



*** EXPERIENCE PIEZOSURGERY®



high surgical control

precision and safety

clinical and histological

*** EXPERIENCE PRECISION

PIEZOSURGERY® technology is a cut above

PIEZOSURGERY® is superior to saws and burs, not only in terms of intra-operative precision, but also in regard to tissue healing. Burs and saws cut bone, but they do not differentiate: any soft tissue getting in their way will also be cut.

The special ultrasonic microvibrations of the original PIEZOSURGERY® technique cut bone – and nothing else. No soft tissue is damaged, which allows you to work with a precision that facilitates not only surgery itself, but reduces postoperative discomfort for your patients at the same time.

Choose PIEZOSURGERY® technology for maximum precision and control – and minimal stress for you and your patients. Your perfect solution.

→ MICROMETRIC CUTS

PIEZOSURGERY® provides micrometric cuts for minimally invasive surgeries with maximum surgical precision and intra-operative tactile sensation.

→ SELECTIVE CUTS

PIEZOSURGERY® protects any kind of soft tissue. Nerves, vessels and membranes will not be injured while cutting bone. Therefore PIEZOSURGERY® offers maximum safety for surgeons and patients.

---> CAVITATION EFFECT

PIEZOSURGERY® offers maximum intra-operative visibility. The cavitation effect of the ultrasonic movements leads to a blood-free surgical site.



- soft tissue will be protected, f.e. in lateral sinus lift surgery the risk of perforation is reduced over 80%
- less swelling after surgery with PIEZOSURGERY® faster and better osseointegration after implant site preparation with PIEZOSURGERY®
- faster and less traumatic post-operative recovery

→ MACROVIBRATIONS







-> limited surgical

--- lack of precision

control

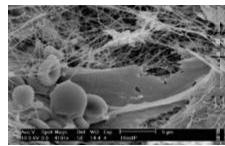
→ MICROVIBRATIONS



- PIEZOSURGERY®
- advantages

HISTOLOGICAL RESULTS

Comparative studies have demonstrated both the clinical and histological advantages of the PIEZOSURGERY® device. Gleizal A, Li S, Pialat JB, Béziat JL. Transcriptional expression of calvarial bone after treatment with low-intensity ultrasound: An in vitro study. Ultrasound Med Biol. 2006; 32(10):1569-1574





---- EXPERIENCE SAFETY

window approach: evolution of technology and technique. J Evid Based Dent Pract. 2012 Sep;12(3 Suppl):161-71.

using PIEZOSURGERY®: clinical results of 100 consecutive cases. Int J Periodontics Restorative Dent. 2007; 27(5):413-419

---> Vercellotti T, De Paoli S, Nevins M. The Piezoelectric Bony Window Osteotomy and Sinus Membrane Elevation:

Introduction of a New Technique for Simplification of the Sinus Augmentation Procedure. Int J Periodontics

Clinical benefits of PIEZOSURGERY® technology

--- SINUS LIFT TECHNIQUE

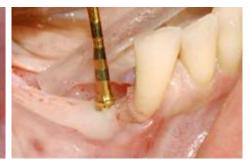


Surg. 2011 May;40(5):497-503.

Restorative Dent. 2001; 21(6):561-567

---> IMPLANT SITE PREPARATION





- ---> safe preparation respecting to the inferior alveolar nerve
- ---- less post-operative inflammation
- ---- faster healing and higher primary stability
- --> possibility of immediate post-extractive implant site prep
- --> possibility of differential implant site prep (correction of the axis)

----> fewer post-operative complications

- Di Alberti L, Carossa S, Schierano G. Ultrasonic implant site preparation using piezosurgery: a multicenter case series study
- Factors Involved in the Osseointegration of Oral Titanium Implants Positioned using Piezoelectric Bone Surgery Versus a Drill
- Techniques: Twist Drills versus Piezosurgery. A Single-Blinded, Randomized, Controlled Clinical Trial. Clin Implant Dent Relat Res.
- Sagittal Split Osteotomy Using PIEZOSURGERY®. Plast Reconstr Surg. 2006; 118(7):1598-1607
- piezoelectric osteotomies: a case report. Int J Periodontics Restorative Dent. 2008 Oct;28(5):489-95.

Whether it is about sinus lift or implant site preparation, about extraction or bone block grafting – one of the most important features you should demand from your operating device is safety.

Its major strength is minimizing the risk of cutting soft tissue. These structures are not sensitive to the frequencies used by the PIEZOSURGERY® technology.

