## CONTENT

<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTRODUCTION</td>
<td>3</td>
</tr>
<tr>
<td>ULTRASONICS</td>
<td>4-19</td>
</tr>
<tr>
<td>Piezotome Solo</td>
<td>8</td>
</tr>
<tr>
<td>Piezotome 2</td>
<td>10</td>
</tr>
<tr>
<td>Implant Center 2</td>
<td>12</td>
</tr>
<tr>
<td>Accessories</td>
<td>14</td>
</tr>
<tr>
<td>Summary</td>
<td>16</td>
</tr>
<tr>
<td>Bibliography</td>
<td>18</td>
</tr>
<tr>
<td>IMPLANTOLOGY MOTORS</td>
<td>20-25</td>
</tr>
<tr>
<td>I-Surge</td>
<td>22</td>
</tr>
<tr>
<td>Accessories</td>
<td>24</td>
</tr>
<tr>
<td>ELECTROSURGER</td>
<td>26-29</td>
</tr>
<tr>
<td>Servotome</td>
<td>28</td>
</tr>
<tr>
<td>RELATED PRODUCTS</td>
<td>30-35</td>
</tr>
<tr>
<td>WhiteFox</td>
<td>32</td>
</tr>
<tr>
<td>A one-stop shop</td>
<td>34</td>
</tr>
</tbody>
</table>
Dear colleagues,

The introduction of powerful and well-engineered piezo-ultrasonic devices and working tips has opened up completely new paths and surgical techniques for implantologists, Oral Maxillofacial Surgeons, and surgeons in other specialties for the management of hard and soft tissue.

Piezo-ultrasonic surgery offers atraumatic surgery (something laser once promised) a never before seen ease and precision in surgical procedures, and an almost blood-free operative field. Some additional benefits include faster healing with significantly less swelling, pain and complications.

Whether it was intended by the manufacturers of piezo-ultrasonic surgery devices or not, in addition to completely new atraumatic surgical protocols, the ultrasonics themselves also induce a more rapid onset of healing and faster healing.

Ultrasonic surgery helps implantologists and patients in private practice avoid augmentative surgery that, in the past, could only be performed in a hospital setting. Surgical techniques such as vertical and horizontal expansion of the alveolar crest and sinus elevation which failed in the past because of deficient tools, can now be performed successfully and predictably with reduced time, costs, and post-operative pain.

Like all new technology, ultrasonic surgery requires thorough and comprehensive training. The procedures for piezo-ultrasonic surgery differ in principle from the procedures with rotary instruments and should not be used in a similar fashion. It is therefore recommended to read up on the physical principles of ultrasound and all its effects (harmonic and modulated vibrations, cavitation effect) before using the device for the first time and to complete a certified piezo-ultrasonic surgery course.

With that in mind, I wish you much success in the new age of piezo-ultrasonic surgery!

OA Dr. med. univ. et med. dent. Angelo C. Trödhan
Oromaxillofacial surgery specialist - Dental and oromaxillofacial specialist
President of the International Academy for Ultrasonic Surgery and Implantology - www.iausi.org
Member of the TKW Research Group - www.perfectsmileandface.com/TKW.html
POWER ULTRASONIC SURGERY BY SATELEC®

Piloted by SP Newton technology, the most advanced patented electronics on the market, SATELEC® surgical devices benefit from several instrument control systems:

- **Auto-tuning System**
  - **Speed**
    - Automatic frequency adjustment: 28-36 kHz.
  - The tip is always tuned into the right vibration frequency.

- **Push-Pull System**
  - **Gentleness**
    - Controlled amplitude of the tip vibrations.
  - Treatments performed with smooth and painless vibrations.

- **Feed-Back Principle**
  - **Power**
    - Real-time power adjustment.
  - Power (torque) is adjusted intelligently according to the resistance met by the tip.

- **Cruise Control® System**
  - Automated system of frequency and power regulation.
  - Stay in complete control and confidence.

Guaranteed efficiency whatever the environment and/or treatment performed.

For preservation of fragile tissues and patient comfort.

