magnetic
MALLET

Magnetic Mallet

Conceived and designed to combine power and control to achieve what previously seemed impossible.
Produced by Meta Ergonomica Srl, it is a device for oral surgery, based on magneto-dynamic technology.

When to use Magnetic Mallet?

Extractions, sinus lifts, split crests, bone modelling, Osseo densification.
Magnetic Mallet is used both to implement normal surgical protocols and more advanced ones, where preserving bone allows the procedure to be significantly simplified. With the crown remover handpiece, you can also remove bridges and cemented crowns with a speed and ease unthinkable compared to traditional methods.

The device consists of a compact central unit with reduced dimensions (the same as any micro-motor) whose only setting is the knob through which one of the 4 available forces is chosen.

The Magnetic Mallet handpiece is available in the Plus version (with 30% more force than the standard).
The Plus handpiece makes the Magnetic Mallet more effective in all those procedures that require greater strength such as the management of cortical bone or the avulsion of ankylosis elements.

What are the main features of the Magnetic Mallet?

Strength, control, visibility, predictability, and the ability to manage bone tissues in a completely minimally invasive way: all this simplifies the most complex situations and speeds up procedures allowing you to operate safely without drilling or subtracting bone tissue.

Simple and intuitive

It is used with one hand; it is held like a pen.
Requires a very short learning curve to familiarize yourself with its potential.

Offers maximum control

Allows you to maintain maximum control in your procedures thanks to the forces generated that are always constant.

Generates zero heat

The impact generated by the Magnetic Mallet is so fast that friction produces a quantity of heat minimized, eliminating the need to irrigate the treated area with great benefits in terms of visibility and avoiding washing tissues of the biological factors fundamental for osseointegration of implants.

Maximum strength in times very small

The magnetic pulse generated in the handpiece provides the tools used by the operator a force of up to 10 times higher than what could be imparted manually, but with almost no impact time.
Maximized strength and minimized impact time minimize the formation of the shock wave.

Versatile and modular

The operator can choose to perform the procedure surgical masks with 4 different levels of strength, which remain regardless of the bone quality on which is working, and with an excursion of the instrument that is 1 mm constantly.

Minimally invasive

While the ability to compact, distract, shape the bone tissues is maximized, the patient's perception is reduced.

Magnetodynamic technology

The magnetodynamic technology is based on the innovative concept of acceleration, reducing impact times and maximizing both force and effectiveness.
Through magnetism, the force and acceleration intervals necessary to perform minimally invasive surgeries successfully can be generated.
Precise and constant control of forces is essential to ensure the safety of operators during procedures. Thanks to the controlled power, it is possible to handle tissues safely, quickly and minimally invasively.

Advantages of magnetodynamic technology

Speed

Magnetodynamic propulsion applies more force than hand tools, ensuring more effectiveness in the operation.

Visibility

The lack of irrigation increases the visibility of the operator, who is able to control the progressive penetration of the tool.

Precision

The forces are focused on the treated area, limiting their dispersion as much as possible, generating more comfort for the patient and total accuracy in the procedure.

Control

In any procedure, the forces are applied with great precision, ensuring total control by the operator.

Zero cutting

It moves, replaces, reforms, condenses, without ever removing the bone, leaving the soft tissues intact.

Directionality

The ergonomics of the handpiece allow one-handed operation and facilitate positioning in the area to be treated.

Cold

The Magnetic Mallet substantially reduces heat generation so there is no need to irrigate.

Versatility

Multiple functions with the same handpiece always using the necessary force for each procedure thanks to a high degree of progressivity

Magnetic Mallet | Simple, intuitive, complete

A compact, handy and quick device to prepare for your surgeries. The only button is the power selector, which ranges from 1 to 4.

Only two connectors, one for the handpiece and one for the pedal.
Back-up button to activate the impulse as an alternative to the pedal.

code	description
MMPLUS-NEW	Magnetic Mallet, control unit including pedal and handpiece Plus

Magnetic Mallet is manufactured by: Meta Ergonomica *S.r.l. - Via Monte Nero 19, 20029 Turbigo (MI), Tel: +39 0331 890280*

Magnetic Mallet | Handpiece Plus

Amplified power, greater effectiveness

The Plus handpiece is included in every configuration of the Magnetic Mallet.
Make the most of magneto dynamic technology with amplified power. Upgrade from standard to Plus handpiece.

