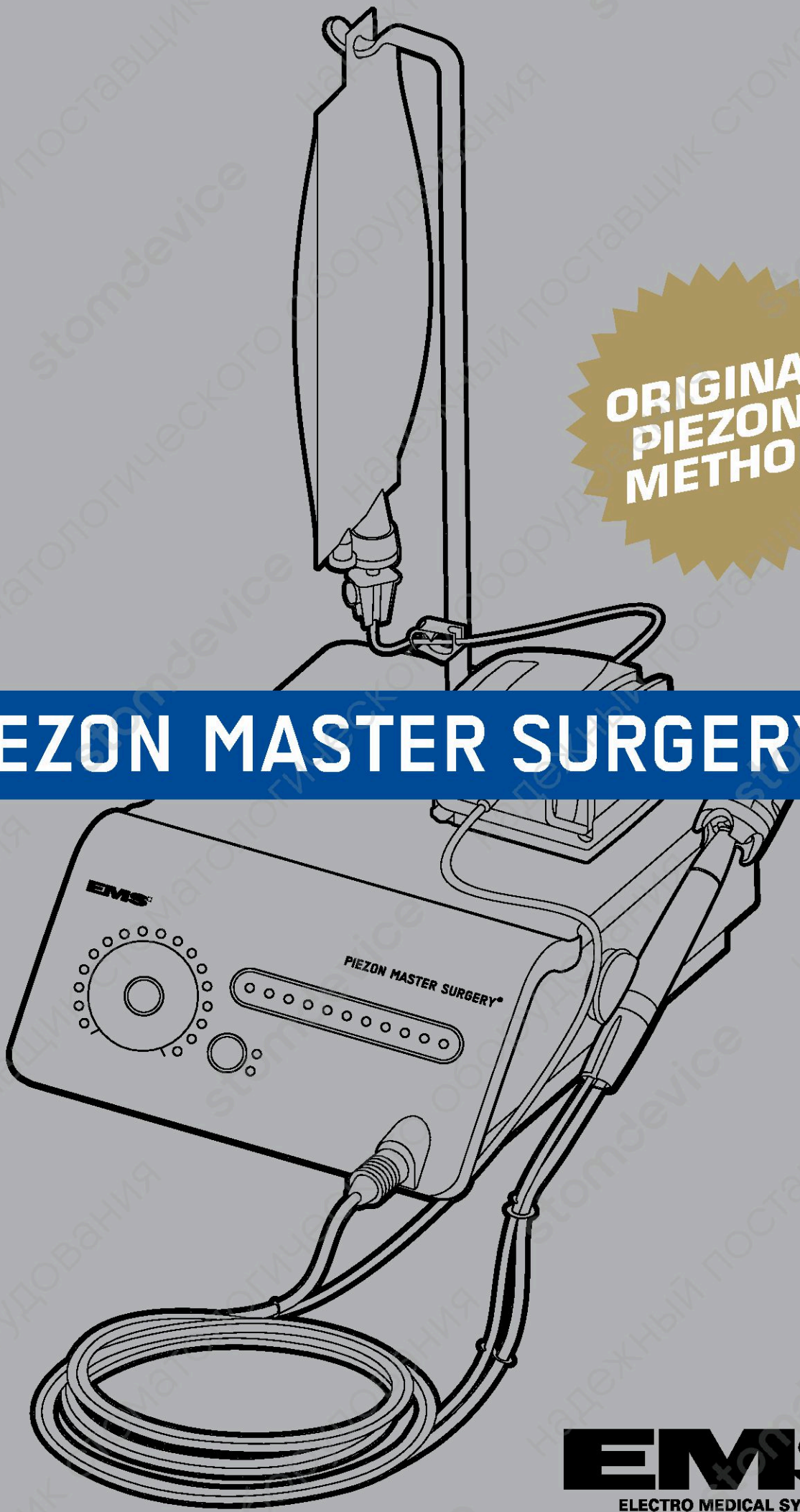
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ORIGINAL PIEZON® METHOD

PIEZON MASTER SURGERY®



EMS
ELECTRO MEDICAL SYSTEMS

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PIEZON MASTER SURGERY®
INNOVATION



PIEZON MASTER SURGERY®
COMPLETE SYSTEM

PIEZON MASTER SURGERY®

ORIGINAL PIEZON® METHOD FOR DENTAL AND ORAL SURGERY

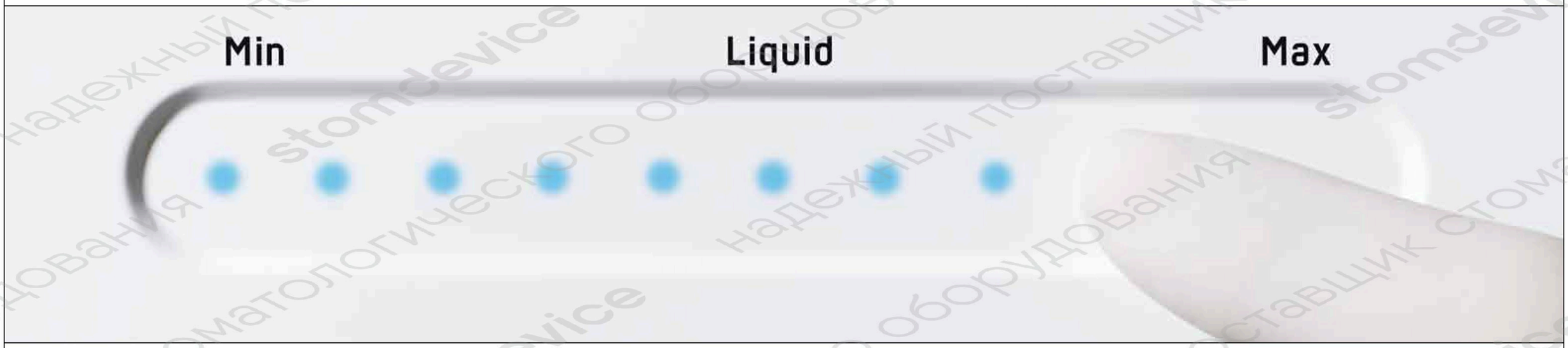
- → INNOVATIVE TECHNOLOGY
- → EASY TO OPERATE
- → MULTIPLE APPLICATIONS
- → EXCLUSIVE INSTRUMENTS
- → TOP RESULTS
- → EXTENSIVE EXPERIENCE