With minimum pressure, more precision and less hand fatigue.
A HIGH LEVEL OF EXPERTISE

A shared vision

Intuitive and ergonomic, SATELEC® surgical units are highly reliable tools, specially designed to meet everyone’s priority of improving patient care. Their unmatched performance combined with the practitioner’s clinical expertise paves the way for more precise, faster and painless surgeries.

Security: non active on soft tissue

The modulation of the piezoelectric signal (alternating between high and low intensity) enables the tissue to recover and the cells to regenerate in the best possible way. This mode provides a precise incision and optimized healing.

Newtron® Technology:
Unit, handpiece and tips are one

- Efficient and optimal vibrations,
- Extremely regular motion,
- Consistent, never stuck in dense bone.
SATELEC® MAKES THE DIFFERENCE

Unmatched performance, security and design to pave the way to more precise, faster and painless surgeries such as osteotomies, osteoplasties, sinus lift, crest expansion, extraction and much more.

SATELEC® surgical pumps are well known for their:
- Easy insertion of the irrigation line
- Solidity
- Quiet operation

Most power on the market, 6 ceramic rings
- Effortless cut
- Boosted handpiece
- No overheating
- Excellent yield

Numerous SATELEC® Piezotome® surgical tips:
- Bone surgery, Sinus Lift, IntraLift®, Crest Splitting, Extraction, Crown Extension, etc.

Controlled irrigation: for great bone healing
- Constant and precise flow directed at working end of tip,
- No intra-osseous increase of temperature,
- Healing without edema or pain.

Exclusive: tip longevity
- Resistant to all surgical constraints,
- Surgical steel strengthened by surface treatment,
- Excellent durability to sterilization cycles.

Accessories: reliable and autoclave resistant
- External irrigation line (autoclavable or single use) extending the handpiece life,
- Easy maintenance and perfect asepsis,
- Robust stainless steel wrench.
The Essential

Piezotome® Solo, the best of SATELEC® technology in a compact device.

It integrates the most powerful, reliable and safe components dedicated to ultrasonic pre-implant surgery.

Intuitive

The Piezotome® Solo is incredibly easy to use thanks to its straightforward settings.

A complete offering

Unit delivered with handpiece and Essential kit.

- Power setting
- Irrigation setting
- Purge
- Memorization
- Multifunction footswitch
- LED or non LED handpiece available

Essential kit including 6 fundamental SATELEC® tips: BS1S, BS4, LC2, SL1, SL2, SL3 (Ref. F87528)
SIMPLY INDISPENSABLE

Experience  SATELEC® know-how recognized by thousands of practitioners.
Power     Precision and safety for fast surgeries limiting soft tissue damage.
Simplicity Only essential features for ease of use.

PIEZOTOME

Piezotome® Mode
Perfection right up to the end

With Piezotome® 2, take full advantage of SATELEC’s ultrasonic know-how in conventional and as well as in surgical piezoelectric treatments.

**NEWTRON® Mode**

A full, efficient and safe care range

- Prophylaxis
- Periodontics
- Non surgical endodontics
- Surgical endodontics
- Conservative and restorative dentistry

**PIEZOTOME® Mode**

Active on hard tissue, non-invasive on soft tissue

- Osteotomies, osteoplasties, piezocision™ (Bone Surgery kit)
- Lateral sinus lift (Sinus Lift Kit)
- Crestal sinus lift (IntraLift® Kit)
- Crest Expansion (Crest Splitting kit)
- Syndesmotomy (Extraction Kit)
- Crown Lengthening (Crown Extension kit)

Saves more than ever

- First ever PiezoTouch™ footswitch! Progressive power regulation in Piezotome and Newtron modes.
- Main functions are accessible by the foot.
- Weighted down, stable and easy to move, thanks to its arch.

- Large 5.7”, operator-oriented touch-sensitive screen.
- Direct access to all parameters.
- Easy and storable settings.

