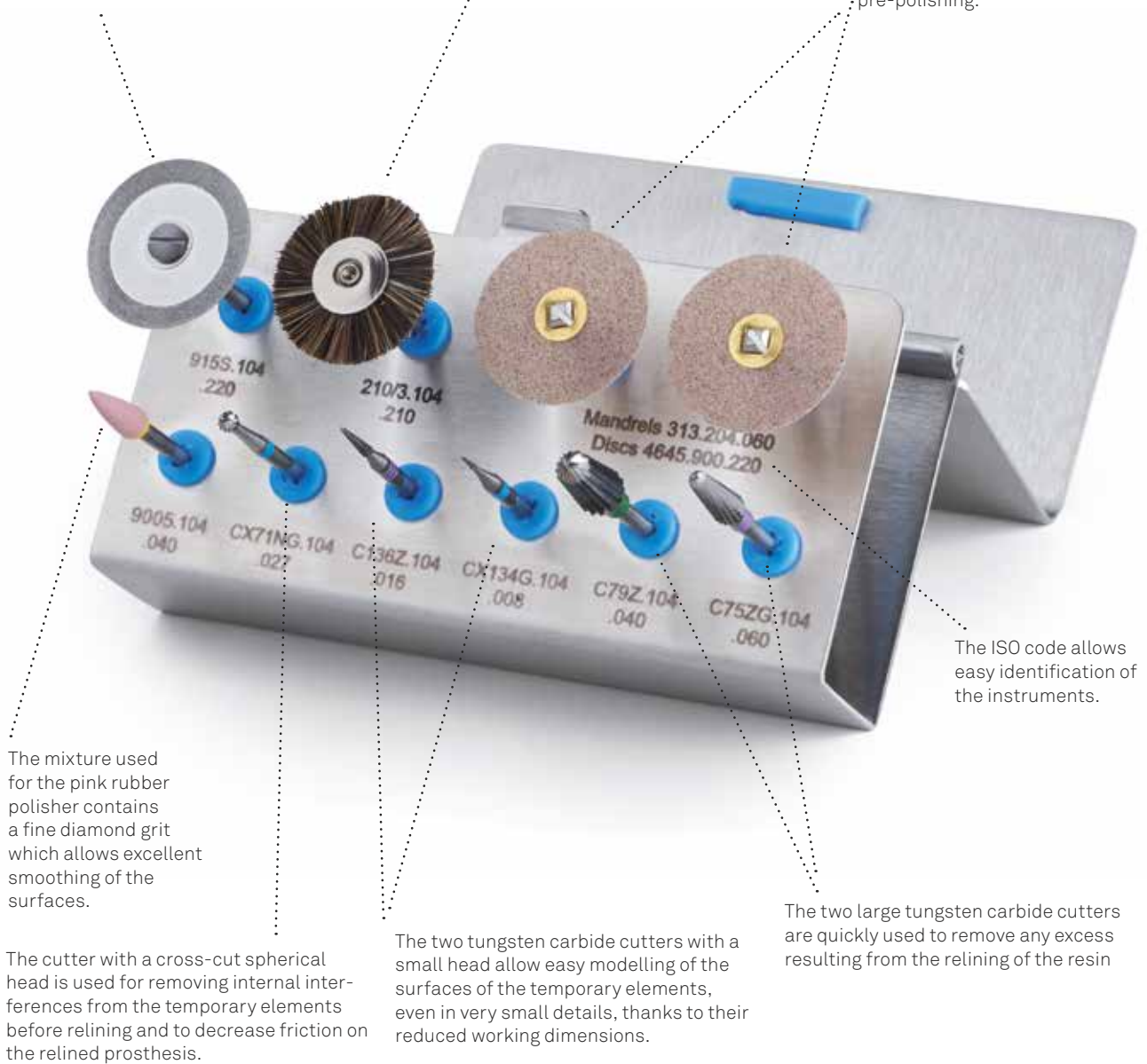
B.O.P.T. Technique (Biologically Oriented Preparation Technique) by Dr. Ignazio Loi

Drills for the preparation and finishing of temporary restorations according to the B.O.P.T. Technique.

Both working sides of the diamond disc are diamond bonded, to facilitate in and out from the inter-proximal areas of the temporary elements.

The boar bristles brush must be used with suitable polishing pastes.

The two steel mandrels are already preassembled with one corundum Moore abrasive disc each, for temporary elements pre-polishing.



The B.O.P.T. Technique consists of the vertical preparation of the tooth to allow soft tissues to adapt to the prosthetic contours.

The prosthetic protocol is known as B.O.P.T. or Biologically Oriented Preparation Technique, indicating that it is the tissues themselves that adapt naturally to the preparation and the restoration. This selection of rotary instruments allows preparation and finishing of temporary resin restorations for head edge prepared teeth according to the B.O.P.T. technique.

The assortment includes:

- five tungsten carbide cutters with different shapes and cuts;
- a diamond disc with superfine grit;
- a boar bristle brush;
- two steel mandrels;
- one hundred disposable Moore discs in medium grit corundum;
- a rubber polisher with in-built diamond grit.

Together with the assortment of drills a handy instrument holder is supplied which is sterilisable and autoclavable and allows the instruments to be ergonomically organised.

For further details about the technique and the instruments see the catalogue "B.O.P.T. Technique".

Code **Z4555** refers to a complete assortment of one of each tungsten carbide cutters, a diamond disc, a boar bristle brush, a Cerashine rubber polisher, two mandrels, 100 Moore abrasive discs and a steel drill holder.

All the items are available individually in spare packs, in the minimum quantity listed in the table.

code	description
9005HP	Diamond pink rubber, Cerashine , flame-shape, yellow ring, 9005.104.040
CX71NG/027HP	Carbide ball bur, crossed cut, light blue ring, CX71NG.104.027
C136Z/016HP	Conical carbide bur, triple violet ring, C136Z.104.016
CX134G/008	Conical carbide bur, light blue ring, CX134.104.008
C79Z/040HP	Conical carbide bur, round tip, triple violet ring, C79Z.104.040
C75ZG/060HP	Conical carbide bur, round tip, triple green ring, C75ZG.104.060
915S/220HP	Diamond disc, superfine grit, yellow ring, 915S.104.220
210.03.00	Brush, wild pig bristle, soft, 210/3.104.210
313/060CA	Steel mandrel, Snap-on, contra-angle, 313.204.060
4645	Moore Abrasive discs, medium grit, snap-on connection, 4645.900.220
4555	Bur holder for finishing, empty



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