

Safe and atraumatic ultrasonic piezo bone surgery



OPERATING ROOM
CERTIFIED



● ULTRASONIC PIEZO CLINICAL BENEFITS

Ultrasonic piezo bone surgery was initially used by CMF surgeons and then extended to many other specialties, due to its great clinical benefits in oral and extra-oral surgeries:

Intraoperative

Safety

Selective cut: soft tissues are preserved
(nerve, arteries, dura mater)
Avoid bone overheating

Precision

Thin & precise osteotomies
Maximize bone volume

Comfort

No handpiece vibration
Low pressure

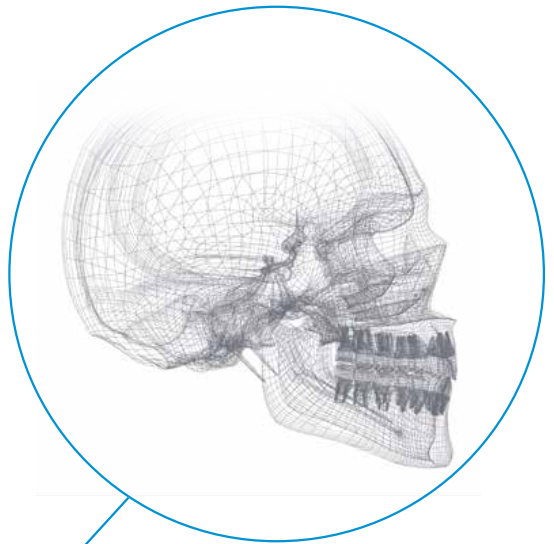
Post-operative

Smoothness

Reduced pain
Less swelling and bruising
More natural results

Healing

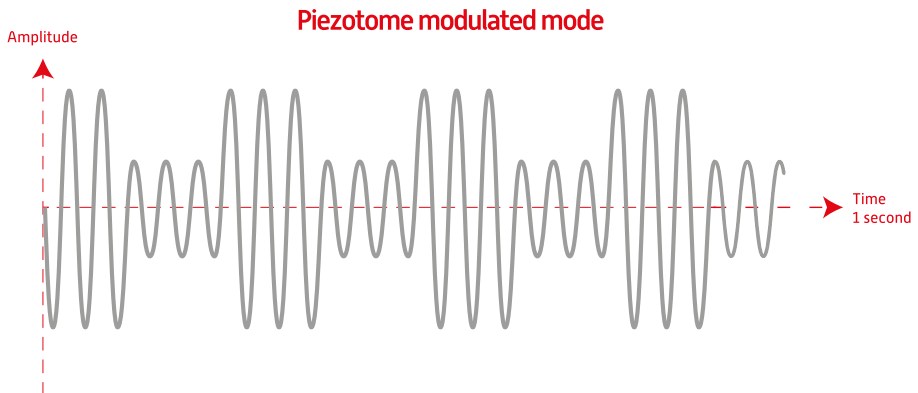
Favors bone regeneration
Fast recovery
Stable and long term results



● MINIMALLY INVASIVE SURGERY

Safety

The generator produces a modulated frequency ranging from 28 to 36 kHz. This signal alternates between high and low amplitude, known as the PIEZOTOME® modulated mode. The bone is cut at a frequency close to its relaxation frequency, limiting the risk of injury to fragile anatomical structures [nerves, arteries]. Bone cutting is precise, cell regeneration is optimized and the healing is of high quality. The ultrasonic piezoelectric technology is suitable for any type of oral or extra-oral surgery where **precision and safety** is a must.



References

Gerbault O, Daniel RK, Kosins AM. **The role of Piezoelectric Instrumentation in Rhinoplasty Surgery.** *Aesthetic Surgery Journal* 2015;36[1]:21-34.

A. Troedhan, MD, DMD, PhD. **Piezotome Rhinoplasty Reduces Postsurgical Morbidity and Enhances Patient Satisfaction: A Multidisciplinary Clinical Study.** *Journal of Oral and Maxillofacial Surgery*, Volume 74, Issue 8, 1659.e1 - 1659.e11

Reside J, Everett E, Padilla R, Arce R, Miguez P, Brodala N, De Kok I, Nares S. **In vivo assessment of bone healing following PIEZOTOME® ultrasonic instrumentation.** *Clinical Implant Dentistry Related Research* 2015;17[2]:384-94. Doi: 10.1111/cid.12094. Epub 2013 jun 13.