EXTRACTION/EXPLANTATION



-> bone preservation in impacted or ankylosed root and third molar extractions

third molar surgery: relationships between surgical difficulty and postoperative pain with histological evaluations.

post-extractive socket outcomes with those of traditional treatment. Clin Oral Implants Res. 2015-01-30 online; DOI: 10.1111/

-> safe in proximity to the inferior alveolar nerve wisdom tooth extraction

-> reduced amount of facial swelling and trismus 24 hours after surgery









- maximum surgical control in bone grafting from mandibular ramus and chin
- --- absence of necrosis on the surface of the cut
- -> presence of nucleated osteocytes, indicative of the atraumatic effect

- REFERENCES
- piezoelectric technique an experimental cadaver study. Clin. Oral Impl. Res. 2015-02-16 online; DOI: 10.1111/clr.12546. analyzing 3,579 implants with a 1- to 3-year follow-up. Int J Periodontics Restorative Dent. 2014 Jan-Feb; 34(1):11-18. 🛶 Baldi D, Menini M, Pera F, Ravera G, Pera P. Sinus floor elevation using osteotomes or piezoelectric surgery. Int J Oral Maxillofac
 - Technique: A Pilot Study in Minipigs. J Periodontol. 2007; 78(4):716-722
 - ---> Stacchi C, Vercellotti T, Torelli L, Furlan F, Di Lenarda R. Changes in Implant Stability Using Different Site Preparation
- comparison of postoperative recovery. J Oral Maxillofac Surg. 2008 Dec;66(12):2444-8.

J Craniomaxillofac Surg. 2013 Mar;41(2):e33-8.

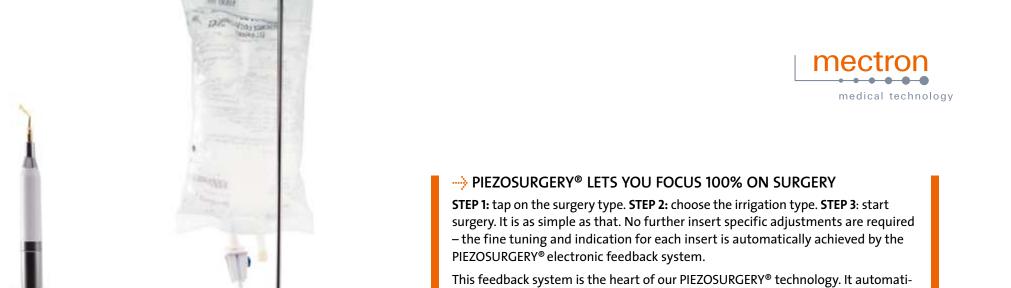
Oral Med Oral Pathol Oral Radiol. 2013 May;115(5):e1-5.

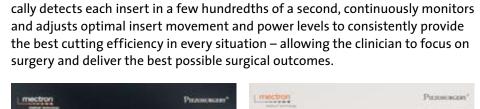
Extractions? J Oral Maxillofac Surg. 2014 Sep;72(9):1647-52.

---> immediate implant site preparation

- comparison of piezoelectric surgery and conventional bur. Int J Oral Maxillofac Surg. 2014 Aug; 43(8):966-71.
- preimplant augmentation procedures. J Oral Maxillofac Surg. 2007 Feb;65(2):275-80.
- --> Sivolella S, Berengo M, Scarin M, Mella F. Martinelli F. Autogenous particulate bone collected with a piezo-electric surgical device and bone trap: a microbiological and histomorphometric study. Arch Oral Biol. 2006; 51(10):883-891
- 🤿 Boioli LT, Etrillard P, Vercellotti T, Tecucianu JF. Piézochirurgie et aménagement osseux préimplantaire. Greffes par apposition de blocs d'os autogène avec prélèvement ramique. Implant. 2005: 11(4):261-274













WORKING EFFICIENCY

Providing the optimal ratio between power and security is one of the key success factors of every surgery. Thanks to its intelligent electronic feedback-system the original mectron PIEZOSURGERY® technology provides the maximum of power and achieves perfect cutting efficacy in every situation – for surgeries which are time-efficient, secure and successful



EXPERIENCE

IEZOSURGERY® touch and PIEZOSURGERY® GP are already the fourth and fifth generation of the original PIEZOSURGERY® technique. mectron has been designing and manufacturing PIEZOSURGERY® devices since 2001. This experience, plus the input f surgeons worldwide, has been incororated into our PIEZOSURGERY® devices.



