

F M M E U



INSTRUMENTS

UNIVERSAL SURGICAL





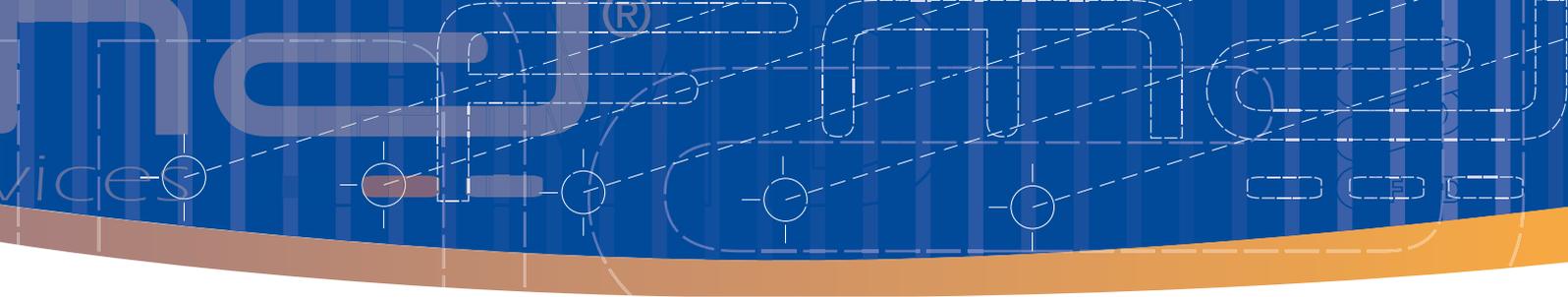
The progress which has taken place in the odontoiatric field during the last twenty years has been so rapid and consistent that only a few companies have had the ability to remain up to date. Only versatility and a close attention to the ever changing requirements of dental surgeons, can enable a Company to fully meet the requirements of this market.

FMD, who have been producing dental implants for more than 20 years, have always pursued this philosophy and have paid more and more attention to the surgical instruments necessary, not only for implantology, but also for oral surgery in general.

Evidence of this flexibility is the constant cooperation, between the R&D department of FMD and independent experts who are able to propose innovative ideas. These new projects can be assessed promptly with a view to obtain precise and accurate evaluations, resulting in finished products in a shortest possible time period. Our requirements for all products are: high quality and absolute precision. These are the elements which have produced many satisfied customers for FMD and these will be the principles which are needed to face future challenges.

All FMD products are manufactured in accordance with the European Directive 93/42/CEE and further amendments concerning Medical Devices and certified by:

Istituto Superiore di Sanità
Organismo Notificato n° 0373



■ TITANIUM SURGICAL ASPIRATOR
 cod. FAL-17-001

It is used to aspirate the liquids in the oral cavity. Made of titanium, it avoids possible accidental contaminations.



■ ROTATING SCALPEL
 cod. FAL-41-001

The small dimensions of this instrument allow orientation of the scapel blades to reach difficult sites.




■ MUCOTOME FOR MICROMOTOR

Circular scapel used to open the adherent gingiva, both before inserting the implant and after the osseo-integration is complete, to expose the implant.




Ø mm.	cod.	Ø mm.	cod.
2,5	FAL-31-002	5,5	FAL-31-013
3,0	FAL-31-004	6,0	FAL-31-014
3,5	FAL-31-006	6,5	FAL-31-015
4,0	FAL-31-008	7,0	FAL-31-016
4,5	FAL-31-010	7,5	FAL-31-017
5,0	FAL-31-011	8,0	FAL-31-018

■ TITANIUM PERIOSTEAL ELEVATOR
 cod. FAL-14-001

Titanium, due to its lightness, makes this instrument simpler to use and guarantees more safety during the surgery, avoiding accidental contamination of the implant surface.




■ PILOT DRILL
 cod. FAL-27-003

Drill realized with a special treatment in order to have a constant cutting. Since it is produced in a particular kind of steel, it is suggested as the first drill for inserting implants because it succeeds in penetrating the cortical bone with relative ease.




DARK DRILL



The innovative system conceived by FMD allows the dark drills to offer performances consistently higher than the common surgery drills as far as: higher cut accuracy, better hardwearing, lower exercise temperatures.

These advantages in fact lead to: lower risk of inaccuracy whilst preparing the surgical alveolus, possibility of re-utilization for longer times, lower risks of failure as consequence of the osseous overheating; for safety's sake during drilling it is advisable to insert depth stops.