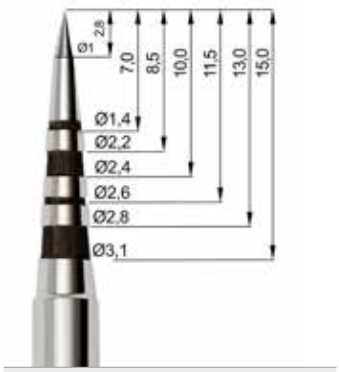
code	description
MM-MAN-PLUS	Magnetic Mallet Handpiece Plus

Osteotomes | Implant site preparation and sinus lift with even more freedom of action

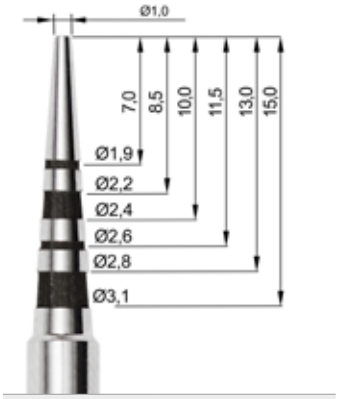
At progressively larger widths, with clearly visible depth notches

Designed for osteocondensation and flat-tip implant preparation, it can also be used for sinus lifts or LMSF technique. Curved osteotomes, equipped with an offset handle, are suitable for both posterior and anterior regions.

Only Curved



code	description
MM-F-100PC	Osteotome 100P



code	description
MM-F-100C	Osteotome 100

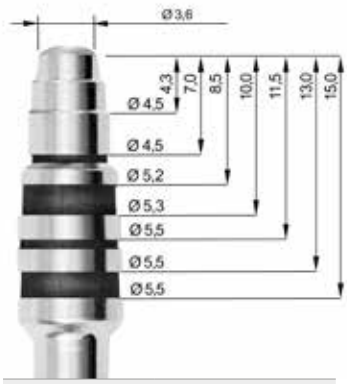
code	description
MM-F-160C	Osteotome 160

code	description
MM-F-200C	Osteotome 200

code	description
MM-F-230C	Osteotome 230

code	description
MM-F-300C	Osteotome 300

code	description
MM-F-330C	Osteotome 330

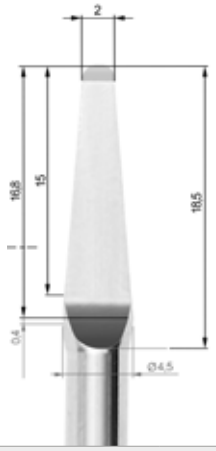


code	description
MM-F-360C	Osteotome 360

Design studied to have the best geometry for each extraction

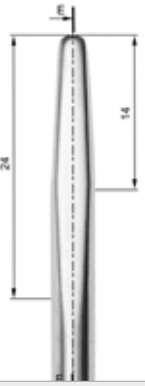
Ideal for atraumatic avulsion of all dental elements.

Only Curved



code	description
MM-F-EXTR1C	Extractor 1

code	description
MM-F-EXTR2C	Extractor 2



code	description
MM-F-EXTR3C	Extractor 3

code	description
MM-F-EXTR4C	Extractor 4

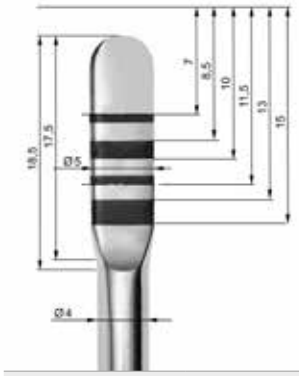
code	description
MM-F-EXTR5C	Extractor 5

Expanders | Progressive thickness tools

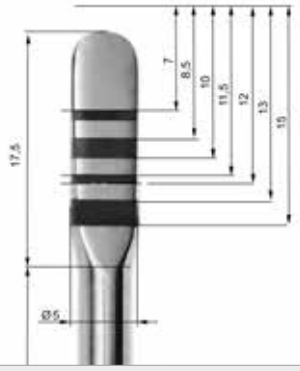
For bone expansion and compaction

Incremental tools for horizontal ridge expansion..

