

Ultrasonic surgery

POWERFULLY RESPONSIVE, MINIMALLY INVASIVE

Enhancing your workflows
through innovation

piezotome
cube



-350 BC

FORCEPS

Mentioned by Aristotle in approx -350 BC, forceps introduce the beginning of extraction.

Destruction of the socket

Can cause fracture

Force demanding

Requires crown access

1875

ROTARY INSTRUMENT

Dental rotating motors allowed a diminution of the force needed and an easier access compared to forceps.

Destruction of the alveolar bone

Mandatory flap

Delayed implant placement

Post-operative complications

019

FOR THE FIRST TIME,
PIEZOELECTRIC SURGERY IS
POWERFUL ENOUGH
TO CARRY OUT EXTRACTIONS
AT THE SAME SPEED¹
AS ROTARY INSTRUMENTS!



ROTATIVE INSTRUMENT



SAME



Immediate destruction of bone

—

Mandatory flap

—

Post-operative pain duration
2 days¹

—

Risk of damaging soft tissues¹

—

Physically taxing⁸

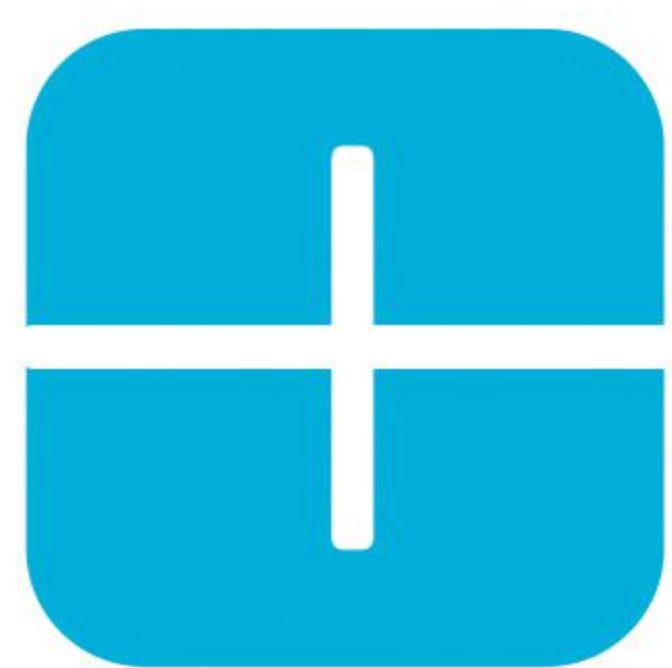
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Dreaded by patients

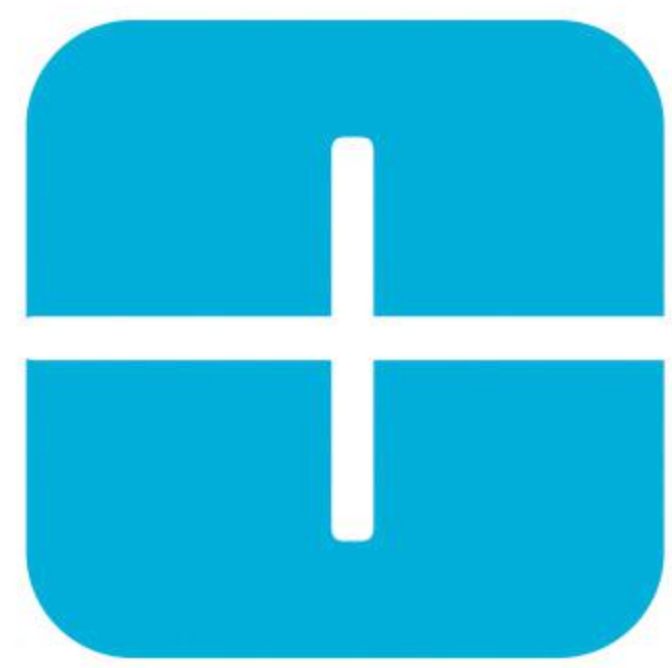
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S CUBE TECHNOLOGY

