PIEZOSURGERY® MEDICAL
SURGICAL INSERTS
PEIZOSURGERY® MEDICAL

THE WIDEST RANGE

PEIZOSURGERY® plus is the complete device: it comes with nearly every surgical possibility, from maxillofacial surgery to neurosurgery.

> COMPLETE

→ Power joins precision
→ High efficiency
→ High level technology
PIEZOSURGERY® flex is the essential device: with its perfect control, precision and easy usability it is your perfect start into a new era of bone surgery.

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<th>PIEZOSURGERY® plus</th>
<th>PIEZOSURGERY® flex</th>
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<td>THORACIC SURGERY</td>
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</table>

- Control joins precision
- Compact and portable
- Easy to use
PIEZOSURGERY® medical

STANDARD HANDPIECE

- Superior intra-operative control and surgical sensitivity
- Maximum flexibility in creating osteotomy lines

The PIEZOSURGERY® medical handpiece, also define standard handpiece, can be used with both mecron medical devices: PIEZOSURGERY® plus (channel 1) and PIEZOSURGERY® flex.
PIEZOSURGERY® medical+ PLUS HANDPIECE

→ Maximum performance with highly mineralised bone
→ Maximum efficiency through all the cutting depth

→ TO BE USED WITH PIEZOSURGERY® plus
The PIEZOSURGERY® medical+ handpiece, also define plus handpiece, can be used with PIEZOSURGERY® plus device (channel 2).

→ TO BE USED ALSO WITH LONG INSERTS
The PIEZOSURGERY® medical+ handpiece can be also used with long inserts, provided with an extension and a cover to preserve delicate structures and soft tissues. Long inserts allow to perform surgeries in anatomic sites hardly reached with short inserts.
Confer raw surgical tips the necessary hardness, corrosion resistance and elastic response to vibration.

THERMAL TREATMENTS
Each surgical insert is laser marked. The code is engraved on the shaft of the surgical tips for superior safety.

MARKING
Surgical inserts are individually checked throughout the manufacturing process. Checks range from dimensional control of the rough insert to visual inspection of final package.

QUALITY CONTROL

During surgery, an ultrasonic insert oscillates up to 36,000 times per second.

That’s why we use only medical grade stainless steel in the production of mectron inserts – and why every single ultrasonic insert has to pass 12 working steps before it is ready to bear our name.

A proprietary CNC 5-dimensions sharpening machine cuts with an accuracy of up to 0.1 μm. Depending on the surgical indication, specific surface treatments are made, which include diamond coating with diamonds of different granulometries.
Osteotomy, Osteoplasty, Drilling, Finishing – PIEZOSURGERY® *medical* inserts cover a vast variety of surgical needs. And whatever your choice is, there is one thing they all have in common: they offer the best performance you will find in the market.

Surgery performed by: Prof. P.F. Nocini, Prof. D. Bertossi and Dr. M. Albanese, Unit of MaxilloFacial Surgery, University Hospital, Verona, Italy
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Recommended</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pediatric Frontal &amp; Skull Reshaping</strong></td>
<td>RECOMMENDED</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STD HP</td>
<td>PLUS HP</td>
</tr>
<tr>
<td>MT1-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pediatric Frontal &amp; Skull Reshaping</strong></td>
<td>ONO</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STD HP</td>
<td>PLUS HP</td>
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<tr>
<td>MT1S-10</td>
<td></td>
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</tr>
<tr>
<td>MT6S-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Endoscopic Transsphenoidal Surgery</strong></td>
<td>RECOMMENDED</td>
<td></td>
</tr>
<tr>
<td>(anterior skull base surgery)</td>
<td>PLUS HP</td>
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<tr>
<td>MP6 L</td>
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<tr>
<td>MT8-20 L</td>
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<td><strong>Endoscopic Transsphenoidal Surgery</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(anterior skull base surgery)</td>
<td></td>
<td>PLUS HP</td>
</tr>
<tr>
<td>MT1-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MT4-10 +</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Endoscopic Transsphenoidal Surgery</strong></td>
<td></td>
<td>PLUS HP</td>
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<tr>
<td>(anterior skull base surgery)</td>
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<tr>
<td>MT1-10</td>
<td></td>
<td>PLUS HP</td>
</tr>
<tr>
<td>MT4-10 +</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Endoscopic Transsphenoidal Surgery</strong></td>
<td></td>
<td>PLUS HP</td>
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<tr>
<td>(anterior skull base surgery)</td>
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<td>MT1-20</td>
<td></td>
<td>PLUS HP</td>
</tr>
<tr>
<td>MT6S-10</td>
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<td></td>
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</table>