Ø mm.	cod.	Ø mm.	cod.
1,75	DRILL-175-D	4,0	DRILL-400-D
2,0	DRILL-200-D	4,2	DRILL-420-D
2,3	DRILL-230-D	4,5	DRILL-450-D
2,5	DRILL-250-D	4,8	DRILL-480-D
2,8	DRILL-280-D	5,0	DRILL-500-D
3,0	DRILL-300-D	5,2	DRILL-520-D
3,2	DRILL-320-D	5,5	DRILL-550-D
3,5	DRILL-350-D	6,0	DRILL-600-D
3,7	DRILL-370-D		

DRILL



The FMD cylindrical drills for surgery are manufactured in surgical steel and allow a precise, safe and rapid cut of the bone for the preparation of the surgical alveolus. The laser depth notches imprinted in the drill indicate with better precision the depth of the hole that has being made; for purposes of safety, during drilling it is suggested the use of depth stops.

Ø mm.	cod.	Ø mm.	cod.
1,75	DRILL-175	4,0	DRILL-400
2,0	DRILL-200	4,2	DRILL-420
2,3	DRILL-230	4,5	DRILL-450
2,5	DRILL-250	4,8	DRILL-480
2,8	DRILL-280	5,0	DRILL-500
3,0	DRILL-300	5,2	DRILL-520
3,2	DRILL-320	5,5	DRILL-550
3,5	DRILL-350	6,0	DRILL-600
3,7	DRILL-370		

Per la fresa con irrigazione interna aggiungere la lettera **W** dopo il codice

DRILL WITH DEPTH-STOP



This makes the drilling easier, faster and safer. The stop when used on the drill ensures the desired depth is obtained automatically, thus avoiding unfortunate consequences from excessive penetration (interference with blood vessels and nerves adjoining the operation area). Due to its characteristics, it avoids the necessity to refer to the depth notches during cutting (no-look system).



DRILL WITH STOP

DRILL WITH DEPTH-STOP

DRILL STOP

For the drill stops codes, please write the diameter of the drill and the desired height. It is also possible to indicate the code this way: i.e. for a Ø 2,8 H10 stop, write STOP-280-100



DRILLS AND STOPS BOX 5 POSITIONS

cod. FAL-40-002

DRILLS AND STOPS BOX 7 POSITIONS

cod. FAL-40-003

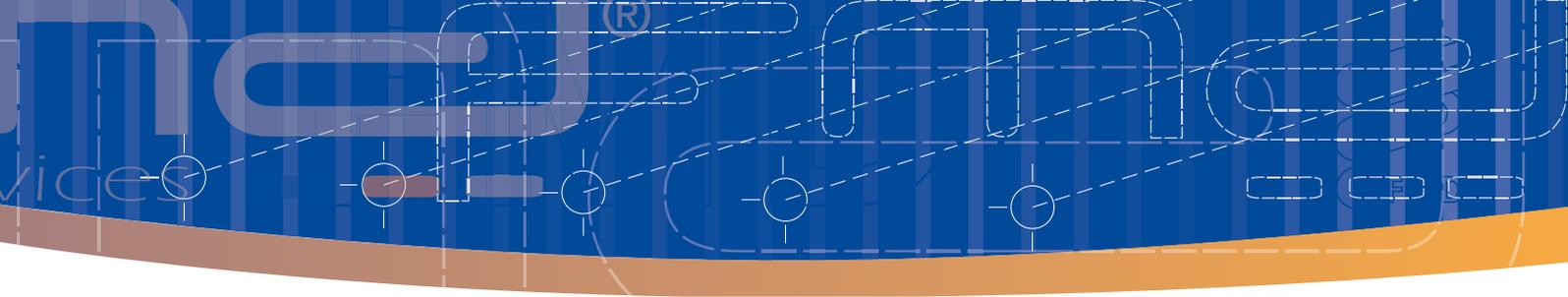
DRILLS AND STOPS BOX 9 POSITIONS

cod. FAL-40-005



The kit is modular on demand





■ DRILL EXTENSION

cod. FAL-12-001

It permits the use of rotating instruments with connection for the contra-angle handpiece (i.e. drills, mucotomes, etc.) in sites difficult to reach (i.e. in the presence of teeth with particularly long clinical crowns).



■ DEPTH GAUGE

cod. FAL-13-001

Used to measure depth and parallelism of the implant site.



■ CURVED TITANIUM TWEEZERS

cod. FAL-15-002

Produced in titanium, this guarantees lightness and reduces the risk of contamination of the implant surface.



■ STRAIGHT TITANIUM TWEEZERS

cod. FAL-15-001

■ HAND HELD KEY

cod. FAL-19-001

Particularly useful in the most delicate situations. It allows the manual use of rotating instruments that have the connection for the contra-angle handpiece (i.e. drills, mucotomes).



■ TITANIUM DAPPEN

cod. FAL-43-001

It is used to keep the autologous bone recovered during the operation, reducing the risk of accidental decontamination.