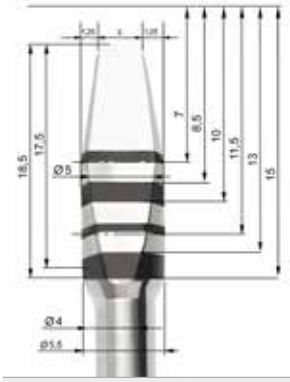
Only Curved



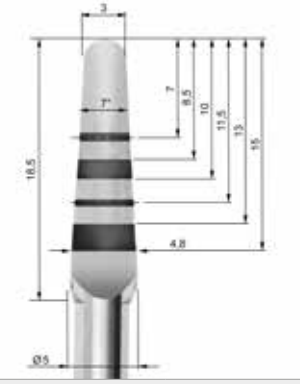
code	description
MM-F-EXP1C	Expander 1



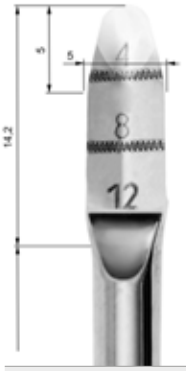
code	description
MM-F-EXP2C	Expander 2



code	description
MM-F-EXP3C	Expander 3



code	description
MM-F-CUTC	Cut



code	description
MM-F-SPLIT1C	Split

Beaver holder
The beaver holder is compatible with any disposable blade of a suitable shape.

We recommend the use
with Swann Morton type blades mod. SM64.
Replacement disposable blades are not supplied by Sweden & Martina.

code	description
MM-F-PBD	Beaver holder

Perfect ridge engagement

The lanceolate tip of the instrument allows you to manage even the most represented corticals, completely avoiding the use of drills.
In this way, it becomes much easier to determine the axis of the osteotomy, even in the presence of thin ridges, being able to maintain the trajectory in a safe and predictable way.

ø 1,8 mm

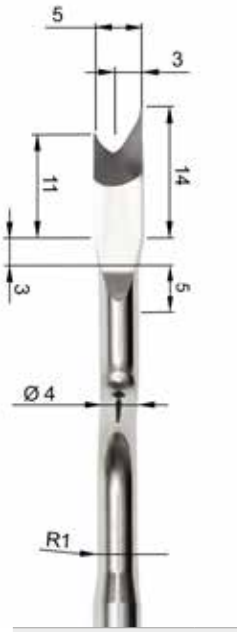
code	description
MM-F-FIRST	First

Genoa | For horizontal ridge expansion

For the thinnest ridges

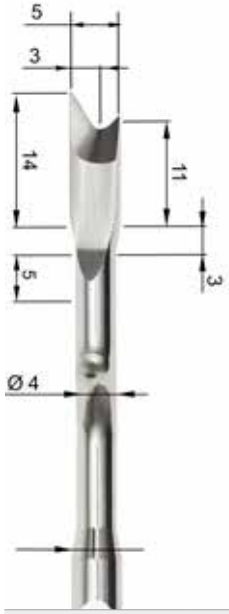
Progressive tools for the expansion of ridges with severe resorption, starting from the split carried out with sharp Genoa tools.
The precise GENOA blades allow you to safely create an invitation even in the thinner ridges.
Curved osteotomes, equipped with an offset handle, they are suitable for both posterior and anterior sectors.

Only Curved



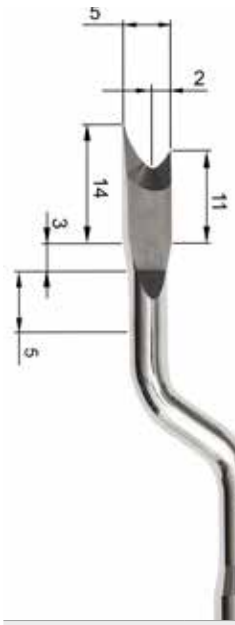
code	description
MM-F-GENOA1	Genoa 1

Tip thickness: 2 mm



code	description
MM-F-GENOA2	Genoa 2

Tip thickness:
from 2.7 mm to 3.3 mm



code	description
MM-F-GENOA3	Genoa 3

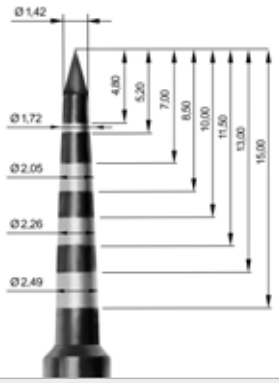
Tip thickness:
from 2.7 mm to 3.3 mm

Black Ruby | With DLC coating

For lower friction

DLC coating makes the instrument more slippery and atraumatic for preparation implant and the small sinus lift.
Curved osteotomes with offset handle suitable for posterior and anterior regions