- Boosted: 6 ceramic rings
- Extra bright: 100,000 Lux
- Cold light: no overheating and better tissue distinction
POWER & SECURITY

2 modes available

Piezotome®
Pre-implant bone surgery

Newtron®
Conventional tooth treatment
The alliance of technology

The Implant Center™ 2 combines, in a complete table-top unit, the most advanced ultrasonic and rotary technologies, ensuring total independence in increasingly diverse clinical areas.

LED light micromotor

- Precise and silent,
- Fully sterilizable,
- Durable (brushless),
- No lubrication needed.

Variety

- Compatible with all light and regular contra-angles on the market (E-type - ISO 3964 connection),
- High torque and wide speed range for all kinds of treatment,
- Ready for implant, perio and endo contra-angles.

Customizable

- Four pre-set easily customizable programs,
- Intuitive settings can be quickly adjusted during surgery.

Stability

- Perfect balance between torque and speed for unmatched stability.
- Maximum torque: 6Ncm up to 24,000Rpm
- Maximum torque at instrument end (20:1): 120Ncm
- Motor speed: 100 - 40,000Rpm

Piezotome Solo  Piezotome 2  Implant Center 2

PiezoTouch™: progressive power regulation in Piezotome, I-Surge and Newton modes.

I-Surge
Competitor A
Competitor B

Torque N.cm

Motor speed (Rpm)
ANYTHING IS POSSIBLE

3 modes available

I-SURGE™
Implantology motor

Piezotome®
Pre-implant bone surgery

Newton®
Conventional tooth treatment
The most complete, efficient and secure range of tips on the market

**Essential**
The 6 fundamental SATELEC® tips. Essential Kit (Ref. F87528)

**Osteotomy/Osteoplasty**
Clean and thin cut for maximal bone volume. BS Kit (Ref. F87509)

**Lateral Sinus Lift**
Unbeatable comfort: selective and hemostatic cut. SL Kit (Ref. F87519)

**Crestal Sinus Lift**
Minimally invasive surgery for smooth sinus floor fracture. IntraLift® Kit (Ref. F87536)

**Crest Splitting**
Rapid and minimally invasive technique for controlled expansion. CS Kit (Ref. F87567)

**Syndesmotomy**
For maximum bone preservation. Extraction Kit (Ref. F87546)

**Crown Extension**
Incomparable precision and accessibility. CE Kit (Ref. F87554)
Piezotome® Packs

Including: one sterilization box, one Piezotome LED handpiece, one Kit, one dynamometric wrench.
Essential Pack (F87529)
Bone Surgery (BS) Pack (F87500)
Sinus Lift (SL) Pack (F87510)
IntraLift® Pack (F87530)
Crest Splitting (CS) Pack (F87560)
Extraction Pack (F87540)
Crown Extension (CE) Pack (F87550)
Piezotome Pack (F87523) - without any kit

Newtron® Perio Pack

Including: one sterilization box, one Newtron® LED handpiece, one Newtron® Perio Kit (H1, H2L, H2R, H3, H4L, H4R), one dynamometric wrench (F87520).

Newtron® Pack - without kit

Including: one sterilization box, one Newtron® LED handpiece, one dynamometric wrench (F87524).

2 irrigation lines available

- Autoclavable (1 line + 10 perforators: F57374), (1 line: E57374), (10 perforators: F57372)
- Single use delivered sterile (set of 10: F57370)

Easy access to all parts for disinfection

Fast Assembly system Saves precious time during surgery.