Compendium (upon request).
Safe and atraumatic ultrasonic piezo bone surgery

When Safety & Efficacy Matter

● NEWTRON® TECHNOLOGY

The Perfect Match

Ultrasonic power generators are piloted by patented NEWTRON® technology electronics. The electronic module, the handpiece and the tips are perfectly tuned providing great efficacy and clinical benefits.



PRESERVATION

Soft tissue preservation

Safety: preserve soft tissue
(Piezo modulated mode)

Bone preservation

Highly precise cut
Linear tip vibrations
Controlled and regular tip amplitude

EFFICACY

Frequency adjustment

Maximum performance for each tip
Optimal and continuous efficiency
irrespective of the load applied

COMFORT

Power regulation

Constant performance even in dense bone
Effortless cutting without pressure

For both surgeon and patient

Safe with effortless cutting
Increased tactile sensation
Reduced post-operative pain

● MINIMALLY INVASIVE SURGERY

Efficacy

Electric current generates a deformation of the piezoceramic rings. The movement of these rings leads to vibrations, thus the tip vibrates in a very regular longitudinal movement.

Patented electronic technology

6 ceramic rings for a boosted handpiece



Our powerful piezoelectric generators broaden the scope of surgical applications

When Safety & Efficacy Matter

● THE CHOICE OF HIGH TECHNOLOGY

COMEG devices are operating room certified. Approved by independent notified body, each device fulfills the most demanding medical regulatory standards. The advanced electronics prevent any interfering emissions.

Find out more from your biomedical engineer.



CONCENTRATED
ULTRASONICS



THE ULTRASONIC
EXPERT

IMPLANTCENTER M+
Piezo • Ultrasonic • Surgery • Implantology Unit

PIEZOTOME M+
Piezo • Ultrasonic • Surgery • Unit



THE ALLIANCE
OF TECHNOLOGIES

OPERATING ROOM
CERTIFIED

Class IIb
Equipotential plug
IEC 60601-1 3rd Edition
Footswitch certified IPX6 & IPX8
BVS Safety Marking (USA only)

Technology

CONCENTRATED ULTRASONICS

PIEZOTOME® Solo M+, compact and efficient, brings together all of the powerful, reliable and safe components of the M+ range for maximum performance and safety.

Clinical indications

Active on hard tissue while preserving soft tissue.

Small bones osteotomies, osteoplasties, drilling, smoothing where safety and precision are essential.

Concentrated
ultrasonics
for bone surgery
in an easy and
powerful device



Power mode
from d1
(most powerful)
to d4

d1

d2

d3

d4



OPERATING ROOM
CERTIFIED

DELIVERED WITH

- 1x bracket
- 5x 3m single use irrigation lines with perforators
- 1x handpiece holders
- 1x IPX6 M+ footswitch
- 1x M+ wrench
- 1x 3m mains cord

• CONNECTED ACCESSORIES



PIEZOTOME® M+ LED handpiece

- Boosted handpiece: 6 ceramic rings
- Cold LED light for high visibility and low heat generation
- 3m long cord adapted to the operating room environment



Peristaltic pump for controlled irrigation

- Quick set-up
- Robust
- Precise and constant flow rate
[avoids bone overheating]
- Silent running



Footswitch (operating room certified IPX6 guarantee against water-jet)

Makes it possible to control the principal actions to respond to the sterile environment:

- Power mode
- Ultrasound ON/OFF

PIEZOTOME® Solo M+

● ULTRASONICS EXPERT

PIEZOTOME® M+ is a versatile device. Its dual connection allows you to connect two handpieces thus enabling faster clinical procedures. Easy adjustment settings with its touch screen and multifunction footswitch for perfect control throughout the surgical procedure.