* STD HP: standard handpiece
  PLUS HP: plus handpiece
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Recommended</th>
<th>Optional</th>
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</thead>
<tbody>
<tr>
<td>Open Door Laminoplasty</td>
<td>MT4-10 +</td>
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</tr>
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<td></td>
<td>MP4 +</td>
<td></td>
</tr>
<tr>
<td>Osteophyte Resection (ACDF)</td>
<td>MT4-10 +</td>
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</tr>
<tr>
<td></td>
<td>MP4 +</td>
<td></td>
</tr>
<tr>
<td>Cervical Corpectomy</td>
<td>MT4-10 +</td>
<td></td>
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<tr>
<td></td>
<td>MP4 +</td>
<td></td>
</tr>
<tr>
<td>Laminotomy - Hemylaminotomy</td>
<td>MT4-10 +</td>
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</tr>
<tr>
<td></td>
<td>MT8-20 L</td>
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<tr>
<td>Laminctomy</td>
<td>MT4-10 +</td>
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<tr>
<td></td>
<td>MT8-20 L</td>
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<tr>
<td>Foraminotomy - Facetectomy</td>
<td>MT4-10 +</td>
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<tr>
<td></td>
<td>MT5-10 L</td>
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</table>
## ENT SURGERY

### TRANSNASAL ENDOSCOPIC

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Status</th>
<th>MP3 - a30</th>
<th>MP4 -</th>
<th>MP5 L</th>
<th>MP6 L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dacryocysto-rhinostomy</td>
<td>RECOMMENDED</td>
<td></td>
<td>PLUS HP</td>
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<tr>
<td>Frontal sinus opening</td>
<td>RECOMMENDED</td>
<td></td>
<td>MP5 L</td>
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<tr>
<td>Sphenoidotomy</td>
<td>RECOMMENDED</td>
<td></td>
<td>PLUS HP</td>
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<tr>
<td>Endoscopic transsphenoidal surgery</td>
<td>RECOMMENDED</td>
<td></td>
<td>PLUS HP</td>
<td></td>
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<tr>
<td>Decompression (orbital, optic nerve, internal carotid artery)</td>
<td>RECOMMENDED</td>
<td></td>
<td>PLUS HP</td>
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</tbody>
</table>

### EAR

<table>
<thead>
<tr>
<th>Procedure</th>
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<th>MP3 - a30</th>
<th>MP4 -</th>
<th>MP5 L</th>
<th>MP6 L</th>
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</thead>
<tbody>
<tr>
<td>Endoscopic ear surgery*</td>
<td>OPTIONAL</td>
<td></td>
<td>PLUS HP</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*atticotomy.
**HEAD & NECK SURGERY**

- **CLOSE CAVITY TECHNIQUE**
  - Recommended
  - Plus HP
  - MP4 +

- **OPEN CAVITY TECHNIQUE**
  - Recommended
  - Plus HP
  - MP4 +

- **DECOMPRESSION**
  - Recommended
  - Plus HP
  - STD MP3 - a30

- **MANDIBLECTOMY**
  - Recommended
  - Plus HP
  - MT1-10

- **MANDIBULECTOMY**
  - Recommended
  - Plus HP
  - MT4-10 +

- **MAXILLECTOMY**
  - Recommended
  - Plus HP
  - MT1-10

- **EXPECTED HP**
  - Std HP
  - MP3 - a30

- **OPTIONAL**
  - Plus HP
  - MP4 +

---

*canalplasty, antrotomy, posterior tympanotomy.