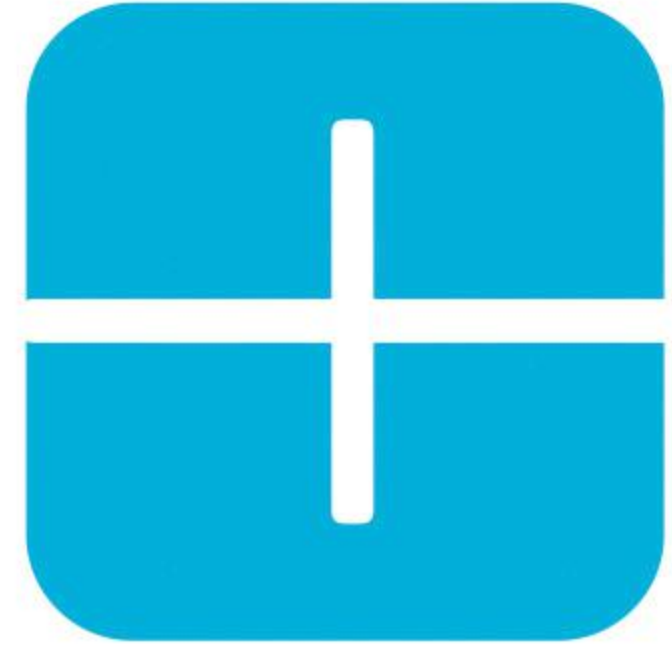
DURATION⁽¹⁾



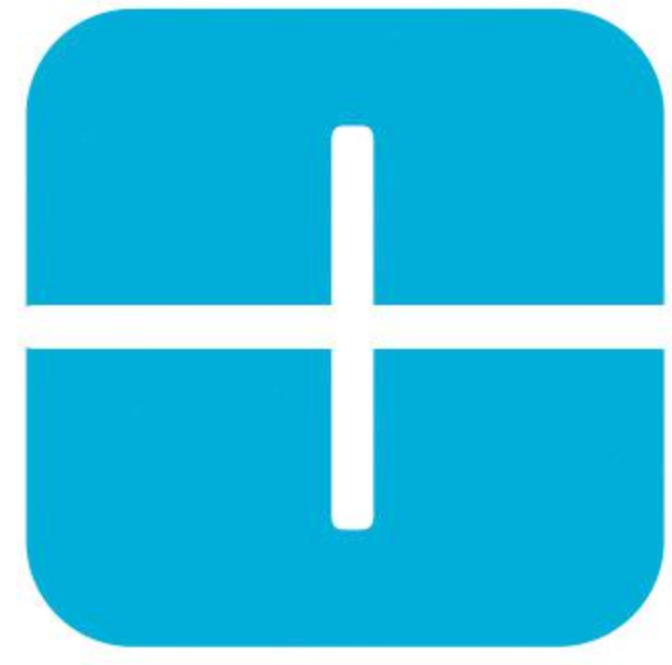
Socket preservation⁹



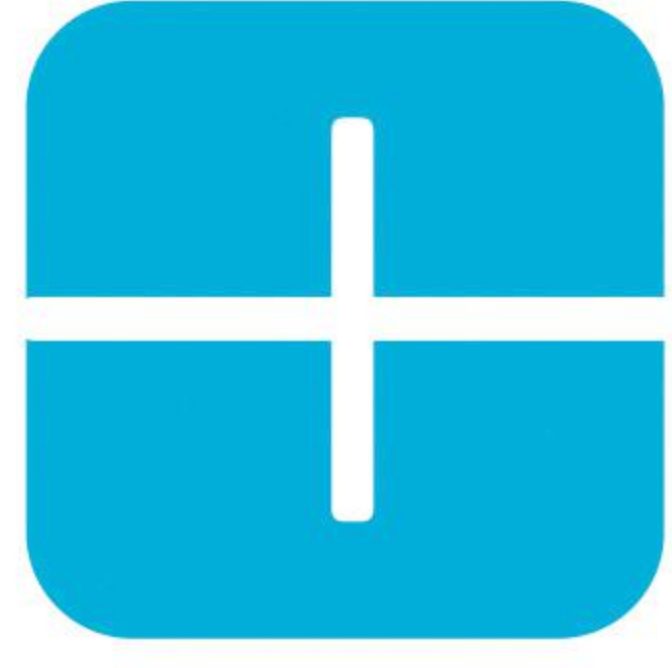
Safe for soft tissues



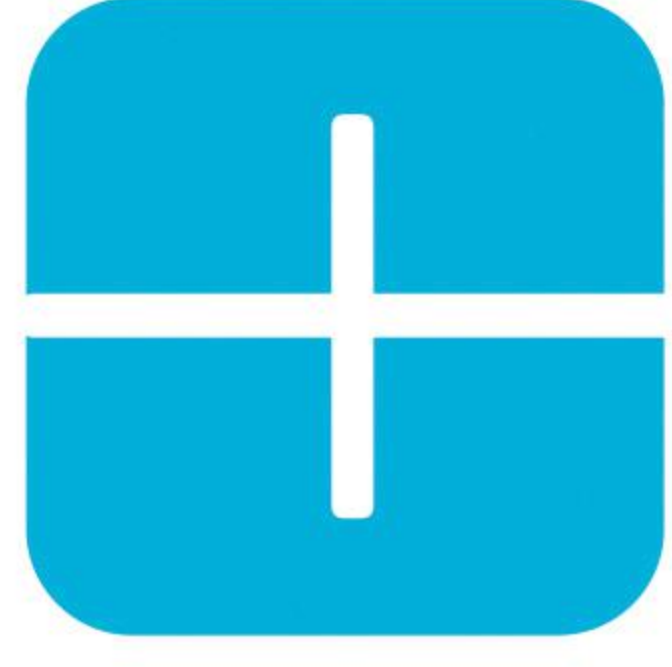
Recommended for immediate implant placement