■ SURGICAL HAMMER

cod. FAL-29-001

It is used to strike non-rotating instruments, i.e. osteotomes and the kit for mini lifting. It can be used by striking the instrument with the surgical hammer with a teflon or lead base, having removed the ring.



BONE SCRAPER

cod. FAL-73-001

The FMD Bone Scraper is one of the most used instruments for osseous collection in the clinical practice. It allows to easily and rapidly obtain autologous bone to perform both small and large dimensions grafting. The Bone Scraper, thanks to the particular design of its blade, allows to take shavings of autologous bone that with their shape prevent the possibility of having a too compact graft, thus helping the presence among the osseous fragments of spaces crucial for its vascularization. In fact this allows to augment the graft volume and to reduce the sample quantity. The Bone Scraper has the considerable advantage to permit to obtain osseous shavings whilst preserving the vitality of the cells therein contained. The tissue taken is collected near to the blade and, thanks to the blood presence, it gets a plastic consistence that makes easier to handle and place it correctly. The particular design of the Bone Scraper blade, with an innovative 360° cutting capability, ensures a long use of the instrument. Consequently Bone Scraper is not a disposable device, therefore its duration is much higher than a common bone scraper and its blade can be re-used several times and replaced as well. Its reduced dimensions and its handiness make possible its insertion also into very narrow tissue tunnels. Its main utilization areas are the zygomatic crest, the external oblique line, the lateral surface of the mandibular corpus and the tuber maxillae.



BONE SCRAPER SPANNER

cod. FAL-74-001



BONE SCRAPER KEY

cod. FAL-75-001



TREPHINE DRILL

A surgical drill with a hollow cutting head, used to remove a circular section of bone or other tissue, to remove an implant or to make the initial hole in the bone (i.e. Ø 2,0x3,0).



Ø mm. Int.xExt.	cod.	Ø mm. Int.xExt.	cod.
2,0x3,0	FAL-04-001	5,5x6,5	FAL-04-011
2,5x3,5	FAL-04-008	6,0x7,0	FAL-04-005
3,0x4,0	FAL-04-002	6,5x7,5	FAL-04-012
3,5x4,5	FAL-04-009	7,0x8,0	FAL-04-006
4,0x5,0	FAL-04-003	7,5x8,5	FAL-04-013
4,5x5,5	FAL-04-010	8,0x9,0	FAL-04-007
5,0x6,0	FAL-04-004		



TITANIUM CAPSULE FOR OSSEOUS FRAGMENTATION

cod. FAL-24-001

The osseous tissue removed must be inserted into an hermetically-sealed titanium capsule, with 2 titanium spheres inside. After 5 seconds vibration (this operation must not cause overheating which could alter the biologic characteristics of the bone) you will obtain a suitable material which is easily workable and can be used either alone or with other materials.



BONE CHOPPER

cod. FAL-67-001

An instrument enabling bone recovering, during the operation by means of surgical hammer.



■ UNIVERSAL INSERT FOR ULTRASONIC MACHINES “MAB”

cod. MAB-ME-002



- It is possible, using this insert, to adapt most common turbine tips to the various ultrasound machines on the market. Some possible uses of the MAB insert:
- a – in a big lift, to create antrumostomy in sinus lift and elevate the Schneider membrane
 - b – in a mini lift, to break into the maxillary sinus floor;
 - c – preparation of the implant tunnel close to the lower alveolar nerve (use a full round head diamond point);
 - d – in the finishing of the cavity surfaces in Conservative Dentistry. In the III class cavities, the use of a ball head diamond point divided in half (so as to avoid contact with the adjoining tooth) is advised;
 - e – finishing of abutment preparation in fixed prosthesis (same point used in preparation, but with more fine-grained);
 - f – resection of radicular apex in apicectomy;
 - g – in endodontics, to remove the intra-cameral calcifications and to find the entrances of the radicular canals;
 - h – to realize the microgeography and macrogeography on the vestibular surfaces for the fourth classes in the composite restorations of the frontal sector;
 - i – separation of thin osseous crests (horizontal expansion of the crest).



■ MAB SPANNER

cod. MAB-03-001



■ CONICAL SCREWS FOR BONE EXPANDING KIT



This kit includes 10 conical screws for bone expanding, to be used manually or with micromotor at low revolutions (20-25 rpm) with no external irrigation and at a controlled torque (40-45 Ncm). This is a valid alternative to the usual osteotomes, thus avoiding the use of surgical hammer, which is traumatic for the bone and very unpleasant for the patient. The LS conical screws for bone expanding Kit also enables:

- a – the progressive divarication of the osseous osteotomized walls in the split crest techniques, in a simple, controllable and repeatable method;
- b – the expansion of the implant site in relatively thin crests (using the kit alone or together with particular grafts, in order to avoid fenestrations) to insert larger diameter implants, achieving a better aesthetic outcome and increasing primary stability;
- c – in D3-D4 bone, this Kit is very useful in order to prepare the implant site, without using the standard drills, with a less traumatic surgical technique compared with the usual osteotomes. This procedure increases the bone density, thus giving to the implant itself a better primary stability.

