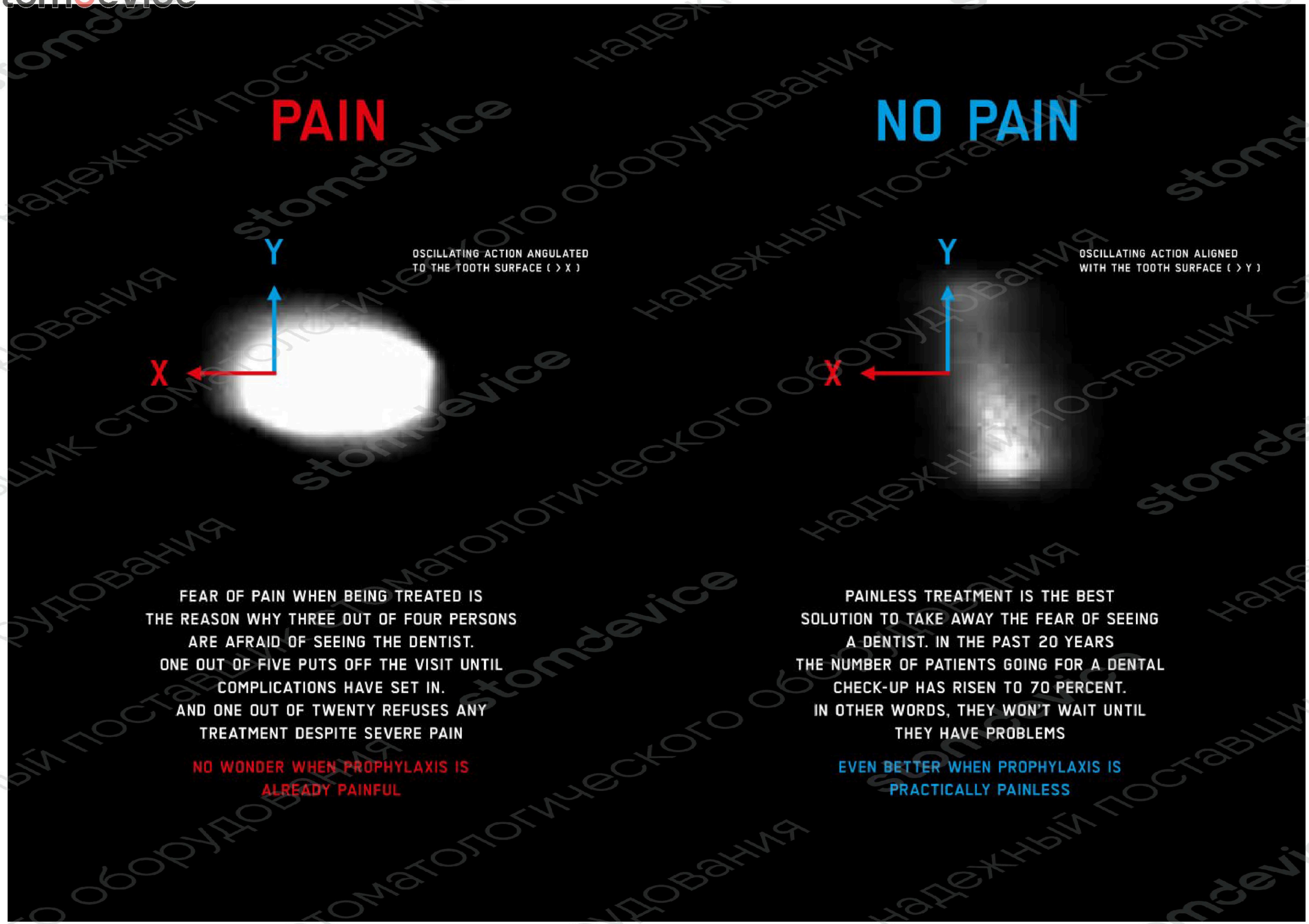
PIEZON®

NO PAIN

EMS
ELECTRO MEDICAL SYSTEMS

надежный поставщик стоматологического оборудования stomdevice

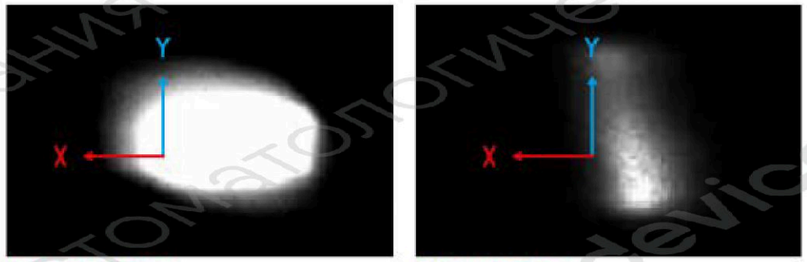


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ORIGINAL PIEZON® METHOD
RESEARCH

NOW IN BLACK AND WHITE → CLINICAL EVIDENCE FOR THE SUPERIORITY OF THE ORIGINAL PIEZON® METHOD



UNCONTROLLED → Other manufacturer – Other instrument – Marked oscillating action angulated to the tooth surface (> X)

