

→ PIEZOSURGERY[®] MEDICAL
SURGICAL INSERTS

SURGICAL INSERTS

→ EXCELLENCE IN QUALITY



Intraoperative advantages and postoperative benefits are dependant on the quality of the osteotomies performed. Passion, dedication, and expertise are at the forefront of our insert production process.

We use only medical grade stainless steel in the production of Mectron inserts. Every single ultrasonic insert has to pass 12 working steps before it is ready to bear our name.



watch the inserts
development process!

→ HOW ARE THE INSERTS DEVELOPED AND PRODUCED?

Our inserts are made in Italy, in our
production site based in the Liguria Region.

SURGICAL INSERTS

→ EXCELLENCE IN VARIETY

Osteotomy, Osteoplasty, Drilling, Finishing – PIEZOSURGERY® medical inserts cover a vast variety of surgical needs. Whatever your choice is, there is one thing they all have in common: they offer the best performance you will find on the market.

Based on the specific surgical application, each insert is designed to work with a specific handpiece: standard or plus, that differ in terms of power and ergonomics.



Surgical inserts are SINGLE USE. This way each insert is always sharp and effective, ensuring each osteotomy is precise and accurate.

SURGICAL INSERTS

FOR STANDARD HANDPIECE

The standard handpiece has been designed to be used in osteotomies where precision and cutting control make the difference.

The “gray” handpiece features the widest range of inserts for all the four different bone cutting applications.



→ OSTEOTOMY

Surgical inserts of different shapes and dimensions, short and long, curved and angled, designed to perform osteotomies with the utmost safety even in difficult to reach surgical sites.

- Saw thickness from 0.35 to 0.6 mm
- Osteotomy depth up 20 mm



→ OSTEOPLASTY

Surgical inserts curved and angled, with sharp edges, for bone modeling and bone chip harvesting.



→ DRILLING

Surgical inserts to drill holes with very tight tolerance, minimizing the risk of bone necrosis.

- Head diameters from 0.8 to 1.8 mm



→ FINISHING

Surgical inserts of different shapes and dimensions, curved and angled, with heads of different shapes and with different diamond coatings, to finish the osteotomies in very delicate anatomies.



OSTEOTOMY SURGICAL INSERTS



→ **MT1-10**
Osteotomy micro saw
 Operative length: 10 mm
 Saw width: 4 mm
 Saw thickness: 0.55 mm

→ **MT1S-10**
Osteotomy micro saw
 Operative length: 10 mm
 Saw width: 3 mm
 Saw thickness: 0.35 mm

→ **MT1-20**
Osteotomy micro saw
 Operative length: 20 mm
 Saw width: 4 mm
 Saw thickness: 0.6 mm

→ **MT9-13**
Osteotomy micro saw
 Shank length: 10 mm
 Operative length: 13 mm
 Saw width: 3.3 - 4.4 mm
 Saw thickness: 0.35 mm

→ **UNIVR**
Round shape osteotomy micro saw
 Shank length: 30 mm
 Operative length: 5 mm
 Saw width: 4.5 mm
 Saw thickness: 0.5 mm

→ **MT6S-10**
Osteotomy micro saw
 Operative length: 10 mm
 Saw width: 4 mm
 Saw thickness: 0.35 mm

→ OSTEOTOMY SURGICAL INSERTS

STANDARD HANDPIECE



→ **MT2L-4**

Left angled micro saw
Operative length: 4 mm
Saw width: 4 mm
Saw thickness: 0.6 mm

→ **MT2R-4**

Right angled micro saw
Operative length: 4 mm
Saw width: 4 mm
Saw thickness: 0.6 mm

→ **MT1204**

Angled micro saw
Operative length: 3.5 mm
Saw width: 4.15 mm
Saw thickness: 0.55 mm

→ **MT11L-10**

Left angled micro saw
Operative length: 10 mm
Saw width: 4 mm
Saw thickness: 0.55 mm

→ **MT11R-10**

Right angled micro saw
Operative length: 10 mm
Saw width: 4 mm
Saw thickness: 0.55 mm

→ **MT7-3**

Osteotomy micro saw
Shank length: 33 mm
Operative length: 3 mm
Saw width: 3.5 mm
Saw thickness: 0.8 mm

→ OSTEOPLASTY SURGICAL INSERTS



→ MP1

Osteoplasty trapezoidal
Width at the top: 3 mm
Width at the bottom: 4 mm
Thickness: 0.8 mm



