

# PIEZOTOME

Piezo.Ultrasonic.Surgery.Unit

Power & Security



# Take implantology fur

## Satelec®, world number one in ultrasonics

Satelec, inventor of piezoelectric ultrasonic generators for dental use, has already more than demonstrated the superiority of its devices in pre-implant surgery: precision, visibility, comfort and selective cutting.

## Piezotome 2®, THE reference

The Piezotome 2 takes full advantage of Satelec's know-how. The Cruise Control™ patented system, reliability, and robustness all enhance its performance with exceedingly high power plus the premier of autoclavable LED technology.

## Quality control

Satelec has been active for over 35 years in continuous improvement of its equipment, control of its manufacturing processes, materials and tip coatings for superior performance. The partnerships set up with clinicians and universities guarantee constant technological and clinical advancement.

## Bibliography

1. Hydrodynamic Ultrasonic Sinus Floor Elevation - An experimental Study in Sheep. A. TROEDHAN, A. KURREK, M. WAINWRIGHT, S. JANK, *Journal of Oral and Maxillofacial Surgery*, Vol. 68, N°5, 2010.
2. Rapid treatment of class II malocclusion with Piezocision : Two case reports. S. DIBART, J. SURMENIAN, JD. SEBAOUN, L. MONTESANI, *The International Journal of Periodontics & Restorative Dentistry*, Volume 30, Number 5, 2010.
3. Performance of Ultrasonic Devices for Bone Surgery and Associated Intraosseous Temperature Development. S. HARDER, C. MEHL, *The International Journal of Oral & Maxillofacial Implants*, Volume 24, Number 3, 2009.
4. Piezocision: A Minimally Invasive, Periodontally Accelerated Orthodontic Tooth Movement Procedure. S. DIBART, J-D SEBAOUN, J. SURMENIAN, *Compendium*, Volume 30, N°6, July/August 2009.
5. The IntraLift™: A new minimal invasive ultrasonic technique for sinus grafting procedures. M. WAINWRIGHT, A. TROEDHAN, A. KURREK, *Implants magazine*, Vol.8, Issue 3/2007.

## Dr. Stephan GIRTHOFER

*Private practice, Munich - Germany*

"Thanks to its combination of regular ultrasonics for conventional treatment and power ultrasonics for bone surgery, the Piezotome 2 gives me all the treatment options I need, in one single device. Whether you are working in surgical or non surgical endodontics, periodontology or bone surgery, this device can automatically identify the necessary oscillation range and its power and high performance are impressive".


## Pr. Francis LOUISE and Dr. Yves MACIA

*University professor, hospital practitioner, Marseilles - France*

*University hospital assistant, Marseilles - France*

"Piezotome 2: Performance and versatility

We particularly appreciated the gain of power. Always perfectly controlled, it respects the tissues physiology. This secure aspect, combined with the precision and usability of this device, have improved and simplified our surgeries".

- 
6. Clinical Success in Bone Surgery with Ultrasonic Devices. Marie G. POBLETE-MICHEL, J-F. MICHEL, Foreword Ray C. WILLIAMS, Quintessence International, 2009.
  7. Can piezoelectric surgery change daily dental practice? F. LOUISE, Y. MACIA, Australasian Dental Practice, May/June 2009.
  8. The effect of Piezoelectric Use on Open Sinus Lift Perforation: A Retrospective Evaluation of 56 Consecutively Treated Cases from Private Practices. N. TOSCANO, D. HOLTZCLAW, P. ROSEN. Journal of Periodontology, Volume 8, N°1, 2010.
  9. Acceleration of orthodontic tooth movement following selective alveolar decortication: biological rationale and outcome of an innovative tissue engineering technique, J-D SEBAOUN, J. SURMENIAN, D. J. FERGUSON, S. DIBART, International Orthodontics; 6 : 235-249, 2008.
  10. Implant Center: Why Should You Invest in This Versatile Instrument for Your Implant Practice? P. ROSEN, Patterson Today, Spring 2008.
  11. Piezotome™, USAF Dental Evaluation & Consultation Service, "The Piezotome™ is rated Excellent for use in US Air Force dental facilities", 2008.