CONTROLLED → Original Piezon® Method – EMS Swiss Instruments™ – Oscillating action clearly aligned with the tooth surface (> Y)

Janner A., Oscillating action of different sonic and ultrasonic tips and recommendations for the clinical application on patients – Dissertation, Ludwig-Maximilians-Universität, Munich, Germany, 2003

Photos (above): Dr. A. Janner
Photos (right): Schmage P., Schultz Y., Platzer U., Maisch S., Nergiz I., University of Hamburg, Germany

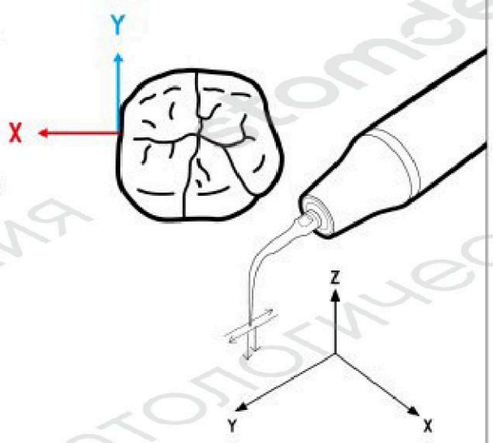
THE ORIGINAL PIEZON® METHOD DELIVERS CONTROLLED OSCILLATING ACTION ALIGNED WITH THE TOOTH SURFACE →

