

mectron

PUT PERFECTION INTO PRACTICE
MULTIPIEZO PRO



PUT VARIETY INTO PRACTICE INDICATIONS


The widest range of indications in the market. An extremely wide ultrasound power range. Innovative electronics. Unique ergonomics. Put it all together – and you come up with the new mectron multipiezo pro.

It is perfectly suited for all kinds of oral problems patients show up with in your dental office: from calculus to caries, from endodontal to periodontal inflammations, from extractions to restorations. It has been designed to be your perfect assistant in daily practice – being an as flexible problem solver as you are.




COMMON WORK DAY IN A DENTAL OFFICE

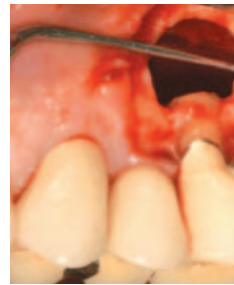
INITIAL PERIO-TREATMENT

 **Patient:** 39 years, severe, untreated periodontitis, careful subgingival debridement and adjunctive medicinal pocket rinsing




ENDO RETRO-GRADE TREATMENT

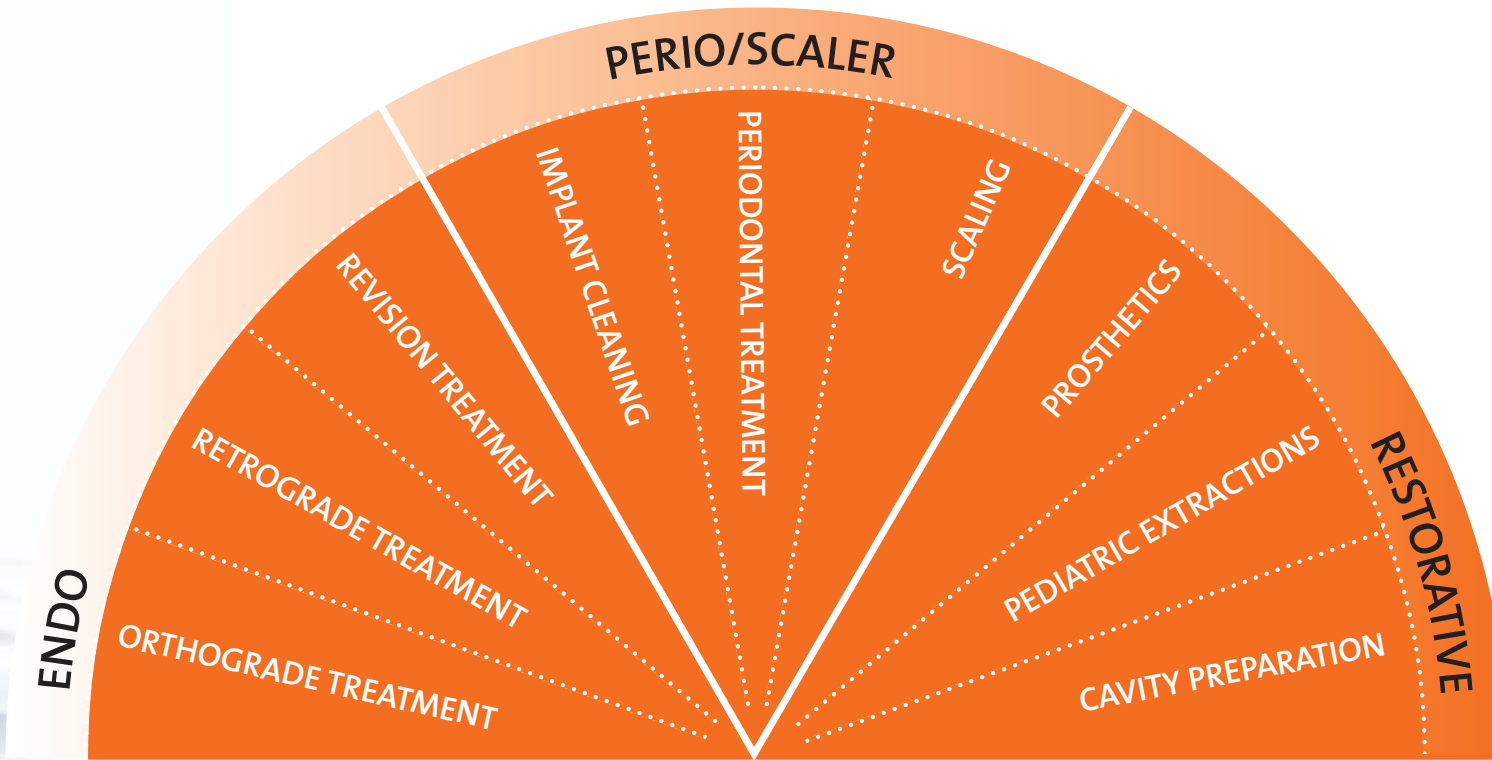
 **Patient:** 32 years, failed orthograde endodontics, restoration already carried out, retrograde cleaning of the root channel