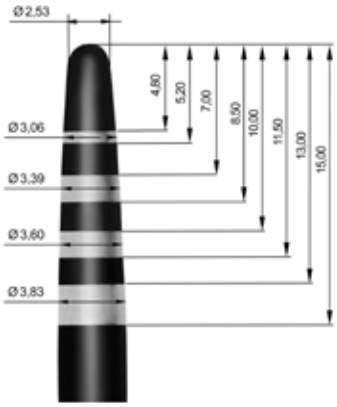
Only Curved



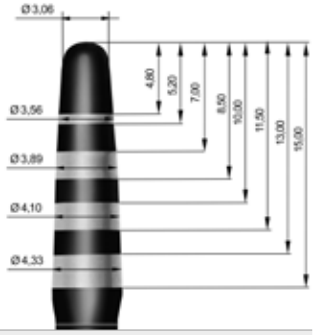
code	description
MM-F-FPCBLKR1	Black Ruby 1

code	description
MM-F-FPCBLKR2	Black Ruby 2

code	description
MM-F-FPCBLKR3	Black Ruby 3



code	description
MM-F-FPCBLKR4	Black Ruby 4

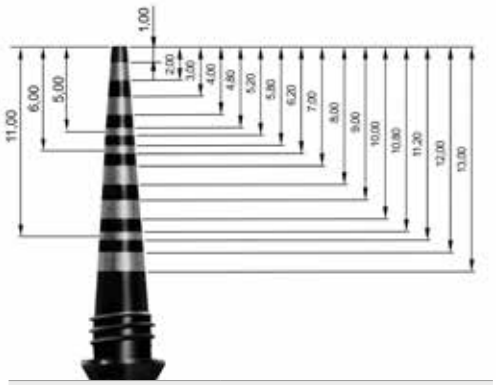


code	description
MM-F-FPCBLKR5	Black Ruby 5

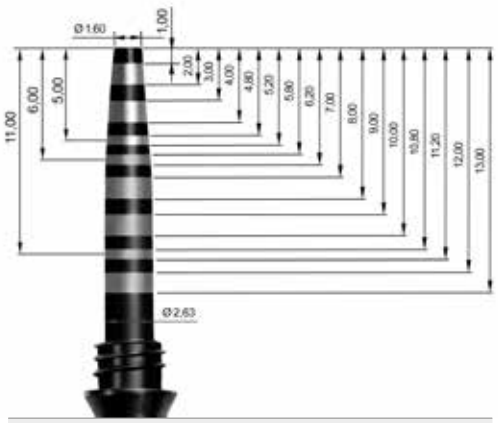
Tradition and Magnetodynamic technology

Designed for sinus lift with millimeter stops for a safe clinical procedure. Osteotomicurved with offset handle suitable for industries rear and front.