The ultrasonic expert for fast and secure bone surgery

PIEZOTOME M+
Piezo. Ultrasonic. Surgery. Unit



OPERATING ROOM
CERTIFIED

DELIVERED WITH
2x brackets
5x 3m single use irrigation lines with perforators
2x handpiece holders
1x IPX8 M+ multifunction footswitch
1x M+ wrench
1x 3m mains cord

• CONNECTED ACCESSORIES



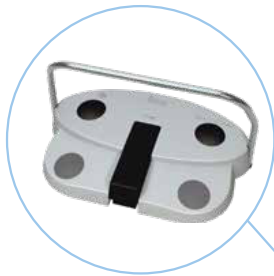
PIEZOTOME® M+ LED handpiece

- 2 handpiece connections
- Boosted handpiece: 6 ceramic rings
- Cold LED light for high visibility and low heat generation
- 3m long cord adapted to the operating room environment



Touch interface

- Large 5.7 operator-oriented screen
- Easy and intuitive settings
- Memory function



Footswitch (operating room certified IPX8 guarantee watertightness)

Easy to move due to its arch, offers optimal control of the main functions:

- Power settings
- Choice of the active handpiece
- PIEZOTOUCH mode:
progressive power regulation

PIEZOTOME® M+

• THE ALLIANCE OF TECHNOLOGIES

IMPLANTCENTER M+ is a unique concept combining the power of a rotary motor and the safety of piezoelectric instrumentations. It therefore ensures total independence for the surgeon and leads to a multitude of surgeries.

The alliance
of technologies
for safe and
atraumatic
bone surgery



OPERATING ROOM
CERTIFIED

DELIVERED WITH
1x I-SURGE™ LED micromotor
2x brackets
5x 3m single use irrigation lines with perforators
2x handpiece holders
1x IPX8 M+ multifunction footswitch
1x M+ wrench
1x 3m mains cord

● DIVERSITY OF CONNECTED ACCESSORIES

The perfect alliance of rotating and ultrasonic technologies.



The rotating motor

Features

Cranio-Maxillo-Facial certified
Durable (brushless motor):
robust, maintenance-free
No vibration
Sterilizable for perfect asepsis

Performances

Perfect balance between torque
and speed for unmatched stability
High torque: 6Ncm
Large speed rotation motor:
100 - 40.000Rpm



PIEZOTOME® M+ LED handpiece

Boosted handpiece: 6 ceramic rings
Cold LED light improved and low heat
generation
3 m long cord adapted to the operating
room environment



Footswitch (operating room certified IPX8 guarantee watertightness)

Easy to move due to its arch, offers optimal
control of the main functions:

Global unit control
PIEZOTOUCH mode:
progressive power regulation

IMPLANTCENTER M+

● ACCESSORIES

Performance comes together with specifically designed long lasting durable components.



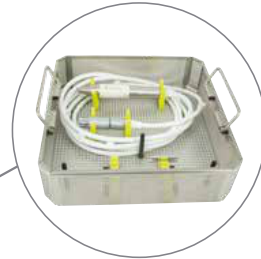
Handpiece **POWERFUL**

- 6 Ceramic rings for faster surgeries
- Cold LED light (100,000 Lux) for enhanced visibility even in posterior areas
- No overheating
- Lighweight handpiece for an easy handling and less hand fatigue



Perfect asepsis

- Fully sterilizable (autoclavable & washer-disinfectable)
- Nose easily dismantled for perfect asepsis



All in one

- Delivered in its autoclavable metal case
 - Ready for sterilization
- Ref. F57802**



Pump & Irrigation **SAFE**

A perfect control of irrigation is necessary for:

- Removing bone debris
- Reducing the risk of bone necrosis
- Generating a hemostatic effect due to the cavitation (implosion of microbubbles releasing oxygen)

Peristaltic pump for controlled irrigation

- Quick set-up
- Robust
- Precise and constant flow rate [avoids bone overheating]
- Silent running

Disposable irrigation line

- Ref. F57378 x1
- Ref. F57379 set of 5



Tips **ROBUST**

- Designed to respect the patients anatomy
- Fast assembly screwing system: saves time during surgery
- Medical grade stainless steel
- Strengthened by thermic and surface treatments
- Synthetic diamond-coated tip
- Sterile tips treatment: gamma-ray

Kits & tips

- Disposable, delivered sterile or
- 5x re-usable, delivered non-sterile

Connected

● ULTRASONIC CRANIO-MAXILLO-FACIAL SURGERY

Piezoelectric surgery is a new bone cutting technique increasing safety especially in anatomically difficult to reach areas.

