

I AM
POWERFULLY
RESPONSIVE

VISUAL AID

**Dynamic power
responsiveness
for superior osseous
surgery**



I AM POWERFULLY
RESPONSIVE

GIVE MORE TO YOUR
PRACTICE & PATIENT



PRE
operative

CHOOSE THE REFERENCE

- 28%- Leader Worldwide Market Share
- Powered by exclusive ACTEON® technology
- Reliable piezo-ultrasonic generator with durable accessories
- Worldwide KOL network with proven clinical benefits

INTRA
operative

GIVE VALUE TO YOUR TREATMENTS

- Thin, precise & safe osteotomies (tissue preservation for reduced patient trauma)
- Make your surgery more predictable
- Expand your surgical portfolio
- Facilitate your surgical protocols

POST
operative

GIVE THE BEST TO YOUR PATIENTS

- Less invasive & less traumatic surgical protocols
- Faster recovery & healing
- Better post-operative outcomes: less pain & swelling
- Improve patients' quality of life

The ACTEON logo, featuring a blue swoosh to the left of the word "ACTEON" in a bold, black, sans-serif font.

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BONE SURGERIES WITH PIEZOTOME[®] CUBE

CLINICAL APPLICATIONS

**Osteotomy
Osteoplasty**

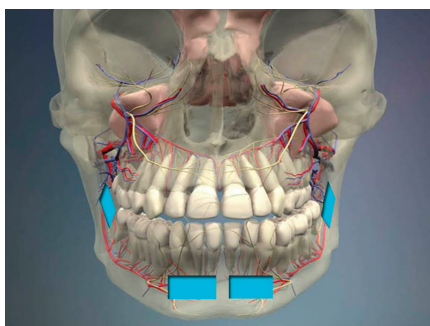
**Atraumatic
extractions**

**Accelerated
orthodontic
surgery**
Piezocision™

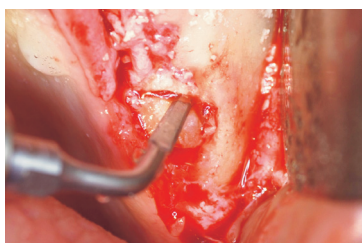
**Ankylosed teeth
or implant
relocation**
Orthodontic Bone
Surgery (OBS) technique
Dr. Philippe BOUSQUET

**Crown
lengthening**

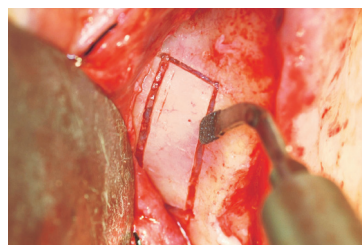
**Pre-implant
surgeries:**
Bone graft
Lateral sinus lift
Crestal sinus lift
Crest Splitting



Bone Graft



Extraction



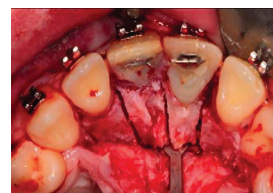
Sinus Lift



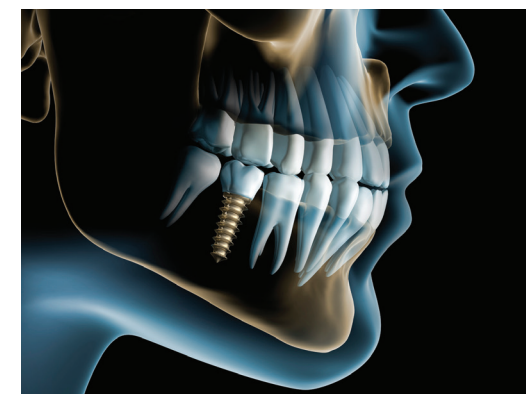
Ridge Expansion



OBS Technique - Tooth relocation



OBS Technique - Implant relocation



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CLINICAL BENEFITS AT EACH
STAGE OF THE SURGERY

INTRA-OPERATIVE



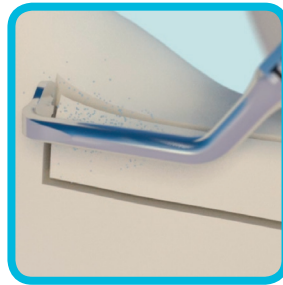
SAFETY

- Cutting selectivity:
soft tissues
presevation
- Intraosseous
temperature under
control