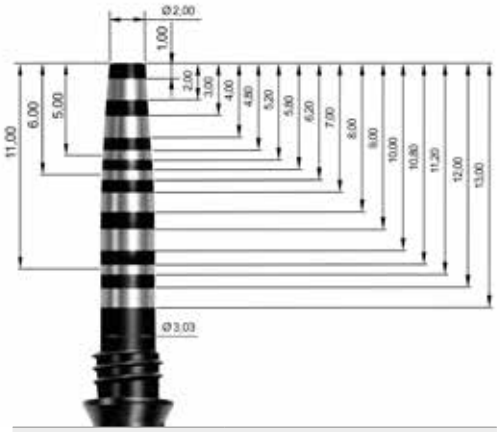
Only Curved



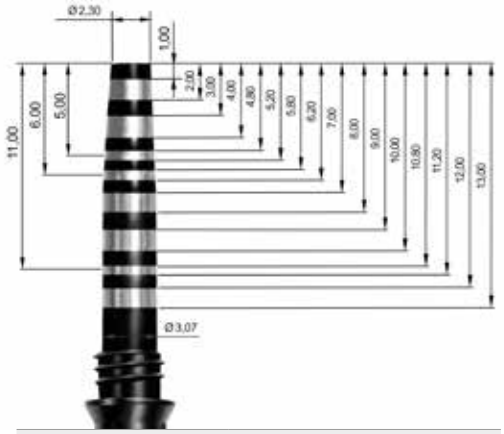
code	description
MM-F-FPCLEV1	Elevate 1



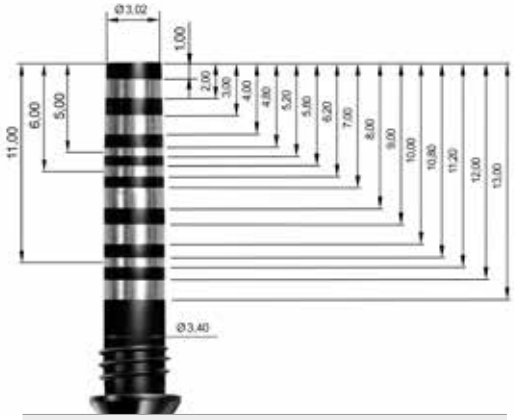
code	description
MM-F-FPCLEV2	Elevate 2



code	description
MM-F-FPCLEV3	Elevate 3



code	description
MM-F-FPCLEV4	Elevate 4

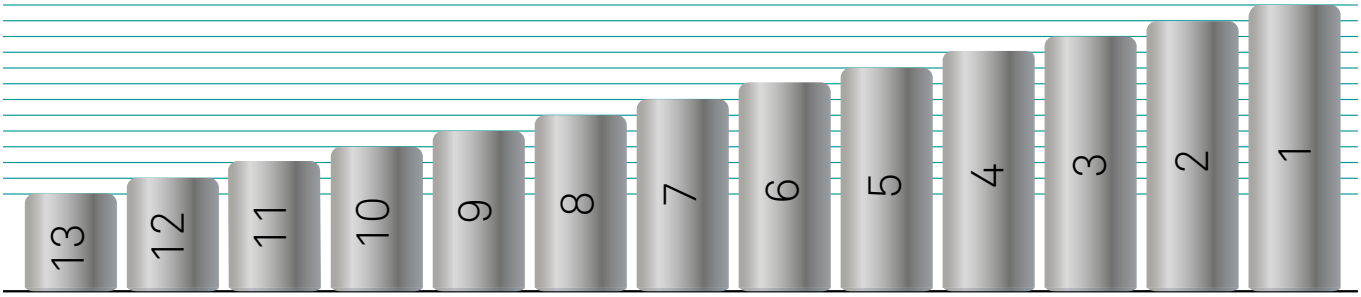


code	description
MM-F-FPCLEV5	Elevate 5

Innovation and safety

13 Millimeter stops for a safe clinical procedure.

code	description
MM-F-STELEV1	Stop 1
MM-F-STELEV2	Stop 2
MM-F-STELEV3	Stop 3
MM-F-STELEV4	Stop 4
MM-F-STELEV5	Stop 5
MM-F-STELEV6	Stop 6
MM-F-STELEV7	Stop 7
MM-F-STELEV8	Stop 8
MM-F-STELEV9	Stop 9
MM-F-STELEV10	Stop 10
MM-F-STELEV11	Stop 11
MM-F-STELEV12	Stop 12
MM-F-STELEV13	Stop 13



Magnetic Mallet | Crown remover

Removes bridges and crowns with the help of magneto dynamics

A handpiece that exploits the power and control of magneto dynamics to develop a perfectly longitudinal tradition that allows you to remove bridges and crowns in a very short time.