Micrometric vibrations ensure very thin and precise osteotomies with stable and long term results for a broad range of clinical applications:

Cranio

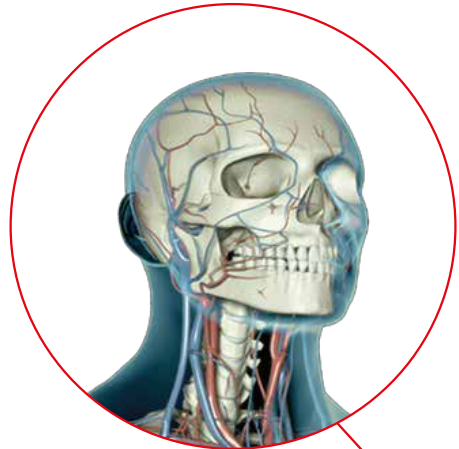
Frontal sinus osteotomy
Craniosynostosis
Parietal graft

Maxillo

LeFort I osteotomy
Bilateral Sagittal Split Osteotomy (B.S.S.O)
Genioplasty

Facial

LeFort II & III osteotomy
Zygomatic bone osteotomy
Reconstruction



v.Prof.Dr.Dr. Troedhan, Vienna, Austria

"The M+ Piezosurgical device, for the first time in the history of Piezoelectric-Surgery provides sufficient power for a fast surgical procedure in all cases of large osteotomies in orthognathic surgery, reconstructive surgery needing large autologous bone-transplants from the skull and in cosmetic surgery on facial hard-tissues. With its unrivaled precision and atraumaticity in bone-cutting CMF surgical procedures can usually be completed in less time than with traditional rotary or oscillating instruments with substantially less blood loss. In facial cosmetic surgery the application of newly developed ultrasonic surgical protocols provide a significant reduction of postsurgical morbidity and enhanced patient satisfaction with the outcome."

FOR SAFER AND MORE ACCURATE SURGERY



CMF kit	BS1L	BS2L XL	BS2R XL	BS1RD	SL1	BS4
F57803	F87612	F87605	F87606	F87608	F87618	F87615
F57804	F87982	F87983	F87984	F87985	F87974	F87978

5x re-usable
Single use

BS1L - Saw

Saw (0.6mm) with laser marking at 3, 6, 9, 12 and 15mm
Deep osteotomy

SL1 - Diamond-coated

Vestibular bone window cut
Smoothing of sharp angles
Bone incisions close to delicate structures

BS2L XL & BS2R XL - Left & Right angled saws

Long lateral saws (39.5mm length) for easier access adapted to patients anatomy
Osteotomy

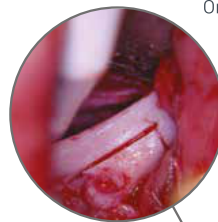
BS4 - Circular scalpel

Osteoplasty
Bone harvesting

BS1RD - Rounded saw

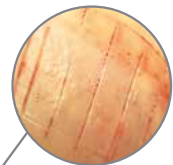
With its rounded shape the tip is active on a 280° surface and its length (40mm) makes it possible to reach posterior areas easily

Orthognathic surgery



Courtesy of
Dr Troedhan, Vienna, Austria

Cranial surgery



Courtesy of
Dr Solyom, Toulouse, France

CMF

● OPEN ULTRASONIC RHINOPLASTY

A smooth and less traumatic procedure offering precise bone reshaping and controllable long term results.

Precise bone treatment

The new ultrasonic rhinoplasty protocol allows default corrections (nose too hard, too wide or bumpy) with no unwanted fracture even on brittle, thin or unstable bones.

Direct vision

Surgery performed under direct vision for enhanced precision.

Fast recovery

Faster social-life re-integration: less ecchymosis and edema with more natural results.

Ultrasonic rhinosculpture

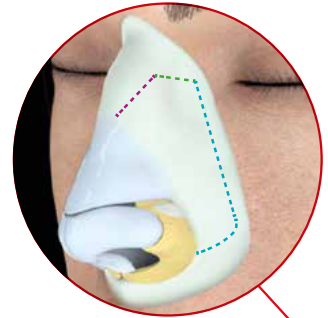
RHS2Hb and RHS2Fb tips are designed to sculpt bones without fracturing them

Rhinoplasty with precise osteotomies

--- Lateral osteotomy RHS3L or RHS3R

--- Transverse osteotomy RHS3L or RHS3R

--- Median oblique osteotomy RHS5



Dr Gerbault MD, Vincennes, France

" Piezoelectric surgery is a real disruptive technology in rhinoplasty, it allows a paradigm shift in the way of reshaping bones in rhinoplasty. It simplifies dramatically the way to perform hump reduction and osteotomies in rhinoplasty and adds a new dimension by allowing the possibility to sculpt and to polish nasal bones. Stable bones can be positioned with an unparalleled accuracy under direct vision and reshaped to achieve a perfect symmetry and smoothness of the bony vault. Moreover, this technique is easy, with a quick learning curve, simple to teach and the recovery is very fast as post-op ecchymosis is significantly reduced. For the first time in the history of rhinoplasty, a custom reshaping of the nasal bones is easily achievable. "

THE ESSENTIALS: GERBAULT RHINOPLASTY TIPS

Developed in collaboration with Dr. Gerbault, these tips are designed specifically for the nose anatomy; they do not alter the skin nor the blood vessels allowing for a quicker post-surgical recovery.