The kits include: box, drill, adapter for micromotor, driver extension, micromotor internal driver.
All kits are entirely autoclavable.



■ BONE EXPANDING KIT ADVANCED

cod. FAL-00-002

n°	Ø mm. threads	Ø mm. core	cod.
1	2,0	1,5	FAL-00-020
2	2,6	2,1	FAL-00-026
2,5	2,9	2,4	FAL-00-029
3	3,2	2,7	FAL-00-032
3,5	3,5	3,0	FAL-00-035
4	3,8	3,3	FAL-00-038
4,5	4,1	3,6	FAL-00-041
5	4,4	3,9	FAL-00-044
5,5	4,7	4,2	FAL-00-047
6	5,0	4,5	FAL-00-050



■ EASY FLUID-DYNAMIC SINUS LIFT

The EASY FLUID-DYNAMIC SINUS LIFT Kit is appositely studied to perform a method for the hydraulic Shneiderian membrane elevation with crestal approach, called HySiLift.

This Kit allows to inject, gradually and reproducibly, the pasty biomaterial, thus elevating the sinus mucosa and fulfilling the sub-schneiderian space.

Therefore, the use of the EASY FLUID-DYNAMIC SINUS LIFT permits a radial and uniform distribution of the biomaterial which, thanks to its pasty consistency, generates a dome shape elevation of the membrane just in the area of the future implant site.

The advantages of this method are represented by a conspicuous elevation of the sinus floor, obtained in a short time using simultaneously a controlled mechanical movement and the hydraulic pressure. This technique requires a brief learning curve and is user friendly, plus the crestal approach allows to strongly decrease the traumaticity and the morbidity of the operation. This technique, mainly used to elevate the Shneiderian membrane, can be applied together with the most common methods adopted for the preparation of the implant tunnel, such as osteotomes, rotating instruments or piezosurgery.

■ EASY FLUID-DYNAMIC SINUS LIFT KIT cod. HYD-13



■ EASY FLUID-DYNAMIC SINUS LIFT cod. HYD-03

Instrument with a micrometric control piston which gradually injects pasty grafting biomaterial. On the Easy Fluid is possible to apply disposable sterile 1ml, 2ml, 2,5ml plastic syringes with Luer Lock.

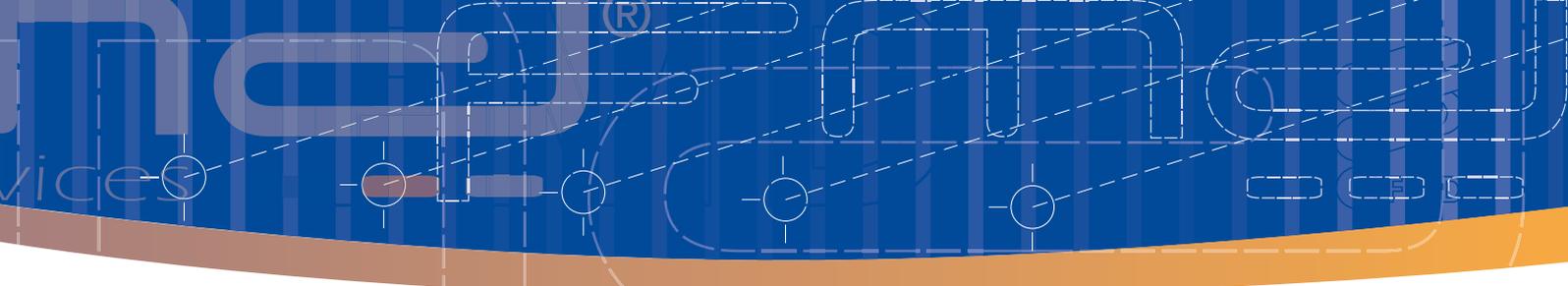


■ MOUNT ADAPTER FOR MICROMOTOR cod. FAL-42-001



The square connection allows to be used with micromotor at low revolutions.





DISPENSER

This instrument has a particular smooth, semi spherical apex portion, with lateral open slides just behind which allow a radial, uniform distribution of the biomaterial, thus avoiding lacerations. The color coding allows to recognize the misure between Ø 3,4mm Ø 3,8mm Ø 4,2mm instead laser depth notches at 6, 8, 10 and 12 mm.

DISPENSER

Ø mm.	cod.
● 3,4	HYD-34
● 3,8	HYD-38
● 4,2	HYD-42



CONNECTOR

It allows to connect Dispenser to the Easy Fluid.

