

PIEZOSURGERY® MEDICAL SURGICAL INSERTS



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.



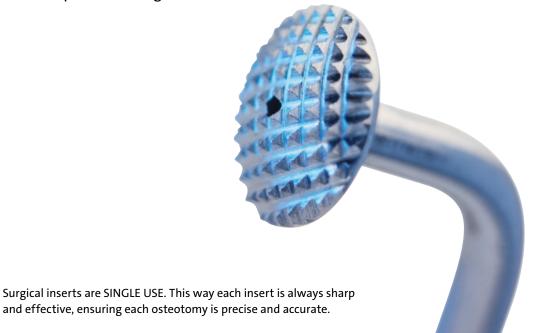
watch the inserts development process!

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



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

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.



---> 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.





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OSTEOTOMY SURGICAL INSERTS

Saw width: 3.8 mm

Saw thickness: 0.55 mm

Saw width: 3 mm

Saw thickness: 0.35 mm



Operative length: 12 mm

Saw width: 3.3 - 4.4 mm

Saw thickness: 0.35 mm

Saw width: 3.8 mm

Saw thickness: 0.6 mm

Saw width: 3.6 mm

Saw thickness: 0.35 mm

Length insert: 41.9 mm

Operative length: 5 mm

Saw width: 4.5 mm Saw thickness: 0.5 mm

OSTEOTOMY SURGICAL INSERTS



Left angled micro saw Operative length: 4 mm Saw width: 3.8 mm Saw thickness: 0.6 mm

Right angled micro saw Operative length: 4 mm Saw width: 3.8 mm Saw thickness: 0.6 mm

Angled micro saw Operative length: 3.5 mm Saw width: 4.2 mm Saw thickness: 0.55 mm

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 Length insert: 44.6 mm Operative length: 3 mm Saw width: 3.6 mm Saw thickness: 0.8 mm





OSTEOPLASTY SURGICAL INSERTS



---> MP1

Osteoplasty trapezoidal scalpel Length insert: 27.6 mm

Operative length: 2.4 mm Saw width: 2.8>3.7 mm Saw thickness: 0.8 mm



----> MP2

Osteoplasty circular scalpel

Length insert: 27.3 mm Operative length: 4 mm Saw width: 3.9 mm Saw thickness: 0.8 mm



---- MP3-a30

Osteoplasty circular scalpel Length insert: 35.6 mm Operative length: 3 mm Saw width: 2.4 mm Saw thickness: 0.8 mm

Operative angle: 29°



----> MP0745

Sharped semi sphere

Operative length: 1.1 mm Saw width: Ø 4.5 mm

--- DRILLING SURGICAL INSERTS



----> 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



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FINISHING SURGICAL INSERTS



---> MF1

Diamond coated flap scalpel
Operative length: 3 mm
Operativel width: 3.7 mm
Operative thickness: 0.85 mm
Diamond grit size (µm): D91

----> MF2

Diamond cylinder insert Operative length: 5.3 mm Operativel width: Ø 2.4 mm Diamond grit size (μm): D151



---> MF3

Diamond ball insert Operative length: 1.7 mm Operativel width: Ø 1.7 mm Diamond grit size (µm): D91



---- MF4

Diamond conic insert
Operative length: 10 mm
Operativel width: Ø 0.6>1.5 mm
Diamond grit size (μm): D30

---- MF5

Diamond truncated

cone insert
Operative length: 13 mm
Operativel width: 2.1>2.7 mm
Operative thickness: 1.1>1.9 mm
Diamond grit size (µm): D126



Blunt cone compressor Operative length: 0.5 mm Operativel width: 4.2 mm

SURGICAL INSERTS

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 20 mm

--- 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

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











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OSTEOTOMY SURGICAL INSERTS



Saw width: 4.2 mm

Saw thickness: 0.55 mm

Saw width: 3.3>4.4 mm

Saw thickness: 0.35 mm

Saw width: 4.2 mm

Saw thickness: 0.55 mm

Saw width: 4.1 mm

Saw thickness: 0.55 mm

OSTEOTOMY SURGICAL INSERTS







OSTEOPLASTY SURGICAL INSERTS



Osteoplasty circular scalpel Operative length: 4 mm

---- MP4 +

Saw width: 3.9 mm Saw thickness: 0.8 mm



---- MP6 L

scalpel Operative length: 6.4 mm Saw width: 3 mm Saw thickness: 0.9 mm Total length insert + extension:



FINISHING SURGICAL INSERTS



---- MF0702 +

Diamond coated ball insert Operative length: 10.2 mm Ø 1.7 mm Diamond grit size (µm): D90



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

Scan or click the QR code



PIEZOSURGERY® IN PRACTICE





YOUTUBE



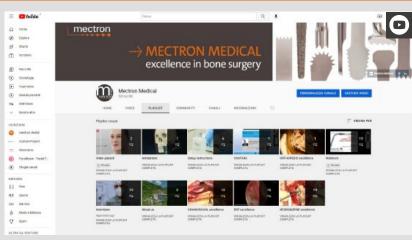
FACEBOOK





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





(in)





Piezosurgery*



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| 26th 2021 | 12.45 - 13.45 (EEST)



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

Piezosurgery®



ORAL/MAXILLOFACIAL SURGERY

OTOLARYNGOLOGY

PLASTIC/RECONSTRUCTIVE

HAND SURGERY

FOOT SURGERY

NEUROSURGERY

SPINE SURGERY

ORTHOPEDICS

THORACIC SURGERY





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



medical technology



-----> 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

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





→ SURGICAL INSERTS → STANDARD HANDPIECE 03120127 → PLUS HANDPIECE 03120243 OSTEOTOMY MT1-10 03600001 MT4-10 + 03600010

OSTEOTOMY	W11-10	03600001
	MT1S-10	03600007
	MT1-20	03600002
	MT1204	03600019
•••••	MT2R-4	03600003
•••••	MT2L-4	03600004
••••••	UNIVR	03600008
	MT6S-10	03600011
	MT7-3	03600012
	MT9-13	03600016
OSTEOPLASTY	MP1	03610001
	MP2	03610002
	MP3-a30	03610003
	MP0745	03610003
	WF 0745	03010010
DRILLING		02620010
DRILLING		03620010
	MD2-10	03620004
	MD3-14	03620006
	MD3-18	03620008
FINISHING	MF1	03630001
	MF2	03630002
	MF3	03630003
	MF4	03630004
	MF5	03630005
	MF6	03630006
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MT4-10 +	03600010
MT5-10 L	03600009
MT8-20 L	03600013
MT4-20 +	03600014
MT10-20 +	03600015
MT1412 +	03600020
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MP4 +	03610007
MP5 L	03610008
MP6 L	03610009



mectron s.p.a. via Loreto 15/A, 16042 Carasco (Ge), Italy tel +39 0185 35361, fax +39 0185 351374

www.mectron.com – piezosurgery@mectron.com







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