OCCUSAL CARIOUS

 **Patient:** 17 years, bad oral hygiene, large carious defect, minimal invasive removal of carious and beveling of preparation edges






→ MULTIPIEZO PRO – THE MULTIFUNCTIONAL DENTIST ULTRASOUND


multi piezo pro opens a wide range of indications, from normal scaling to periodontitis and implant cleaning, to all kind of endodontic and restorative treatments as well as pediatric extractions.

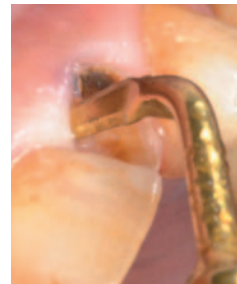
→ IMPLANT CLEANING

 **Patient:** 57 years, two 12 years old implants, soft surface cleaning with optimal visibility of the implant




→ PRELIMINARY TOOTH EXTRACTION

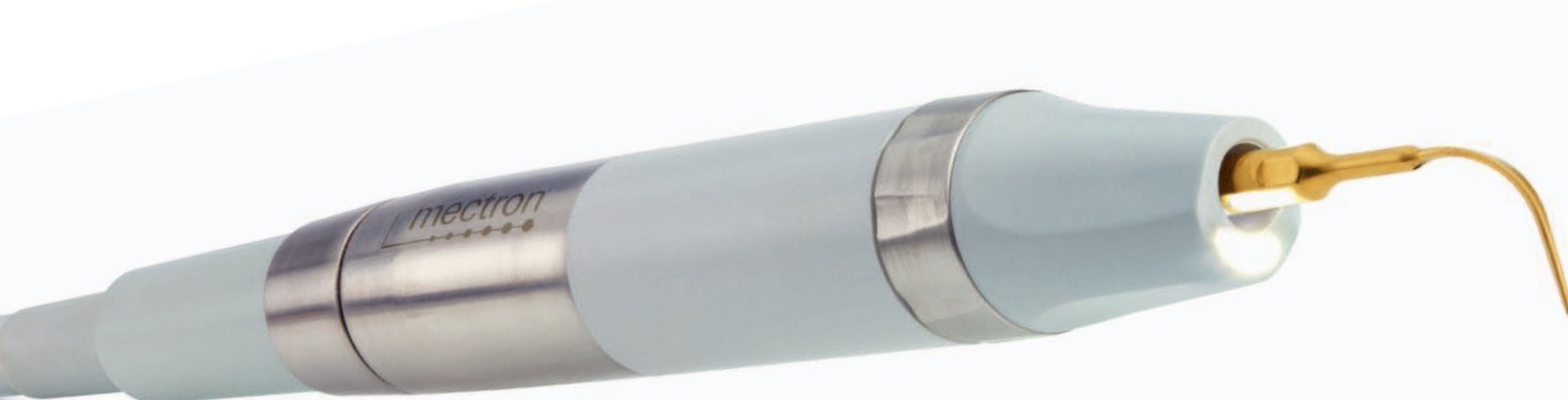
 **Patient:** 6 years, fracture of preliminary tooth, gentle and minimal invasive extraction of remaining root



→ ENDO RETREATMENT

 **Patient:** 52 years, removal of a fractured pin, preparation of a circular step around the pin and loosening of the remaining part with microvibrations





TECHNOLOGY

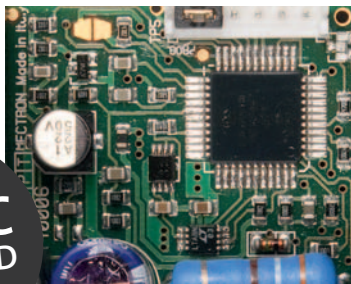
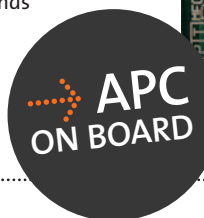
Unique power put in perfect control: multipiezo pro offers you the widest ultrasound power range in the market – and the best insert movement control at the same time.