Rhinoplasty Gerbault Kit	RHS2Hb	RHS2Fb	RHS3L	RHS3R	RHS5	RHS6
F87681 F87999	F87686 F87969	F87687 F87968	F87677 F87991	F87678 F87992	F87679 F87993	F87680 F87994

5x re-usable
Single use



RHS2Hb - Hard rasp
Use on thick skin or dense bone

RHS2Fb - Fine rasp
Use on thin skin or thin bone

- Fine reshaping of the nose pyramid
- Removal of the bony hump
- Smoothing of bone irregularities
- Smoothing of bone and hard cartilaginous graft

RHS3L & RHS3R - Rounded saws

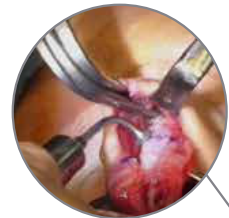
Left & Right angled saws
Lateral and transversal osteotomies

RHS5 - Thin saw

Straight thin saw
Median oblique osteotomy
Rib graft

RHS6 - Diamond-coated drill

Diamond-coated tip dedicated to nasal bone drilling or nasal spine drilling
Bone suture
Septal suture to bone



Courtesy of Dr Gerbault,
Vincennes, France

Rhinoplasty

THE EXPERTS: GERBAULT RHINOPLASTY TIPS

The Expert kit provides unprecedented bone access. Each tip has been designed specifically to respect the anatomy and answer to the different steps of bone treatment in rhinoplasty, from bone rasping to osteotomies with a completely unobstructed and clear view. Thus, any bone convexity or asymmetry can be assessed and treated.

Rhinoplasty Gerbault Expert Kit



	RHS1	RHS2Hb	RHS2Fb	RHS3L	RHS3R
F87689	F87688	F87686	F87687	F87677	F87678
F88000	F87996	F87969	F87968	F87991	F87992



RHS4L	RHS4R	RHS5	RHS6
F87683	F87682	F87679	F87680
F87998	F87997	F87993	F87994



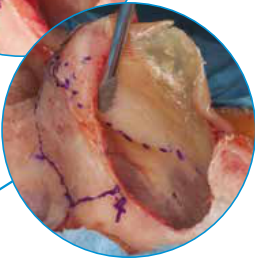
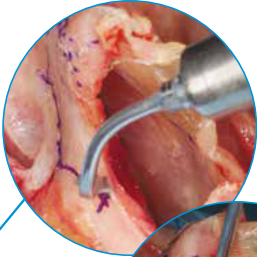
Dr Gerbault MD, Vincennes, France

5x re-usable
Single use

"Rhinoplasty has dramatically changed with ultrasonic rhinoplasty: from a partially blind approach where bones were rasped and broken with the risk of unwanted fracture, it has become a completely visually controlled operation where bones are reshaped and mobilized without altering their stability. This accurate control on shape, position and smoothness of bones is achievable thanks to the use of piezoelectric instruments through a wide sub periosteal exposure of the whole bony vault, and is safe as they don't damage soft tissues and preserve bone supports. Ultrasonic rhinoplasty is an easy procedure. The dorsum and keystone smoothness is achieved by using very thin saws and rasps. Bones can be drilled to suture cartilages to bones, change their orientation or to improve their stability. Finally, long piezoelectric tips enable to straighten the septum or to harvest long pieces of septum without risking to destabilize it. Piezoelectric surgery is part of the current evolutions of 21st century surgery: aesthetic and functional rhinoplasty are profoundly impacted by this disruptive technology."

● SHAPED FOR ALL TYPES OF NOSE

COMEG miniaturized rhinoplasty instruments paired with M+ piezoelectric ultrasonic devices allow the reshaping and mobilization of bones without sacrificing bone stability as soft tissue is preserved.