FLEXIBLE IRRIGATION

- the irrigation system works with cost-effective standard parts
- is reusable
- standard connections for tubing



→ STERILE PROTECTION FOILS

The exclusive touch display of PIEZOSURGERY® touch and PIEZOSURGERY® GP can be protected with a dedicated, ndividually packaged, sterile transparent foil. Thanks to these invisible shields, no dirt, scratches or fingerprints will affect your keyboard.



FLEXIBLE HANDPIECE POSITION

- easy to adapt handpiece
- → 4 positions



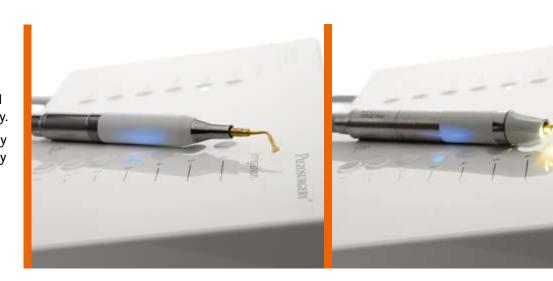


*** EXPERIENCE PROFITABILITY

Get started in bone surgery with the PIEZOSURGERY® GP

PIEZOSURGERY® GP is your perfect introduction into bone surgery with PIEZOSURGERY®: The PIEZOSURGERY® GP offers the ultimate in treatment safety, materials especially selected for ease in cleaning, disinfection and sterilization, and cost-effective standard parts for greatest economy.

If you have always wanted to use the revolutionary PIEZOSURGERY® technology, but were held back by budget constraints – here is your chance to take your bone surgery to the next level.





→ APC (AUTOMATIC PROTECTION CONTROL)

- ---> recognizes deviations from standard functioning automatically
- → stops power and liquid in less than 0,1 seconds
- ---> shows cause of the interruption on the keyboard

→ FLEXIBILITY → FLUSH FUNCTION

--- 360° function of the

foot control

- → started by a finger tip
 → cleaning cycle for
- the device's main irrigation tubes



→ HANDPIECE

- ---> choice between handpiece with or without
- → handpiece and handpiece cord (including the irrigation line) are fully sterilizable together → handpiece cord is extremely flexible

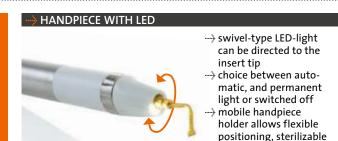
*** EXPERIENCE PERFECTION

mectron raises the standard for bone surgery to a completely new level with the PIEZOSURGERY® touch

The actual benchmark in bone surgery comes with 100% perfection in every detail. With simple, intuitive settings at the touch of your fingers, PIEZOSURGERY® touch is an extension of your body and maximizes your surgical skills to help ensure precise, safe, flawless surgical outcomes.

The PIEZOSURGERY® touch device has several innovative features including a black glass touch surface, handpieces with swivel LED lights for optimum visibility, a more compact and versatile console, and a new and improved computerized feedback system. For ease of use, this device also features intuitive setting controls as well as four handpiece holder configurations.

All it takes is a touch. You will experience the most comfortable device in bone surgery.







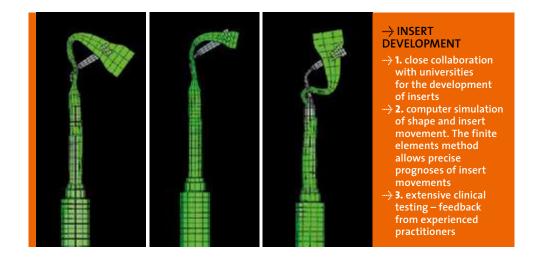




mectron continually develops new inserts – with clinicians, for clinicians

Who would have better ideas and suggestions for new surgical inserts than surgeons themselves? All PIEZOSURGERY® inserts are developed in response to specific clinical needs and result from collaborations with universities and clinical practitioners. Our rigorous insert development process includes finite elements analyses, computer simulations, serial prototyping, and extensive laboratory and clinical research.