Its Automatic Protection Control (APC) and its feedback system let you work with maximum safety, its exclusive touch screen technology gives you perfect control during every treatment. Add a revolutionary irrigation system and a newly designed LED handpiece – and here's your new every day assistant for treatments from gentle subgingival debridement to powerful restorative preparations.

HOW MULTIPIEZO PRO CONTROLS THE INSERT MOVEMENT

AUTOMATIC PROTECTION CONTROL (APC)

- recognizes deviations automatically
- stops ultrasound and flow of liquid in less than 0,1 seconds
- shows cause of the interruption on the display



FEEDBACK-SYSTEM

- constant and optimal tuning of insert movement
- automatically detects and adjusts the necessary power
- user intervention simplified to the push of the foot pedal



IRRIGATION SYSTEM

- no dripping and no leaking
- 2 times 500 ml bottle
- active bottle indicated by light
- optional connection to fixed water line



→ TOUCH SCREEN

- exclusive glass touch screen
- easy to clean
- irrigation and power rate chosen by the touch of a finger

→ POWER LEVELS

Each preselected function can be adjusted from 1-6 power levels. This way multipiezo pro allows the perfect adaption to treatment and patient needs.

→ LED HANDPIECE

- two LED handpieces with new swivel-type light focus
- light beam always on the insert tip, regardless of the curvature of the chosen insert
- handpiece holder with security switch





→ MECTRON PERIO INSERTS

PUT COMFORT INTO PRACTICE

→ PERIODONTICS

When it comes to subgingival pocket cleaning, one thing is of maximum importance: minimum pain. 100% of the concretions have to be removed, while the patient's pains have to be reduced as much as possible.

The new SOFT MODE in the multipiezo pro supersedes anaesthesia: it changes the ultrasound modulation for a perfectly gentle but still powerful insert movement – and thus allows for the first time a nearly painless but effective removal of all subgingival calculus.

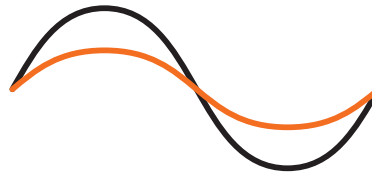
→ HOW MULTIPIEZO PRO SUPPORTS PERIO TREATMENTS



→ RINSING WITH MEDICINAL SOLUTIONS

The liquid system of multipiezo pro allows the flexible use of water and medicinal solutions (f.e. H₂O₂, chlorhexidine). The system even works with very aggressive solutions like sodiumhypochlorite for endodontic treatment (please see page 10-11). The liquid lines are cleaned by simply activating the clean function.

PERIO MODE SOFT MODE



→ SOFT MODE FOR GENTLE ULTRASOUND

Whenever needed, mectron's innovative software switches the modulation of the ultrasound into its unique SOFT MODE and thus creates a gentle but still powerful insert movement. The result: treatment efforts are met perfectly – sensitive patients treated with maximum comfort.





→ IMPLANT CLEANING

mectron's tipholder ICS and the IC1 tip for implant cleaning allow optimal access and gentle plaque removal even in the posterior region. They are both sterilisable and reusable.