RHS1 - Scraper

Curved tip to remove important bone excess: osteotomy on dense bone and in case of thick skin

Nasal pyramid remodeling

Osteotomy of the dorsal hump and lateral convexity

RHS2Hb - Hard rasp

Use on thick skin or dense bone

RHS2Fb - Fine rasp

Use on thin skin or thin bone

Fine reshaping of the nose pyramid

Removal of the bony hump

Smoothing of bone irregularities

Smoothing of bone and hard cartilaginous graft

RHS3L & RHS3R - Rounded saws

Left & Right angled saws

Lateral osteotomies

RHS4L & RHS4R - Angulated saws

Left & Right angled saws

Transverse osteotomies

Partial costal bone grafting

RHS5 - Straight saw

Straight thin saw

Median oblique osteotomy

Costal bone grafting

RHS6 - Diamond-coated drill

Diamond-coated tip dedicated to nasal bone drilling or nasal spine drilling

Bone suture

Septal suture to bone

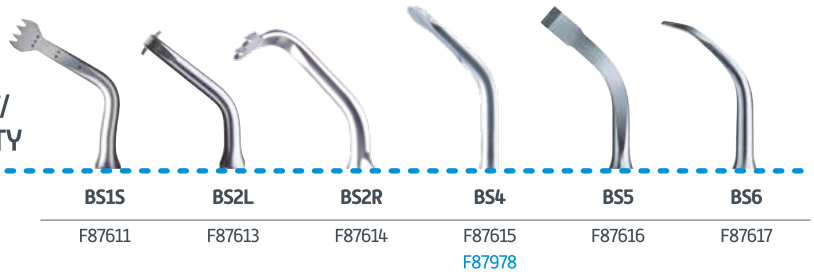
*Courtesy of Dr Gerbault,
Vincennes, France*

Rhinoplasty

A COMPLETE AND DIVERSIFIED RANGE

OSTEOTOMY/ OSTEOPLASTY

Clean and thin cut
for maximal
bone volume



LATERAL SINUS LIFT

Maximal comfort:
selective and hemostatic cut



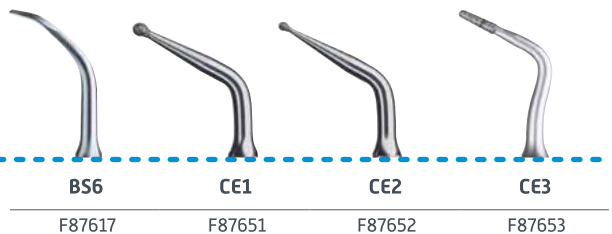
SYNDESMOTOMY

For maximum
bone preservation



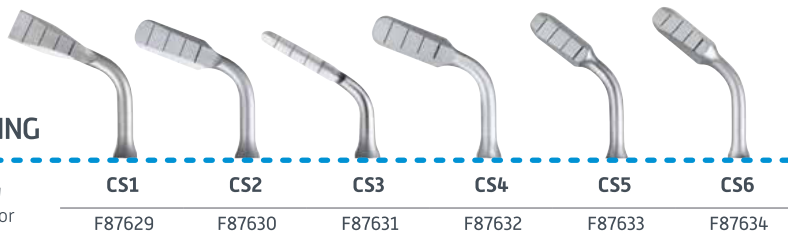
CROWN EXTENSION

Excellent precision and accessibility



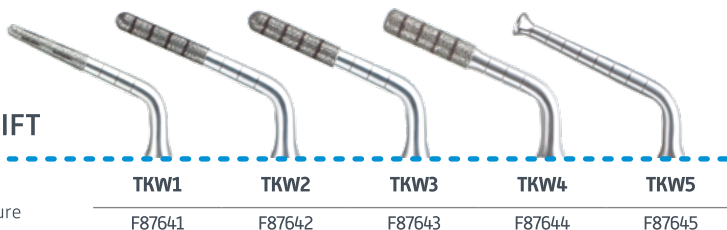
CREST SPLITTING

Rapid and minimally
invasive technique for
controlled expansion

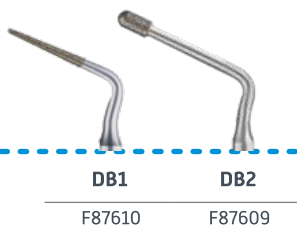


CRESTAL SINUS LIFT

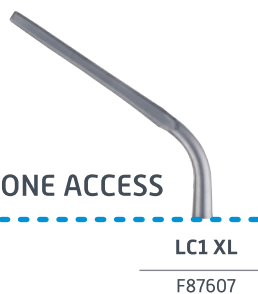
Minimally invasive surgery
for smooth sinus floor fracture