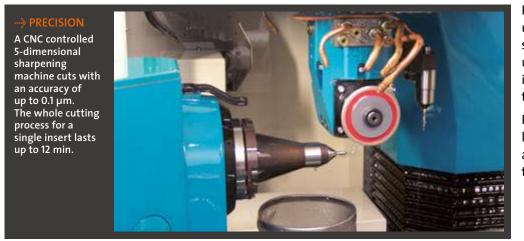
The perfect example of our expertise is the world's thinnest osteotomy insert with only 0.25 mm thickness. The best proof of our expertise is over 90 high quality insert designs are now available to surgeons worldwide – and new inserts are released every year.



and storage

EXPERIENCE QUALITY

mectron guarantees the highest quality standards for every insert



PIEZOSURGERY®'s unique cutting action results from the application of ultrasonic modulated vibrations to a surgical insert. To deliver the best surgical performance, the insert and handpiece must vibrate in unison up to 36,000 times per second. To withstand such enormous strain, all inserts are individually crafted from forged stainless steel and designed to couple with the handpiece perfectly for optimal tuning.

PIEZOSURGERY®'s proprietary, 12-step insert manufacturing process lasts several months and employs the finest materials and most advanced technological processes to guarantee that all inserts meet the highest quality and cutting efficiency standards.

---> SHARP INSERTS

- ---> gentle and effective bone cutting action ---> fine and well-defined
- cutting line preparation of difficult and --- used for implant site preparation, osteotomy techniques
- and bone chip harvesting

→ SMOOTHING INSERTS

- diamond-coated surfaces for precise and controlled osteoplasty on bone structures
- delicate structures (ex: sinus augmentation, nerve lateralization)
- preparation of the final bone

BLUNT INSERTS

- (ex: Schneiderian membrane)
- ---> root planing in periodontology

INSERT KITS → set of inserts for clinical application ---> stainless steel tray with depth markings



DIAMOND COATING

Depending on the indication. the inserts are coated with specially selected diamonds. The granulometry of the diamond coating is adapted to the respective treatment.

NITRIDE COATING

A coating of titanium nitride, applied to inserts, increases the hardness of the surface, avoids corrosion and therefore increases working life.



Each insert is labeled

gently by a laser.



→ QUALITY CHECK

Each insert is checked in detail before getting an OK for sales.



EXPERIENCE

SURGICAL CHOICES

PIEZOSURGERY® has dedicated inserts for a wide variety of clinical applications

PIEZOSURGERY® has over 90 inserts specifically designed in many applications in oral surgery and implantology, from sinus lift to ridge splitting, extractions and even orthognathic procedures.











































*** EXPERIENCE ULTRA-OSSEOINTEGRATION

PIEZOSURGERY® induces new bone formation, leading to faster osseointegration of dental implants

Implant site preparation with PIEZOSURGERY®, the revolutionary technique – safe and precise.

- → faster osseointegration: reduction of inflammatory cells and the more active neo-osteogenesis compared to drilled sites
- high intraoperatory control: the particular shape of the implant inserts allows a perfect control of the site preparation
- preparation of 2, 2.8, 3, 3.4 and 4 mm: site preparation with PIEZOSURGERY® allows placement of all common implants







- 1 initial pilot osteotomy
- **OPTIONAL:** check the preparation axis with alignment PIN IM1S
- 2 pilot osteotomy in anterior or posterior region OPTIONAL: check the preparation axis with alignment PIN 2-2.4
- It to optimize concentricity of implant site preparation between Ø 2 and Ø 3 mm, preparation of the cortical basal bone
- 4 to enlarge or to finalize the implant site preparation; insert with double irrigation for optimum cooling

→ IN LITERATURE

Ultrasonic implant site preparation using PIEZOSURGERY®: a multicenter case series study analyzing 3,579 implants with a 1- to 3-year follow-up.

Vercellotti T, Stacchi C, Russo C, Rebaudi A, Vincenzi G, Pratella U, Baldi D, Mozzati M, Monagheddu C, Sentineri R, Cuneo T, Di Alberti L, Carossa S, Schierano G.; Int J Periodontics Restorative Dent. 2014 Jan-Feb;34(1):11-8. doi: 10.11607/prd.1860

Abstract

This multicenter case series introduces an innovative ultrasonic implant site preparation (UISP) technique as an alternative to the use of traditional rotary instruments. A total of 3,579 implants were inserted in 1,885 subjects, and the sites were prepared using a specific ultrasonic device with a 1- to 3-year follow-up. No surgical complications related to the UISP protocol were reported for any of the implant sites. Seventy-eight implants (59 maxillary, 19 mandibular) failed within 5 months of insertion, for an overall osseointegration percentage of 97.82% (97.14% maxilla, 98.75% mandible). Three maxillary implants failed after 3 years of loading, with an overall implant survival rate of 97.74% (96.99% maxilla, 98.75% mandible).