*exposure of facial nerve and semicircular canals.
MAXILLOFACIAL SURGERY

ORTHOGNATHIC

→ RECOMMENDED
SAGITTAL SPLIT OSTEOTOMY

MT1-10 MT4-10 +

→ RECOMMENDED
LE FORT I OSTEOTOMY

MT1-10 MT4-10 +

→ RECOMMENDED
CHIN OSTEOLOGY

MT1-10 MT4-10 +

→ RECOMMENDED
RHINOPLASTY

MT7-3 MP2

→ RECOMMENDED
CONDILECTOMY / EMINECTOMY

MT1-10 MT4-10 +

→ RECOMMENDED
MANDIBULAR ANGLE OSTEOTOMY

MT2R-4

→ OPTIONAL
SAGITTAL SPLIT OSTEOTOMY

STD HP PLUS HP

MT1-10 MT4-10 +

→ OPTIONAL
LE FORT I OSTEOTOMY

STD HP PLUS HP

MT1-10

→ OPTIONAL
CHIN OSTEOLOGY

STD HP PLUS HP

MT1-10

→ OPTIONAL
RHINOPLASTY

STD HP

MT7-3 MP2

→ OPTIONAL
CONDILECTOMY / EMINECTOMY

STD HP

MT1-10

→ OPTIONAL
MANDIBULAR ANGLE OSTEOTOMY

STD HP

MT2L-4

→ OPTIONAL
UNIVR

MT2R/L-4

MT1-20

MT6S-10

*MT7-3/UNIVR (open/close approach), MP2 (gibbotomy), MT15-10 (percutaneous approach).
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Recommended</th>
<th>Optional</th>
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<tbody>
<tr>
<td>Maxillary Sinus Lift Technique</td>
<td>MT3-8</td>
<td>MF1, MF6</td>
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<tr>
<td>Osteotomy Close to Delicate Structures (nerv, vessels, dura mater)</td>
<td>MF1, MF3</td>
<td>MF1, MF3</td>
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<tr>
<td>Extraction</td>
<td>MT1-10</td>
<td>MT2R/L-4</td>
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<tr>
<td>Lateral Orbitotomy</td>
<td>MP2</td>
<td>MP2, MP6, MP2, MP6, L, MP6, L</td>
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<td>Orbital Decompression Transcutaneous Approach</td>
<td>MT1-10, MT4-10, MT1-10, MT4-10</td>
<td>MT1-10, MT4-10, MT1-10, MT4-10</td>
</tr>
</tbody>
</table>
HAND SURGERY

- INTERPHALANGEAL JOINT ARTHRODESIS
  - RECOMMENDED
    - MT1S-10
    - STD HP
  - OPTIONAL
    - MT1-10
    - STD HP

- INTERPHALANGEAL JOINT ARTHROPLASTIC
  - RECOMMENDED
    - MT1S-10
    - STD HP
    - MF2
  - OPTIONAL
    - MT1-10
    - STD HP

- PHALANX CORRECTIVE OSTEOTOMY
  - RECOMMENDED
    - MT1S-10
    - STD HP
  - OPTIONAL
    - MT1-10
    - STD HP
    - MF4
    - MF5

Piezosurgery®
## WRIST SURGERY

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<th>Procedure</th>
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<td>MT1-10</td>
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<tr>
<td>Four Corner Arthrodesis</td>
<td>MT1S-10</td>
<td>MT1-10</td>
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<tr>
<td>Exostosis/Osteophyte Excision</td>
<td>MT1-10</td>
<td>MT1-10</td>
</tr>
<tr>
<td>Radius Corrective Osteotomy</td>
<td>MT1S-10</td>
<td>MT1-10</td>
</tr>
<tr>
<td>Radius Total Wrist Arthrodesis</td>
<td>MT4-10+</td>
<td>MT1-10</td>
</tr>
</tbody>
</table>

**STD HP**

**PLUS HP**
RECONSTRUCTIVE SURGERY

- **CALVARIAN BONE GRAFTING**
  - **RECOMMENDED**
    - STD HP
    - MT1-10
  - **OPTIONAL**
    - STD HP
    - MT1S-10
    - MT2R/L-4
    - MP1
    - MF4

- **INTRAORAL BONE GRAFTING**
  - **RECOMMENDED**
    - STD HP
    - MT1S-10
    - MT1-10
    - MP2
  - **OPTIONAL**
    - STD HP
    - MP1
    - MF4

- **RADIUS BONE GRAFTING**
  - **RECOMMENDED**
    - STD HP
    - MT1S-10
    - MT1-10
    - MP1
  - **OPTIONAL**
    - STD HP
    - MT1S-10
    - MT1-10
    - MP2

- **ILIAC CREST BONE GRAFTING**
  - **RECOMMENDED**
    - STD HP
    - MT1S-10
    - MT1-10
    - MP1
  - **OPTIONAL**
    - STD HP
    - MT1S-10
    - MT1-10
    - MP2

- **FREE FIBULA FLAP BONE GRAFTING**
  - **RECOMMENDED**
    - STD HP
    - MT1S-10
    - MT1-10
    - MP1
  - **OPTIONAL**
    - STD HP
    - MT1S-10
    - MT4-10 +
    - MP2
### DRILLING SURGICAL INSERTS