code	description
MAGNETICMALLET-LC	Manipolo Levacorone

Summary code table

code	description
MMPLUS-NEW	Magnetic mallet including pedal and plus handpiece
MM-MAN-PLUS	Plus Handpiece Mallet
	Osteotomes
MM-F-100PC	Osteotome curved tip, flanged
MM-F-100C	Osteotome curved tip 1.0 mm, flanged
MM-F-160C	Osteotome curved tip 1.6 mm, flanged
MM-F-200C	Osteotome curved tip 2.0 mm, flanged
MM-F-230C	Osteotome curved tip 2.3 mm, flanged, stepped tip
MM-F-300C	Osteotome curved tip 3.0 mm, flanged
MM-F-330C	Osteotome curved tip 3.3 mm, flanged
MM-F-360C	Osteotome curved tip 3.6 mm, flanged, stepped tip
	Extractors
MM-F-EXTR1C	Extractor, curved, flanged
MM-F-EXTR2C	Short Extractor, curved, flanged
MM-F-EXTR3C	LongExtractor, curved, flanged
MM-F-EXTR4C	Extractor, curved, flanged
MM-F-EXTR5C	Curved rounded tip extractor, flanged, for eighths
	Expanders
MM-F-EXP1C	Bone expander Scalp. 2.0 mm,curved, flanged
MM-F-EXP2C	Bone expander Scalp. 3.5 mm, curved, flanged
MM-F-EXP3C	Bone expander curved 3.3 mm, flanged
MM-F-CUTC	Curved blade tool, flanged
MM-F-SPLIT1C	Split Crest starter blade, curved
MM-F-PBD	Beaver holder (1 SM64 blade included)
	First
MM-F-FIRST	Engraver First lanceolate tip, ø 1.8 mm
	Osteotomes Genoa
MM-F-GENOA1	Genoa 1 instrument, curved osteotome with cutting blade, 2 mm tip thickness, offset handle
MM-F-GENOA2	Genoa 2 instrument, curved cutting blade osteotome, tip thickness from 2.7 mm to 3.3 mm, offset handle
MM-F-GENOA3	Genoa 3 instrument, curved cutting blade osteotome, tip thickness from 2.7 mm to 3.3 mm, offset handle
	Osteotomes Black Ruby
MM-F-FPCBLKR1	Osteotome Black Ruby R1, max ø 2.49 mm, curved, DLC coated, with millimetre stop, offset handle
MM-F-FPCBLKR2	Osteotome Black Ruby R2, max ø 2.83 mm, curved, DLC coated, with millimetre stop, offset handle
MM-F-FPCBLKR3	Osteotome Black Ruby R3, max ø 3.33 mm, curved, DLC coated, with millimetre stop, offset handle
MM-F-FPCBLKR4	Osteotome Black Ruby R4, max ø 3.83 mm, curved, DLC coated, with millimetre stop, offset handle
MM-F-FPCBLKR5	Osteotome Black Ruby R5, max ø 4.33 mm, curved, DLC coated, with millimetre stop, offset handle
	Osteotomes Elevate
MM-F-FPCELEV1	Osteotome Elevate 1, curved, millimeter stop, offset handle
MM-F-FPCELEV2	Osteotome Elevate 2, max ø 2.63 mm, curved, with millimetre stop, offset handle
MM-F-FPCELEV3	Osteotome Elevate 3, max ø 3.03 mm, curved, with millimetre stop, offset handle
MM-F-FPCELEV4	Osteotome Elevate 4, ø max 3,07 mm, curved, with millimetre stop, offset handle
MM-F-FPCELEV5	Osteotome Elevate 5, max ø 3.40 mm, curved, with millimetre stop, offset handle
	Stops Elevate
MM-F-STELEV1	Millimetres Stop 1
MM-F-STELEV2	Millimetres Stop 2
MM-F-STELEV3	Millimetres Stop 3
MM-F-STELEV4	Millimetres Stop 4
MM-F-STELEV5	Millimetres Stop 5
MM-F-STELEV6	Millimetres Stop 6
MM-F-STELEV7	Millimetres Stop 7
MM-F-STELEV8	Millimetres Stop 8
MM-F-STELEV9	Millimetres Stop 9
MM-F-STELEV10	Millimetres Stop 10
MM-F-STELEV11	Millimetres Stop 11
MM-F-STELEV12	Millimetres Stop 12
MM-F-STELEV13	Millimetres Stop 13
	Crown remover
MAGNETICMALLET-LC	Crown remover
	Tray
MM-VASSOIO	Empty autoclavable instrument tray

rev. 11-24

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