PRECISION

- Fine and consistent
cut on all types of
bone
- Minimal bone loss



COMFORT

- New automatic
power control for
effortless cut
- Easy bone access



VISIBILITY

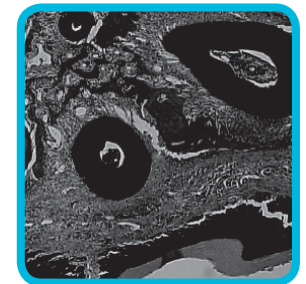
- Stable irrigation flow
- Cavitation spray:
microbubbles
releasing oxygen

POST-OPERATIVE



SUPERIOR OUTCOMES

- Reduced pain
- Less analgesics
- Limited edema



GREAT HEALING

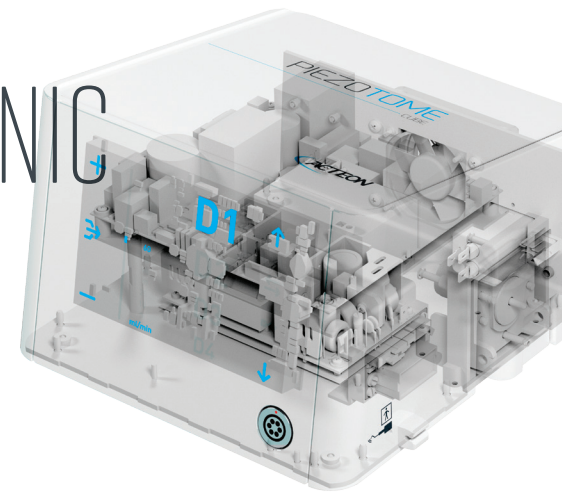
- Predictable results
- Fast recovery
- Bone densification





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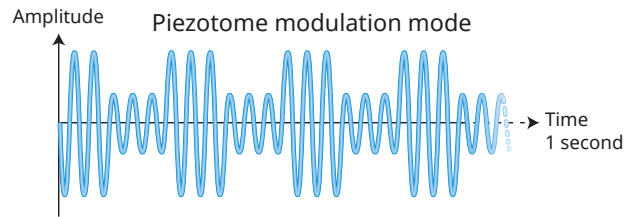
PIEZO ULTRASONIC TECHNOLOGY



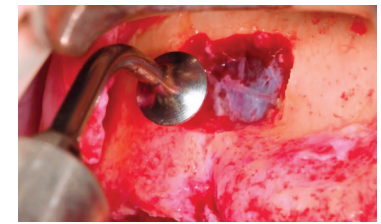
MODULATION

Cutting selectivity

- Soft tissue preservation
- Better tissue recovering and cells regeneration



Alternation between high & low intensity frequencies



"Piezotome surgery is superior in atraumaticity and soft-tissue safety"

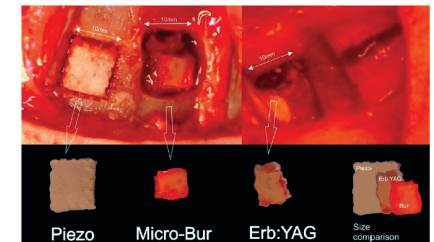
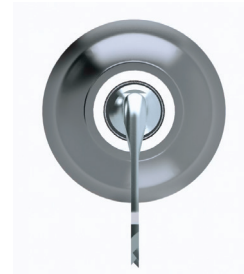
Ultrasonic Piezotome® surgery: is it a benefit for our patients and does it extend surgery time? A retrospective comparative study on the removal of 100 impacted mandibular 3rd molar. A. Troedhan, A. Kurrek, M. Wainwright. Open Journal of Stomatology, 2011



MINIMAL BONE LOSS

Precise and smooth cut

- Controlled and regular tip amplitude
- Linear piezoelectric vibrations



"Piezoelectric bone-cutting-devices leads to significant less procedural bone-loss when compared to rotary instruments or lasers"