CONNECTOR 30°
cod. HYD-30

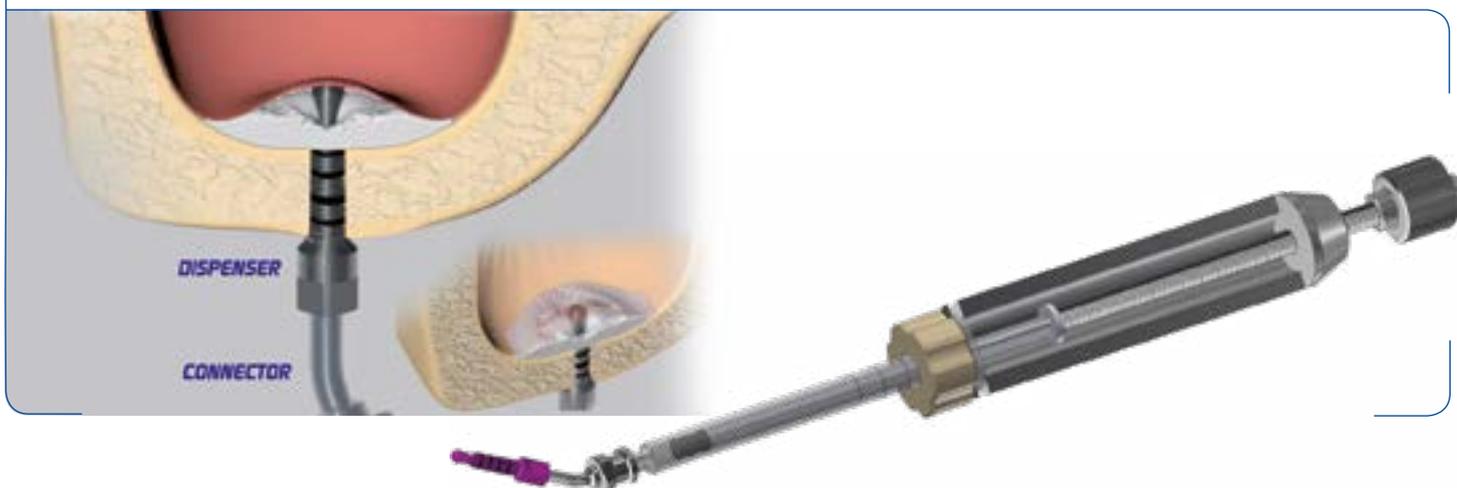


PROFILER

Tool which permits to smoothly prepare the threading on the residual cortical bone of the sinus, in order to use consequently the Dispenser. The color coding allows to recognize the misure between Ø 3,4mm Ø 3,8mm Ø 4,2mm instead laser depth notches at 6, 8, 10 and 12 mm.

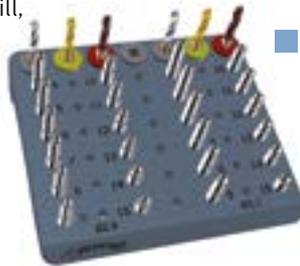
PROFILER

Ø mm.	cod.
● 3,4	HYD-32
● 3,8	HYD-36
● 4,2	HYD-40



**SINUS LIFT DRILLS
(KIT FOR MINI-LIFT)**

This kit is suitable for the specific lifting of the maxillary sinus by means of rotating instruments. The method uses helicoidal drills from 2.3 mm diameter to 4.2 mm diameter. There are 3 drills in each diameter with different cutting capabilities of the point, dependent on the bone consistency and are identified by 3 different colour codes: silver (standard drill), yellow (less sharp, lift drill, for soft bone) and red (more sharp, lift cut drill, for hard bone). Each drill diameter is provided with one set of 12 depth stops (from 4 to 15 mm) which fit the various crest heights providing a constant control during perforation.



LIFT DRILL-MINI KIT
cod. FAL-LIFT-002



STANDARD DRILL
(see page 2)



LIFT DRILL
(drill for soft bone)

Ø mm.	cod.
2,3	DRILL-L-230
2,5	DRILL-L-250
2,8	DRILL-L-280
3,0	DRILL-L-300
3,2	DRILL-L-320
3,5	DRILL-L-350
3,7	DRILL-L-370
4,0	DRILL-L-400
4,2	DRILL-L-420



LIFT CUT-DRILL
(drill for hard bone)

Ø mm.	cod.
2,3	DRILL-CL-230
2,5	DRILL-CL-250
2,8	DRILL-CL-280
3,0	DRILL-CL-300
3,2	DRILL-CL-320
3,5	DRILL-CL-350
3,7	DRILL-CL-370
4,0	DRILL-CL-400
4,2	DRILL-CL-420