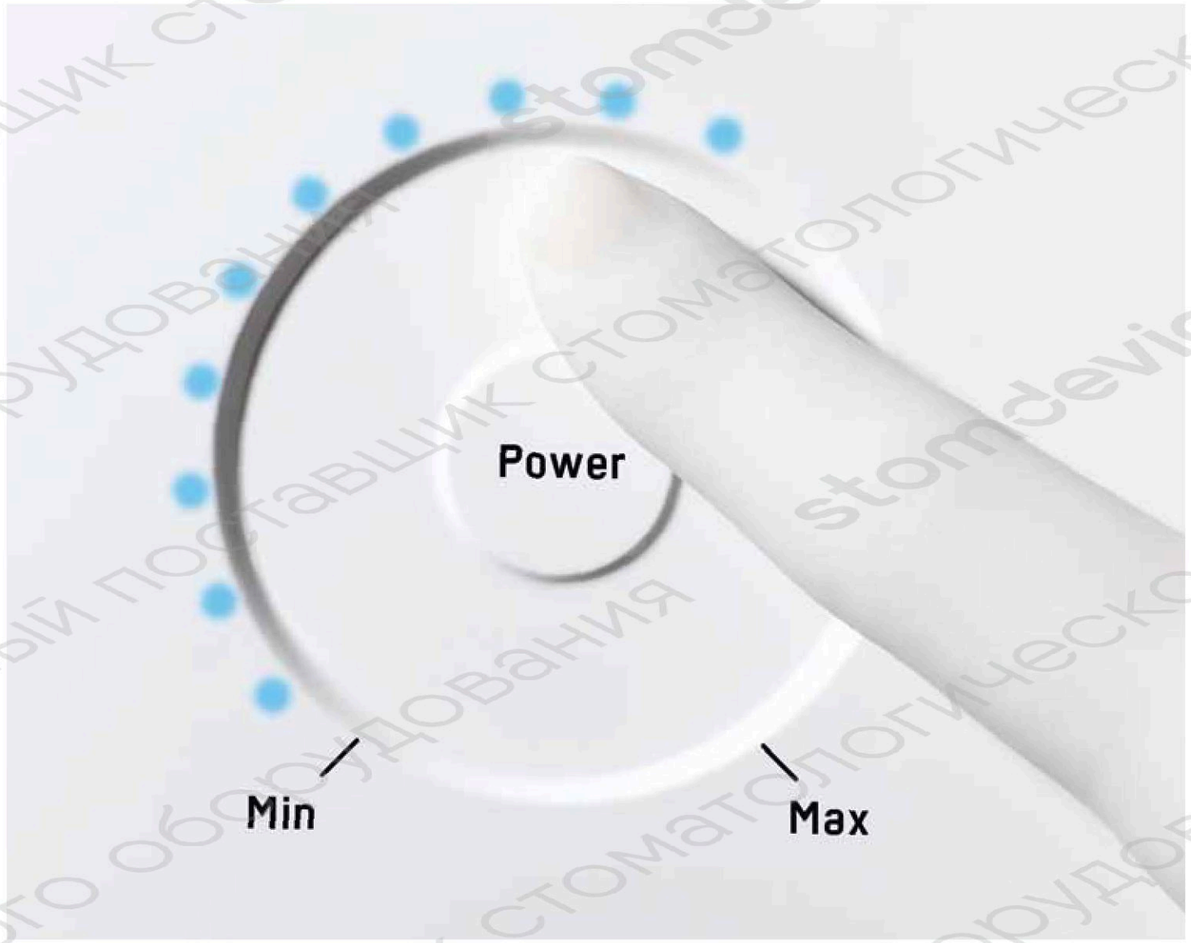
BEST OF EMS DENTAL AND MEDICAL EXPERTISE

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PIEZON MASTER SURGERY®
SIMPLICITY





FOCUS ON THE APPLICATION

→ NO EASIER WAY TO OPERATE

PIEZON MASTER SURGERY® WITH TOUCHBOARD TECHNOLOGY – UNIQUE IN THE FIELD OF SURGERY. SIMPLICITY OF THE 3-TOUCH PANEL TO YOUR ADVANTAGE

Set the power and the flow rate of the sterile solution
> by simply sliding your finger over the indentations of the control elements
> by directly pressing the required power and rate value

LED follows the finger touch automatically with a quiet signal
> even when wearing surgical gloves
> even when additional protective foil is used