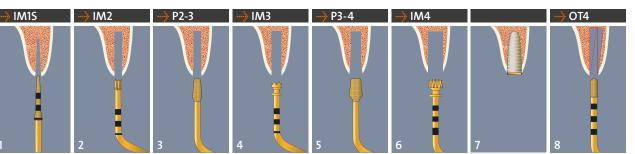
Cytokines and Growth Factors Involved in the Osseointegration of Oral Titanium Implants Positioned using Piezoelectric Bone Surgery Versus a Drill Technique: A Pilot Study in Minipigs.

Preti G, Martinasso G, Peirone B, Navone R, Manzella C, Muzio G, Russo C, Canuto RA, Schierano G.; J Periodontol. 2007: 78(4):716-722

Conclusion

Piezoelectric bone surgery appears to be more efficient in the first phases of bone healing; it induced an earlier increase in BMPs, controlled the inflammatory process better, and stimulated bone remodeling as early as 56 days post-treatment.





- 5 to optimize concentricity of implant site preparation between Ø 3 and Ø 4 mm, preparation of the cortical basal bone
- 6 to finalize the implant site preparation; insert with double irrigation to avoid overheating
- 7 implant positioning
- 8 OPTIONAL: to correct pilot osteotomy axis (differential implant site preparation), to finalize the implant site preparation close to the alveolar nerve





Sinus lift by lateral approach with PIEZOSURGERY® – after 15 years we re-define the protocol



1 Insert SLC – osteoplasty of the sinus vestibular wall

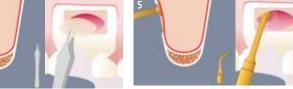


LO-H – bone window

3 Insert SLO-H – bone window detachment



window 4 Surgical forceps – bone window removal



5 Insert SLS – sinus membrane separation



6 Insert SLE1 – sinus membrane elevation from the sinus floor



7 Insert SLE2 – sinus membrane elevation from the palatal wall



8 Bone grafting procedure



9 Membrane placement

PEEEDENCES *

Vercellotti T, De Paoli S, Nevins M. The Piezoelectric Bony Window Osteotomy and Sinus Membrane Elevation: Introduction of a New Technique for Simplification of the Sinus Augmentation Procedure. Int J Periodontics Restorative Dent 2001; 21(6): 561-567 → reduce the risk of membrane perforation

protected thanks to the convexity of the tips

"Elephant Foot Shaped"

-> new SLC insert to perform the osteoplasty of the sinus vestibular wall with

-> new thin SLS membrane separator, more efficient than the old generation

--- new elevators (SLE1, SLE2) with sharp terminal part to cut Sharpey's fibers

from the endosteum with the maximum safety. The endosteum will be

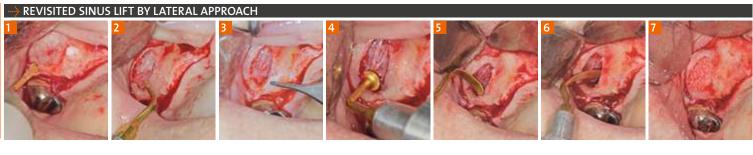
→ new insert SLE1 to start the sinus membrane elevation from the sinus floor → new insert SLE2 to finalize the sinus membrane elevation from the palatal wall

maximum safety and unparalleled intra-operative control

new high-efficiency and safe SLO-H osteotomy insert

- ---> Vercellotti T, Lang Niklaus P. "Piezosurgery in a DailyPractice" Forum Implantologicum : Volume 8, Issue 1
- ----> Stacchi C, Vercellotti T, Toschetti A, Speroni S, Salgarello S, Di Lenarda R. Intra-operative complications during sinus floor elevation using two different ultrasonic approaches. A two-center, randomized, controlled clinical trial. Clin Implant Dent Rel Res. 2013 Aug 22. [Epub ahead of print]
- —

 Stacchi C, Andolsek F, Berton F, Navarra CO, Perinetti G, Di Lenarda R. Intra-operative complications during sinus floor elevation with lateral approach: a systematic review. Clin Oral Implants Res., submitted