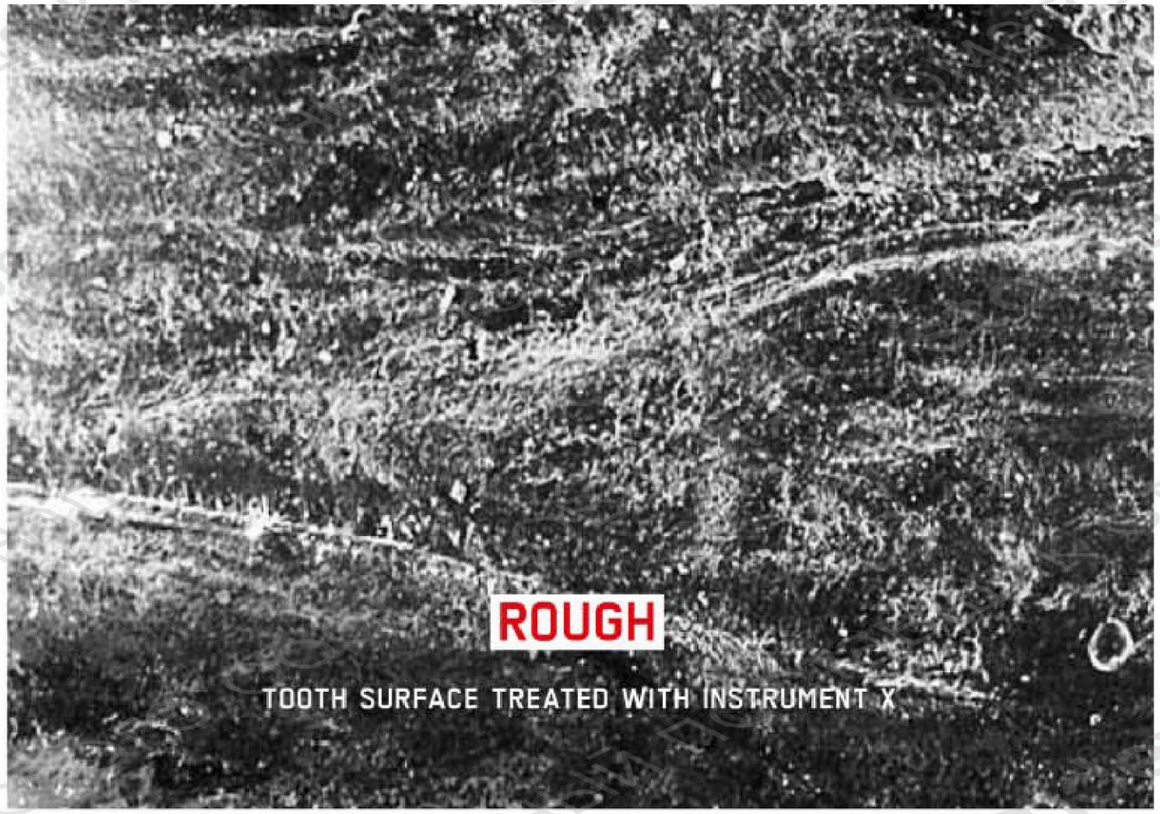
> Gentle treatment for uniform surface roughness with minimum abrasion of tooth surface

> Easy to use due to clearly linear oscillating action and intelligent feedback control

> Efficient delivery due to 32,000 movements per second as well as cavitation and acoustic streaming

> Maximum retention of the oral gingival epithelium and virtually painless treatment due to optimized instrument movements







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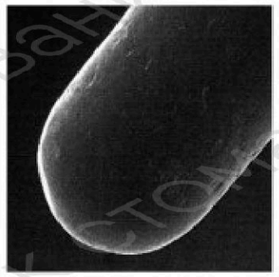
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ORIGINAL PIEZON® METHOD
PRECISION

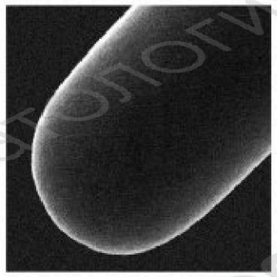
ORIGINAL AND COPIES →

BEWARE OF COPIES

THE ULTRAFINE SURFACES OF EMS SWISS INSTRUMENTS[PM] SHOW THE DIFFERENCE IN MATERIAL AND MANUFACTURING →



COPY →
Generic ultrasonic device



ORIGINAL →
EMS Swiss Instruments[PM]

> Premium-quality biocompatible surgical steel

> Reproducible oscillating action due to highly precise manufacturing

> Ultrafine instrument surface due to special polishing process for a long life span



DAMAGED → Generic ultrasonic instruments overload the sonotrode and severely shorten its life span



UNDAMAGED → EMS Swiss Instruments[PM] spare the sonotrode and guarantee years of use

SONOTRODE OF THE ORIGINAL PIEZON® HANDPIECE MADE OF PREMIUM TITANIUM → A WASTE FOR IMITATIONS

> As a rule, copies are made of steel that is inappropriate – they have the same effect as a thread cutter and damage the valuable handpiece (loss of warranty!)