DRILL STOP
(see page 2)

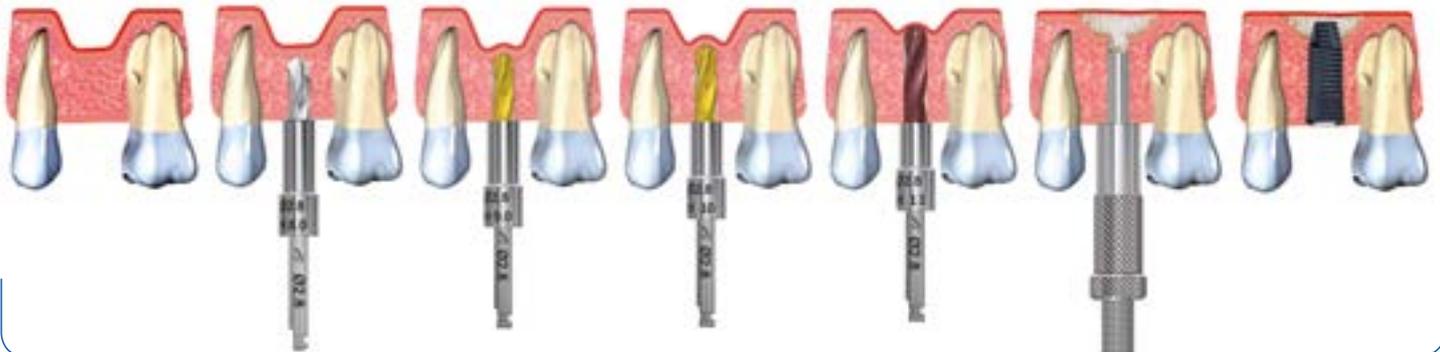


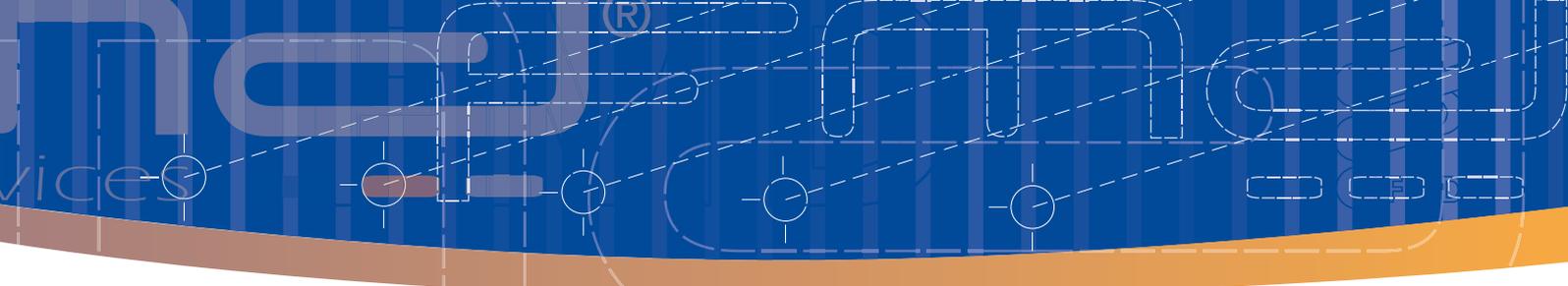
The kit is modular on demand

LIFT DRILL-KIT

cod. FAL-LIFT-001

Sinus big lifting through sinus lift drills kit





■ MINI LIFT KIT WITH DOUBLE STOP

The instruments of this kit produce a specific elevation of the maxillary sinus floor. Due to its exclusive "double stop" system it makes the procedure safer for the implantologist. They are available in straight and curved, concave, bevelled or convex.



Ø mm.	cod.
2,8	FAL-06-001
3,0	FAL-06-002
3,2	FAL-06-003
3,5	FAL-06-004
3,7	FAL-06-005
4,0	FAL-06-006
4,2	FAL-06-007
4,5	FAL-06-008

■ STRAIGHT CONCAVE CHISEL



Ø mm.	cod.
2,8	FAL-07-001
3,0	FAL-07-002
3,2	FAL-07-003
3,5	FAL-07-004
3,7	FAL-07-005
4,0	FAL-07-006
4,2	FAL-07-007
4,5	FAL-07-008

■ CURVED CONCAVE CHISEL



Ø mm.	cod.
2,8	FAL-08-001
3,0	FAL-08-002
3,2	FAL-08-003
3,5	FAL-08-004
3,7	FAL-08-005
4,0	FAL-08-006
4,2	FAL-08-007
4,5	FAL-08-008

■ STRAIGHT BEVELLED CHISEL



Ø mm.	cod.
2,8	FAL-09-001
3,0	FAL-09-002
3,2	FAL-09-003
3,5	FAL-09-004
3,7	FAL-09-005
4,0	FAL-09-006
4,2	FAL-09-007
4,5	FAL-09-008

■ CURVED BEVELLED CHISEL



OSTEOTOMES SET

Used in the preparation of implant sites in low density bone (D3-D4). The osteotomes are used instead of drills as they impact the surrounding bone progressively, allowing an increase in the osseous density and the implant primary stability. They can also be used for expansion of implant sites in moderately thin crests. The osteotomes have an active extremity cone up to 2.5 mm diameter, while the following diameters have an ogive shape.