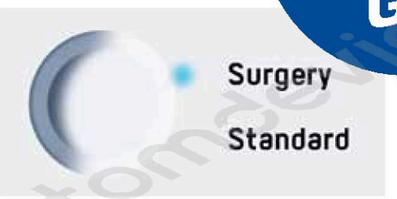
Operating errors virtually eliminated
> thanks to self-explanatory, easy and safe operation

Contamination virtually impossible
> thanks to a closed system without edges or gaps

Switch directly with just one touch
> to “Surgery” for hard tissue
> to “Standard” for soft tissue

→ PERFECT HYGIENE INCLUDED

TOUCH ’N’ GO

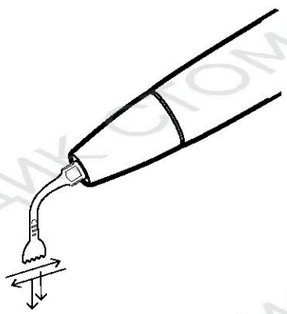


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PIEZON MASTER SURGERY®
QUALITY

PRECISION, SAFETY, POWER AND INTELLIGENCE → NEW QUALITIES FOR SURGICAL APPLICATIONS AND PROCEDURES WITH THE ORIGINAL PIEZON® METHOD



PERIODONTAL SURGERY

> Osteotomy and osteoplasty, extraction of autogenous bone for regenerative surgery

IMPLANTOLOGY

> Alveolar ridge splitting, sinus lift, extraction of autogenous bone, implant site preparation

ORAL SURGERY

> Extraction, root resection, syndesmotomy, orthodontic surgery

MAXILLARY SURGERY

> Extraction of bone cylinders, osteogenetic distraction, nerve transposition, sinus elevation, distraction osteogenesis

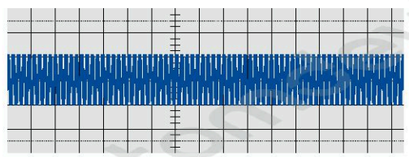
INNOVATION IN THE HANDS OF THE ORAL AND BONE SURGEON →

> Autopiloted frequency and power for maximum comfort – perfectly straight vibrations, back and forth as well as up and down

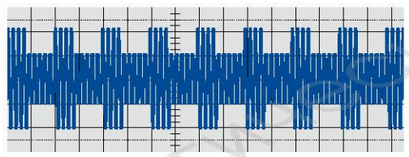
> Maximum intraoperative precision and safety, hardly any bone loss – micrometric cutting in the 60–200 µm range

> Optimum cutting of hard tissue without affecting soft tissue – selective cutting

> Unique temperature control, little loss of blood during surgery – high-frequency vibrations with permanent cooling



STANDARD MODE →
WHEN WORKING IN SENSITIVE AREAS – CONSTANT AMPLITUDE AND VIBRATION



SURGERY MODE →
HARD TISSUE – MODULATED AMPLITUDE AND CONTINUOUS VIBRATION ENSURE OPTIMUM INSTRUMENT PERFORMANCE FOR FAST AND EFFECTIVE BONE CUTTING

HIGH TECH IS IN YOUR HANDS

PIEZON MASTER SURGERY®
INTELLIGENCE

→ ELEGANT DESIGN,
OPTIMAL VIEW OF SURGICAL SITE

→ NO HEAT GENERATION,
NO TREATMENT INTERRUPTION



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PIEZON MASTER SURGERY®
KNOW-HOW

DESIGNED FROM EXPERIENCE →
PIEZON® INSTRUMENT FOR NEW STANDARDS IN SURGERY

→ DESIGN EXCLUSIVELY TAILORED TO THE SPECIFIC CHARACTERISTICS OF THE PIEZOCERAMIC ULTRASOUND DRIVE

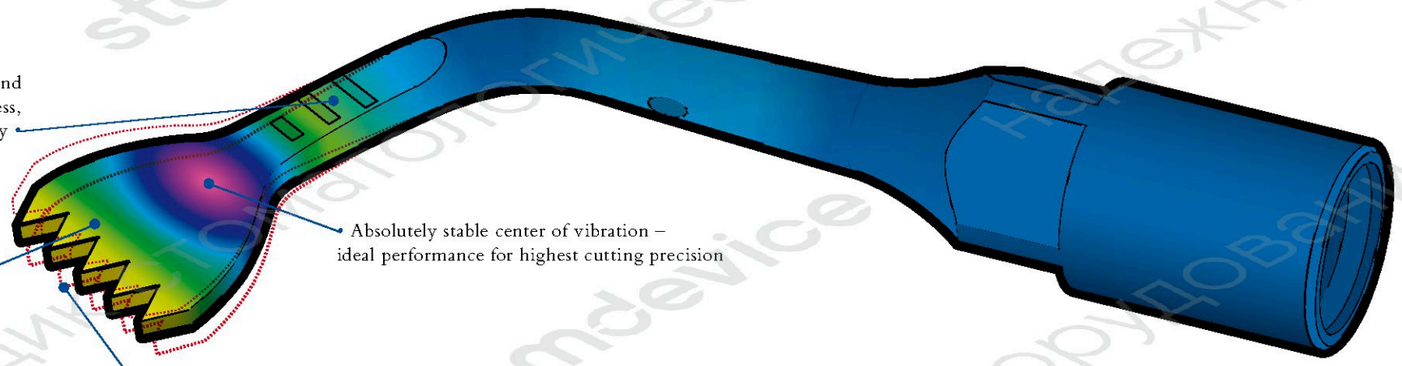
→ MATERIAL AND PROCESSING ACCORDING TO THE HIGHEST STANDARDS OF SWITZERLAND'S WORLD-ACCLAIMED WATCHMAKING INDUSTRY