Is Piezoelectric surgery the new Gold-Standard in oral surgery and implantology. A. Troedhan, Z.T.Mahmoud. Smile Dental Journal, Volume 11, Issue 4 - 2016

COMPARATIVE PROCEDURAL BONE-LOSS WHEN HARVESTING AUTOLOGOUS BONE-BLOCKS WITH DIFFERENT BONE-CUTTING TOOLS Is piezoelectric surgery the new gold-standard in oral surgery and implantology. A. Troedhan, Z. Tarek Mahmoud. Smile Dental Journal, Volume 11, Issue 4 - 2016

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ALL SURGERIES
UNDER CONTROL



CONTROLLED IRRIGATION

- Thermal effect under control
- Better visibility of the operative field

ROBUST PERISTALTIC PUMPS

- Fast setup
- Fine adjustment (ml/ min) - 3 rollers conception
- Perfect irrigation at the end of the tip means no risk of bone necrosis

EXTERNAL IRRIGATION LINE

- For a complete sterile work
- Extend the handpiece lifetime
- Autoclavable (max. 30 times) or sterile single use version



"The Piezotome® produced the smallest increase in intraosseous temperature."

Performance of ultrasonic devices for bone surgery and associated intraosseous temperature development. S. Harder, S. Wolfart, C. Mehl, M. Kern. The International Journal of Oral & Maxillofacial Implants, volume 24, number 3, 2009

Maxillary



Irrigation flow reaches the end of the tip regardless of orientation

ACTEON

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FEEL SECURE IN ANY
DEMANDING SITUATIONS

POWER

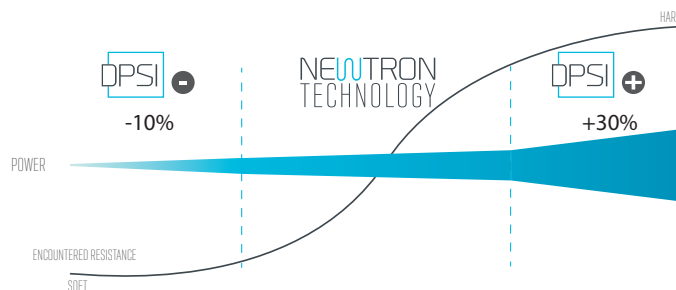
DPSI

Dynamic Power System Inside

The most advanced Newtron® Technology

Power intuitively adapted
for maximum efficiency & safety

MAXIMUM EFFICIENCY & SAFETY



Encountered resistance constant
analysis to:

- ▶ Increase **+30%** the power,
improving cutting performance
- ▶ Decrease **-10%** the power, to
be even safer on soft tissues

With D.P.S.I., get:

- Continuous monitoring of major criteria (pressure applied, tips designs and bone density)
- Immediate power responsiveness
- Special starting boost for an effortless performance

NEWTRON
TECHNOLOGY

MAXIMAL PERFORMANCE FOR EACH PROCEDURE

Automatic frequency adjustment

- According to each tip
- Optimal efficiency whatever
the load applied

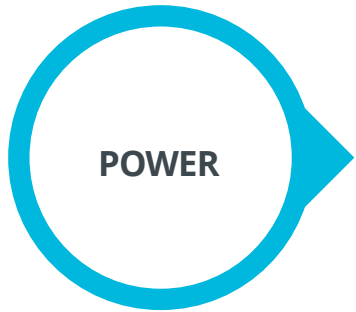
Power regulation

- Constant performances even
in dense bone
- Effortless cut without
pressure

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CUBE LED HANDPIECE



POWER

MAXIMUM
EFFICIENCY & SAFETY

Faster. Brighter. More power than ever.
CUBE LED handpiece will elevate each
clinical technique