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<th>Screw Diameter (mm)</th>
<th>Recommended/Optional</th>
<th>Insert Code</th>
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<tr>
<td>1.0</td>
<td>MD2-08</td>
<td>STD HP</td>
</tr>
<tr>
<td>1.3</td>
<td>MD2-08</td>
<td>STD HP</td>
</tr>
<tr>
<td>1.5</td>
<td>MD2-10</td>
<td>STD HP</td>
</tr>
<tr>
<td>2.0</td>
<td>MD3-14 (Maxilla)</td>
<td>STD HP</td>
</tr>
<tr>
<td>2.0</td>
<td>MD3-16 (Mandible)</td>
<td>STD HP</td>
</tr>
<tr>
<td>2.3</td>
<td>MD3-18</td>
<td>STD HP</td>
</tr>
<tr>
<td>2.7</td>
<td>MD3-18</td>
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<td>MD3-12</td>
<td>STD HP</td>
</tr>
<tr>
<td>18</td>
<td>MD3-18</td>
<td>STD HP</td>
</tr>
</tbody>
</table>
SURGICAL INSERTS
FOR STANDARD HANDPIECE

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

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 microsaw
Operative length: 10 mm
Saw width: 4 mm
Saw thickness: 0.55 mm

**UNIVR**
Round shape osteotomy microsaw
Shank length: 42 mm
Operative length: 5 mm
Saw width: 4.5 mm
Saw thickness: 0.5 mm

Surgery performed by: Dr. S. Stea and Dr. P. Biondi, Unit of MaxilloFacial Surgery, Maria Cecilia Hospital, Cotignola, Ravenna, Italy
OSTEOTOMY SURGICAL INSERTS

MT1S-10
Osteotomy microsaw
Operative length: 10 mm
Saw width: 3 mm
Saw thickness: 0.35 mm

MT1-20
Osteotomy microsaw
Operative length: 20 mm
Saw width: 4 mm
Saw thickness: 0.6 mm

Surgery performed by: Prof. D. Scopelliti and Dr. O. Cipriani, Unit of MaxilloFacial Surgery, University Hospital La Sapienza, Rome, Italy
**MT2L-4**

Left angled microsaw
- Operative length: 4 mm
- Saw width: 4 mm
- Saw thickness: 0.6 mm

**MT2R-4**

Right angled microsaw
- Operative length: 4 mm
- Saw width: 4 mm
- Saw thickness: 0.6 mm

Surgery performed by: Dr. P. Nordera, Unit of MaxilloFacial Surgery, San Bortolo Hospital, Vicenza, Italy
OSTEOTOMY SURGICAL INSERTS

**MT3-8**
Osteotomy flat scalpel
Operative length: 8 mm
Scalpel width: 1.4 > 2 mm
Scalpel thickness: 0.5 mm

**MT3-20**
Osteotomy flat scalpel
Operative length: 20 mm
Scalpel length: 10 mm
Scalpel width: 1.8 > 2.4 mm
Scalpel thickness: 0.6 mm

Surgery performed by: Prof. M.I. Rossello, Dr. E. Machi, Dr. E. Pamelin and Dr. A. Zoccolan, Unit of Hand Surgery, San Paolo Hospital, Savona, Italy
MT6S-10
Osteotomy microsaw
Operative length: 10 mm
Saw width: 4 mm
Saw thickness: 0.35 mm

MT7-3
Osteotomy microsaw
Shank length: 45 mm
Operative length: 3 mm
Saw width: 3.5 mm
Saw thickness: 0.8 mm
OSTEOPLASTY SURGICAL INSERTS

MP1
Osteoplasty trapezoidal
Shank length: 28 mm
Width at the top: 3 mm
Width at the bottom: 4 mm
Thickness: 0.8 mm

MP2
Osteoplasty circular
Shank length: 27 mm
Ø 4 mm
Thickness: 0.8 mm

MP3-a30
Osteoplasty circular scalpel
Shank length: 35 mm
Ø 2.4 mm
Scalpel angle: 30°

Surgery performed by: Prof. R. Bertolai, Unit of MaxilloFacial Surgery, CTO Hospital, Florence, Italy
DRILLING SURGICAL INSERTS

- MD2-08 Ø 0.8 mm
- MD2-10 Ø 1.0 mm
- MD3-12 Ø 1.2 mm
- MD3-14 Ø 1.4 mm
- MD3-16 Ø 1.6 mm
- MD3-18 Ø 1.8 mm

Micro-perforation sharp cylinder insert, Operative length: 12 mm

Surgery performed by: Dr. L. Calabrese, Unit of Oral – Oropharyngeal Surgery, IEO Hospital, Milan, Italy
FINISHING SURGICAL INSERTS

- **MF1**
  Diamond flap scalpel
  Operative length: 4 mm
  Scalpel 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