> Original EMS Swiss Instruments[PM] are the result of on-going development with the expertise of the inventor – in perfect harmony with the Original Piezon® Method, from piezoceramic drive and handpiece to instrument tip – perfectly matched

ORIGINAL PIEZON® METHOD
EMS SWISS INSTRUMENTS[PM]



EMS SWISS INSTRUMENT PS

[> *magnified 7 times*]

"EMS Perio slim tip had best interproximal and subgingival access"

CRA (Clinical Research Associates) Newsletter, USA

EMS SWISS INSTRUMENTS[PM] →
UNDOUBTEDLY THE WORLD'S MOST COPIED ULTRASONIC INSTRUMENTS

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PIEZON® MASTER 700
PERFECTION

NEW → PIEZON® MASTER 700

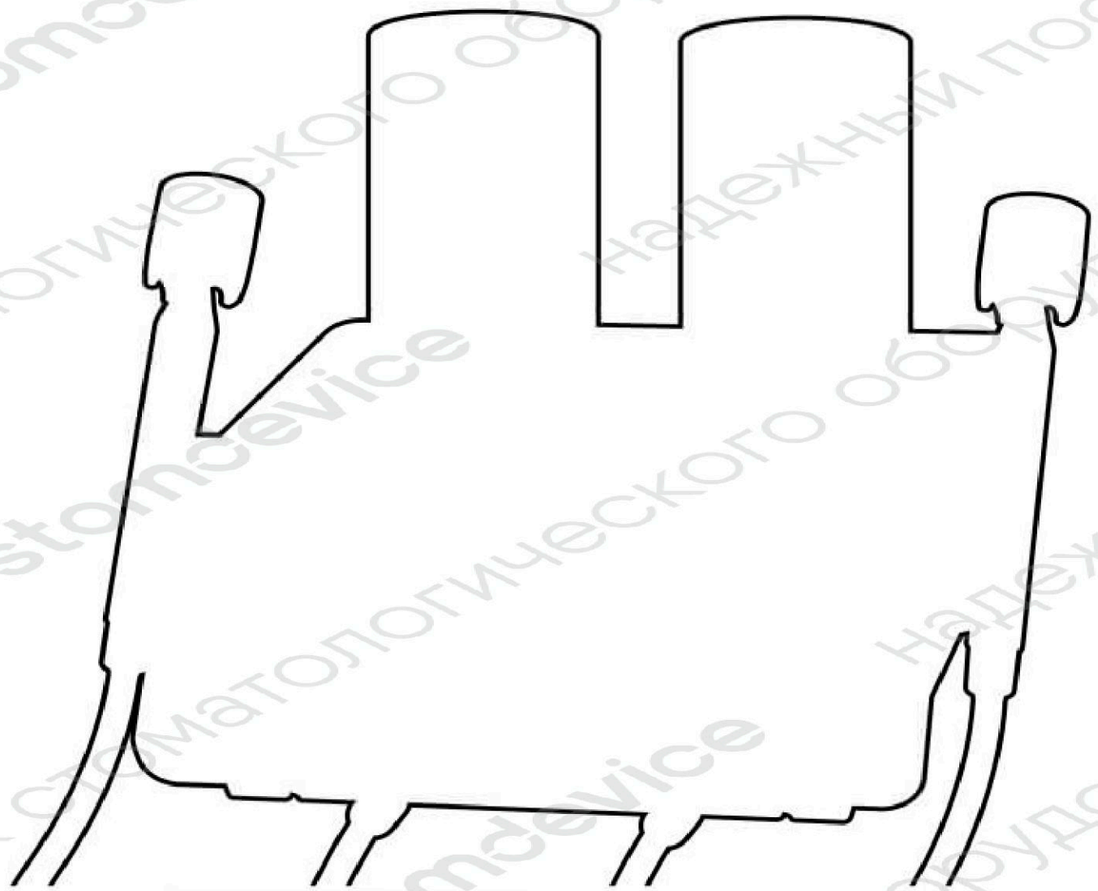
ORIGINAL PIEZON® METHOD IN THE LEAD WITH PIEZON® NO PAIN TECHNOLOGY