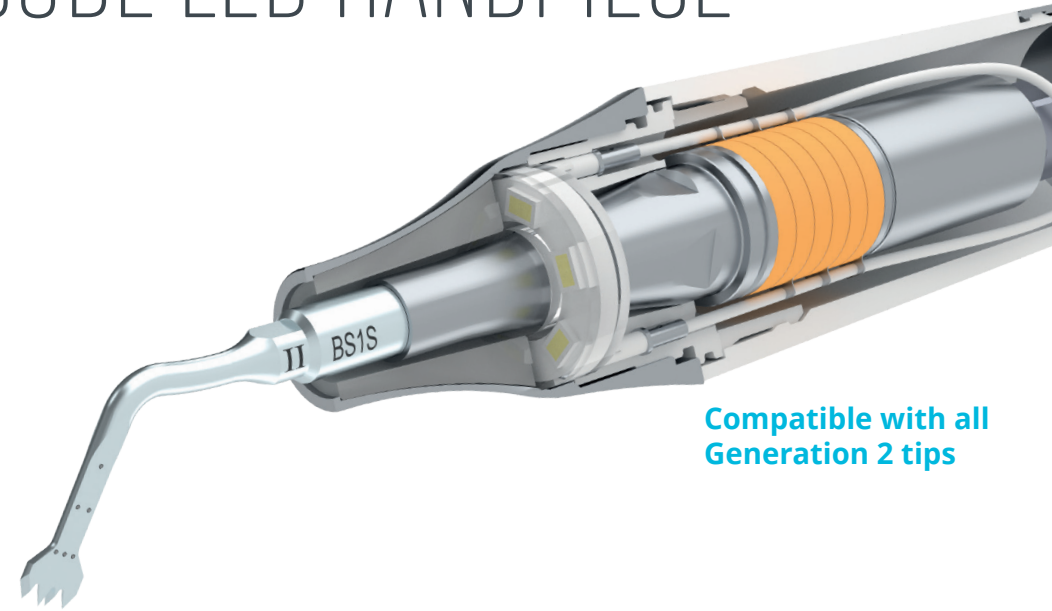
- Based on the ACTEON® 6 ceramics rings
Faster procedures
- Lighter with perfectly balanced design
Turns complex acts into fluid and natural gesture
- White color LED ring
No energy dispersion (No overheating)
Great tissue distinction
Remarkable visibility on posterior areas

"A very quick performance was observed using Piezotome®"
= 137s

vs competitor 1: 142s

vs competitor 2: 144s

vs competitor 3: 149s



Compatible with all
Generation 2 tips



100000 Lux

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SUPERIOR OUTCOMES

OUTCOMES



For you...

Easy handling and facilitating your daily practice

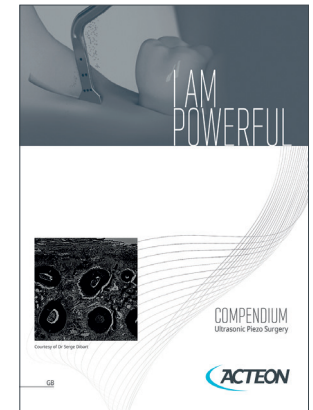
- Safe
- Predictable
- Precise
- Smooth & effortless gesture
ex: constant cut on all types of bone
- Increase tactile sense
- Tips adapted to patient anatomy
- Fast and less invasive protocols

EXCLUSIVE

● ● ● **Prof. Dr. Marcel Wainwright (Sweden)** *Piezotome® has made my surgeries more predictable, easier, faster and significantly less traumatic which also helped increase the number of patients I have. Both surgeons and patients do benefit equally.* ● ● ●

"The healing at the clinical level is much more predictable and much less painful. The amount of demineralization created (...) minimizing trauma, discomfort, and enhancing patient's acceptance"

TISSUE RESPONSE DURING PIEZOCISION-ASSISTED TOOTH MOVEMENT: A HISTOLOGICAL STUDY IN RATS, S. Dibart, C. Yee, J. Surmenian, J-D. Sebaoun, S. Baloul, E. Goguet-Surmenian, A. Kantarci, European Journal of Orthodontics, 36(4):457-64, 2014



& your patient

- Less traumatic
- Greater healing
- Better patient acceptance and improved social life



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BROADEN YOUR SCOPE



CREST SPLITTING

Rapid and minimally invasive technique for controlled expansion

CS1, CS2, CS3, CS4, CS5, CS6 tips

- ▶ Easy protocol - One-stage surgery
- ▶ Flapless (occlusal cut), leaving the bone-periosteum intact
- ▶ Live conference on youtube