→ BASED ON 25 YEARS OF EXPERIENCE WITH THE ORIGINAL PIEZON® METHOD AND THE ONGOING DEVELOPMENT OF THIS UNIQUE TECHNOLOGY

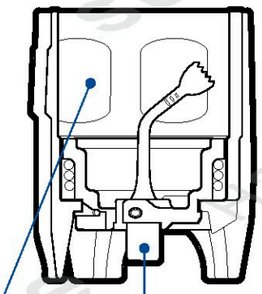
→ COMBINED KNOWLEDGE FROM THE SUCCESSFUL WORLDWIDE USE OF ULTRASOUND TECHNOLOGY IN UROLOGY (SINCE 1988) AS WELL AS IN ORTHOPEDICS (SINCE 1999)

→ INSTRUMENT FUNCTION PERFECTED BY AUTOCLAVABLE COMBITORQUE® MADE OF PEEK, THE MATERIAL USED IN SPACE TECHNOLOGY

UNIQUE FEATURES →



COMBITORQUE® →



INNOVATION FROM THE INVENTOR OF THE ORIGINAL PIEZON® METHOD
→ MATURE FROM THE VERY START

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PIEZON MASTER SURGERY®
PRECISION



Basic System, scale 5:1

PIEZON MASTER SURGERY®
EXCLUSIVENESS

EMS SWISS INSTRUMENTS SURGERY PM

→ EXCLUSIVELY DEVELOPED FOR PIEZON MASTER SURGERY®
→ COMPLETE SYSTEMS FOR ALL APPLICATIONS
→ ALWAYS SUPPLIED WITH COMBITORQUE® AND STERIBOX

BASIC SYSTEM →

FIVE EMS SWISS INSTRUMENTS SURGERY PM FOR VIRTUALLY ANY TYPE OF IMPLANT PREPARATION

- Atraumatic bone incision
- Bone remodeling around implant sites
- Atraumatic bone osteotomy
- Elevation of Schneider's membrane during sinus lift
- Harvesting of bone chips for bone augmentation

COMPLETE WITH COMBITORQUE®, ORIGINAL PIEZON® HANDPIECE AND HOSE IN THE STERIBOX



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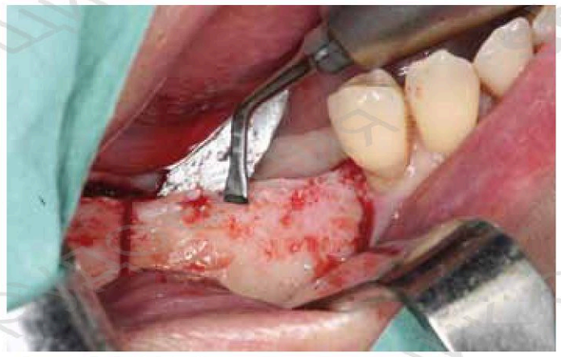
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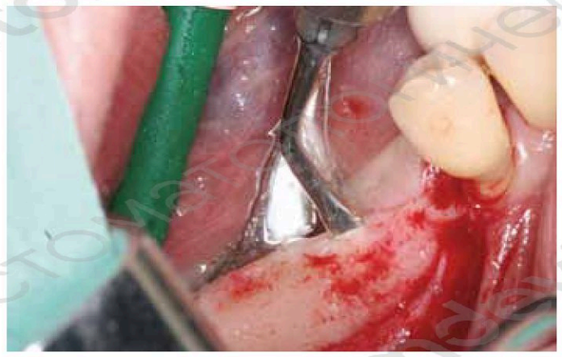
INSTRUMENT SC

FOR ALVEOLAR RIDGE SPLITTING, ATRAUMATIC VERTICAL BONE INCISION AND SENSITIVE OSTEOTOMY

> Ideal for alveolar ridge splitting – the bone can be separated atraumatically in the upper as well as the lower jaw and stretched with the conical tip – a virtually lower risk of fractures even when bone is highly mineralized