Ø mm.	cod.	Ø mm.	cod.
1,8	FAL-21-001	3,7	FAL-21-009
2,0	FAL-21-002	4,0	FAL-21-010
2,3	FAL-21-003	4,2	FAL-21-011
2,5	FAL-21-004	4,5	FAL-21-012
2,8	FAL-21-005	4,8	FAL-21-013
3,0	FAL-21-006	5,0	FAL-21-014
3,2	FAL-21-007	5,2	FAL-21-015
3,5	FAL-21-008	5,5	FAL-21-016

BONE EXPANDING KIT

It is used to perform horizontal osseous expansion in thin crests. The kit also includes 2 chisels that are used to create the housing of the osseous expander and 1 driver.

CURVED CHISEL

cod. FAL-16-002

STRAIGHT CHISEL

cod. FAL-16-001

BONE EXPANDER

cod. FAL-54-001

TITANIUM SINUS LIFT SET

Set of titanium instruments of various shapes used in the elevation of the sinus membrane during big lifting procedure.

SINUS LIFT 1

cod. FAL-68-001

SINUS LIFT 2

cod. FAL-68-002

SINUS LIFT 3

cod. FAL-68-003





■ PINS KIT

Produced in surgical steel, they are used to fix the membranes. The kit consists of 10 pins, one autoclavable box and one inserter.

■ PIN

cod. FAL-64-001



■ PIN BOX

cod. FAL-65-001



■ PIN INSERTER

cod. FAL-63-001



■ BONE FIXATION SCREWS

Produced in titanium, they are used to fix titanium net, membranes and grafts of autologous bone.

Ø x H mm.	cod.
● 1,5 x 5,0	VM-01-001
● 1,5 x 7,0	VM-01-002
● 1,5 x 9,0	VM-01-003
● 1,5 x 11,0	VM-01-004
● 1,5 x 13,0	VM-01-005

■ DRILL FOR BONE FIXATION SCREWS

cod. FAL-27-002

It is used to prepare the site where the bone fixation screws shall be inserted. The drill, manufactured following a specific treatment, maintains a constant cutting. Used as the first drill, it allows to penetrate the cortical bone.

■ TITANIUM NETS

Manufactured in titanium ASTM F67 GR.2 and used in cases of osseous regeneration, they are fixed with the use of bone fixation screws.

■ TITANIUM NET

cod. FAL-25-001

measures in mm: 22X16X0,2 - n°54 Ø1,8 holes

■ BIG TITANIUM NET

cod. FAL-25-003

measures in mm: 41x30x0,2 - n°165 Ø1,8 holes

■ TITANIUM NET XXL

cod. FAL-25-004

measures in mm: 92x58x0,2 - n°912 Ø1,8 holes



■ KIT FOR BONE FIXATION SCREWS

cod. FAL-VM-001

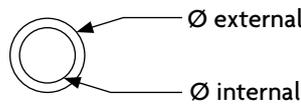




BONE PUSHING SYRINGE

With this instrument it is possible to perform insertion operations of the bone or of osteoconductive materials in the selected site.

Ø mm. Est.xInt.	cod.
1,7x1,3	FAL-1713
2,2x1,7	FAL-2217
4,0x3,0	FAL-4030
5,0x4,0	FAL-5040
6,0x5,0	FAL-6050



OSSEOUS CALIPER

cod. FAL-57-001

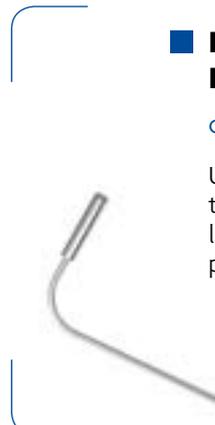
Instrument that measures the bone thickness.



CURVED TITANIUM INSERTER

It is used to test and to compact the bone or the graft material previously inserted.

Ø mm.	cod.
2,8	FAL-10-001
3,0	FAL-10-002
3,2	FAL-10-003
3,5	FAL-10-004
3,7	FAL-10-005
4,0	FAL-10-006
4,2	FAL-10-007
4,5	FAL-10-008



INTERNAL IRRIGATION TUBE

cod. FAL-52-001

Used to irrigate the drills with cooling liquid during the procedure.