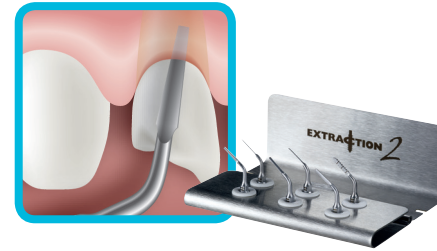
INTRALIFT™

Crestal Sinus Lift

Minimally invasive surgery for smooth sinus floor fracture

TKW1, TKW2, TKW3, TKW4, TKW5 tips

- ▶ Minimally invasive
- ▶ The use of mallet is avoided
- ▶ Better patient acceptance



EXTRACTION

Syndesmotomy

For maximum bone preservation

LC1, LC1-90°, LC2, LC2L, LC2R, Ninja® tips

- ▶ No flap & no alveolectomy
- ▶ Table bone respected for immediate implantation



PIEZOCISION™

Accelerated Orthodontic Surgery

Minimal incisions, minimally invasive

PZ1, PZ2L, PZ2R, PZ3 tips

- ▶ Reduced treatment time
- ▶ Quick protocol
- ▶ Flapless and sutureless

« Flapless crest splitting and widening techniques can be applied to alveolar ridges with widths of only 1mm due to the bone preserving benefits provided. »

« Minimum of time-effort, least risk of failure and lowest possible level of patient morbidity. »

« Decrease in pain and swelling of 50% was detected with Piezotome surgery. »

« Severe malocclusions can be orthodontically treated in six months. »

« Orthodontic Bone Stretching (OBS) technique for ankylosed teeth or implant relocation. »



BONE SURGERY

Osteotomy/Osteoplasty

Clean and thin cut for maximal bone volume

BS1S, BS2L, BS2R, BS4, BS5, BS6 tips



SINUS LIFT

Lateral Sinus Lift

Unbeatable comfort:

selective and hemostatic cut
SL1, SL2, SL3, SL4, SL5 tips



CROWN EXTENSION

Crown Lengthening

Incomparable precision and accessibility

BS6, CE1, CE2, CE3 tips



ESSENTIAL

The 6 fundamental ACTEON® tips

BS1S, BS4, SL1, SL2, SL3, LC2

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MEETING ALL SURGICAL CONSTRAINTS

ROBUST & SMART ACCESSORIES



Shapely surgical solutions

- Robust tips
- Design adapted to patient anatomy



Fast assembly system

- Saves precious time
- Robust stainless steel dynamometric wrench



Perfect asepsis

- Easy maintenance
- Direct access to all parts
- Meeting hygiene constraints

OPERATOR ORIENTED AND TOUCH SENSITIVE SCREEN



Daring by style

Compact unit with lightweight & powerful handpiece

Touch and operator oriented screen

- Fast running and simple settings
- Major parameters settings displayed in a soft warm blue

MULTIFUNCTIONAL FOOTSWITCH



Absolute control

- Weighted multifunctional footswitch
- No assistance needed



AUTOCLAVABLE HANDPIECE HOLDER

To improve instrument organisation and protect from accidental fall



"Clip" table



"On" table

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4 MAJOR REASONS TO GET A PIEZOTOME® CUBE

1

MOST POWERFUL, PREDICTABLE AND SAFE

- Consistent performance in dense bone
- Reduced surgery time - more power means faster procedures
- Reduced risk of post-surgical complications
- Perfect irrigation control to avoid any risk of bone necrosis

2

EXPAND ORAL CLINICIANS' SURGICAL PORTFOLIO

- Broaden your scope with the numerous tips for many surgical applications
- Exclusive safe & less invasive new procedures

« Increase your revenue with shorter treatments »

« Better patient acceptance »

« Less invasive treatment »

« Both surgeon & patient benefit equally »



3

ETHICALLY

- Choose the best for you and your patients
- Reduced pain and swelling
- Help your patients return to activities faster

4

INCREASE CASE ACCEPTANCE

- Increase number of patients from positive feedback
- Word of mouth (less traumatic surgeries)
- Reduced treatment plan (Piezocision™, CS one-stage surgery,...)
- Increase of the number of referring doctors