→ VERSATILE
→ SIMPLE
→ HYGIENIC

THE NEW PIEZON®



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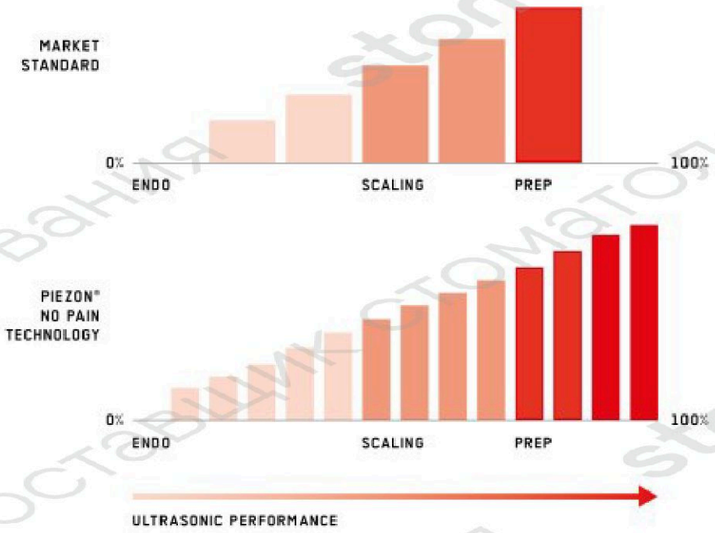
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PIEZON® MASTER 700
COMFORT

PIEZON® NO PAIN TECHNOLOGY → EMS SWISS INSTRUMENTS[PM]

A MIX OF INTELLIGENT TECHNOLOGY AND UNEQUALED PRECISION MAKES THE DIFFERENCE

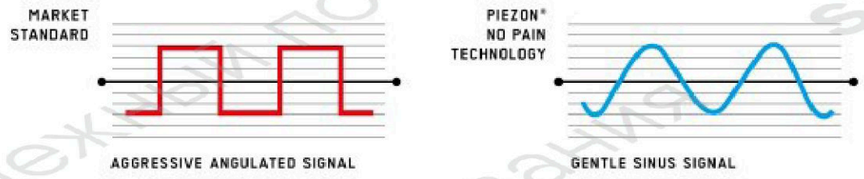
DIFFERENTIATED POWER
→MULTIPLE TREATMENT APPLICATIONS



> Gentle and comfortable for endo applications
> Intelligent power output feedback control
> More power for restorative procedures
> Optimum instrument control and efficiency in all applications

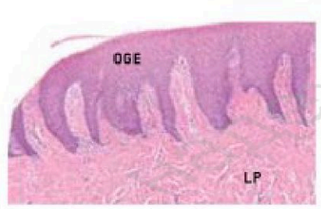
PIEZON® MASTER 700
COMFORT

UNIFORM POWER OUTPUT →PLEASANT TREATMENT

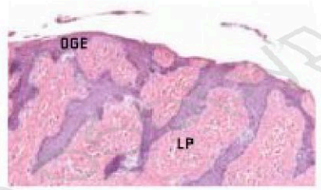


> No irritation due to aggressive power output or noise
> Almost no pain sensation due to gentle sinus signal of Piezon® No Pain technology

OPTIMUM INSTRUMENT MOVEMENTS
→UNDAMAGED EPITHELIUM

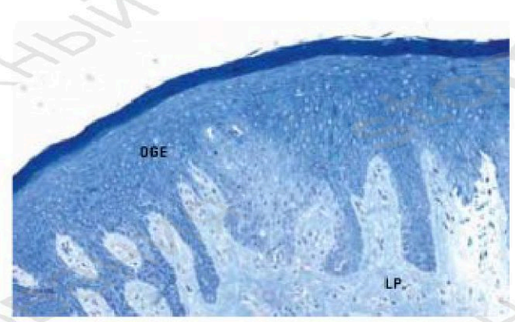


Negative control specimen*
→**BIOPSY SCORE 1**



Epithelium following treatment with hand instrumentation*
→**BIOPSY SCORE 4**

*Petersilka G., Faggion Jr. C.M., Stratmann U., Gerss J., Ehmke B., Haeberlein I., Flemmig T.F. – Journal of Clinical Periodontology (Issue 4, 2008)



Epithelium following treatment with Piezon® Master 700 and EMS Instrument PS→**BIOPSY SCORE 1**

