

mectron

NEW!
PERIO
FUNCTION

MECTRON AIR-POLISHING



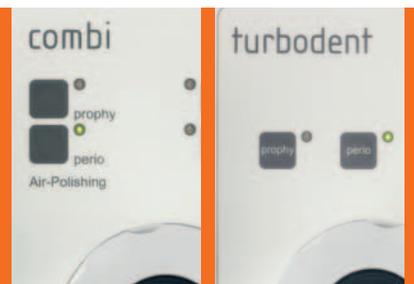


COMBI

The new multi-talented prophylaxis unit offers several treatment options. The powerful, well controlled ultrasound allows gentle scaling. Over 40 different inserts allow for a wide range of applications. The reliable air-polishing technique provides for both supragingival tooth cleaning and subgingival removal of biofilms. A simple press of a button is all that's needed to switch easily from supragingival to subgingival treatment.

PERIO FUNCTION

The combi and turbodent are both equipped with the new perio function. Simply pressing a button adapts the air pressure to provide for safe subgingival treatment with glycine powder.



→ MECTRON AIR-POLISHING

for bright shiny teeth – supragingival and subgingival

→ In prophylaxis treatment the requirements are patient driven. From normal tooth cleaning to peri-implantitis – the new combi meets all requirements – ranging from supragingival and subgingival piezo ultrasound scaling to tooth cleaning with sodium bicarbonate and glycine. If only supragingival and subgingival air-polishing is needed the new turbodent stand-alone air-polisher is the right choice.



→ TURBODENT

The turbodent is a stand-alone unit focused specifically on air-polishing. As the underlying technique is identical with the combi unit, the turbodent can also be switched easily from supragingival to subgingival treatments.



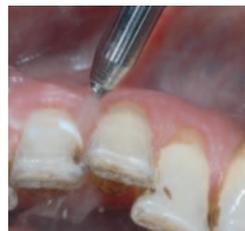
→ AIR-POLISHING TECHNIQUE

evidence-based, gentle removal of plaque, staining and biofilm from teeth

→ Particles of powder at a high rate of acceleration combined with water provide for an extremely fine, regular and precise jet. The jet eliminates discolorations more effectively, gently and faster than when using curets, rubber heads and polishing paste, even in the interdental and subgingival spaces.



→ before mectron air-polishing treatment



→ during mectron air-polishing treatment



→ after mectron air-polishing treatment

→ SCIENTIFIC STATEMENT

- „The instrument’s [air-polishing devices] efficiency and effectiveness in stain removal has been demonstrated with minimal impact on soft tissue trauma and abrasion.“ *Lavigne et al, Air-polishing instruments. Review of literature, J Parodontol. 1989 Nov;8(4):383-93.*
- „The novel low abrasive air-polishing powder is superior to curets in removing subgingival plaque at interdental sites with up to 5 mm probing depth in periodontal maintenance therapy.“ *Petersilka et al. Subgingival plaque removal at interdental sites using a low abrasive air-polishing powder. J Periodontol 2003;74:307-311.*
- „Glycine powder air-polishing (GPAP) results in less gingival erosion than sodium bicarbonate air-polishing (SBAP) or hand instrumentation.“ *Petersilka et al., Effect of glycine powder air-polishing on the gingiva. J Clin Periodontol 2008; 35: 324–332.*

A QUESTION OF CHOICE

the right powder for the intended use

→ Traditionally sodium bicarbonate powders are used for air-polishing procedures. Used in a proper and not excessively intense manner, the risk of harm to the enamel is minimal. For additional applications more gentle powders have been developed during the last years. Especially glycine, a natural amino acid, opened new indications for air-polishers, the most important being subgingival removal of biofilm.

→ INDICATIONS	→ SODIUM BICARBONATE	→ GLYCINE POWDER
removal of plaque	😊	😊
removal of stain	😊	😐
use on enamel	😊	😊
use on restoration materials	😞	😊
use on dentine	😞	😊
use on root surfaces	😞	😊
subgingival use	😞	😊
cleaning of fissures	😊	😐
cleaning of cavity margins before etching	😊	😊
cleaning of implant surfaces	😞	😊

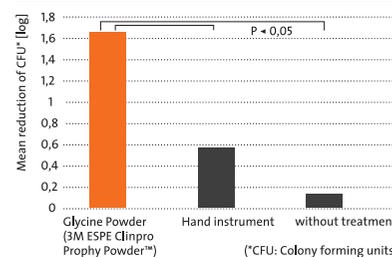
→ SODIUM BICARBONATE

- particle size: < 150 µm
- mectron prophylaxis powder, particles are specially treated to be hydrophobic for a certain time, before being resorbed
- mectron prophylaxis powder has a sweet lemon flavor

→ GLYCINE POWDER

Glycine powders have much smaller particles (< 63 µm) than sodium carbonate powders and are water soluble. They have a sweet taste.

→ REDUCTION OF BACTERIA*



→ REDUCTION OF POCKET DEPTH

The use of a glycine powder leads to a reduction in pocket depth comparable with conventional scaling and root planing*. The benefit is easier handling, faster treatment and better patient acceptance. Patients report less pain and a more pleasant taste with glycine powders.