Photos by Dr. Frank Spiegelberg

ONE BASIC SYSTEM →
FIVE APPLICATIONS

PIEZON MASTER SURGERY®
APPLICATIONS

INSTRUMENT SL 1

FOR BONE TRANSPLANTATION AND ATRAUMATIC HORIZONTAL BONE INCISION

> Ideal for preparing the lateral incision when bone walls are thick

> Ideal for osteotomy even for very small incision preparation



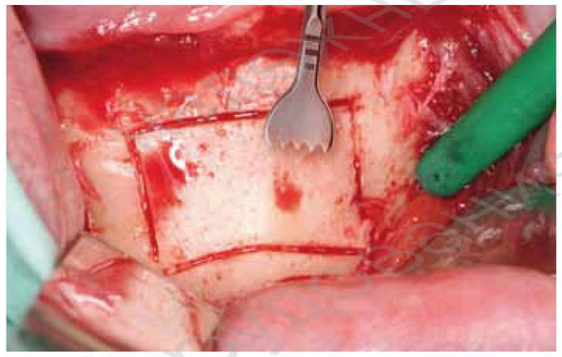


Photo by Dr. Frank Spiegelberg

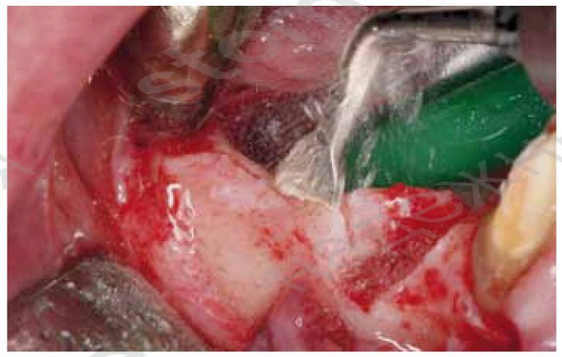


Photo by Dr. Frank Spiegelberg



Photo by Dr. Marc Hürzeler

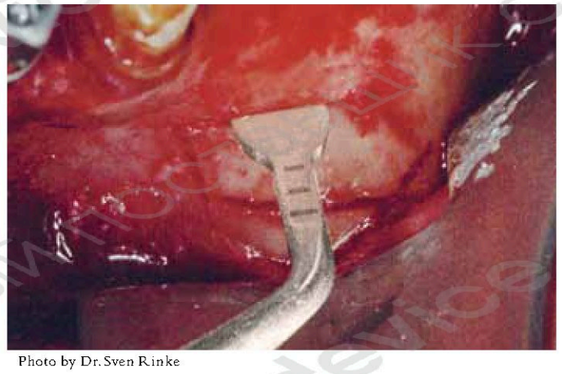


Photo by Dr. Sven Rinke

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INSTRUMENT SL 2

FOR ATRAUMATIC BONE OSTEOTOMY



> Ideal for preparing the incision to Schneider's membrane on thin bone walls and in sensitive risk areas – ideal for difficult horizontal incisions

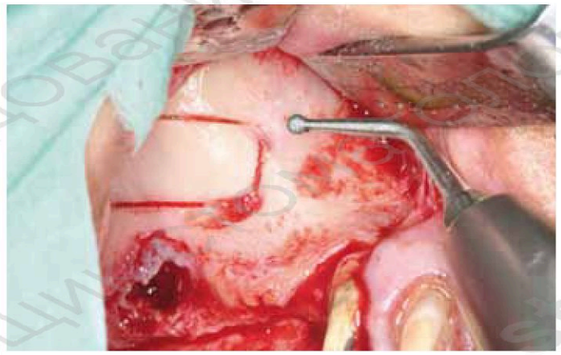


Photo by Dr. Frank Spiegelberg

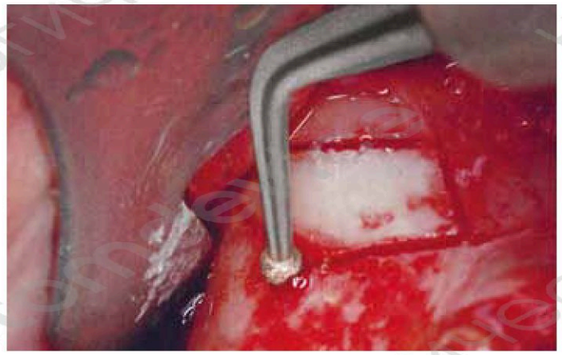


Photo by Dr. Sven Rinke

INSTRUMENT SL 3

FOR DETACHING SCHNEIDER'S MEMBRANE DURING THE SINUS LIFT



> Ideal for safely detaching Schneider's membrane due to its plate-like shape – membrane is detached in a circular fashion around the incision – minimal risk of perforation between membrane and bone wall – the vibrations of the Original Piezon® Method seem to do all of the work automatically

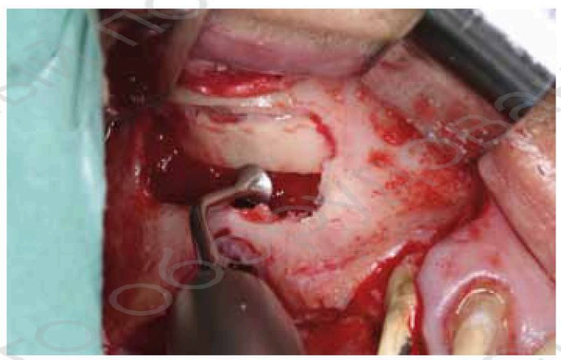


Photo by Dr. Frank Spiegelberg

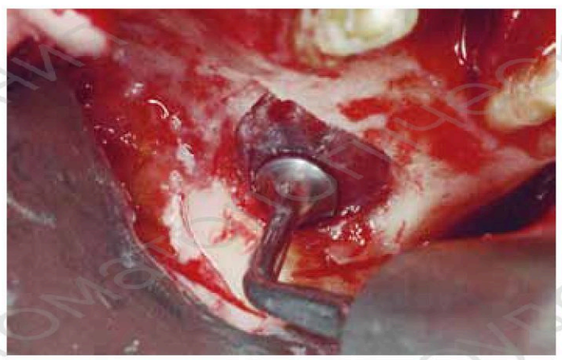


Photo by Dr. Sven Rinke

PIEZON MASTER SURGERY®
APPLICATIONS

INSTRUMENT SL 4

FOR HARVESTING BONE PARTICLES OR CHIPS FOR AUGMENTATION – FOR HARVESTING AUTOGENOUS BONE



> Ideal for the easy and fast harvest of high bone quantities with an ideal grain size of 500 µm – by scraping gently on the surface, the bone accumulates on the scoop of the instrument

> Also ideal for the sinus lift – in areas where access is difficult through a lateral incision