Thermodisinfectors approved
<table>
<thead>
<tr>
<th></th>
<th>Piezotome® Solo F57500</th>
<th>Piezotome® Solo LED F57510</th>
<th>Piezotome® 2 F57400</th>
<th>Implant Center™ 2 F27200</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit features</strong></td>
<td>Piezo ultrasonic surgery unit</td>
<td>Piezo ultrasonic surgery unit</td>
<td>Piezo ultrasonic surgery + conventional treatment (Perio, endo, etc) unit</td>
<td>Implantology motor + Piezo ultrasonic surgery + conventional treatment (Perio, endo, etc) unit</td>
</tr>
<tr>
<td><strong>Equipment</strong></td>
<td>Delivered with: Handpiece, Handpiece support, Essential kit (6 tips), Dynamometric wrench, Multifunction footswitch, Irrigation bracket, 2 autoclavable irrigation lines, 15 perforators.</td>
<td>Delivered with: LED Handpiece, Handpiece support, Essential kit (6 tips), Dynamometric wrench, Multifunction footswitch, Irrigation bracket, 2 autoclavable irrigation lines, 15 perforators.</td>
<td>Delivered with: Multifunction and progressive footswitch, 2 irrigation brackets, 2 handpiece supports, 2 autoclavable irrigation lines, 30 perforators.</td>
<td>Delivered with: LED micromotor, Multifunction and progressive footswitch, 2 irrigation brackets, 2 handpiece supports, 2 autoclavable irrigation lines, 30 perforators.</td>
</tr>
<tr>
<td><strong>Unit dimensions</strong> (W x H x D and weight)</td>
<td>378 x 136 x 306mm ; 3.7Kg</td>
<td>378 x 136 x 306mm ; 3.7Kg</td>
<td>472.9 x 149.5 x 339.9mm ; 5Kg</td>
<td>472.9 x 149.5 x 339.9mm ; 5Kg</td>
</tr>
<tr>
<td><strong>Footswitch dimensions</strong> (W x H x D and weight)</td>
<td>173 x 140 x 176mm 1Kg</td>
<td>173 x 140 x 176mm 1Kg</td>
<td>311 x 181 x 209mm 3.5Kg</td>
<td>311 x 181 x 209mm 3.5Kg</td>
</tr>
</tbody>
</table>

Be part of our Piezotome® training sessions and workshops. Numerous trainings are available in collaboration with dental associations. Check Piezotome.com website agenda and contact ACTEON® worldwide.
<table>
<thead>
<tr>
<th>Tips</th>
<th>Maximum recommended modes</th>
<th>Fine setting*</th>
<th>Irrigation ml/min</th>
<th>Tips</th>
<th>Maximum recommended modes</th>
<th>Fine setting*</th>
<th>Irrigation ml/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS1S</td>
<td>D1</td>
<td></td>
<td>60</td>
<td>CS1</td>
<td>D2,D3</td>
<td>1 to 3</td>
<td>80-100</td>
</tr>
<tr>
<td>BS1L</td>
<td>D1</td>
<td></td>
<td>60</td>
<td>CS2</td>
<td>D2,D3</td>
<td>1 to 3</td>
<td>80-100</td>
</tr>
<tr>
<td>BS2L</td>
<td>D1</td>
<td></td>
<td>60</td>
<td>CS3</td>
<td>D2,D3</td>
<td>1 to 3</td>
<td>80-100</td>
</tr>
<tr>
<td>BS2R</td>
<td>D1</td>
<td></td>
<td>60</td>
<td>CS4</td>
<td>D2,D3</td>
<td>1 to 3</td>
<td>80-100</td>
</tr>
<tr>
<td>BS4</td>
<td>D1</td>
<td></td>
<td>60</td>
<td>CS5</td>
<td>D2,D3</td>
<td>1 to 3</td>
<td>80-100</td>
</tr>
<tr>
<td>BS5</td>
<td>D3</td>
<td></td>
<td>60</td>
<td>CS6</td>
<td>D2,D3</td>
<td>1 to 3</td>
<td>80-100</td>
</tr>
<tr>
<td>BS6</td>
<td>D1</td>
<td></td>
<td>60</td>
<td>LC1</td>
<td>D1</td>
<td>1 to 3</td>
<td>60-80</td>
</tr>
<tr>
<td>SL1</td>
<td>D1</td>
<td></td>
<td>60</td>
<td>LC190°</td>
<td>D1</td>
<td>1 to 3</td>
<td>60-80</td>
</tr>
<tr>
<td>SL2</td>
<td>D1</td>
<td></td>
<td>60</td>
<td>LC2</td>
<td>D1</td>
<td>1 to 3</td>
<td>60-80</td>
</tr>
<tr>
<td>SL3</td>
<td>D4</td>
<td></td>
<td>50</td>
<td>LC2L</td>
<td>D1</td>
<td>1 to 3</td>
<td>60-80</td>
</tr>
<tr>
<td>SL4</td>
<td>D4</td>
<td></td>
<td>30</td>
<td>LC2R</td>
<td>D1</td>
<td>1 to 3</td>
<td>60-80</td>
</tr>
<tr>
<td>SL5</td>
<td>D4</td>
<td></td>
<td>30</td>
<td>NINJATM</td>
<td>D1</td>
<td>1 to 3</td>
<td>60-80</td>
</tr>
<tr>
<td>TKW1</td>
<td>D2</td>
<td></td>
<td>100</td>
<td>CE1</td>
<td>D1</td>
<td>1 to 3</td>
<td>60-80</td>
</tr>
<tr>
<td>TKW2</td>
<td>D2</td>
<td></td>
<td>100</td>
<td>CE2</td>
<td>D2</td>
<td>1 to 3</td>
<td>60-80</td>
</tr>
<tr>
<td>TKW3</td>
<td>D2</td>
<td></td>
<td>100</td>
<td>CE3</td>
<td>D1</td>
<td>1 to 3</td>
<td>60-80</td>
</tr>
<tr>
<td>TKW4</td>
<td>D2</td>
<td></td>
<td>30-40</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TKW5</td>
<td>D3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Not applicable to PIEZOTOME SOLO (LED).
Piezo ultrasonic surgery books