> No lesion of the oral gingival epithelium and largely painless treatment thanks to optimum linear instrument movements between tooth and epithelium

BIOPSY SCORES

1 NO LESION
2 MINOR LESION *Basement membrane intact*
3 MEDIUM LESION *Basement membrane damaged*
4 SEVERE LESION *Basement membrane destroyed*

OGE = ORAL GINGIVAL EPITHELIUM
LP = LAMINA PROPRIA

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PIEZON® MASTER 700
COMFORT

PIEZON® NO PAIN TECHNOLOGY MATCHED TO ORIGINAL PIEZON® HANDPIECE LED AND EMS SWISS INSTRUMENTS[PM] →UTMOST PATIENT COMFORT



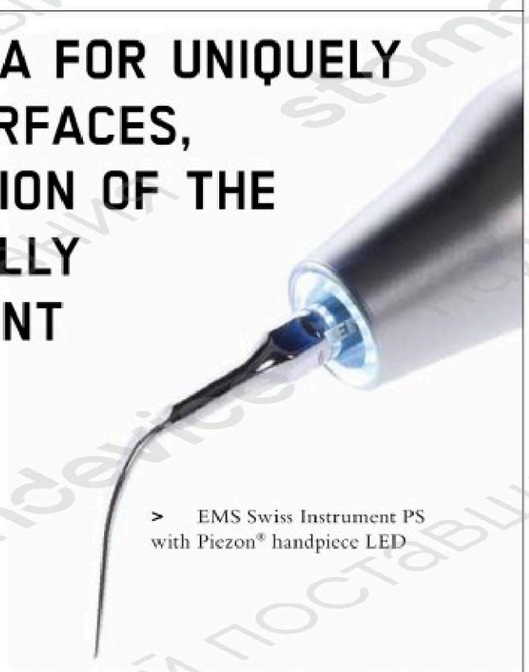
> Piezon® No Pain module – integrated in the new Piezon® Master 700

> Original Piezon® handpiece LED – circular light emission

> EMS Swiss Instruments[PM] – genuine only with laser-etched EMS logo

LINEAR OSCILLATING ACTION ALIGNED WITH THE TOOTH SURFACE AND DELIVERED BY UNIQUE EMS SWISS INSTRUMENTS[PM] COMBINES WITH THE SINUSOIDAL POWER OUTPUT OF INTELLIGENT PIEZON® NO PAIN TECHNOLOGY PERFECTLY MATCHED TO THE ORIGINAL PIEZON® HANDPIECE FOR UNPARALLELED PRECISION →

THE RIGHT FORMULA FOR UNIQUELY SMOOTH TOOTH SURFACES, MAXIMUM PROTECTION OF THE GUMS AND VIRTUALLY PAINLESS TREATMENT



> EMS Swiss Instrument PS with Piezon® handpiece LED

ANTI-PAIN FORMULA

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ORIGINAL PIEZON® METHOD
SCIENCE

MANY ARE OUT OF LINE →BUT NOT THE ORIGINAL PIEZON® METHOD

WHEN INSTRUMENTS ARE OUT OF STEP→

> Random instrument movements in the form of eights, double eights or twisted curves hit the tooth and gingival surfaces in an uncontrolled fashion. It is not difficult to imagine that such movements cause considerable pain to the patient

> Anesthesia is often the only method of choice to protect the patient from the painful side effects of plaque removal. As a rule with the unpleasant effect to have to endure the brief but sharp pain of the injection needle and several hours of local numbness