No force needed



50% less pain & swelling²

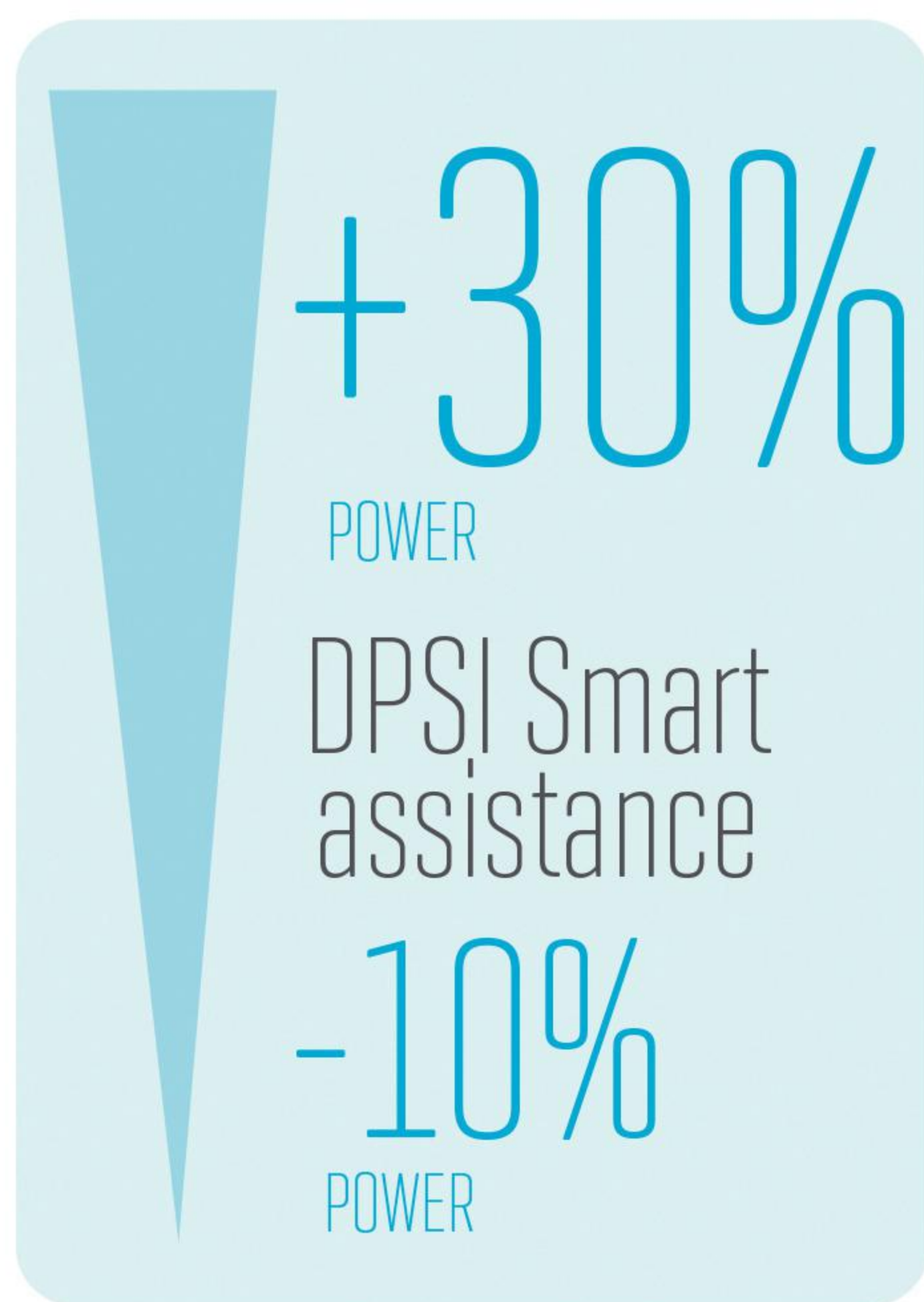


98% less analgesics intake¹



GIVE POWER TO YOUR KNOW-HOW

NATURALLY
INTUITIVE



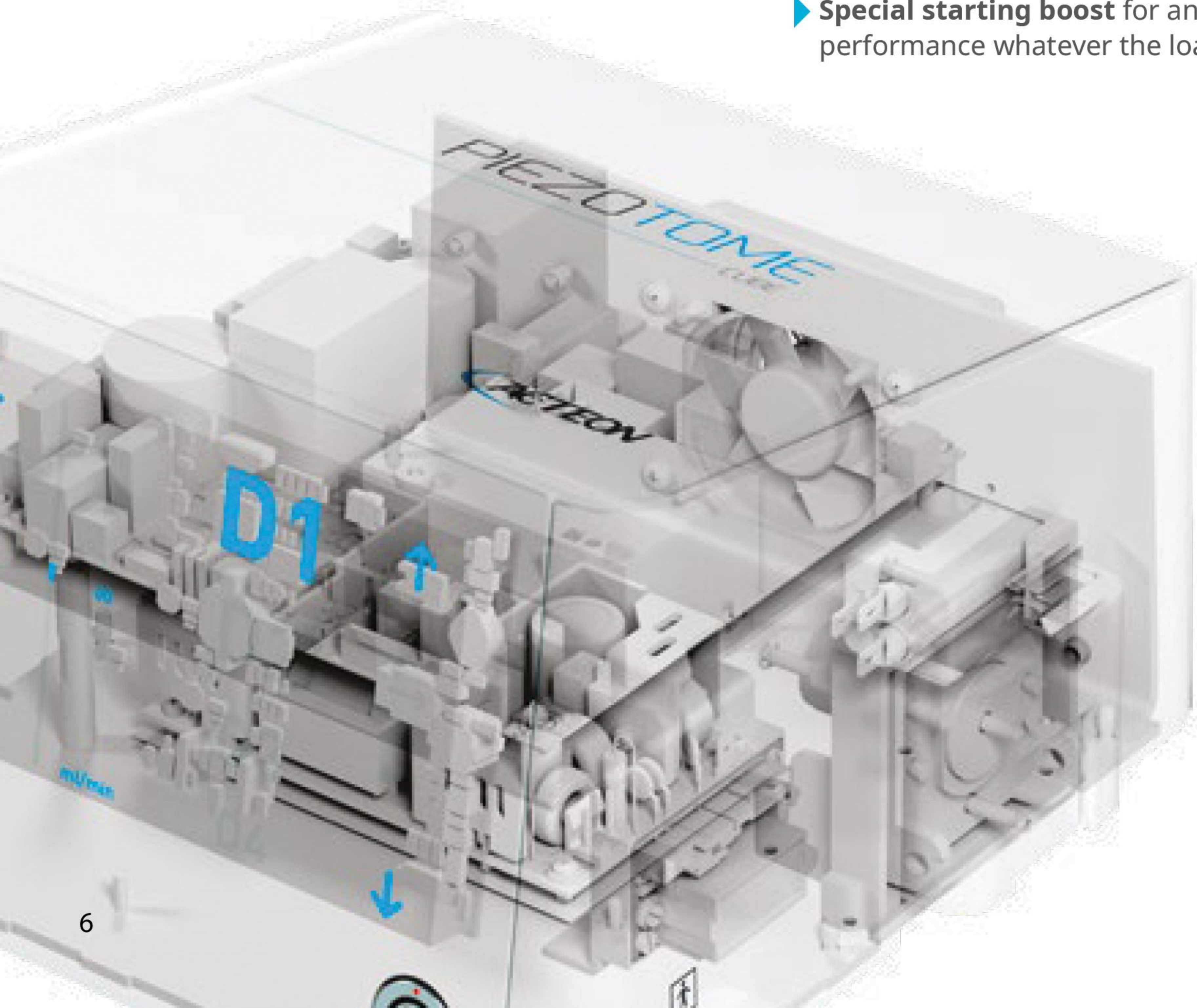
Dynamic Power System Inside
POWER INTUITIVELY ADAPTED
FOR MAXIMUM EFFICIENCY & SAFETY

According to the resistance encountered, the D.P.S.I. smart assistance will:

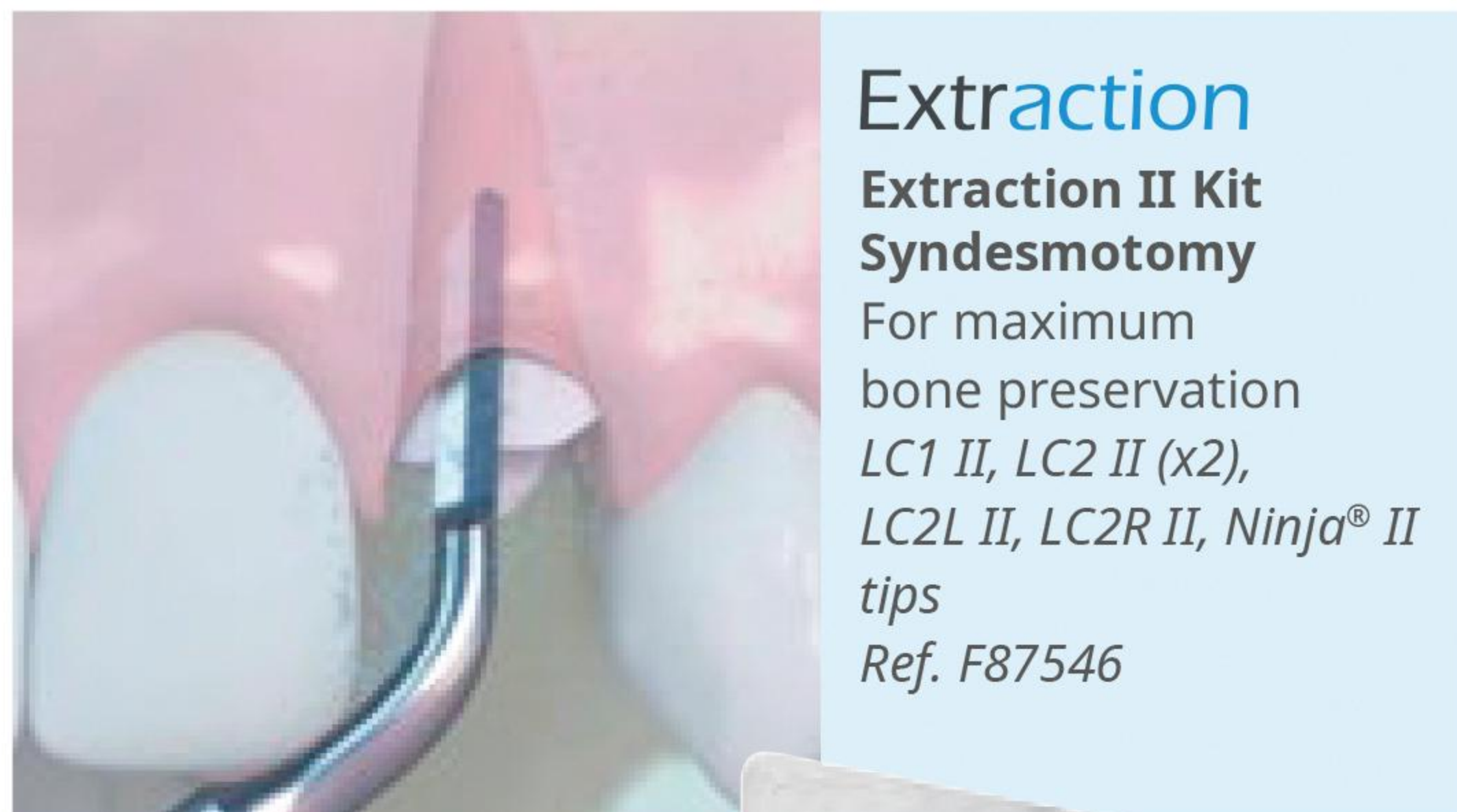
- ▶ Increase **+30%** the power, improving cutting performance
- ▶ Decrease **-10%** the power, to be even safer on soft tissues

WITH THE D.P.S.I., GET

- ▶ **The most advanced Newtron® technology** with continuous monitoring of major criteria (pressure applied, tips designs and bone density)
- ▶ **Immediate power responsiveness**
- ▶ **Special starting boost** for an effortless cutting performance whatever the load applied



SECURE & BROADEN YOUR SCOPE IN SURGERY



Extraction

**Extraction II Kit
Syndesmotomy**
For maximum bone preservation
LC1 II, LC2 II (x2),
LC2L II, LC2R II, Ninja® II
tips
Ref. F87546



Widening the ligamentary space. LC tips separate the tooth from its attachment system for a rapid extraction, with less luxation, keeping intact the alveolar bone edge.