Practical Osseous Surgery in Periodontics and Implant Dentistry, S. Dibart, J-P. Dibart, Wiley-Blackwell, 2011. Extraction, IntraLift® (sinus lift by the crestal approach) and the Piezocision™ techniques with Piezotome ultrasonic surgical units are developed.


Clinical articles

Increased Intraosseous Temperature Caused by Ultrasonic Devices During Bone Surgery and the Influences of Working Pressure and Cooling Irrigation, F. Birkenfeld, M. E. Becker, S. Harder, R. Luclus, M. Kern, IJOMI, Vol. 27, Issue 6, November/December 2012. “Harmless intraosseous temperature development was identified for working pressures of 1.5N and 2.0N with cooling irrigations of 30, 60, and 90ml/min and for 3.0N at 90ml/min. A working pressure above 3.0N did not result in improved cutting performance”.

Analysis of Heating Induced by Piezoultrasonic Devices During Bone Surgery, M-G. Poblete-Michel, E. Tuffreau, J-F Michel, IJOMI, Vol. 2, No. 8, pp 37-51, October 2010. “Piezosurgery® incision shows variable heating, ≥ 10°C compared to the Piezotome®. The quantity of irrigation must be at least 30ml/min”.


LATERAL SINUS LIFT


“Zero perforation of the Schneiderian membrane occurred during the piezoelectric preparation of the lateral antrostomies, whereas two perforations were noted during subsequent membrane elevations using hand instrumentation. In both instances, membrane perforations were associated with sinus septa. The overall sinus perforation rate was 3.6%”.

INTRALIFT®

Biological Principles and Physiology of Bone Regeneration under the Schneiderian Membrane after Sinus Lift Surgery: A Radiological Study in 14 Patients Treated with the Transcrestal Hydrodynamic Ultrasonic Cavitation Sinus Lift (Intralift), A. Troedhan, A. Kurrek, M. Wainwright, International Journal of Dentistry ; 2012:576238, 2012. “All 14 thUCSL Intralift Sinus lift procedures were conducted without perforation of the sinus membrane, and no postsurgical complications suspicious of sinus-membrane perforations occurred. It proves the key role of the sinus membrane as the main carrier of bone reformation after Sinus Lift procedures as multiple experimental studies suggested the importance of minimal invasive and rupture free sinus lift procedures is underlined and does not depend on the type of grafting material used”.


“The Intralift® (HUCSL) technique yielded the lowest increase of rupture length compared with balloon-assisted technique and Summers lift. The technique therefore shows the lowest risk of a growing rupture of the sinus membrane in case of an iatrogenic puncture during preparation of the transcrestal approach”.