- 1 sinus vestibular wall consumption and sinus cavity identification (dark colour)
- 2 bony window osteotomy3 bony window removal
- sinus membrane separation from the bony window margins
- beginning of the sinus membrane elevation from the sinus floor
- 6 finalization of the sinus membrane elevation from the palatal wall
- bone grafting procedure

18

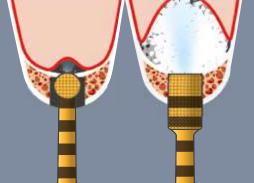


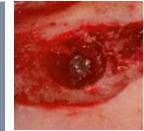
PIEZO-LIFT TECHNIQUE The insert PL3 works like a piston inside a cylinder

EXPERIENCE SAFETY

The new PIEZO-LIFT technique facilitates sinus lift, by crestal approach

→ New clinical protocol according to Tomaso Vercellotti





Bony ring of the sinus floor for maximal surgical security

---- EXPERIENCE CONTROL

SINUS PHYSIOLIFT® II simplifies the crestal approach to sinus lift and give

SINUS PHYSIOLIFT

you perfect control.

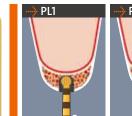
The SINUS PHYSIOLIFT® II controls the pressure in the sinus cavity!

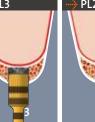
- Elevation of the sinus membrane with micrometric precision by means of hydrodynamic pressure
- → Watertight sinus elevators CS1 or CS2 for hydrodynamic sinus lift
- Atraumatic technique not requiring the use of hammer and osteotome
- Implant site preparation using PIEZOSURGERY® the insert P2-3 SP allows to remove the sinus basal cortex with minimal risk of penetrating into sinus cavity due to its conical shape
- → Multiple implant placement can be performed
- → A flapless procedure can be performed in some cases

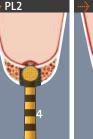


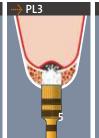


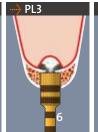


















- 1 Achieving the sinus floor
 2 Cylindrical bone cavity
 preparation
 3 Erosion of the floor and
 PIEZO-LIFT of membrane
 - 4 PIEZO-LIFT using cavitation effect
 - 5 Safe sinus lift
 - 6 Removal of the saftey bony ring
 - 7 PIEZO-LIFT technique 8 Implant placement

Hollow screw elevator will be placed with a micromotor or a ratchet.



CLINICAL OUTCOME

The radiographic controls showed that the graft material was distributed evenly around the implants, suggesting the integrity of the membrane.*

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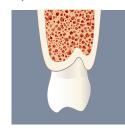
EXPERIENCE ACCESSIBILITY

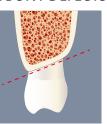
mectron optimizes access for osseous resective surgery

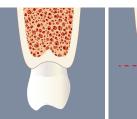
In collaboration with Professor Leonardo Trombelli and the University of Ferrara, Italy, mectron developed 5 inserts for osteoctomy and osteoplasty procedures in periodontal resective surgery.

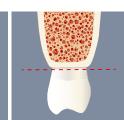
The combination of inserts with special shapes and dimensions makes it possible to perform controlled remodeling of the bony profile, avoiding the risk of damaging dental structures or other anatomically important structures. The precision and minimal invasiveness of PIEZOSURGERY® make these inserts a perfect tool for surgeons during the most delicate osteoplasty procedures in periodontal surgery.

→ INTERPROXIMAL BONY DEFECTS









→ VESTIBULAR AND LINGUAL OSTEOPLASTY



→ INSERTS OT13 AND OT14

Spherical inserts (Ø 1.8 and 2.3 mm), facilitating the surgical procedure in preparing buccal and lingual cortical bone. Their diamond coating of D150 allows an effective but still controlled bone modeling.

→ INSERTS OP8 AND OP9

Wedge-shaped perio files (respectively from 1.3 to 0.7 mm and from 2 to 1 mm thickness), with only 2 working surfaces, they allow interproximal osteoplasty without damaging adjacent root surfaces.

→ INSERT OP5A

Lanceolate shaped insert with a D90 diamond coating. It can be used for root planning and debridement as well as in interproximal spaces where perio files cannot properly access.

→ CRISS-CROSS SURFACE

The criss-cross surface works like a perio file. It allows very efficient bone remodeling and a longer life span of the insert.