STRAIGHT CANNULA

cod. FAL-20-001

It is used to perform alveolar washing.

CURVED CANNULA

cod. FAL-20-002

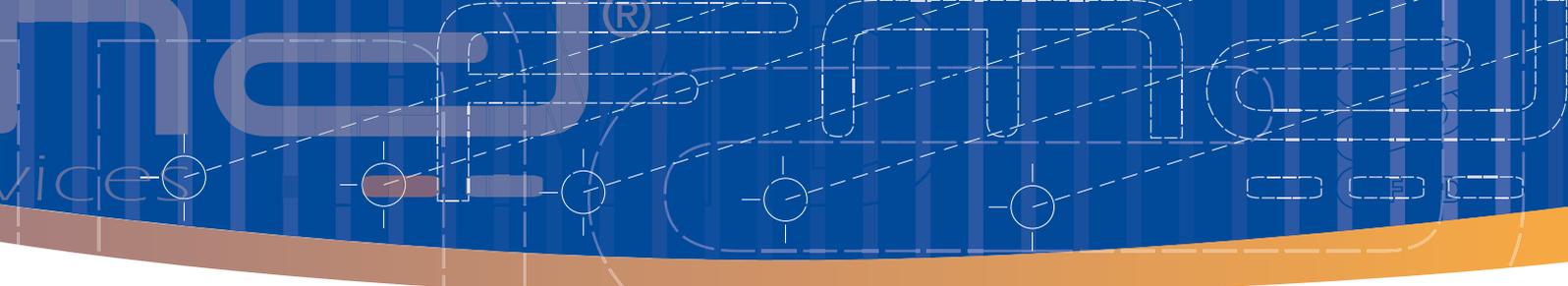


ADAPTER FOR SYRINGE

cod. FAL-48-001

This adapter connects the anaesthesia needle to the disposable syringe. It permits the use of the needle commonly used for the local anaesthesia on any type of disposable syringe. This kind of needle is longer and thinner than common needles, producing a more efficacious result reaching the third apical, allowing optimal cleansing of the whole canula lumen. The adapter is produced in titanium or surgical steel for optimal sterilization.





ORTHODONTIC MINI-IMPLANTS

Orthodontic titanium grade 5 mini-implants.

Ø x H mm.	cod.
1,3 x 8,0	LG-1308
1,5 x 12,0	LG-1512
1,6 x 5,0	LG-1605



DRILL
cod. FAL-27-001

LONG MANUAL DRIVER
cod. LG-50

SHORT MANUAL DRIVER
cod. LG-20

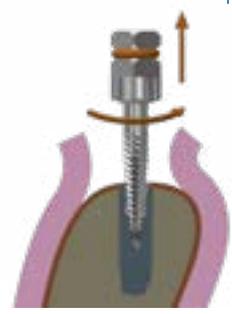
DRIVER FOR MICROMOTOR
cod. LG-M25

ORTHODONTIC KIT
cod. LG-KIT-25

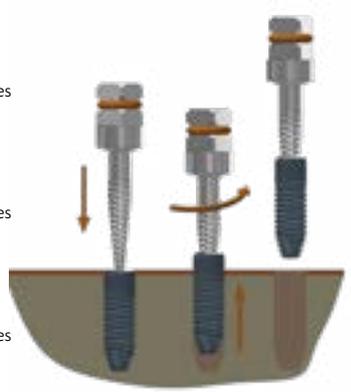
EXTRACTOR IMPLANTS KIT



Thanks to this new system for the extraction of dental implants, the removal of a fixture that is no longer useful for rehabilitation purposes can be carried out with reduced trauma to the peri-implant bone compared to traditional methods, avoiding regenerative techniques. The 3 extractor sizes allow for their use on various common implant threads. In the event of pronounced osseointegration of the implant or explantation difficulties (e.g. implants of considerable length) “trephine drills” FMD (see page 4) can be integrated into the system, helping in the removal of the first millimetres of the peri-implant bone.



- EXTRACTOR 1**
cod. FAL-83-001
(recommended for thread sizes from M1.4 to M1.6)
- EXTRACTOR 2**
cod. FAL-83-002
(recommended for thread sizes from M1.7 to M2)
- EXTRACTOR 3**
cod. FAL-83-003
(recommended for thread sizes from M2.3 to M3)



USAGE:

- a – Choose the most suitable extractor according to the morphology of the implant, connection and the diameter of the internal thread.
- b – Insert the implant extractor (initially exerting the necessary pressure for insertion).
- c – Operate the extractor by turning the appropriate ratchet anticlockwise, and continue until explantation is complete.

In the event that the torque exerted for removal of the implant is too high, use the “trephine drills” FMD for about 3 mm (see page 4).



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