Surgery performed by: Prof. M.I. Rossello, Dr. E. Machi, Dr. E. Pamelin and Dr. A. Zoccolan, Unit of Hand Surgery, San Paolo Hospital, Savona, Italy
--- 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

Surgery performed by: Prof. R. Bertolai and Dr. C. Catelani, Unit of MaxilloFacial Surgery, CTO Hospital, Florence, Italy

Surgery performed by: Prof. T. Vercellotti, Genoa, Italy
SURGICAL INSERTS
FOR PLUS HANDPIECE

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

OSTEOTOMY

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
OSTEOTOMY SURGICAL INSERTS

MT4-10 +
Osteotomy microsaw
Operative length: 10 mm
Saw width: 4 mm
Saw thickness: 0.55 mm

MT5-10 L
Long osteotomy microsaw
Operative length: 10 mm
Saw width: 3 mm
Saw thickness: 0.55 mm
Total length: 106 mm

MT5-10 L
PARTS
→ **MT8-20 L**

Long osteotomy microsaw
Operative length: 20 mm
Saw width: 4 mm
Saw thickness: 0.45 mm
Total length: 117 mm
OSTEOPLASTY SURGICAL INSERTS

**MP4 +**

Osteoplasty circular
Shank length: 27 mm
Ø 4 mm
Thickness: 0.8 mm

**MP5 L**

Long osteoplasty circular
Insert shank length: 25 mm
Ø 4 mm
Thickness: 0.8 mm
Total length: 98 mm

**MP5 L PARTS**
MP6 L

Long osteoplasty trapezoidal
Insert shank length: 28 mm
Scalpel width: 3 mm
Thickness: 0.8 mm
Total length: 112 mm
PICTURE REFERENCES

NEUROSURGERY
Prof. G. Iannetti, University Hospital La Sapienza, Rome, Italy
Dr. M. Caldarelli, Gemelli Hospital, Rome, Italy
Dr. C. Guastella & Dr. M. Locatelli, Policlinic Hospital, Milan, Italy

SPINE SURGERY
Dr. M. Dobran, Ospedali Riuniti Hospital, Ancona, Italy
Dr. G. Catapano, G. Rummo Hospital, Benevento, Italy
Dr. G. Catapano, G. Rummo Hospital, Benevento, Italy
Dr. M. Dobran, Ospedali Riuniti Hospital, Ancona, Italy
Dr. F. Mussa, Meyer Hospital, Florence, Italy
Dr. G. Catapano, G. Rummo Hospital, Benevento, Italy

ENT
Prof. L. Presutti, Policlinic Hospital, Modena, Italy
Dr. F. Pagella, San Matteo Hospital, Pavia, Italy
Dr. F. Pagella, San Matteo Hospital, Pavia, Italy
Prof. L. Presutti, Policlinic Hospital, Modena, Italy
Dr. F. Pagella, San Matteo Hospital, Pavia, Italy
Prof. L. Presutti, Policlinic Hospital, Modena, Italy
PICTURE REFERENCES

Prof. T. Vercellotti,
Genoa, Italy

Prof. J.L. Béziat,
University Hospital of Lion, France

Prof. T. Vercellotti,
Genoa, Italy

Prof. J.L. Béziat,
University Hospital of Lion, France

Prof. L. C. Clauser, Dr. M. Galiè,
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Dr. A. Zoccolan, San Paolo Hospital, Savona, Italy

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Dr. A. Zoccolan, San Paolo Hospital, Savona, Italy
## PRODUCTS

### ACCESSORIES

<table>
<thead>
<tr>
<th>Item</th>
<th>PS plus 05170003</th>
<th>PS flex 05170002</th>
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<tr>
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<tr>
<td>TORQUE WRENCH FOR PLUS HANDPIE</td>
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<td>TORQUE WRENCH FOR EXTENSION*</td>
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<td>TORQUE WRENCH FOR STD HANDPIE</td>
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<td>CART</td>
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### CONTAINERS FOR STERILIZATION OF HANDPIECE AND TORQUE WRENCH

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<td>COVER OF THE TRAY</td>
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* LONG INSERTS: MTS-10 L (03600009), MPS L (03610008), MP6 L (03610009)
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### SURGICAL INSERTS

#### OSTEOTOMY

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STD HANDPIECE

STD HANDPIECE

**PS plus** 05170003

**PS flex** 05170002

STD HANDPIECE

STD HANDPIECE

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### SURGICAL INSERTS

#### OSTEOTOMY

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**PLUS HANDPIECE**

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**PS plus**

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