1 vestibular view
2 occlusal view
3 preparation of bone defect with OT14
4+5 interproximal bone osteoplasty with OP8 and OP9
6 tunneling procedure with insert OP5A
7 interdental brush passage

→ PIEZOSURGERY® – HISTORY OF SUCCESS

BONE HEALING



As bone healing is not disturbed by the PIEZO-SURGERY®, but even seems to be improved this method will have a major influence on new minimally invasive bone surgery techniques with special regard to biomechanics.

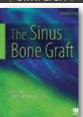
Stübinger S, Goethe JW. Bone Healing After PIEZOSURGERY® and its influence on Clinical **Applications.** Journal of Oral and Maxillofacial Surgery 2007, Sep;65(9):39.e7-39.e8.

SENSITIVITY



When using the PIEZO-SURGERY® technique, on the other hand, the effort required to make a cut is very slight. This means that greater precision is achieved, guaranteed by the microvibrations of the insert.

Boioli LT. Vercellotti T. Tecucianu JF. La chirurgie piézoélectrique: Une alternative aux techniques classiques de chirurgie osseuse. Inf Dent. 2004;86(41):2887-2893



The revolutionary surgical procedures, including sinus bone grafting. Vercellotti T, Nevins M, Jensen

Ole T. Piezoelectric Bone Quintessence Books. 2006;

SIMPLICITY

properties of piezoelectric surgery have simplified many common osseous

Surgery for Sinus Bone Grafting The Sinus Bone Graft, Second Edition. Edited by Ole T. Jensen. 23:273-279

SECURITY



The membrane perforation rate in this series of 100 consecutive cases using the piezoelectric technique has been reduced from the average reported rate of 30% with rotary instrumentation to 7%.

Wallace SS . Mazor Z. Froum SJ. Cho SC, Tarnow DP. Schneiderian membrane perforation rate during sinus elevation using piezosurgery: clinical results of 100 consecutive cases. Int J Periodontics Restorative Dent. 2007; 27(5):413-419



The morphometrical analysis revealed a statistically significant more voluminous size of the particles collected with PIEZOSURGERY® than rotating drills. Chiriac G, Herten M, Schwarz F, Rothamel D. Becker J. Auto-

genous bone chips: influence of a new piezoelectric device (PIEZOSURGERY®) on chips morphology, cell viability and differentiation. J Clin Periodontol. 2005; 32(9):994-999

PATIENT COMFORT



Microvibration and reduced noise minimize a patient's psychologic stress and fear during osteotomy under local anesthesia.

Sohn DS. Ahn MR. Lee WH. Yeo DS, Lim SY. Piezoelectric osteotomy for intraoral harvesting of bone blocks. Int J Periodontics Restorative Dent. 2007; 27(2):127-131

EXPERIENCE EXPERIENCE

mectron has been defining the future of bone surgery for the past 20 years, and it's evidence-based

For over 20 years we have had ongoing collaborations with clinical practitioners and research institutions worldwide. PIEZOSURGERY® technology is supported by more than 250 clinical and scientific studies; you will not find this substantiation with devices other than PIEZOSURGERY®.

We invite you to educate yourself on the benefits of our technology by reviewing the extensive peer-reviewed literature. Selected examples of the breadth of benefits associated with PIEZOSURGERY® are collected in our Scientific Abstracts, available for download at www.mectron.com.



- → mectron and Prof. → first lateral Tomaso Vercellotti developed the idea of piezoelectric bone surgery
- mectron produces the first prototype devices
- treatments

sinus lift treatments

---> first extraction

1999

---> Prof. Tomaso Vercellotti introduced the name for the new method

PIEZOSURGERY® splitting treatments in

the maxilla

first case studies about ridge expan-sion are mectron starts serial . PIEZOSURGERY

- ----> first crestal sinus lift
 - → Piezosurgery® I, the world-wide first unit of piezoelectric bone surgery, is presented by mectron at IDS → over 20 inserts are
 - available → first study about sinus lift with PIEZOSURGERY® presented

2002

- ---- development of periodontal resection surgeries block grafting
- ---> first bone treatments

and better ergonomics mectron presents the 2nd generation **PIEZOSURGERY®** device irst orthodontic microsurgery

treatments

more powerful

- - about PIEZOSURGERY® are published the first competitive units are launched preparation treatments using

2005

→ more than 30

scientific studies

PIEZOSURGERY®

→ 2007



PIEZOSURGERY® - the third



> SINUS PHYSIOLIFT® kit for crestal sinus lift is presented

2010

exclusive inserts PIEZOSURGER for explantation touch opens a of cylindric and new era in piezoelectric tapered implants bone surgery

2013

presented



GP - the new entry level ur presented piezoelectric periosteum reparation

PIEZOSURGER'

revolutionary technique for crestal sinus lift is presented

2016

» PIEZO-LIFT ---> new LATERAL SINUS KIT revisited technique for lateral sinus

* You will find a selection of clinical and scientifical studies about mectron PIEZOSURGERY® in the brochure "Scientific Abstracts - 18 years of clinical research". A downloadable version is available at the mectron website www.mectron.com.