BONE DRILLING & REMODELING

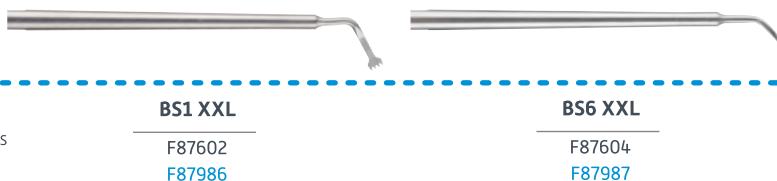


DEEP BONE ACCESS



LONG LENGTH TIPS

For minimally invasive
techniques and easier access



Clinical Expertise

RhinoPlasty
GERBAULT

RhinoPlasty
Expert - GERBAULT

OtherTips

SinusLift

CrestSplitting

TIPS	Recommended mode	Fine setting*	Irrigation ml/mn
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Rhinoplasty Basic & Expert

RHS1	D1	3	60
RHS2Fb	D1	3	60
RHS2Hb	D1	3	60
RHS3L/RHS3R	D1	3	60
RHS4L/RHS4R	D1	3	60
RHS5	D1	3	60
RHS6	D1	3	80

Bone Drilling & Remodeling

DB1	D1	3	80
DB2	D1	3	80-100

Deep Bone Access

LC1XL	D1	3	80-100
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Long Length Tips

BS1XXL	D1	3	80
BS6XXL	D1	3	80

Lateral sinus lift

SL1	D1	3	60
SL2	D1	3	60
SL3	D4	3	50
SL4	D4	3	30
SL5	D4	3	30

Crest Splitting

	Mandible	Maxilla		
CS1	D2	D3	3	80-100
CS2	D2	D3	3	80-100
CS3	D2	D3	3	80-100
CS4	D2	D3	3	80-100
CS5	D2	D3	3	80-100
CS6	D2	D3	3	80-100

CranioMaxilloFacial

TIPS	Recommended mode	Fine setting*	Irrigation ml/mn
Cranio-Maxillo-Facial (CMF)			
BS1L	D1	3	60
BS1RD	D1	3	80
BS2LXL/BS2RXL	D1	3	60
BS4	D1	3	60
SL1	D1	3	60

BoneSurgery

TIPS	Recommended mode	Fine setting*	Irrigation ml/mn
Osteotomy & Osteoplasty			
BS1S	D1	3	60
BS2L/BS2R	D1	3	60
BS4	D1	3	60
BS5	D3	3	60
BS6	D1	3	60

IntraLift

TIPS	Recommended mode	Fine setting*	Irrigation ml/mn
Crestal sinus lift			
TKW1	D2	3	100
TKW2	D2	3	100
TKW3	D2	3	100
TKW4	D2	3	100
TKW5	D2	3	100

Extraction

TIPS	Recommended mode	Fine setting*	Irrigation ml/mn
Syndesmotomy			
LC1	D1	3	80-100
LC2	D1	3	80-100
LC2L/LC2R	D1	3	80-100
NINJA	D1	3	80-100

CrownExtansion

TIPS	Recommended mode	Fine setting*	Irrigation ml/mn
Crown extension			
BS6	D1	3	60
CE1	D1	3	60-80
CE2	D2	3	60-80
CE3	D1	3	60-80

*Not applicable to Piezotome® Solo M+

Tips Settings

• THE BEST FOR YOU...

1

SECURITY: Cutting selectivity, no soft tissue lesions

" Piezotom® surgery is superior in atraumaticity and soft-tissue safety (...) no lesions of the mandible nerve were detected with Piezotome® surgery¹ → "0 lesion with Piezotome® vs 16% of hypesthesia with rotary instruments"

LeFort I osteotomy "...total absence of soft tissue injuries, both in the posterior pedicle and in the vascular elements and palatal tissues"²

" ACTEON® produced the least increase of intraosseous temperature" versus competitors units³

2

GREAT INTRAOPERATIVE CONTROL: Optimal visibility (cavitation), limits blood (hemostasis), remove bone debris and avoid temperature rises