Photo by Dr. Frank Spiegelberg



Photo by Dr. Frank Spiegelberg

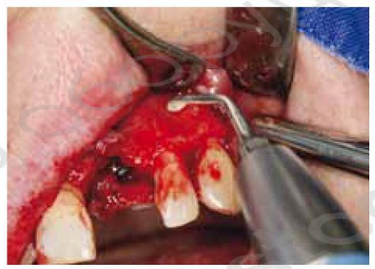


Photo by Dr. Daniel Grubeanu



Photo by Dr. Frank Spiegelberg

PIEZON MASTER SURGERY®
FULL RANGE WITH THE BASIC SYSTEM

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OPTIONS →

EMS SWISS INSTRUMENTS SURGERY[PM] – EQUIPPED FOR ALL CASES



SIX ADDITIONAL APPLICATIONS – SIX OPTIONAL SYSTEMS

- > Tooth extraction
- > Retrograde root preparation
- > Interventions on the bone
- > Periodontal treatment
- > Sinus lift
- > Implant site preparation

EACH SYSTEM WITH COMBITORQUE® IN THE STERIBOX

EXTRACTION SYSTEM



UNIQUE ANATOMICAL DESIGN FOR ENHANCED PRECISION AND EFFICIENCY

INSTRUMENT EXL → Left-oriented tip for access to posterior areas

INSTRUMENT EXR → Right-oriented tip for access to posterior areas

INSTRUMENT EX2 → Ultrasonic periotome for syndesmotomy and periradicular osteotomy

INSTRUMENT EX1 → Titanium tip for vertical tooth extraction in the anterior area



Photos by Dr. Frank Spiegelberg

PIEZON MASTER SURGERY®
OPTIONS

RETRO SYSTEM

FINE DESIGN AND COOLING SYSTEM FOR MINIMALLY INVASIVE RETROGRADE ROOT PREPARATION AND IDEAL VIEW OF THE TREATMENT SITE



INSTRUMENT RS1 → Diamond-coated tip for minimally invasive retrograde root preparation

INSTRUMENT RS2 → Sand-blasted tip for minimally invasive retrograde root preparation

INSTRUMENT RS3 → Diamond-coated tip for minimally invasive retrograde root preparation

INSTRUMENT SL4 → Curved scalpel for osteoplasty and harvesting of bone particles or chips



Photos by Dr. Wolf Richter

BONE SYSTEM



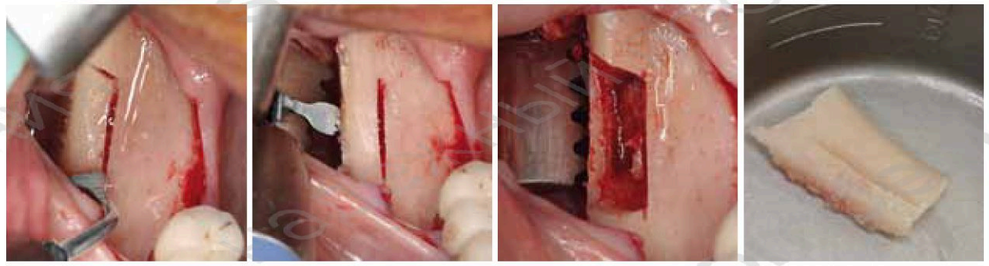
SUPERIOR INSTRUMENT DESIGN FOR BONE BLOCK GRAFTING TECHNIQUES

INSTRUMENT BCL → Left-oriented bone saw for cutting bone in the ramus area

INSTRUMENT BCR → Right-oriented bone saw for cutting bone in the ramus area

INSTRUMENT SL1 → Bone saw for in-depth cutting of cortical bone

INSTRUMENT BC → Conical bone cutting tip for fine, precise cuts and osseous recontouring



Photos by Dr. Frank Spiegelberg

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PERIO SYSTEM

PRECISE AND RELIABLE IN RESECTIVE AND REGENERATIVE PERIODONTAL SURGERY

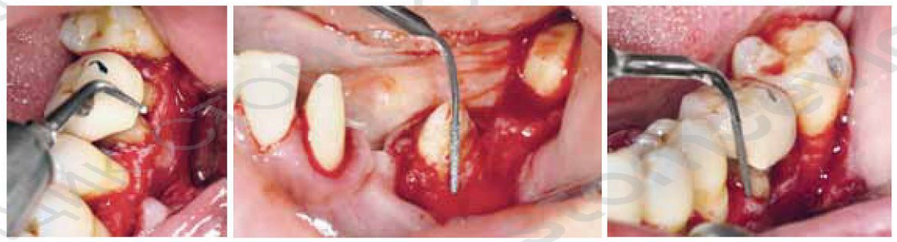


INSTRUMENT PE1 → Diamond-coated ball tip for fast calculus removal

INSTRUMENT PE2 → Diamond-coated tip (70 µm) for enlarging root furcations

INSTRUMENT PE3 → Diamond-coated tip (15 µm) for gently enlarging root furcations

INSTRUMENT BC → Conical bone cutting tip for fine, precise cuts and osseous recontouring