“To detach the sinus membrane pneumatically (Balloon) around 29.54 millibars was required against 19.8 millibars for the hydraulic technique (IntraLift™) with an average lifted volume of 3.92ml. With Piezotome®, no rupture of the sinus membrane of sheep heads occurred”.


“The IntraLift is an alternative to conventional sinus grafting techniques with dramatically reduced trauma and high patient acceptance. New trabecular bone formation was partially visible only after 6 weeks, and in 98%, the treated patients didn’t use any analgetics”.

EXTRACTION


“When we compared the overall outcome in the two groups, we found significantly less pain, trismus, and facial swelling and a better perception of the quality of life by the patients after third molar extraction using the Piezotome®”.


“Piezotome surgery is superior in atraumaticity and soft-tissue safety compared to traditional procedures with burs and grants the patients significantly less post surgical pain and swelling. No lesions of the mandible nerve were detected with Piezotome surgery whereas surgery with rotary instruments resulted in 16% hypesthesia at least up to one week. Ultrasonic surgical devices time consumption reduces to normal values after a learning curve showing no significant time difference to procedures with rotary instruments”.

PIEZOCISION®


“The combination of buccal interproximal microincisions and localized piezoelectric corticotomies is able to create a significant amount of demineralization around teeth in the areas of tooth movement, making this a very attractive alternative to conventional and more aggressive techniques. It offers advantages that should lead to greater acceptance in the dental and patient communities”.


“Piezocision technique to treat arch crowding and borderline skeletal problems. The use of Piezotome® creates a significant ease in making the cuts in areas of severe crowding”.

CREST SPLITTING


“The results of this study suggest that, with the use of ultrasonic surgical devices, the indication for vertical crest-splitting can be narrowed down to a crest width of 2mm and even less and that it can be performed flapless, thus leaving the physiological bone-periosteum system fully intact”.


“This retrospective observational report demonstrates that the piezoelectric hinge-assisted ridge split procedure can achieve substantial gains in horizontal ridge width of the edentulous posterior mandible without associated morbidity”.

ULTRASONICS
A highly-engineered drive unit for dental surgery applications!
This powerful unit has reliable electronic speed and torque control with an integrated coolant pump.
All operations during the implantology procedure can be accomplished with complete safety and extreme accuracy.
I-Surge

1 unit, 2 configurations

- I-Surge with Implant Ster micromotor and a multifunctional footswitch
- I-Surge with Implant micromotor and single function footswitch

Built to last

- Sleek and silent peristaltic pump with a very ergonomic magnetic opening and closing system.
  - Magnetic system makes irrigation pump stable and quiet.
  - Autoclavable or sterile single use irrigation lines available. (see page 15)
  - Intuitive cassette insertion and irrigation line setting.
- Rotation speed displayed in real time.
- Corrosion resistant, metallic connectors.
- Light and flexible micromotor cables to meet implant surgery constraints.

Working comfort

- Specific irrigation cassette designed for:
  - Better control of irrigation flow,
  - Limited wear of the pump system,
  - Quiet operation.
- Irrigation line is external to the cord for:
  - Complete sterile delivery,
  - Easy maintenance,
  - Visual assessment.

Calibration system

The motor and contra-angle capability

- Electronic calibration of the contra-angle.
- Repetitive sterilizations and contra-angle wear can lead to a lack of precision. This function accurately measures the properties of the micromotor and contra-angle handpiece prior to use for exact values.
Automatic recognition

The unit will automatically detect which micromotor is connected:
- Implant Ster (sterilizable),
- Implant (non sterilizable).

User-friendly unit...
- Easy and fast access to all settings,
- Extremely easy to install, use and transport.