" Throughout the procedure a clear and stable view was achieved, with a low level of bleeding and adequate irrigation of the cutting area"²

3

FAST PROCEDURE:

" ... in 5 cases in which we used this technique, the duration of the osteotomy was 8 to 15 minutes, a trivial period in the entire surgery"⁴

" A very quick performance was observed using Piezotome®"²

PIEZOTOME® = 137s

vs Piezon Master Surgery: 142s / vs Piezosurgery 3: 144s / vs VarioSurg : 149s

1- Ultrasonic Piezotom® Surgery: is it a benefit for our patients and does it extend surgery time? A retrospective comparative study on the removal of 100 impacted mandibular 3rd molar. A.Troedhan, A.Kurdek, M.Wainwright. Open Journal of Stomatology, 20113

2- LeFort I segmented osteotomy experience with Piezosurgery in orthognathic surgery. S.Olate, L.Pozzer, A.Unibazo, C.Huentequeo-Molina, F.Martinez, M.de Moraes. Int J Clin Exp Med 2014;7(8):2092-2095

3- Performance of ultrasonic devices for bone surgery and associated intraosseous temperature development. S.Harder, S.Wolfart, C.Mehl, M.Kern. The International Journal of Maxillofacial Implants Volume24, Number 3, 2009

4- Mandibular condylectomy revisited: technical notes concerning the use of an ultrasonic system. S.Olate and al. J Oral Maxillofac Surg 2013

... AND FOR YOUR PATIENTS

1

BETTER HEALING PROCESS AND BONE REGENERATION

" Piezoelectric instrumentation favors preservation of bone⁴
Better bone turnover and densification "Bone instrumented
by piezoelectric surgery appears less detrimental to bone
healing than high-speed rotating device"⁴

2

SMOOTHNESS: Less traumatic

Decreased postsurgical morbidity "...significant reduction
or almost absence of postsurgical ecchymosis/edema and
significant reduction of pain"⁵
" Increased patient satisfaction significantly⁵
More natural results

3

SAFE AND STABLE RESULTS

Stable and long term results "...osteotomies can be performed
with stability, because the underlying periosteum and mucosa
are not damaged..." & "...allow the surgeon to easily stabilize
unstable bones by drilling holes"⁶

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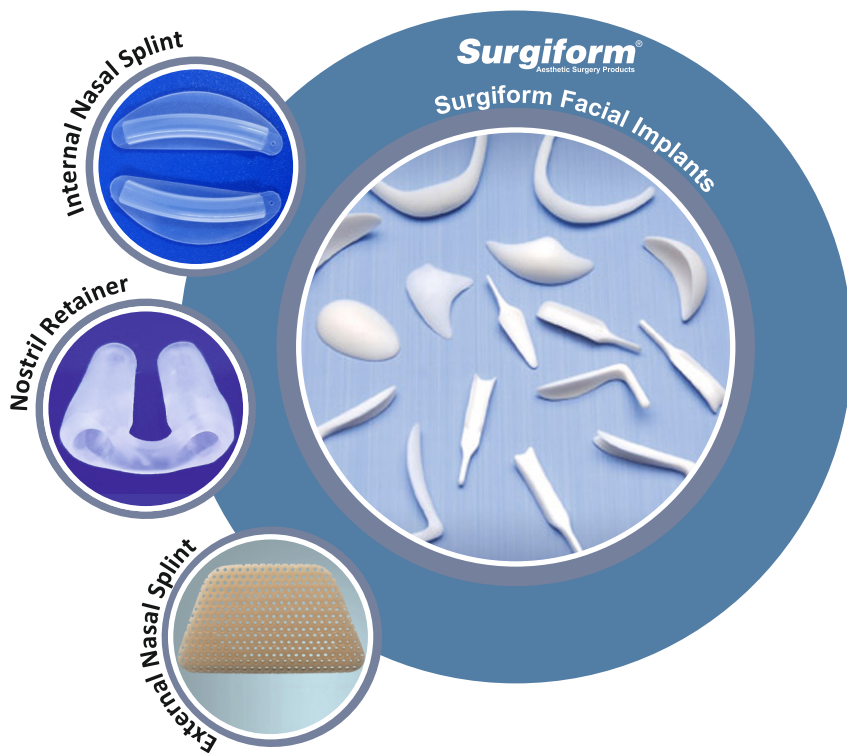
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