# POWER is provided, SECURITY is guaranteed

## IRRIGATION LINE

Perfect asepsis

- Easy to install.
- Autoclavable or sterile single-use.
- External to the cord:
  - for a complete sterile work,
  - for easy maintenance,
  - for visual control at all times.

## TOUCH-SENSITIVE SCREEN

Increased visibility

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



## PUMPS

### Controlled irrigation



- “The Piezotome® produced the smallest increase in intra-osseous temperature”. Dr. Harder (3), IJOMI, 2009.
- Exclusive cassette system for:
  - silent treatment,
  - a constant and precise flow,
  - healing without edema or pain.

## HANDPIECES

### Working comfort

- Powerful without energy dispersion.
- 100,000 Lux removable and autoclavable LED ring.
- Cold light:
  - to avoid any overheating,
  - for better tissue distinction.



# Technological breakthrough; clinical benefits too

Power and ultrasonic frequency are managed automatically and in real time (Satelec® patent) for:

- an efficient and constant cut on all types of bone and any depth of cut,
- greater regularity and precision,
- a smooth and effortless gesture.



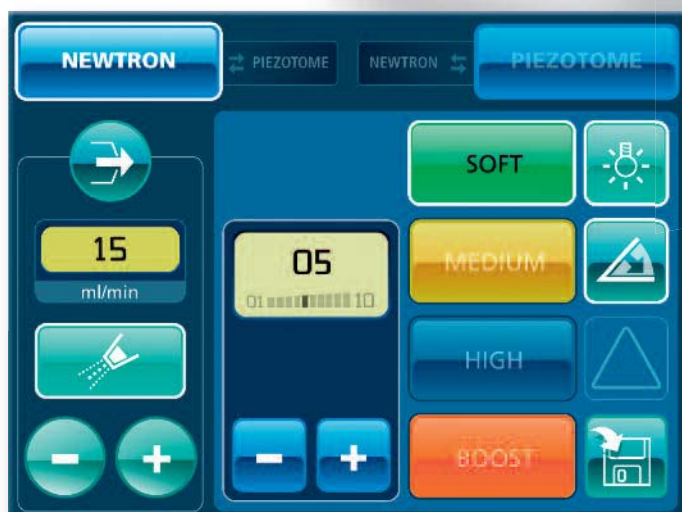
## PIEZOTOME® Mode



### ACTIVE ON HARD TISSUE, NON-INVASIVE ON SOFT TISSUE

- Osteotomies, osteoplasties, piezocision and crest expansions (Bone Surgery Kit)
- Lateral sinus lift (Sinus Lift Kit)
- Crestal sinus lift (IntraLift Kit®)
- Extractions (Extraction Kit)

## NEWTRON® Mode



### A FULL, EFFICIENT AND SAFE CARE RANGE

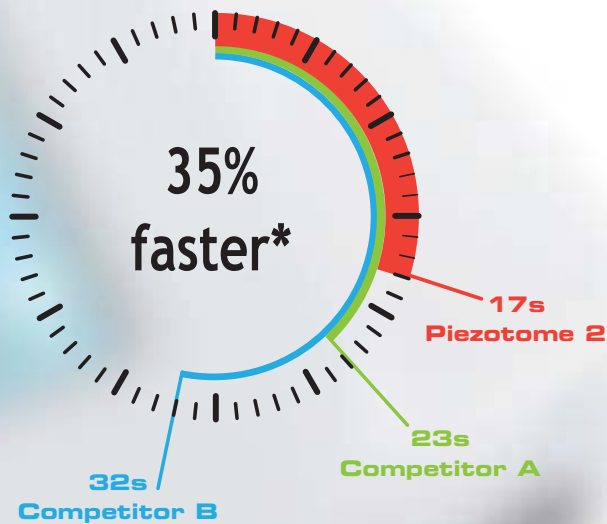
- Prophylaxis,
- Periodontics,
- Non surgical endodontics,
- Surgical endodontics,
- Conservative and restorative dentistry.