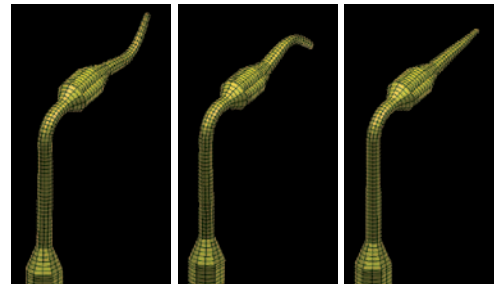
By courtesy of Dr. Anna Maria Genovesi

→ MECTRON TIPHOLDER ICS WITH TIP IC1



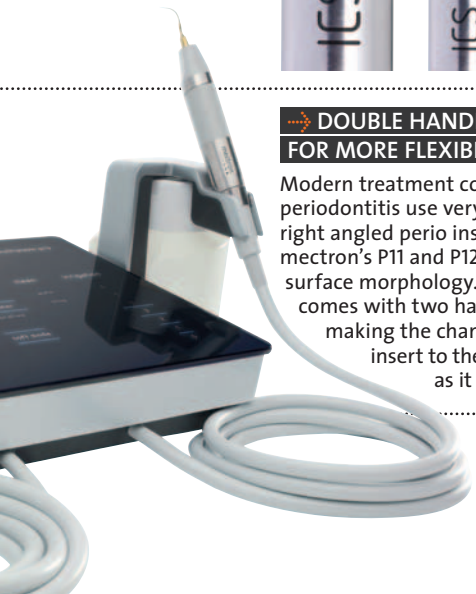
→ DOUBLE HANDPIECES FOR MORE FLEXIBILITY

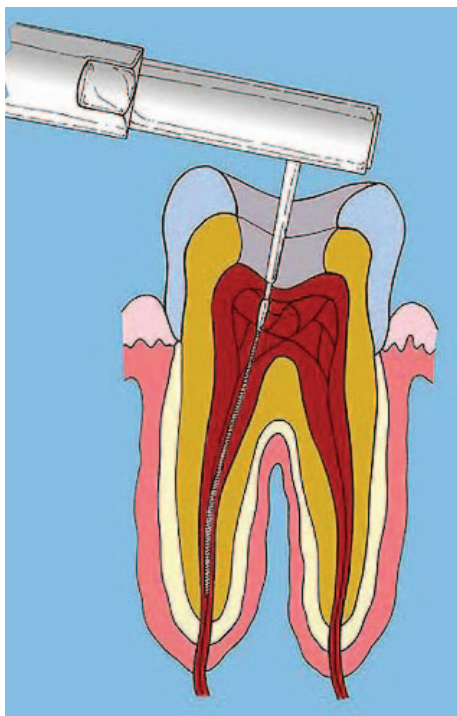
Modern treatment concepts for periodontitis use very thin left and right angled perio inserts like mectron's P11 and P12 due to the root surface morphology. multipiezo pro comes with two handpieces – making the change from one insert to the other as easy as it gets.



→ CONTROLLED VIBRATIONS

The development of new inserts with the finite elements simulation software, allows to define a mechanical vibration pattern of the insert, in such way, that performance and stress resistance are optimized.



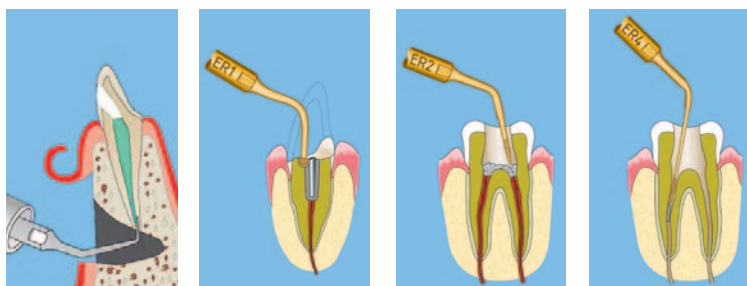


PUT FLEXIBILITY INTO PRACTICE

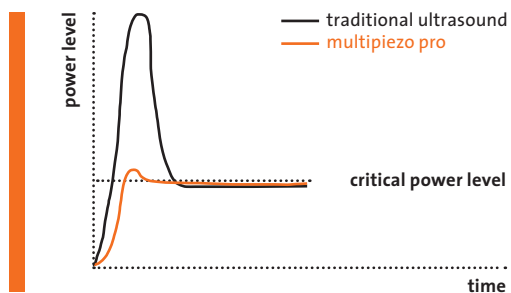
ENDODONTICS

One unit, three indications: while in endodontics today a large number of instruments and units is required to meet the different problems you have to deal with, the new multipiezo pro reduces the count to 1.

Its large range of endo inserts makes it a flexible problem solver for nearly all endodontic treatments – and its unique electronics with built-in insert protection a perfectly controllable and secure assistant for your daily practice.



