WHAT IS THE TECHNOLOGY BEHIND THE MAGNETIC MALLET?

1. 5,000G's of acceleration.
3. Advanced electronic controller that allows the doctor to easily control the forces with the simple turn of a dial.

All this means that much more force is delivered just where the doctor needs it in a fraction of time as compared to using manual tools.

The graph shows the difference between the use of a hand mallet (purple line) and the Magnetic Mallet (blue line with standard handpiece at Force 4). It is 40 decaNewton (Magnetic Mallet) applied in micro-seconds. It is force that allows the doctor to implement the procedures in a rapid, conservative and minimally invasive way. It doesn’t cut or drill, it conserves the bone and does not increase bone temperature.

01: comparison of applied forces (daN/μs) : Magnetic Mallet Level 1, 2, 3, 4 VS Manual Surgical Hammer
Tests conducted at CNR – Centro Nazionale di Ricerca – University of Milan – MIUR

01
CONSERVATIVE
It moves, replaces, re-shapes and condenses the bone. It never removes the bone, leaving soft tissues untouched.

02
SPEED
The magneto-dynamic impulse delivers much more force than manual tools. This means increased effectiveness during a procedure.

03
PRECISION
The kinetic energy forces are delivered precisely to the treatment area limiting dispersion to the craniofacial mass. This level of precision provides more comfort for the patient during the procedure.
WHAT YOU CAN DO WITH THE MAGNETIC MALLET

GUIDED SURGERY
CROWN REMOVAL
IMPLANT PLACEMENT
OSSEODENSIFICATION

SINUS LIFT
RIDGE SPLIT
PIN FIXATION SYSTEM
EXTRACTION
EXTRACTION
RIDGE
SPLIT
IMPLANT
PLACEMENT
EASY-IN KIT
ACCESSORIES
GUIDED
SURGERY
HANDPIECE
PLUS
All extractors are supplied in the curved version within the kit.

EXTRACTION KIT

CLINICAL CASES

EXTR1
SHARP AND RESISTANT

EXTR2
CONCAVE PROFILE
REDUCED HEIGHT

EXTR3
CONCAVE PROFILE
TOTAL HEIGHT

EXTR4
THIN LEVER
3rd MOLARS LUXATION

EXTR5
THICK LEVER
3rd MOLARS LUXATION
RIDGE SPLIT KIT

Available in straight and curved versions

FIRST INVITATION IN THE CREST

INITIAL EXPANDER

EXPANDER 1

EXPANDER 2

EXPANDER 3
WITH DISPLACER SIDE AND THE PASSIVE SIDE

UPPER RIGHT

UPPER LEFT

FOR MANDIBLE

SPLIT

CUT

EXP1

EXP2

EXP3

GENOA 1

GENOA 2

GENOA 3

CLINICAL CASES

RANGE OF INSTRUMENTS
OSTEOTOME KIT

CLINICAL CASES

FIRST
Engraver

100-P
SHARP TIP

Ø APICAL = 1,0
Ø CORONAL = 3,1

100

Ø APICAL = 1,0
Ø CORONAL = 3,1

160

Ø APICAL = 1,6
Ø CORONAL = 3,7

200

Ø APICAL = 2,0
Ø CORONAL = 3,9

230

Ø APICAL = 2,3
Ø CORONAL = 4,5

300

Ø APICAL = 3,0
Ø CORONAL = 5,0

330

Ø APICAL = 3,3
Ø CORONAL = 5,0

360

Ø APICAL = 3,6
Ø CORONAL = 5,5

Available in straight and curved versions

RANGE OF INSTRUMENTS
DEDICATED OSTEOTOMES FOR YOUR IMPLANT PARTNER

CHECK THE AVAILABLE IMPLANT LINES

CLINICAL CASES

RANGE OF INSTRUMENTS

Founders

Claudio De Giglio
Manuel Scali
Designed by Dr Luca Arduini
& Drs Daiana Zuccaro

Sharp and concave tip

ANTERIOR MAXILLA KIT
STRAIGHT OSTEOTOMES

POSTERIOR MAXILLA KIT
CURVED OSTEOTOMES
GUIDED SURGERY

Plan precisely and accurately the insertion of osteotomes to overcome anatomical limits and improve the positioning of the implant fixture.

GUIDED SINUS LIFT ELEVATION
**Easy-Pin**

**FOR OSTEOSYNTHESIS**

Complete system for easy insertion of surgical TACKS. A practical aid in oral surgery for mesh and membrane fixation.

**STARTER KIT**

- AUTOCLAVABLE BOX
- CURVED INSERTERS
- TACKS HOLDER
- 5 PIN h 2.7
- 5 PIN h 3.1

**AVAILABLE HEIGHTS:**

2.7 – 3.1 – 3.5

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**THE CROWN REMOVER**

The **Crown Remover** is an accessory of the Magnetic Mallet that develops longitudinal traction.

Also in this case the forces are applied with such an acceleration that prevents them from dispersing, causing inertias that are dangerous for the integrity of the elements to be removed.
PRE-CONFIGURED KITS

OSTEOTOMES KIT
5 STRAIGHT AND 5 CURVED INSTRUMENTS

EXTRACTION KIT
5 CURVED INSTRUMENTS

RIDGE SPLITTING KIT
5 STRAIGHT AND 5 CURVED INSTRUMENTS

KITS SUPPLIED WITH STANDARD CONFIGURATION OF THE MAGNETIC MALLET
The Handpiece Plus allows the delivery of a calibrated pulse which results in force levels 30% greater as compared to the regular handpiece.

Mallet Reload
Handpiece Plus
25 Instruments
Extraction, Osteotomes Implantology, Horizontal Expansion
Meta Ergonomica, located in Turbigo (MI), Italy, has developed and patented the use of magneto-dynamic forces in oral surgery. Its mission is to design and manufacture medical devices that allow implementation of procedures in controlled, precise and conservative manner.

Meta Ergonomica is ISO13485:2016 certified by Tuv Rheinland S.r.l. (1936) and by FDA.
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