→ MP2

Osteoplasty circular
Shank length: 15 mm
Ø 4 mm
Thickness: 0.8 mm



→ MP3-a30

Osteoplasty circular scalpel
Shank length: 22 mm
Ø 2.4 mm
Scalpel angle: 30°



→ MP0705

Sharped semi sphere
Operative width: Ø 4.5
Operative length: 1.1 mm

→ DRILLING SURGICAL INSERTS

STANDARD HANDPIECE



→ MD2-08

**Micro-perforation
sharp cylinder insert**
Operative length: 12 mm
Ø 0.8 mm



→ MD2-10

**Micro-perforation
sharp cylinder insert**
Operative length: 12 mm
Ø 1.0 mm



→ MD3-14

**Micro-perforation
sharp cylinder insert**
Operative length: 12 mm
Ø 1.4 mm



→ MD3-18

**Micro-perforation
sharp cylinder insert**
Operative length: 12 mm
Ø 1.8 mm

FINISHING SURGICAL INSERTS



→ MF1

Diamond flap scalpel
Length: 4 mm
Width: 2.9 mm
Thickness: 1 mm

→ MF2

Diamond cylinder insert
Operative length: 12 mm
Ø 2.4 mm

→ MF3

Diamond ball insert
Operative length: 9 mm
Ø 1.7 mm

→ MF4

Diamond conic insert
Operative length: 10 mm
Ø 1.4 > 0.6 mm

→ MF5

Diamond truncated cone insert
Operative length: 20 mm
Ø 2.8 > 2.2 mm

→ MF6

Blunt cone compressor
Operative length: 15 mm
Ø 5 mm

SURGICAL INSERTS

FOR PLUS HANDPIECE

The plus handpiece has been designed to be used in osteotomies of highly mineralized bone, where more power and precision are required. The “black” handpiece features different type of inserts for all the four different bone cutting applications. Long inserts with an extension and a cover to preserve delicate structures and soft tissues are available.

→ OSTEOTOMY

Surgical inserts of different shapes and dimensions, short and long, curved and angled, designed to perform osteotomies with the utmost safety even in difficult to reach surgical sites.

- Saw thickness from 0.35 to 0.6 mm
- Osteotomy depth up to 20 mm
- Shank length up to 10 cm



→ OSTEOPLASTY

Surgical inserts short and long, curved and angled, with sharp edges, for bone modeling and bone chip harvesting.

- Shank length up to 10 cm



→ FINISHING

Surgical inserts with diamond coating, to finish the osteotomies in very delicate anatomies.



→ OSTEOTOMY SURGICAL INSERTS



→ MT4-10 +

Osteotomy micro saw
Operative length: 10 mm
Saw width: 4 mm
Saw thickness: 0.55 mm

→ MT4-20 +

Osteotomy micro saw
Operative length: 20 mm
Saw width: 4 mm
Saw thickness: 0.55 mm

→ MT10-20+

Osteotomy micro saw
Operative length: 20 mm
Saw width: 4 mm
Saw thickness: 0.5 mm

→ MT1412+

Osteotomy micro saw
Operative length: 20 mm
Saw width: 4 mm
Saw thickness: 0.55 mm

→ OSTEOTOMY SURGICAL INSERTS



→ MT8-20 L

Long osteotomy micro saw
 Operative length: 20 mm
 Saw width: 4 mm
 Saw thickness: 0.45 mm
 Shank length: 117 mm



→ MT5-10 L

Long osteotomy micro saw
 Operative length: 10 mm
 Saw width: 3 mm
 Saw thickness: 0.55 mm
 Shank length: 106 mm



OSTEOPLASTY SURGICAL INSERTS



→ MP4 +

Osteoplasty circular
Shank length: 10 mm
Ø 4 mm
Edge thickness: 0.33 mm



→ MP5 L

Long osteoplasty circular
Insert shank length: 10 mm
Ø 4 mm
Edge thickness: 0.33 mm
Shank length: 98 mm



→ MP6 L

Long osteoplasty trapezoidal
Insert shank length: 6 mm
Edge thickness: 0.28 mm
Scalpel angle: 45°
Shank length: 112 mm

→ FINISHING SURGICAL INSERTS



→ MF0702+
Diamond ball insert
Operative length: 10.2 mm
Ø 1.5 mm



ARE YOU INTERESTED IN LEARNING
MORE ABOUT HOW EACH INSERT IS
USED IN SURGICAL APPLICATIONS?