# SAVES TIME BETTER THAN EVER



## FAST ASSEMBLY

Saves precious time during surgery.

## MOST POWERFUL 6 CERAMIC RINGS

- Excellent yield,
- No overheating.



**PiezoTouch:** progressive power regulation in **PIEZOTOME** and **NEWTRON** modes.

## PiezoTouch™, A TOUCH OF INDEPENDENCE

- First ever progressive footswitch dedicated to ultrasonic bone surgery,
- Main functions are accessible to the foot,
- Weighted down, stable and easy to move, thanks to its arch.





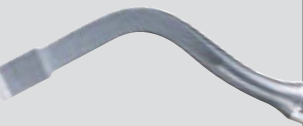



\* Average time on 10 incisions (1cm long and 3mm deep).

# PERFECTION RIGHT UP TO THE END!







All accessories are available individually.  
Many other tips can be viewed  
on our website [www.piezotome.com](http://www.piezotome.com).

## PIEZOTOME - SURGERY



Osteotomy/plasty: Bone Surgery II Pack (F87500) / Bone Surgery II Kit (F87509)

<b>BS1 II</b> F87501  6 mm	<b>BS2L II</b> F87502 	<b>BS2R II</b> F87503 
<b>BS4 II</b> F87504 	<b>BS5 II</b> F87505 	<b>BS6 II</b> F87506 
<b>OPTION</b> <b>BS1 Slim II</b> F87525  9 mm	<b>OPTION</b> <b>BS1 Long II</b> + clé F87527  15 mm	

Syndesmotomy: Extraction II Pack (F87540) / Extraction II Kit (F87546)

<b>LC1 II</b> F87507 	<b>LC1 90° II</b> F87541 	<b>LC2 II</b> F87542 
<b>LC2L II</b> F87543 	<b>LC2R II</b> F87544 	<b>Ninja® II</b> F87545 

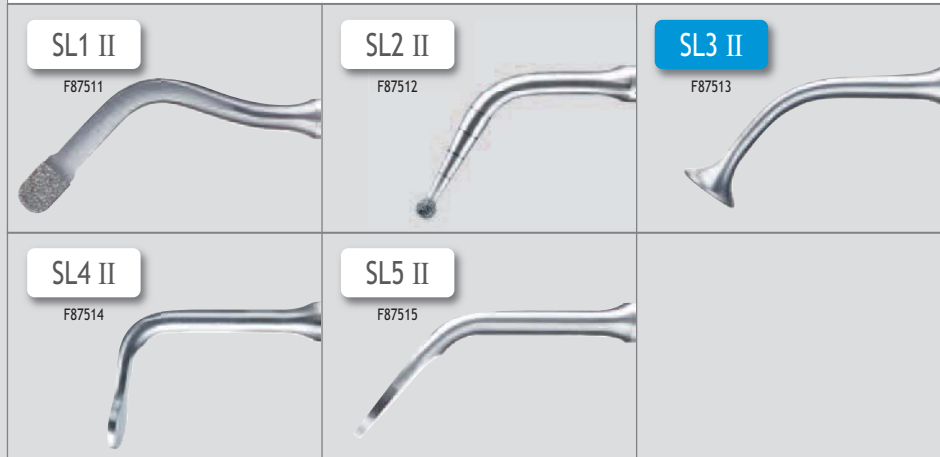
Crown lengthening : Crown Extension Pack (F87550) / Crown Extension Kit (F87554) **NEW**

<b>BS6</b> F87306 	<b>CE1</b> F87551  Ø 1,75 mm	<b>CE2</b> F87552  Ø 1,20 mm
<b>CE3</b> F87553  Ø 1,20 mm		