Photos by Dr. Mauro Bovi

SINUS SYSTEM

ADVANCED SURGERY INSTRUMENTS FOR GENTLE AND STEADY LATERAL SINUS LIFTS



INSTRUMENT SL1 → Bone saw for in-depth cutting of cortical bone

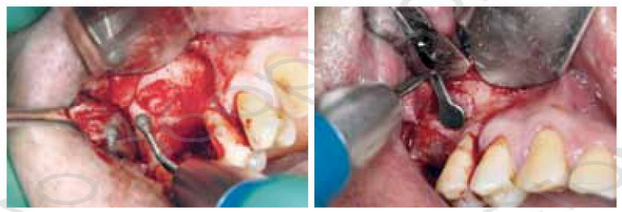
INSTRUMENT SL2 → Diamond-coated ball tip for smoothing the vestibular bone window and precise osteoplasty

INSTRUMENT SL4 → Curved scalpel for osteoplasty and harvesting of bone particles or chips

INSTRUMENT SL5 → Large diamond-coated ball tip for smoothing the vestibular bone window and precise osteoplasty

INSTRUMENT SL6 → Spatula designed for Schneider's membrane elevation inside the sinus





Photos by Dr. Mauro Bovi

IMPLANT SYSTEM

EXCLUSIVE FULLY DIAMOND-COATED INSTRUMENTS WITH DUAL COOLING SYSTEM FOR LOW INTRA-OPERATIVE TEMPERATURE, OPTIMUM EVACUATION OF DEBRIS, FAST, PRECISE AND PREDICTABLE DRILLING





INSTRUMENT MB1 → Diamond-coated tip (Ø 1,15 mm) for initial osteotomy in the maxilla

INSTRUMENT MB2 → Diamond-coated tip (Ø 1,95 mm) for preliminary drilling in the maxilla

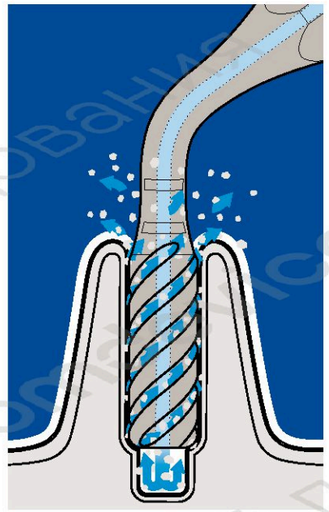
INSTRUMENT MB3 → Diamond-coated tip (Ø 2,50 mm) for preliminary drilling in the maxilla

INSTRUMENT MB4 → Diamond-coated cylindrical tip (Ø 2,80 mm) for secondary drilling in the maxilla

INSTRUMENT MB5 → Diamond-coated cylindrical tip (Ø 3,05 mm) for secondary drilling in the maxilla

INSTRUMENT MB6 → Diamond-coated cylindrical tip (Ø 3,30 mm) for final osteotomy in the maxilla





INSTRUMENT MB4 / MB5 / MB6 →
Vertical nozzle outlet for water cooling
Vertical spiral for water cooling and debris evacuation

PIEZON® SURGERY SAVES CELLS
ems-swissquality.com

Photos by Dr. Mauro Bovi

SIX OPTIONS FOR EVEN MORE EFFICACY

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PIEZON MASTER SURGERY®
PERFECTION

COMPLETE → COMPLETELY FUNCTIONAL

1 ORIGINAL PIEZON® HANDPIECE
> Lightweight and ergonomic
> Optimum visibility due to small size
> Metal cap for controlled precision
> Sterilizable up to 135°C

2 PIEZON® TECHNOLOGY
> Optimum instrument movements
> Feedback control
> Precise treatment results
> Virtually no heat transferred to the surgical instruments

3 EMS SWISS INSTRUMENTS SURGERY PM
> Each with CombiTorque® for steady handling
> Broad scope of application
> Swiss-quality development and manufacturing

4 BOTTLE HOLDER
> Sterilizable up to 135°C
> Easy to install

5 CORD
> Removable from the unit
> Built with the handpiece in one piece
> Sterilizable up to 135°C
> Flexible and long lasting