HOW MULTIPIEZO PRO SUPPORTS ENDO TREATMENTS



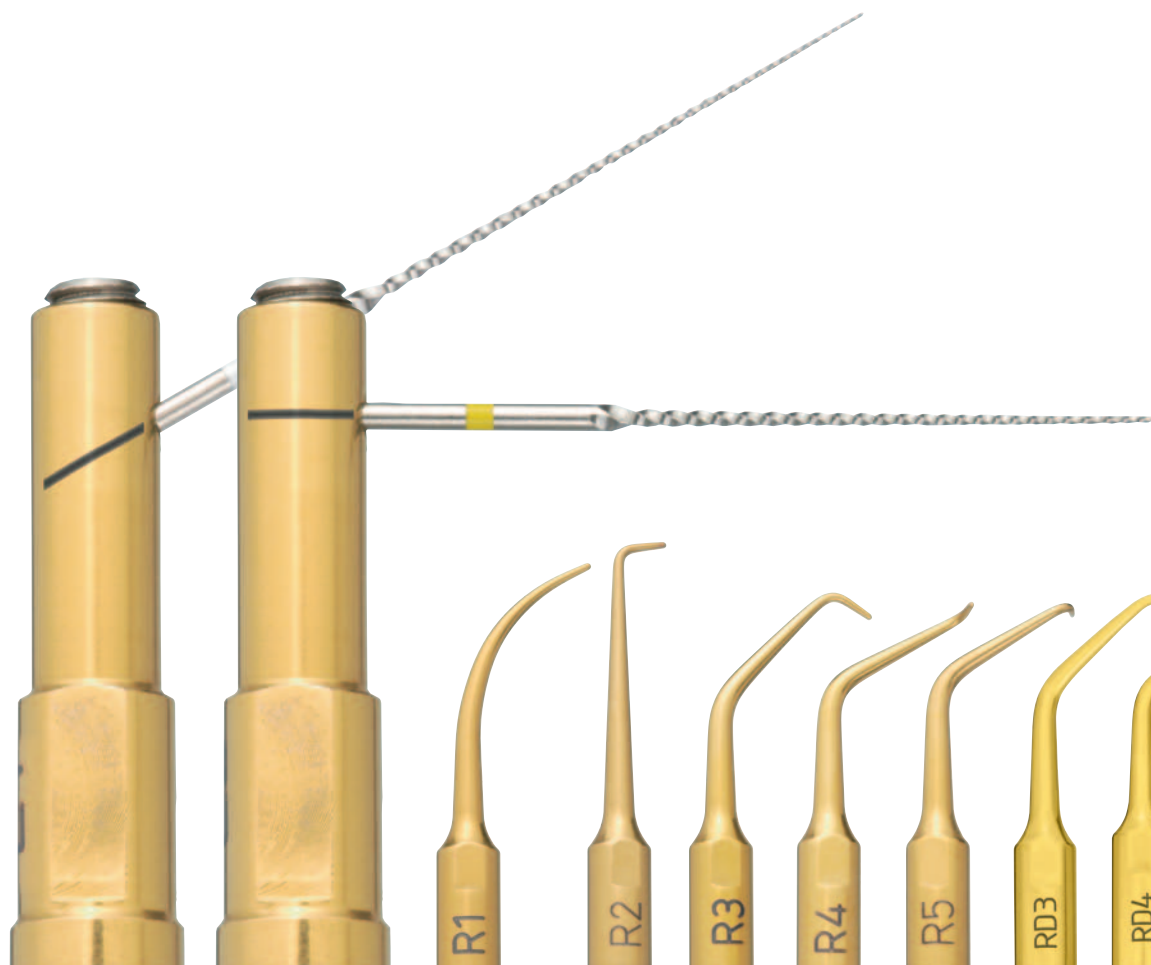
INSERT PROTECTION INCLUDED

multipiezo pro's electronics limit the switch-on peak, when the footpedal is activated, to a non critical level. Traditional ultrasound units does not adjust to a non-critical level, the initial power exceeds the critical power level for a split second – maximum stress for the inserts.

PERFECT VISIBILITY OF THE TREATMENT AREA

multipiezo pro with its slim handpiece and small inserts is the perfect tool for a perfect view with the todays use of microscope.