F87540: EXTRACTION Pack (An Extraction II kit, a sterilization box, a Piezotome® LED handpiece and its autoclavable cord, a dynamometric wrench)



BoneSurgery

**Bone Surgery II Kit
Osteotomy/
Osteoplasty**
Clean and thin cut
for maximal bone
volume
BS1S II, BS2L II, BS2RII,
BS4 II, BS5 II, BS6 II tips
Ref. F87509



Performing bone graft, allows cutting, excising and remodeling bone structures reducing the risk of soft tissue lesions.

F87500: BONE SURGERY Pack (A Bone Surgery II kit, a sterilization box, a Piezotome® LED handpiece and its autoclavable cord, a dynamometric wrench)



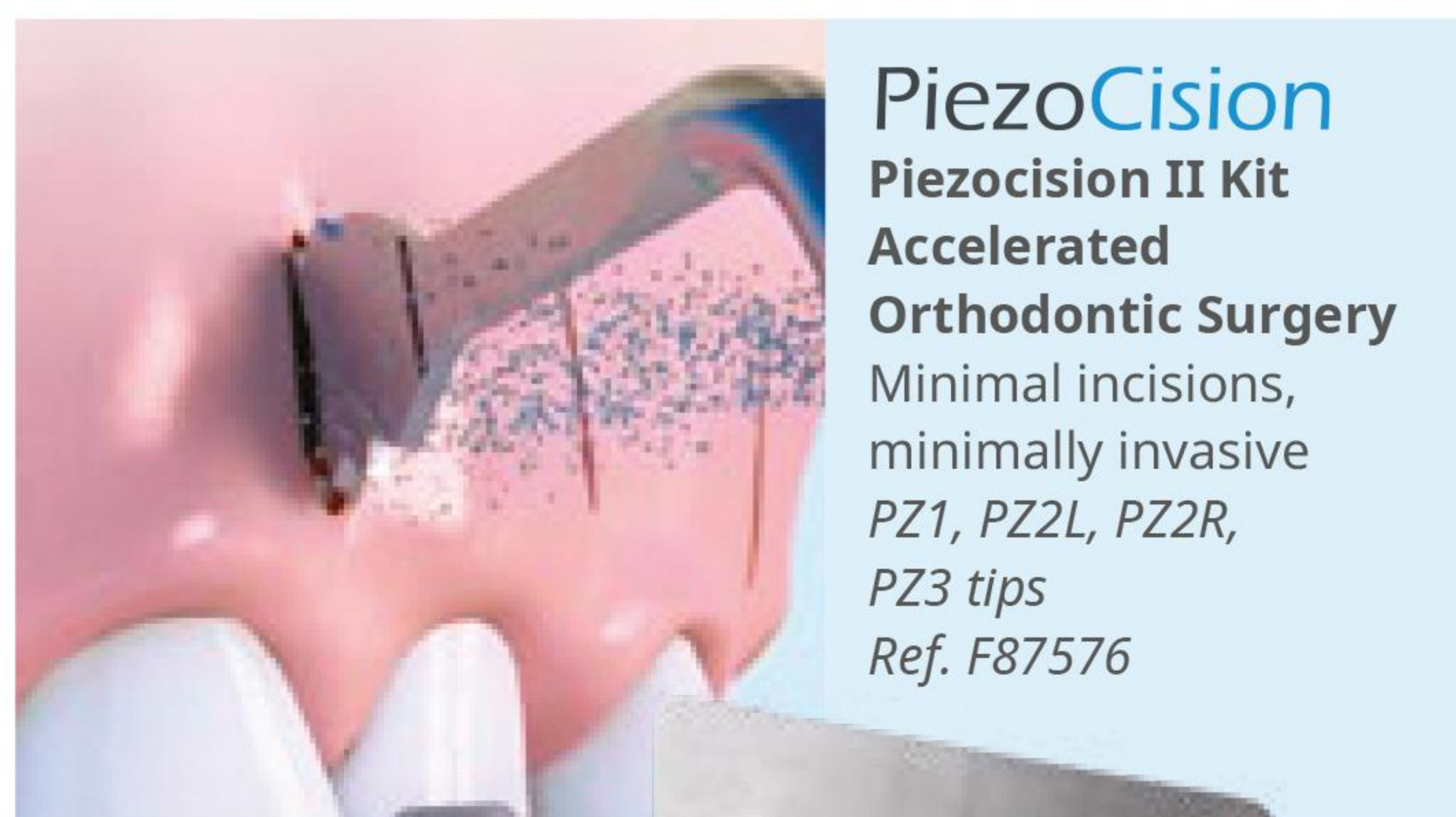
IntraLift

**Intralift II Kit
Crestal Sinus Lift**
Minimally invasive
surgery for smooth
sinus floor fracture
TKW1, TKW2, TKW3,
TKW4, TKW5 tips
Ref. F87536



Sinus lift by the crestal approach: the IntraLift Kit makes it possible to perform non invasive surgery in full safety.

F87530: Intralift™ Pack (A Intralift™ II kit, a sterilization box, a Piezotome® LED handpiece and its autoclavable cord, a dynamometric wrench)



PiezoCision

**Piezocision II Kit
Accelerated
Orthodontic Surgery**
Minimal incisions,
minimally invasive
PZ1, PZ2L, PZ2R,
PZ3 tips
Ref. F87576