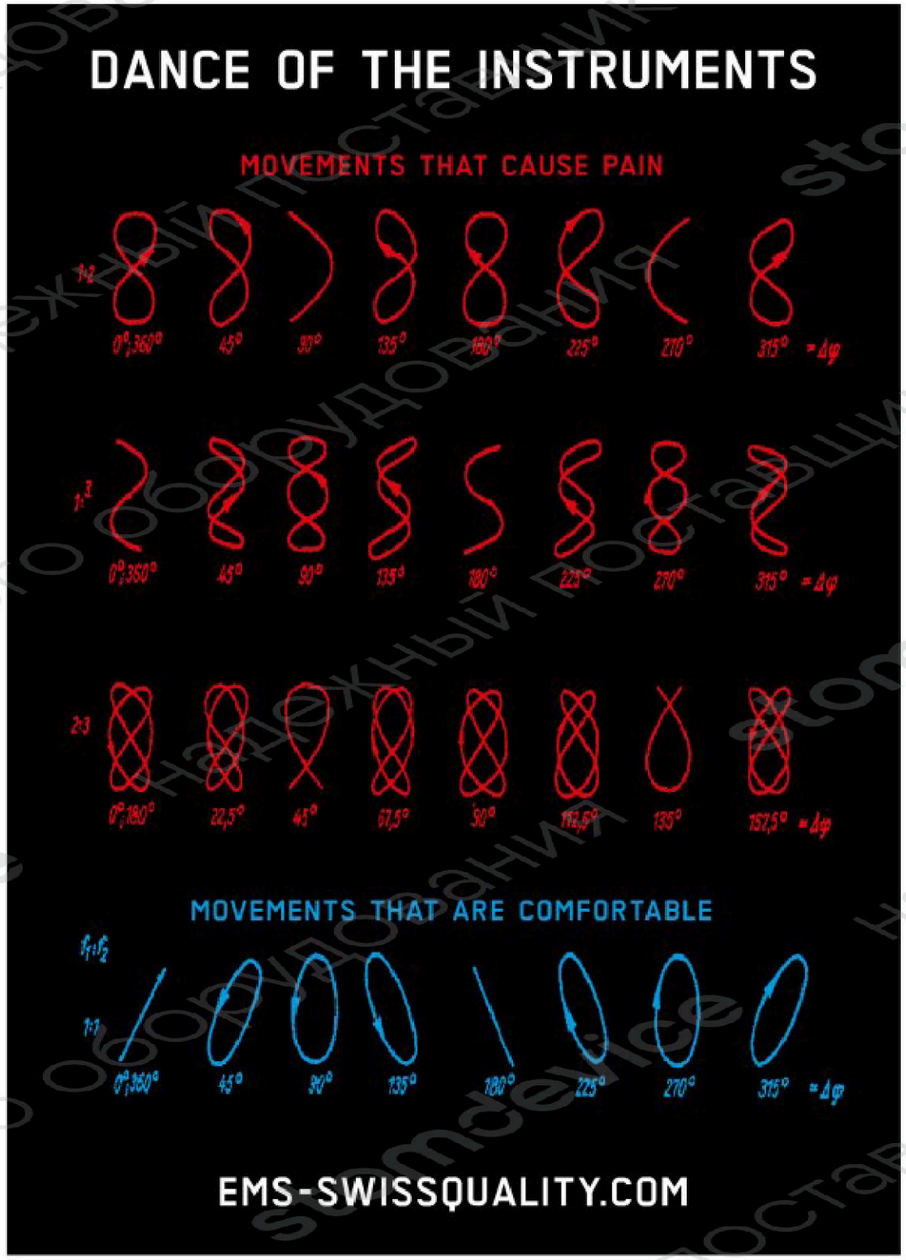
> Yes, there are manufacturers who will sell the treatment unit with an anesthetic package. The message is clear: this will hurt. Not exactly what's needed to achieve greater recall success

WHEN INSTRUMENTS KNOW HOW TO MOVE→

> Precisely predetermined instrument movements oscillate in a controlled manner between the tooth and gums. The connecting tissue is protected from injury or destruction, the embedded nerves remain untouched and the patient hardly feels any discomfort

> The Original Piezon® Method is a truly effective and largely painless way to remove plaque. The patient experiences the treatment as extremely pleasant, is motivated for regular recall visits, and readily refers the practice to others

EARN THE ENTHUSIASM OF YOUR PATIENTS



LISSAJOUS FIGURES

> Circles, ellipses, eights, double eights and twisted curves – named after mathematician J.A. Lissajous

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