→ MECTRON ENDO INSERTS



→ MECTRON ENDO RETRO INSERTS

→ MECTRON ENDO REVISION INSERTS



clean
auto
stop

→ EASY CHANGE OF RINSING LIQUID

Certain treatment procedures require the use of different rinsing liquids – e.g. in root channel cleaning the use of sodiumhypochlorite as a disinfectant and the use of EDTA in order to remove the smear layer. To avoid chemical reactions and residuals of liquids in the tubings, multipiezo pro is equipped with a CLEAN FUNCTION which rinses out all residuals automatically.



→ EASY CLEANING

multipiezo pro's exclusive glass display and its clear form are the perfect ingredients for an extraordinarily easy hygiene handling.

PUT SAFETY INTO PRACTICE

→ PEDIATRIC EXTRACTIONS

Whether it is due to infections, orthodontic corrections or in order to make way for a permanent tooth in a child's jaw bone: sometimes extractions cannot be avoided. In these cases, maximum safety is the most important thing during treatment.

The specially shaped ME inserts of the new multipiezo pro – with a blade thickness of only 0,35 mm – perfectly fulfill the anatomical demands of these operations. They offer maximum intra-operative sensitivity, allowing you to remove the tooth while preserving healthy bone – and without damaging the alveolar walls and periodontium surfaces. Furthermore, the physiological solution guarantees maximum visibility and enhances the healing process.



→ HOW MULTIPIEZO PRO SUPPORTS EXTRACTIONS

RESTORATIVE MODE



PULSE MODE

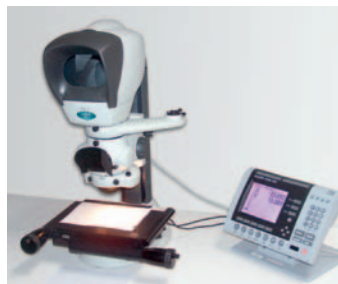
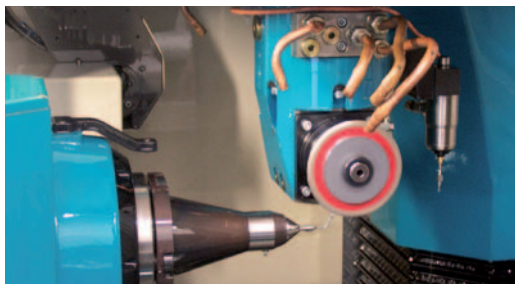


→ PULSE MODE FOR SPECIAL TREATMENT POWER

The PULSE MODE transforms the traditional sine wave formed ultrasound oscillation (standard function) to a new profile (level 6 of the restorative function), characterized by specific power peaks, which results in an optimized performance of the multipiezo pro for extractions and prosthetics.



→ MECTRON PEDIATRIC EXTRACTION INSERTS



→ INNOVATIVE HIGH QUALITY INSERTS

mectron offers a wide range of ultrasonic inserts, the ME extraction inserts being our newest innovation. But no matter how good an idea is – in daily use it is its realization that counts. mectron's ultrasonic inserts for example oscillate up to 36.000 times per second – an enormous endurance test for the material. Therefore only medical grade stainless steel is employed in the production of mectron inserts – and each one of it has to pass 12 working steps before it is ready to bear our name.

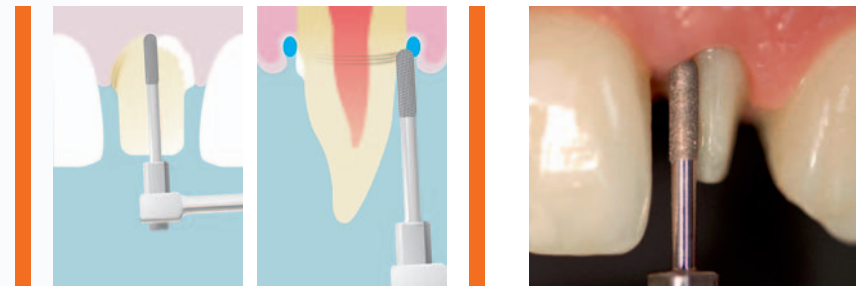


PUT CONTROL INTO PRACTICE RESTORATIONS

Burrs follow the way of minimal resistance – we do not: ultrasonic oscillating inserts by mectron will not attack soft tissue, giving you 100% control for esthetical preparations with perfect subgingival margins.