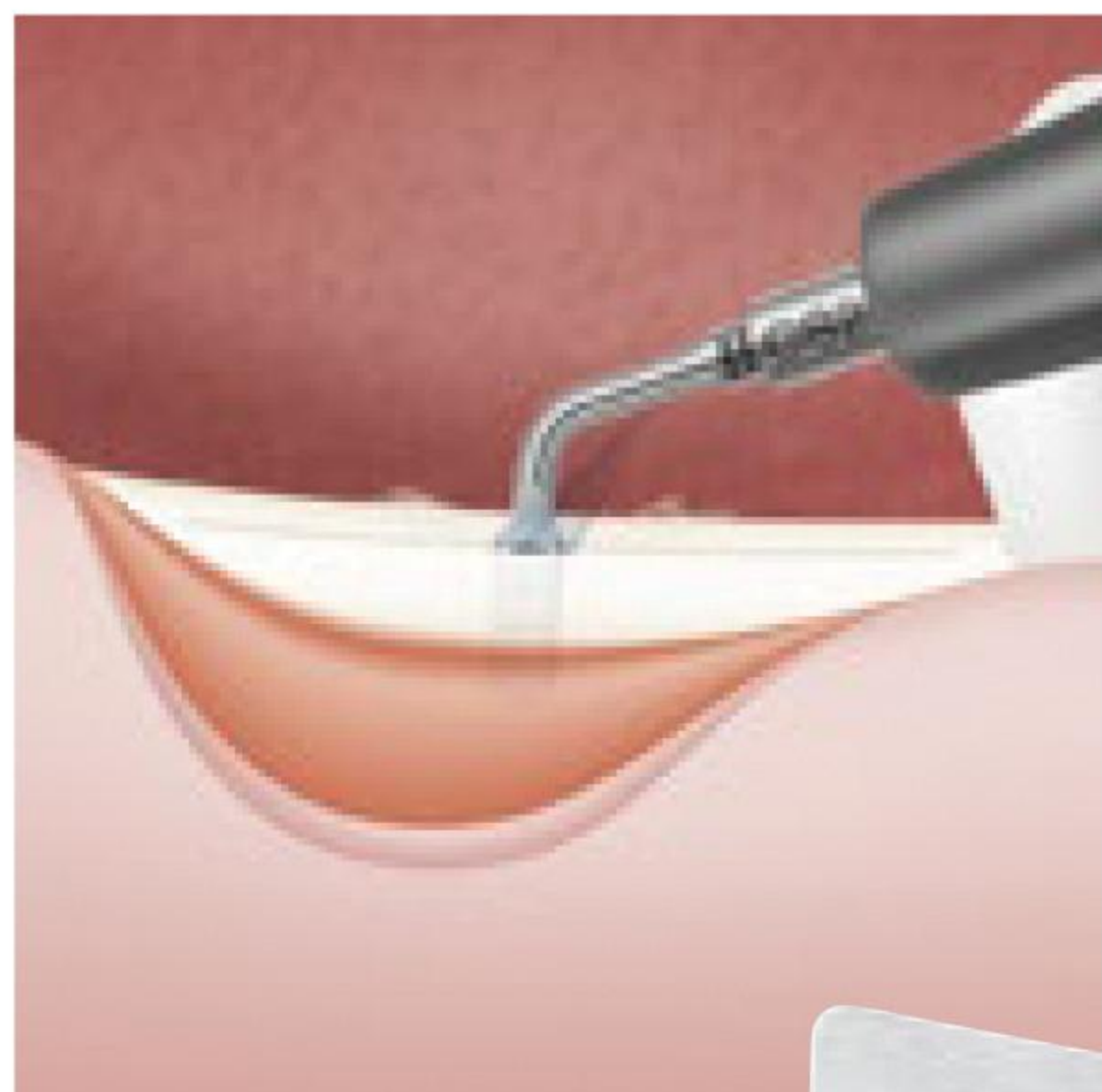


Treatment of malocclusions by ultrasonic corticotomies for a quicker and minimally invasive surgery, flapless or sutureless. Bone stimulated by micro-incisions accelerates tooth movement, the treatment is 3 to 4 times faster.*

F87570: Piezocision™ Pack (A Piezocision™ kit, a sterilization box, a Piezotome® LED handpiece and its autoclavable cord, a dynamometric wrench)

*Sebaoun JD, Surmenian J, Ferguson DJ, Dibart S. Acceleration of orthodontic tooth movement following selective alveolar decortication: biological rationale and outcome of an innovative tissue engineering technique. *International Orthodontics*. 2008;6:235-249.

SECURE & BROADEN YOUR SCOPE IN SURGERY



CrestSplitting

Crest Splitting II Kit

Rapid and minimally invasive technique for controlled expansion
 CS1 II, CS2 II, CS3 II, CS4 II, CS5 II, CS6 II tips
 Ref. F87567



The increasing tips thickness allows a smooth crest expansion limiting the risk of bone fracture.

F87560: CREST SPLITTING Pack (A CS kit, a sterilization box, a Piezotome® LED handpiece and its autoclavable cord, a dynamometric wrench)



SinusLift

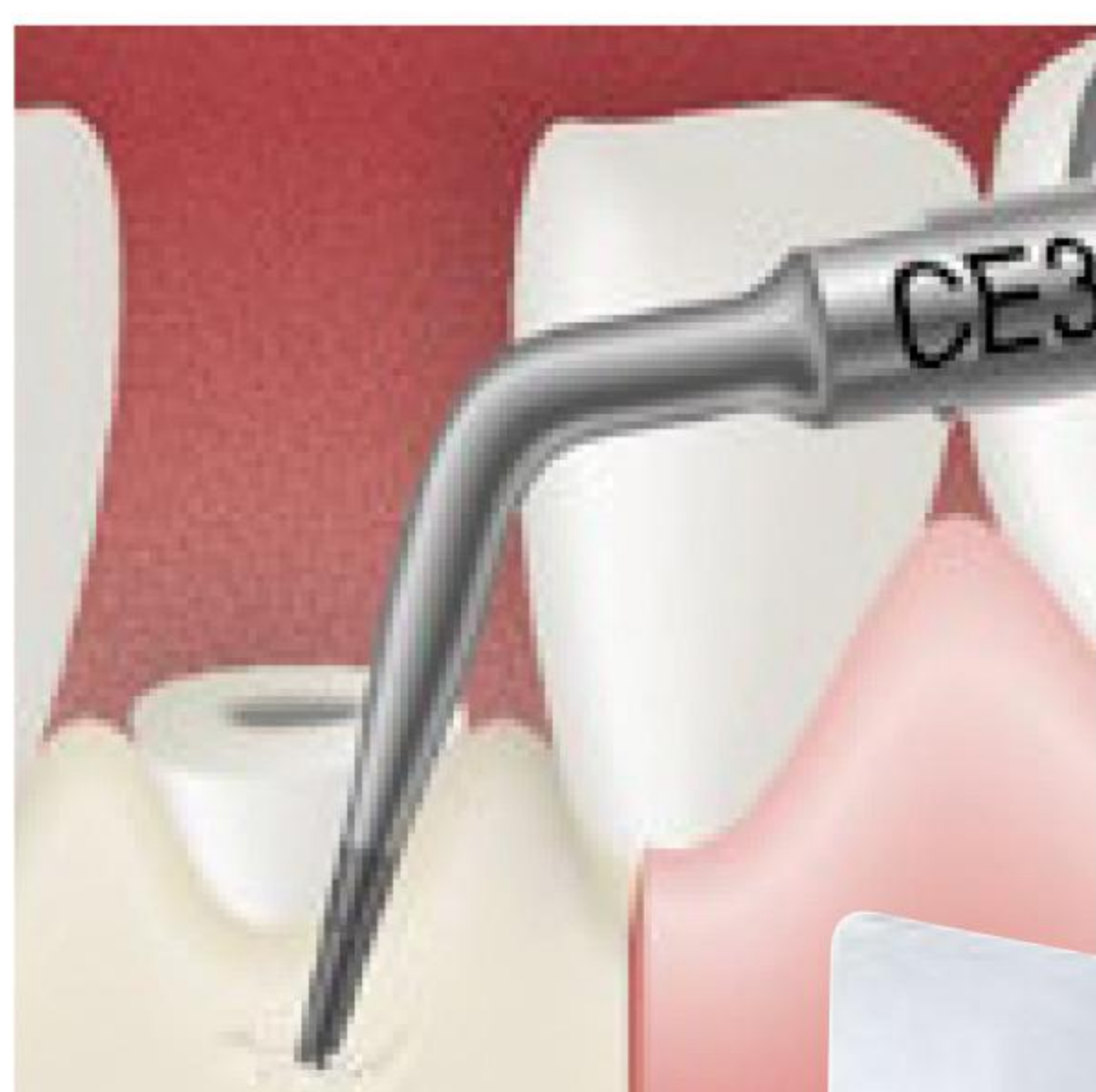
Sinus Lift II Kit Lateral Sinus Lift

Unbeatable comfort: selective and hemostatic cut
 SL1, SL2, SL3, SL4, SL5 tips
 Ref. F87519



A thin cut performed without effort, limiting any risk of sinus membrane perforation or antral artery damage.