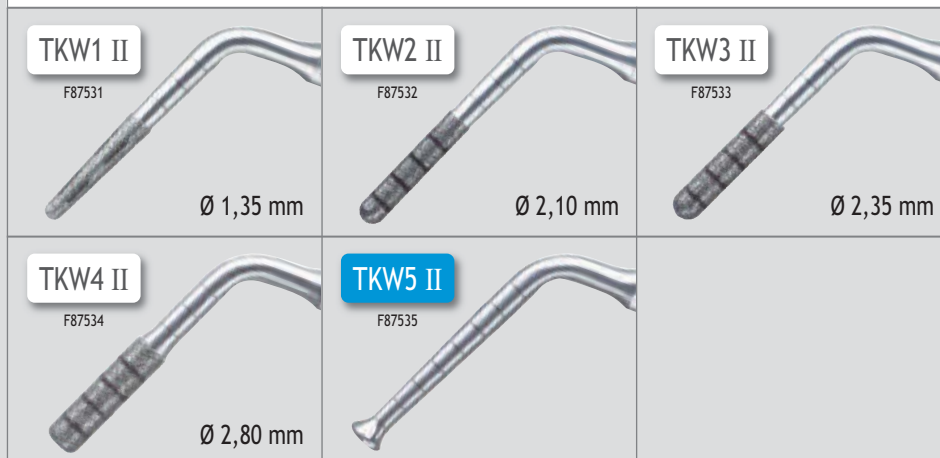


## PIEZOTOME - SURGERY

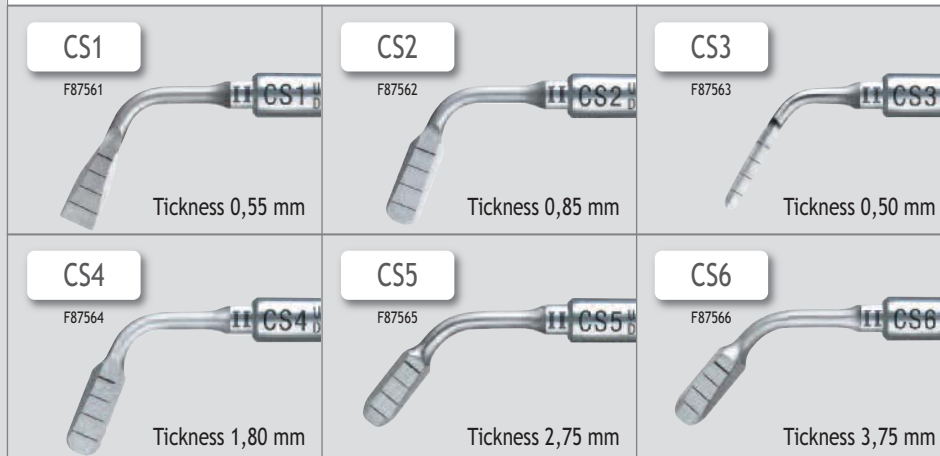
Lateral approach: Sinus Lift II Pack (F87510) / Sinus Lift II Kit (F87519)



Crestal approach: IntraLift II Pack (F87530) / IntraLift II Kit (F87536)



**NEW** Crest Splitting II Pack (F87560) / Crest Splitting II Kit (F87567)



Surgical tips designed for the previous generation of devices cannot be used with Piezotome 2 / Implant Center 2 high power generators and vice versa.

## CONVENTIONAL TREATMENTS - NEWTRON

The Newtron® handpiece gives access to all conventional SATELEC® tips (over 50 tips) that can be viewed on [www.satelec.com](http://www.satelec.com).



### Color Coding System:

Each tip is identified by a colored band for easy selection of the power setting recommended for each procedure.



## Technical specifications

Supply voltage: ..... 100 V - 230 V - 50/60 Hz  
 Equipment classification: ..... Class I, BF type  
 Ultrasonic frequency: ..... 28 KHz to 36 KHz  
 Dimensions (W x H x D and weight): ..... 472.9 x 149.5 x 339.9 mm; 5 Kg  
 Multi-function footswitch (W x H x D and weight): ..... 311 x 181 x 209 mm; 3.5 Kg  
 Peristaltic pump flow rate: .... Piezotome mode: 10 to 120 ml/min / Newtron mode: 10 to 40 ml/min

This medical device is manufactured according to current regulations and standards (IEC 60601-1)  
 and according to the EN ISO 13485 quality control certification system.

Many other tips and accessories are visible on:

[www.piezotome.com](http://www.piezotome.com)