Thanks to the thin and angulated tips, the risk of hitting the adjacent tooth is reduced to a minimum. The result: maximum visibility and accessibility during your surgery – and minimum pain for your patients.

→ MECTRON TIPHOLDER DB1 WITH A CROWN PREP TIP



→ HOW MULTIPIEZO PRO SUPPORTS RESTORATIONS



→ OPTIONAL TAP WATER CONNECTION

For common supragingival scaling and restorative treatments water is a perfectly sufficient coolant. The multipiezo pro comes with a connection to the tap water line – and as you can use medicinal solutions with the second bottle, all flexibility remains.



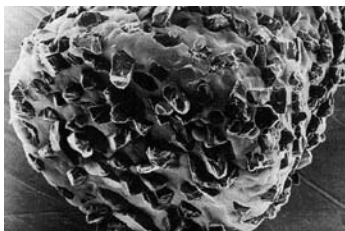
→ EASIER PREPARATION AND IMPRESSION

Optimal shaping of the preparation is facilitated by these inserts and even if they get in contact with the soft tissue there will be nearly no bleeding – which guarantees a perfect immediate impression. Another benefit: Up to 80% of your patients do not require anaesthesia during ultrasound cavity preparation.

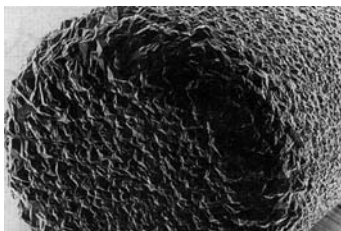


- INDICATIONS OF RESTORATIVE FUNCTION
- Preparation of pits and fissures with incipient lesions and in more developed lesions
- Removal of excess restoration materials in inter-papilla, supra- and subgingival
- Removal of old restorations
- Extensive preparations
- Removal of carious tissues
- Finishing of prosthetic preparations
- Occlusal cavities
- Veneers
- Margin repositioning to subgingival level

→ MECTRON CAVITY PREP INSERTS



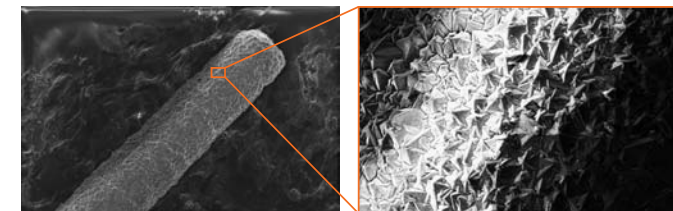
→ conventional insert – aggregated diamond powder in its metallic matrix



→ CP insert – homogeneous stone of diamond

→ REVOLUTIONARY, ARTIFICIAL DIAMONDS

mectron Cavity Prep inserts are 10 times as durable as traditional diamond coated ultrasound inserts. The innovative chemical vapor deposition technology is a new manufacturing procedure which allows the carbon molecules to grow directly on the insert steel surface, the continuous diamond surface and its high adherence to the metallic rod being the key difference. The result: the inserts are ready for extensive use and come with maximum durability.



→ The new CP inserts consist of a continuous film of diamond without a metallic binder between crystals, preventing the contamination of the tooth by metal ions usually present in the binder matrix of conventional burs.

PUT MECTRON INTO PRACTICE

PRODUCT RANGE

Control. Precision. Comfort. Safety. Flexibility. Qualities that characterize the new multipiezo pro – and every single one of our other products for nearly all dental demands.

From air-polishing to LED-polymerization and not least our ground-breaking bone-surgery device PIEZOSURGERY® *touch*: go for quality – and put mectron into practice.



→ LED-POLYMERIZATION LIGHTS



→ PROPHYLAXIS POWDERS





→ AIRPOLISHING

→ PIEZOSURGERY® touch

→ ENZYMEC

- enzymatic solution for the efficient removal of organic residue
- fits the „clean“ function of all PIEZOSURGERY® devices perfectly



READY FOR EVERYTHING.
WE EVEN USE IT TO TURN THE
DENTAL WORLD UPSIDE DOWN.
MECTRON MULTIPIEZO PRO.

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medical technology

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