...and customizable
- 5 programs can be easily saved,
- 4 different flow rates are offered.
### Implant Micromotor

<table>
<thead>
<tr>
<th>Micromotor</th>
<th>![Micromotor Image]</th>
</tr>
</thead>
</table>
| **Rotation speed** | Without contra-angle: 400 to 30,000Rpm  
With contra-angle (20:1): 20 to 1,500Rpm |
| **Torque** | 54Ncm |
| **Sterilization** | Non sterilizable, to be placed in a sterile protection |
| **Maintenance free** | Without lubrication, brushless micromotor |
| **Compatibility** | Fits all contra-angles! All SATELEC® motors have an E-type - ISO 3964 connection  
7 contra-angles ratios available (1:1, 16:1, 20:1, 24:1, 32:1, 64:1, 80:1) |
| **Working comfort** | Single function footswitch  
Smooth and progressive |
### Implant Ster micromotor

| Micromotor |  
| --- | --- |
| **Rotation speed** | Without contra-angle: 400 to 40,000Rpm  
With contra-angle (20:1): 20 to 2,000Rpm |
| **Torque** | 72Ncm |
| **Sterilization** | Micromotor guaranteed more than 500 sterilization cycles |
| **Maintenance free** | Without lubrication, brushless micromotor |
| **Compatibility** | Fits all contra-angles! All SATELEC® motors have an E-type - ISO 3964 connection  
7 contra-angles ratios available (1:1, 16:1, 20:1, 24:1, 32:1, 64:1, 80:1) |

### Working comfort

- Multifunctional progressive footswitch  
- Soft: Increased sensitivity  
- Large: Easy access  
- Arch: Easy to move
PERFORM ORAL SURGERY ON SOFT TISSUE QUICKLY, PRECISELY AND SAFELY

D’Arsonval proved that high frequency currents above 100kHz have no harmful effects on humans. They will only have a thermal action. The section action is determined by the speed of heat produced which will induce cell vaporization. The coagulation action generates an electric discontinuous wave which will create less heat.

The current quality plays an important role on the cutting and coagulation effect. With more than 30 years of high frequency experience, SATELEC® develops efficient, secure, with unique features unit.

Fully rectified and filtered current

- Total respect of biological tissues:
  - A fine and even cut with no side effects
  - Good-quality healing

Incision and coagulation

- The only high frequency scalpel on the market that enables incision depth and coagulation to be controlled separately
- Perfect control of treatment:
  - Limiting the risk of burning the tissues
  - Efficient control of bleeding allows excellent visibility of treatment area

![Incision](image1)
![Incision and coagulation](image2)
Certification

Electrosurgical units, in compliance with new standards and dental environment constraints, now require a conductive plate for a current return path, placed in direct contact with the patient’s skin for more security.

SATELEC®’s choice for a bracelet system is the best compromise for safety and convenience:

- Easy to install to enhance patient acceptance,
- Conductive (in direct contact with the patient’s skin),
- Easily disinfected,
- Adjusted to a contact region with a low resistance,
- Perfect size to avoid concentration of heat.

Controlled power for all electrosurgical applications

- Incisions/Excisions
- Frenectomy
- Gingivoplasty
- Coagulation
- Abscess incision
- Exposure of impacted/retained teeth
- Gingivectomy
- Etc.

30 watts is enough
Decrease Wattage for greater efficiency. This bracelet can concentrate the current at a given point offering:

- Controlled power,
- More reliable and reproducible setting,
- High performances and better yield,
- Less energy loss.

Reliable and compact unit

- Very compact
- User-friendly for a fast setting up
- Only two potentiometers (incision and coagulation)
- Settings can be very finely adjusted according to the different types of tissues encountered

Electrode holder

- Light and autoclavable
- Simple-to-mount electrodes
- The electrode is insulated by a sheath. Only the active part is in contact with the soft tissues
Classification of electrodes according to their size and hemostatic capacity.

- **Incision** Ø 0.22mm
- **Excision** Ø 0.22mm
- **Coagulating incision** Ø 0.40mm
- **Fulguration and coagulation** Ø 1mm / Ø 2.5mm Ø 3.2mm
ACTEON® through its three companies (SATELEC®, PIERRE ROLLAND® and SOPRO®) develops many products useful for implantology from diagnosis to treatments and control.