6 STERILE LINE
> Single-use tubes for the sterile solution

7 PERISTALTIC PUMP
> For sterile liquid flow
> High flow rate for optimal cooling

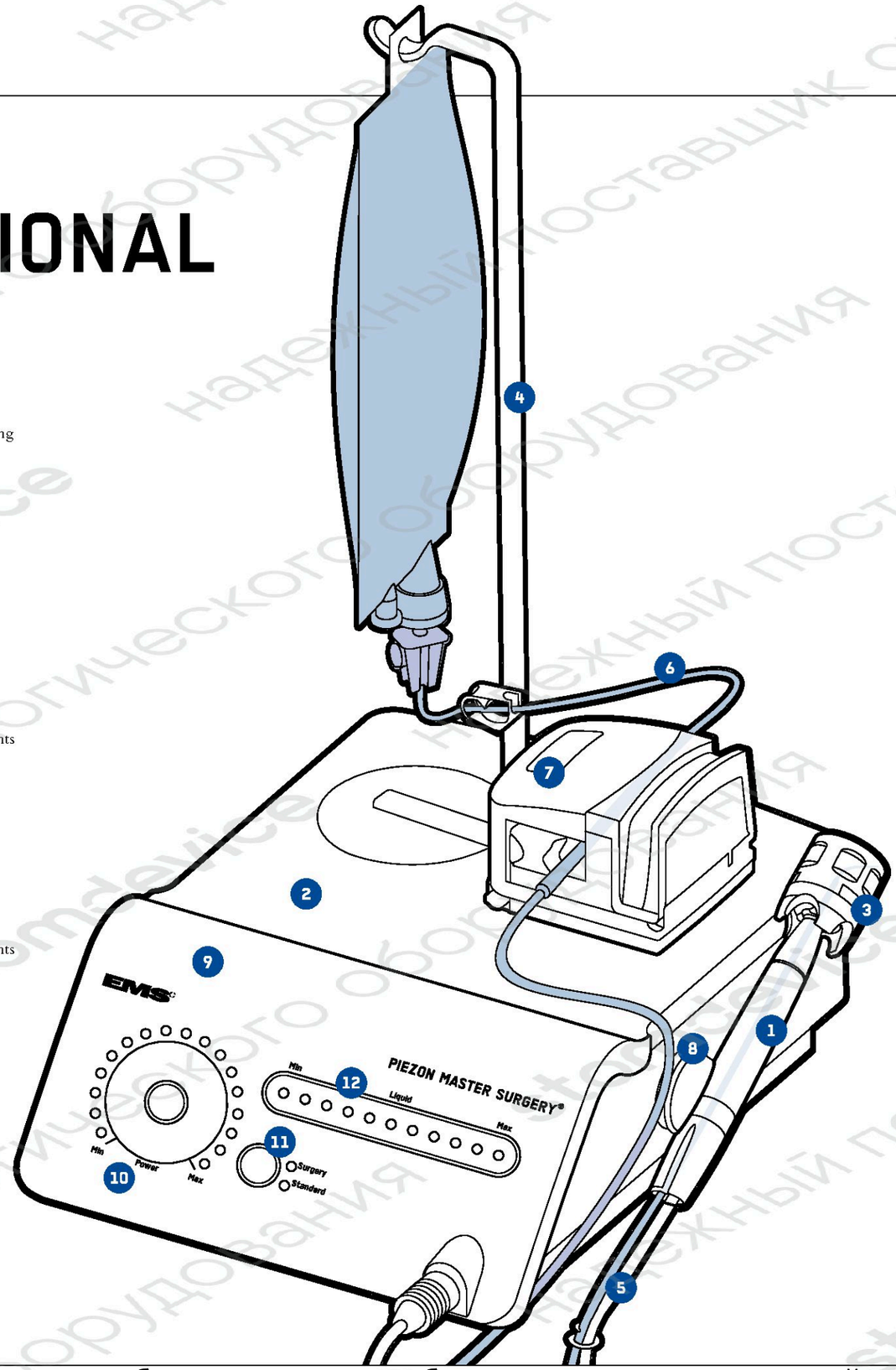
8 HANDPIECE HOLDER
> Magnetic, removable
> Sterilizable up to 135°C

9 TOUCH PANEL
> Fast and precise settings
> Easy-to-read controls
> Hygienic

10 POWER
> LED settings in 17 increments for individual clinical requirements
> Clear and easy to understand

11 WORKING MODE
> "Surgery" for hard tissue
> "Standard" for soft tissue

12 LIQUID FLOW
> LED settings in 11 increments for individual clinical requirements
> Clear and easy to understand





RELIABLE
> CombiTorque® – for the safe storage and mounting of EMS Swiss Instruments PM



STERILE
> Single-use tubes easy to connect to the handpiece



FLEXIBLE
> Magnetic handpiece holder for flexible use on all metal surfaces – not only on the housing!



SIMPLE
> ON / OFF foot control – allows to concentrate on the treatment site

PIEZON MASTER SURGERY®
INNOVATION IN DETAIL

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INNOVATIVE TECHNOLOGY →

ORIGINAL PIEZON® METHOD FOR EXCELLENT PERFORMANCE IN DENTAL AND ORAL SURGERY – WITH EFFICACY AND SUCCESS

EXCLUSIVE INSTRUMENTS →

EMS SWISS INSTRUMENTS SURGERY[PM], EXCLUSIVELY DEVELOPED FOR THE PIEZON MASTER SURGERY® – WITH THE EXPERIENCE OF 25 YEARS OF CONTINUOUS RESEARCH AND DEVELOPMENT

ALL APPLICATIONS →

BASIC SYSTEM COMPLETE WITH FIVE EMS SWISS INSTRUMENTS SURGERY[PM] – OPTIONAL SYSTEMS FOR TOOTH EXTRACTIONS, RETROGRADE TOOTH PREPARATIONS, INTERVENTIONS ON THE BONE, PERIODONTAL TREATMENT, SINUS LIFT AND IMPLANT SITE PREPARATION

HIGH LEVEL OF EXPERIENCE →

INCOMPARABLE EXPERTISE FROM THE INVENTOR OF THE ORIGINAL PIEZON® METHOD, ACCESS TO INTERNAL RESOURCES AND PRODUCTION ADVANTAGES THROUGH SYNERGIES – FOR A PARTICULARLY PROFITABLE INVESTMENT

EASY TO OPERATE →

3-TOUCH PANEL TECHNOLOGY FOR SETTING DIFFERENT FUNCTIONS AND PERFORMANCE RATES BY SIMPLY TOUCHING THE CONTROL ELEMENTS – SELF-EXPLANATORY, PERFECT HYGIENE GUARANTEED

TOP RESULTS →

KNOWLEDGE OF ULTRASOUND TECHNOLOGY AND ITS APPLICATION IN DENTISTRY, ORTHOPEDICS AND UROLOGY, CONCENTRATED IN DENTAL SURGERY – QUALITY REDEFINED

Photo by
University of Basel, Switzerland –
Department of Oral Surgery,
Oral Radiology and Oral Medicine

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