Scan or click the QR code

PIEZOSURGERY® IN PRACTICE

mectron

medical technology



YOUTUBE



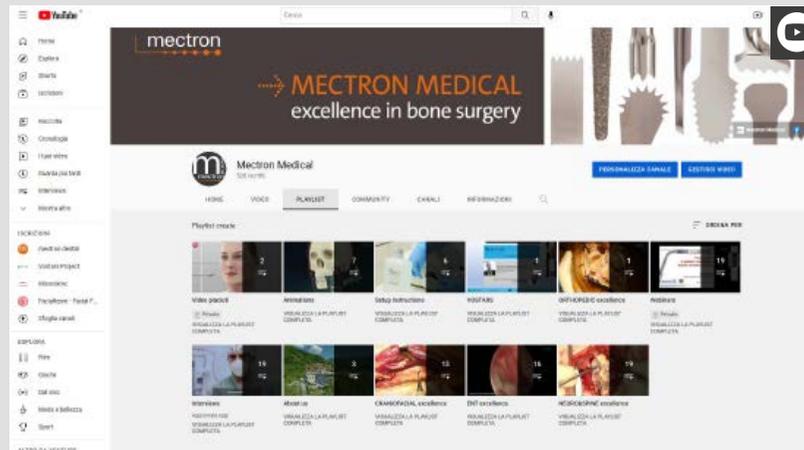
FACEBOOK



LINKEDIN

Do you want to find out more about clinical protocols and experiences of surgeons who already collaborate with us? Discover the world of PIEZOSURGERY® and join the community on our social channels and website. You will have at your disposal:

- CLINICAL ANIMATIONS
- SURGICAL PROTOCOLS
- WEBINARS
- USERS TESTIMONIAL



Mectron Medical
581 followers
4m +

An outstanding surgery have been carried out at Spedali Civili in Brescia by Stefano Negri MD. A severe case of TMJ bilateral Psoriatic Arthritis was treated, implanting a bilateral total temporomandibular joint prosthesis. ...vedi altro

Vedi traduzione

PIEZOSURGERY®

mectron
medical technology

NEURO-SP
EXCELLEN

27th ESPN - MECTRON'S SATELLITE SYMPOSIUM
April 26th 2021 | 12.45 - 13.45 (EEST)

Pediatric neurosurgery approaches | Experience PIEZOSURGERY

Topic: endoscopic approaches
Topic: orbital approaches
Topic: Laminotomies for neoplasms and malformations



DISCOVER MORE!

PIEZOSURGERY® DEVICES

→ EXCELLENCE IN BONE SURGERY

PIEZOSURGERY® *plus* is the complete device: it is engineered to support an expansive range of surgical applications.

→ COMPLETE

- Power joins precision in two handpieces
- High efficiency
- Cutting-edge technology



→ SURGICAL APPLICATIONS

- ORAL/MAXILLOFACIAL SURGERY
- OTOLARYNGOLOGY
- PLASTIC/RECONSTRUCTIVE
- HAND SURGERY
- FOOT SURGERY
- NEUROSURGERY
- SPINE SURGERY
- ORTHOPEDICS
- THORACIC SURGERY

→ PIEZOSURGERY® *plus* 05170003

→ PIEZOSURGERY® plus

→ PIEZOSURGERY® flex

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PIEZOSURGERY® *flex* is the essential device: with its perfect control, precision and ease of use it is your perfect start into an new era of bone surgery

→ ESSENTIAL

- Control joins precision in one handpiece
- Compact and portable
- Easy to use



→ PIEZOSURGERY® flex 05170002



→ PRODUCTS

→ ACCESSORIES

Handpiece for plus channel	03120243
Torque wrench for plus channel	02900116
Torque wrench for extension of long inserts	02900115
Handpiece for standard channel	03120127
Torque wrench for standard channel	02900080
Irrigation kit single use (box of 10 units)	03230008
Trolley-case	04440018
Cart	03540009

→ CONTAINERS FOR STERILIZATION OF HANDPIECE AND TORQUE WRENCH

Container for sterilization completed with cover with valve	02900173
Tray for sterilization completed with cover	02900172
Thermodisinfection adaptor for handpiece	04610008
Filter for thermodisinfection adaptor	04590006

→ SPARE PARTS

Power-supply cable	00050020
Footswitch for PS <i>plus</i>	04620004
Peristaltic pump	03210006
Drip stands for saline bag	01380002
Metal cone for standard handpiece	00710034
Metal cone for plus handpiece	00710090
Protection for standard handpiece's connector	03150086
Protection for plus handpiece's connector	00690022

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