SATELEC®, Equipment division of the ACTEON® group, is the world leader in piezoelectric generators and also offers a complete range of electronic equipment for implantology including piezo ultrasonic surgery units, radiology, electrosurgery units, autoclaves, etc.

PIERRE ROLLAND®, Pharmaceutical division of the ACTEON® group and manufacturer of Expasyl® and Riskontrol®, offers a full selection of dental consumables such as anesthetics, hygiene, hemostasis, filling materials, etc.

SOPRO®, Imaging division of the ACTEON® group, already recognized worldwide as the leader in intraoral cameras, also develops innovative digital radiology systems. The medical division of SOPRO® designs, manufactures and sells a comprehensive range of surgical endoscopy equipment.
For a simple diagnosis

The complete dentomaxillofacial area at a glance! A single scan provides you with an incredible quantity of information for a comprehensive and precise diagnosis. Applications for:

- Implant planning
- Measurement of bone density (Hounsfield units)
- Virtual endoscopy
- Volume calculation for sinus lifts
- TMJ analyses
- Examination of the airways

Reduced radiation dose

Thanks to the “pulsed mode acquisition”, the selectable FOV, and the resolution setting, the patient receives a minimum radiation dose with maximum image quality.
Cone Beam Computed Tomography

5 field of view sizes

Ø 60mm x 60mm
Ø 80mm x 80mm
Ø 120mm x 80mm (optional)
Ø 150mm x 130mm
Ø 200mm x 170mm
Applications
BIOSTITE® is used in dental and oromaxillofacial surgery. Some uses include filling extraction defects to create an implant bed and for defects following surgical removal of retained teeth, after extraction or to close root tip resections.

Properties
The off-white BIOSTITE® can be easily shaped. Easy positioning and simple processing enables rapid filling of defects.

Applications
PAROGUIDE® is a membrane to maintain the barrier effect. This barrier prevents connective tissue and epithelial cells growing into the bony tissue during the regeneration phase. Its primary application is periodontology.

Properties
PAROGUIDE® is an absorbable membrane for guided tissue regeneration. It is impermeable and of average strength.

Applications
ETIK COLLAGENE® is a local hemostatic. It is used as a wound dressing after tooth extraction.

Properties
For unimpaired wound healing, blood clot stabilization must be achieved. The dimensional stability of the collagen cylinder ensures that blood completely penetrates the material which stabilizes the blood clot. It resorbs completely.

Products may not be available in all markets, please contact ACTEON® for availability.
GINGISTAT®
Hemostatic collagen-based wound dressing

Applications
GINGISTAT® is a local hemostatic wound dressing. It is used, for example, to cover surgical tissue defects (diffuse or flat).

Properties
The collagen compress conforms to the surface requiring treatment with gentle pressure. Hemostasis is achieved in a few minutes. The wound dressing is absorbable.

RISKONTROL™/RISKONTROL ART
Single-use tips for multi-function syringes

Applications
Unlike turbines, the multi-function syringes integrated into the dental chair cannot be sterilized in an autoclave. RISKONTROL™ prevents the risk of direct contamination and cross-contamination.

Properties
The single-use tips are flexible and pliable - but with no memory effect.

HEMOSTASYL™ - Thixotropic gel with hemostatic action

Applications
For all moderate bleeding that occurs in routine dental practice.

Properties
- Thixotropic properties
- Good adhesion to the membrane - without compression
- Aluminum chloride increases the mechanical hemostatic effect
- Easy to see and to remove (air/water spray)
- Pain-free method, if HEMOSTASYL™ is applied to healthy periodontium
- Time of application: 2 minutes
Find all our products on piezotome.com

SATELEC®
These medical devices are manufactured according to current regulations and standards (IEC 60601-1) and according to certified ISO 13485 Quality Management System.

PIERRE ROLLAND®
Medical devices presented in this catalog are health products stamped with the CE marking, according to this regulation. Read carefully the instructions in the leaflet supplied with the product. Medical Devices marketed by PIERRE ROLLAND® are not reimbursed by health insurance organizations.
Creation date: January 2013.
Updates are available on the site: www.acteongroup.com