F87510: SINUS LIFT Pack (A SL II kit, a sterilization box, a Piezotome® LED handpiece and its autoclavable cord, a dynamometric wrench)



CrownExtension

Crown Lengthening

Incomparable precision and accessibility
 BS6, CE1, CE2, CE3 tips
 Ref. F87554



Completely innocuous to the gingiva guaranteeing the integrity of bone and adjacent teeth.

F87550: CROWN EXTENSION Pack (A CE II kit, a sterilization box, a Piezotome® LED handpiece and its autoclavable cord, a dynamometric wrench)



Essential

The 6 fundamental ACTEON® tips

BS1S, BS4, SL1, SL2, SL3, LC2 tips
 Ref. F87528

Kit delivered with the following references: F50510, F50100



For osteotomy, osteoplasty, extraction and lateral sinus lift.

F87529: ESSENTIAL Pack (An Essential kit, a sterilization box, a Piezotome® LED handpiece and its autoclavable cord, a dynamometric wrench)

FOR GENTLE EXTRACTIONS



Extraction



SYNDESMOTOMY: ANTERIOR AREA

- ▶ **LC1**
Ultrasonic periosteal intended for syndesmotomy and periradicular osteotomy.
- ▶ **LC2**
Tip, particularly slim, allows access to the tight spaces between the root and the alveolar bone.

SYNDESMOTOMY: POSTERIOR AREA

- ▶ **LC2L**
Left-oriented at 45° tip facilitates access to the posterior areas.
- ▶ **LC2R**
Right-oriented at 45° tip facilitates access to the posterior areas.

ODONTOTOMY - ROOT SECTION

- ▶ **Ninja®**
Saw-tooth tip particularly efficient for hemisections and root amputations.



THINNESS AND SECURITY

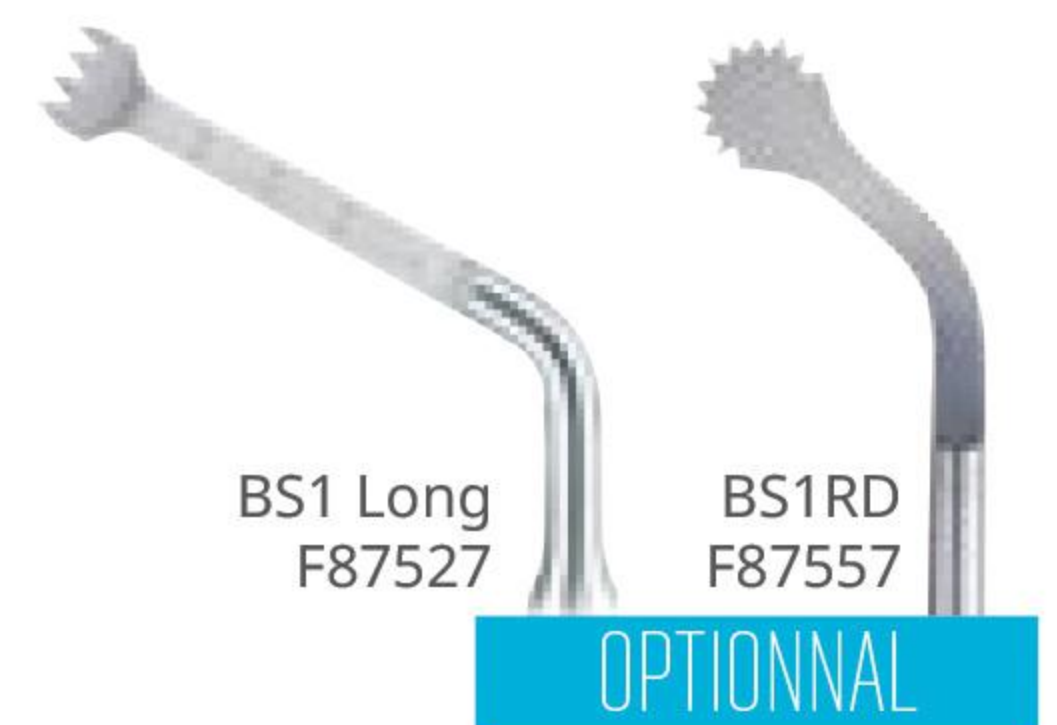


BoneSurgery



OSTEOTOMY - BONE HARVESTING

- ▶ **BS1S (Slim)**
9mm saw intended for the in-depth cutting of very dense cortical bones.
- ▶ **BS2L**
Left-oriented bone saw used for cutting the ramus cortical bone.
- ▶ **BS2R**
Right-oriented bone saw used for cutting the ramus cortical bone.
- ▶ **BS1RD** (not included in the kit)
Rounded saw, large 280° active surface
- ▶ **BS1L (Long)** (not included in the kit)
15mm saw facilitating ramus bone grafting.

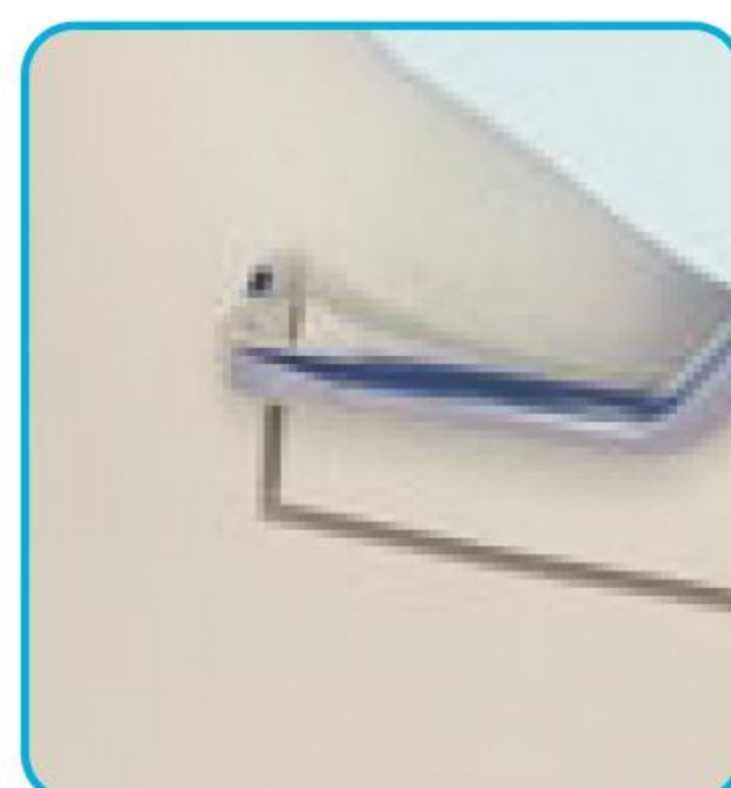


OSTEOTOMY

- ▶ **BS5**
Flat scalpel for fine osteotomies.

OSTEOPLASTY

- ▶ **BS4**
Circular scalpel for osteoplasty and harvesting of bone particles or chips.
- ▶ **BS6**
Curved scalpel particularly recommended for osteoplasty.