*** EXPERIENCE EDUCATION

mectron is committed to ensuring you get the best knowledge of PIEZOSURGERY® method



PIEZOSURGERY® has caused a paradigm shift in osseous surgery and has become the new standard of care in oral and periodontal surgery. In addition to its revolutionary technology, its unique level of quality and its optimal ergonomic features, there is yet one more important factor to success with PIEZOSURGERY® technology: you.





→ PIEZOSURGERY.MECTRON.COM

Visit our website at piezosurgery.mectron.com and discover the latest surgical videos and clinical animations allowing an easy orien-tation about the possibilities PIEZOSURGERY® is offering.

→ WWW.PIEZO-NET.ORG

PIEZOSURGERY® Network is an international community of mectron PIEZOSURGERY® users interested to share their experiences and knowledge. The website presents clinical cases and informs about the latest clinical and technical developements



WWW.MECTRON.COM/EDUCATION

On www.mectron.com we offer you even more seminars: In the section courses and workshops you will find different seminars on PIEZOSURGERY® in English. Please contact your mectron partner for the courses in your local language – you will find the contact address in the dealer list on our website.

*** EXPERIENCE THE MARKET LEADER

PIEZOSURGERY®'s clinical superiority is recognized and endorsed by leading clinicians worldwide.



"New technology should allow a clinician to do something better, quicker or allow something that could not be done before. The Piezosurgery® unit fits those criteria for myself and the other three doctors in the practice."

Dr. Ralph Wilson, Paradise Valley, Arizona



"The Piezosurgery® unit has allowed me to perform very precise and minimally invasive procedures for my patients and it out-performs any of the other "piezo" units. This is the standard and original with substantial documentation and research behind it."

Dr. Sascha Jovanovic, Los Angeles, California



"I would not be able to achieve the same results with the same precision and lack of complications and morbidity as I am able to with this unit. THIS is the return on investment. I like the power and tactile feedback I get with the Mectron Piezosurgery® unit and knowing that the tip designs are validated by research has made this the preferred machine for me."

Dr. Giles Horrocks, Boulder, Colorado



"I use Piezosurgery® for almost all surgical procedures; it reduces my surgical stress while improving patient outcomes. This equals fun for me and it is evidence-based."

Dr. Robert Levine, Philadelphia, Pennsylvania



"The incorporation of Piezosurgery® into both my private practice and Institute over the past 8 years has indeed resulted in a distinct paradigm shift with all of my bone grafting protocols. This exciting technology has afforded me the ability to fine tune and finesse all bone related surgery including donor and recipient site preparation for bone grafting and implant placement, as well as extraction site management and implant removal."

Dr. Michael Pikos, Trinity, Florida



"I have enjoyed using the Piezosurgery® system. I use it daily to remove teeth. By using this system, I can remove a tooth with virtually no loss of buccal or labial bone, from molars to incisors. I have also been using it for all of my sinus windows with collection of the bone for sinus graft. The system is reliable and well worth the money."

Dr. Michael Block, New Orleans, Louisiana



"I have been using Piezosurgery® in my OMS practice since 2007. Piezosurgery® provides a new level of precision, efficiency and safety in surgical treatment. Complicated procedures including Sinus Grafting, Ridge Expansion and Nerve Repositioning can be performed with less stress and have an expanded role in my practice. The speed of the unit is impressive, reducing operative time and patient discomfort."

Dr. Daniel Cullum, Coeur d'Alene, Idaho



"A friend's daughter recently came to me to have an impacted super numeral tooth removed. Upon taking a panorex radiograph, I discovered it was below the apex of the pre-molar and below the mandibular inferior alveolar canal. To my surprise, the CT showed it was against the lingual plate. I had to reflect the lingual tissue and mylohyoid muscle to gain access to the site."

Dr. Craig Misch, Sarasota, Florida

PIEZOSURGERY INCORPORATED a mectron company

is manufactured by:

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