EASY & CONTROLLED TECHNIQUE



CrestSplitting

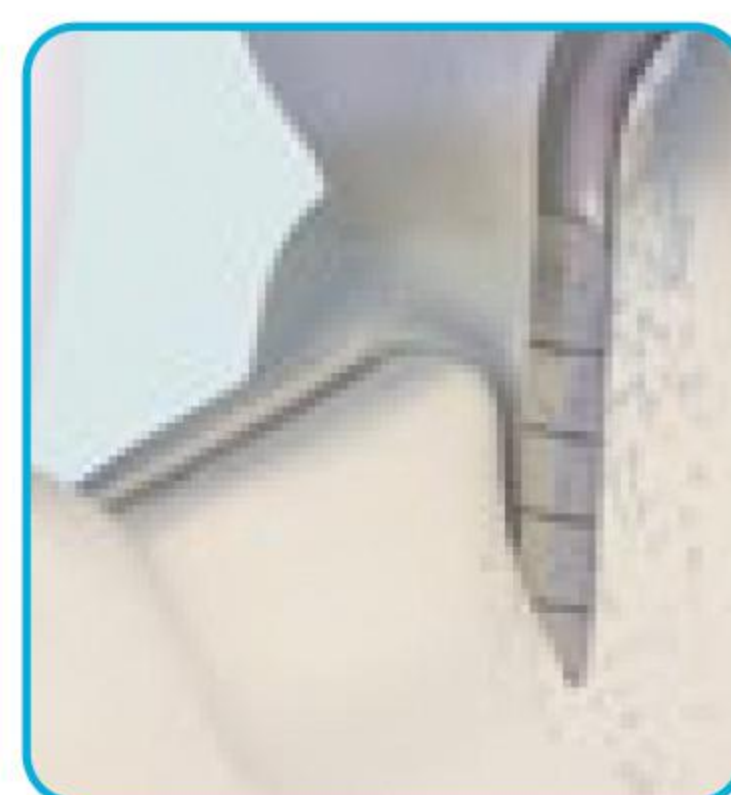


OSTEOTOMY

- ▶ **CS1**
Fine tip dedicated to pilot osteotomy up to 8mm of depth.
- ▶ **CS2**
Tip dedicated to the second osteotomy up to 8mm of depth.
- ▶ **CS3**
Scalpel used for the discharges incisions in mesial and distal sides, up to 8mm of depth.

EXPANSION

- ▶ **CS4**
Conical tip for bone expansion. Tip thickness: 1.80mm at 8mm.
- ▶ **CS5**
Conical tip for bone expansion. Tip thickness: 2.75mm at 8mm.
- ▶ **CS6**
Conical tip for bone expansion. Tip thickness: 3.75mm at 8mm.



MINIMAL INCISIONS



PiezoCision



OSTEOTOMY

- ▶ **PZ1**
Anterior corticotomies.
- ▶ **PZ2L**
Lateral corticotomies on patient's right vestibular arch. To be used with pendulum motion.
- ▶ **PZ2R**
Lateral corticotomies on patient's left vestibular arch. To be used with pendulum motion.
- ▶ **PZ3**
Anterior corticotomies for root proximity concerns.

The 3mm necessary decortication depth is visible on each tip by a laser marking.

Piezocision™ technique is the combination of:

- micro-surgical incisions performed with Piezotome® powered ultrasonic generators, by ACTEON®,
- bone densification,
- orthodontic tooth movement.

INDICATIONS

- Class I malocclusions with moderate to severe crowding (non-extraction)
- Correction of deep bite
- Selected class II malocclusions
- Rapid adult orthodontic treatment
- Rapid intrusion and extrusion of teeth



FAST, SAFE AND MINIMALLY INVASIVE



IntraLift



OSTEOTOMY - PILOT DRILLING

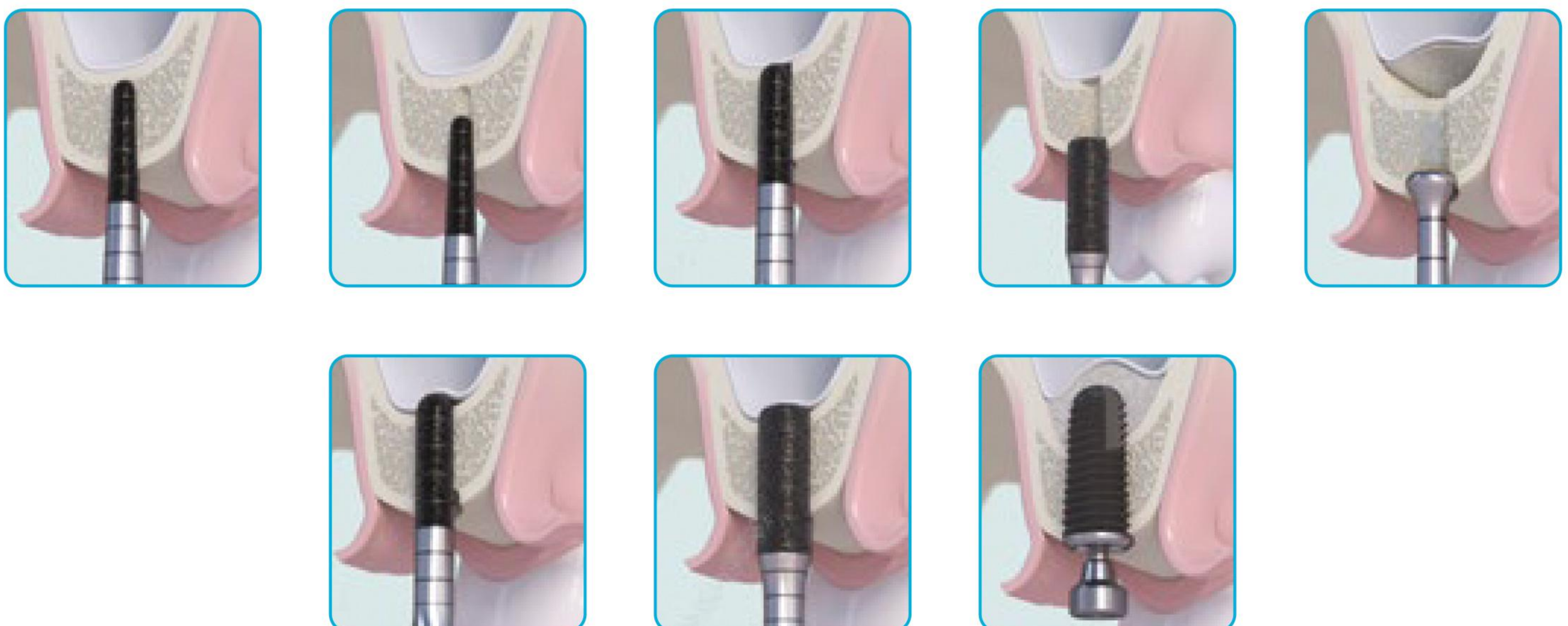
- ▶ **TKW1**
Conical and diamond-coated tip for pilot drilling in very dense cortical bone (Ø 1.35mm).

OSTEOTOMY - SECONDARY DRILLING

- ▶ **TKW2**
Cylindrical and diamond-coated tip dedicated for drilling and fracturing the sinus floor (Ø 2.1mm).
- ▶ **TKW3**
Cylindrical tip dedicated to drill and widen the access canal to sinus membrane (Ø 2.35mm).
- ▶ **TKW4**
Cylindrical and diamond-coated tip intended for the receptacle preparation and widening the access canal to the sinus membrane (Ø 2.8mm).

MEMBRANE DETACHMENT (ELEVATION)

- ▶ **TKW5**
Tip Ø 3mm to be placed in the receptacle preparation for sinus membrane elevation by crestal approach.



FOR AN UNMATCHED VISIBILITY



SinusLift



SL1
F87511



SL2
F87512



SL3
F87513



SL4
F87514



SL5
F87515

VESTIBULAR BONE WINDOW CUT OSTEOTOMY

- ▶ **SL1**
Diamond-coated tip for vestibular bone window cut and for attenuation of sharp angles.

OSTEOPLASTY

- ▶ **SL2**
Diamond-coated ball tip for smoothing the vestibular bone window and precise osteoplasty.

MEMBRANE DETACHMENT

- ▶ **SL3**
Plateau tip served for sinus membrane elevation on the window's edges.
- ▶ **SL4**
Spatula served for sinus membrane elevation inside the sinus.
- ▶ **SL5**
Spatula used for sinus membrane elevation inside the sinus and for disengagement of anatomical structures.



OR



PRECISION & ACCESSIBILITY



CrownExtension



BS6
F87506



CE1
F87551



CE2
F87552



CE3
F87553

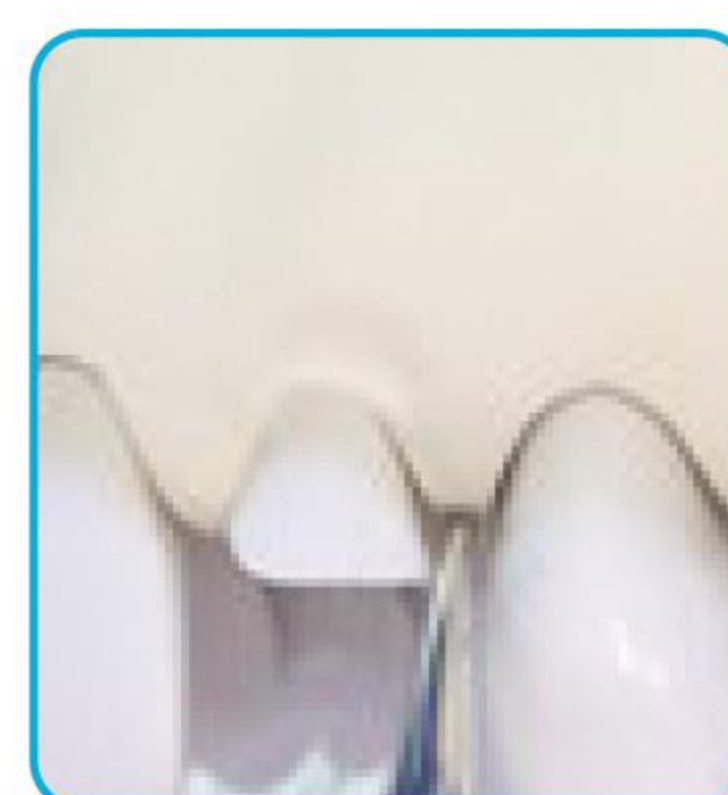
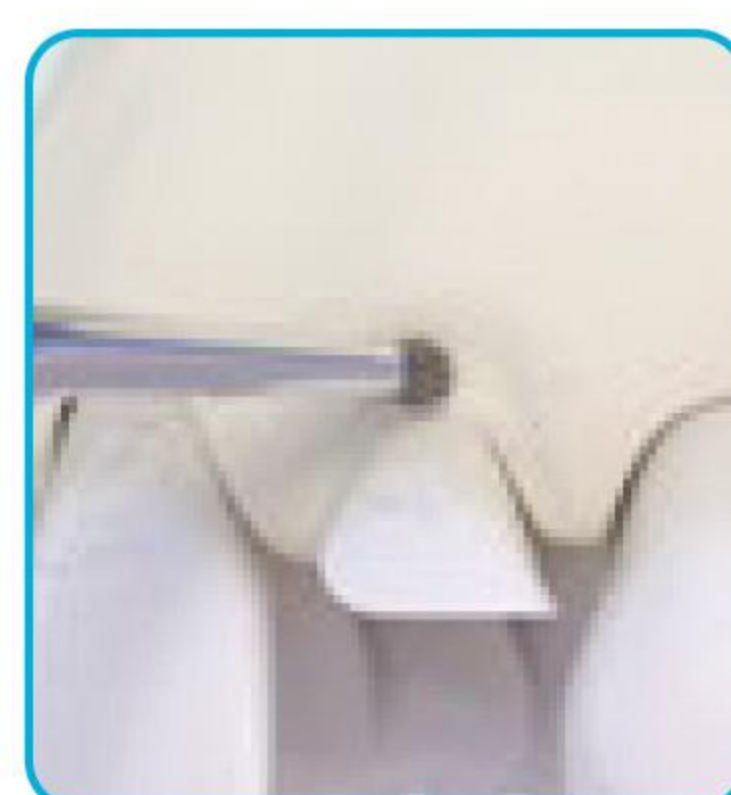
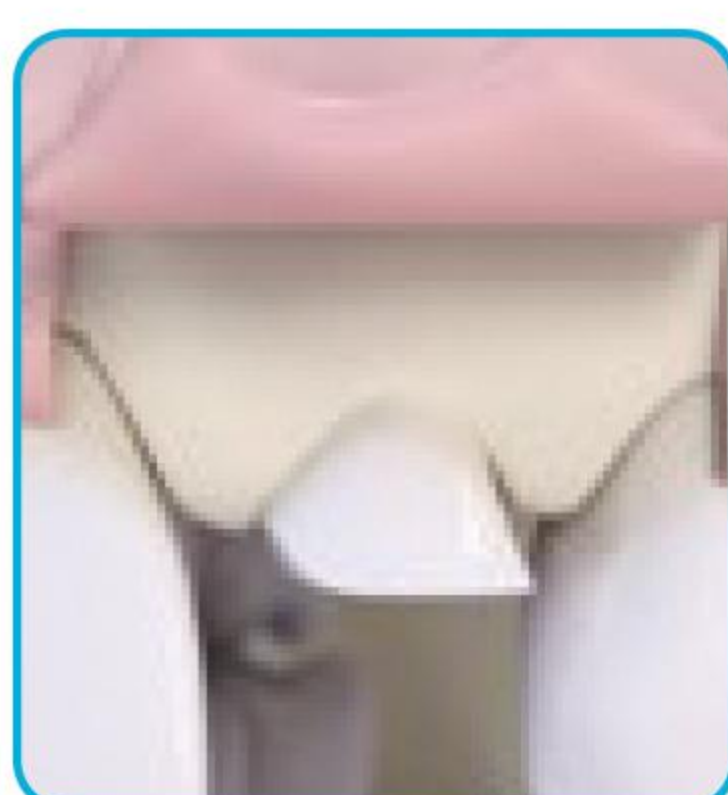
OSTEOPLASTY

- ▶ **BS6**
Curved scalpel particularly effective for substantial osseous reshaping.
- ▶ **CE1**
Diamond-coated spherical tip (Ø 1.75mm) designed for osteoplasty in oral and palatal zones.
- ▶ **CE2**
Diamond-coated spherical tip (Ø 1.20mm) designed for osteoplasty in interproximal zones.

OSTEOECTOMY - OSTEOPLASTY

- ▶ **CE3**
For a fast restoration of the biologic width (laser mark placed at 3mm).

Used perpendicularly or parallel to the bone, this tip is designed for ostectomies of the tooth-supporting bone in interproximal and oral (vestibular) and palatal periradicular zones.





SATELEC

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Manufacturer: SATELEC® - France

Read carefully the instructions for use available on acteongroup.com

Piezotome® Cube: Ultrasonic control console for intraoral surgery

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