* Petersilka G., Tunkel J., Barakos K., Heinecke A., Häberlein I., Flemmig T.F.: Subgingival plaque removal at interdental sites using a low abrasive air-polishing powder, Journal of Periodontology, 2003, Volume 74, Number 3



NEW!
 → PERIO
 FUNCTION



→ POWDER CHAMBER

- compressed air only when the footswitch is pressed
- it can be filled without disconnecting the device



→ HANDPIECE HOLDER

- when the handpiece is housed in the holder the complete tubing will be cleaned
- a safety switch prevents activation of the powder jet

→ ERGONOMICS

- continuous air flow in stand-by prevents clogging
- button to activate the automatic clean function
- controlled heated water
- powder circuit without intermediate couplings for better long-term reliability

→ FEEDBACK SYSTEM

- monitors performance of the ultrasound and adjusts it when needed, within only a few hundredths of a second, to the appropriate power level for the current indication.

→ APC ON BOARD

- APC = Automatic Protection Control
- recognizes deviations from regular functioning and stops ultrasound and liquid within less than 0,1 seconds

COMBI

the reliable and complete prophylaxis unit

→ The mectron combi allows complete prophylaxis treatment to be carried out. Removal of supragingival and subgingival calculus with powerful ultrasound inserts and gentle removal of stain and biofilm by air-polishing. The new perio function was developed specifically for use with glycine powder.



→ HANDPIECES

- stainless steel, titanium and Radel® high-tech material
- air-polishing nozzle
 - rotatable through 360°
 - fully sterilizable
 - only a click needed to connect
- ultrasound handpiece
 - universal use with all mectron ultrasound inserts
 - fully sterilizable

→ PIEZO ULTRASOUND

The ultrasound of combi unit operates according to the piezoelectric principle. The inserts apply planar backwards and forwards vibrations, shifting the tartar gently sideways. The patient does not feel any unpleasant hammering movements on the surface of the tooth, and the dentist can work more easily and in greater comfort.



→ before mectron ultrasound treatment



→ during mectron ultrasound treatment



→ after mectron ultrasound treatment



NEW!
→ PERIO
FUNCTION



→ POWDER CHAMBER CAP

- the transparent dome allows easy checking of the remaining powder quantity
- ergonomic twist grip can be wound on easily
- easy cleaning of the large thread

→ FLEXIBILITY

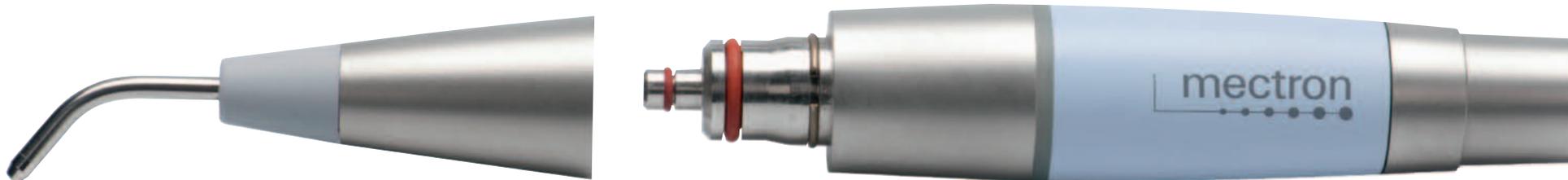
The combi and turbodent are designed to perform the whole range of air-polishing treatments. Pressing the perio button adapts the air pressure for gentle use of glycine powders. No special nozzle or handpiece is needed.



TURBODENT

the stand-alone solution for power users

→ If only air-polishing is required, the new turbodent is the right unit. The turbodent also features the new perio function. The equipment and technique underlying this air-polisher are identical to those of the new combi.



→ SPRAY NOZZLE

- 120° angle
- just a click to connect
- 360° rotating head
- powder and water travel separately until they reach the nozzle
- the water surrounds the jet of powder and air to prevent powder dust
- fully sterilizable



→ SILICONE PROTECTOR

- protects teeth
- prevents any pollutant entry
- detachable
- fully sterilizable



→ CONNECTIONS

- built-in pressure controller enables input pressure between 1 and 6 bars
- condensate separator ensures dry air
- water filter prevents the passage of suspended particles
- water filter is easy to clean without needing any tools



ACCESSORIES

for daily use

→ The universal cart – maximum mobility for all your table-top devices. All supply lines are hidden in the easily accessible cable compartment. The power supply (and water & air connections – where available) is at the same level as the tray, for easy connection to your devices. The drawer ensures a maximum of organization.



→ MECTRON PROPHYLAXIS POWDER

mectron prophylaxis powder is supplied in convenient plastic bottles. Each bottle contains 250 grams of powder and includes a dosage measuring cap. The package includes two bottles of mectron prophylaxis powder. The taste is originated by a lemon flavor mixed with sweet saccharin. Its optimized flowing and hydrophobic properties avoid clogging and allow a more regular powder jet with amazing treatment results.

→ DIMENSIONS

→ Size	(W x L x H in mm)
■ Total	420 x 420 x 875
■ Upper tray	420 x 310 (795 mm above floor level)
■ Middle tray	420 x 310 (435 mm above floor level)
■ Lower tray	420 x 310 (85 mm above floor level)
■ Weight	22.5 kg



TECHNICAL SPECIFICATIONS



→ COMBI

→ Size	280 x 185 x 100 mm
→ Weight	3.2 kg
→ Water input	1 - 6 bars
→ Compressed air input	4 - 8 bars
→ Operating pressure	3.5 bars
→ Ultrasound frequencies	24.000 - 36.000 Hz
→ Connections	power, water, compressed air
→ Warranty	2 years

→ TURBODENT

→ Size	280 x 185 x 100 mm
→ Weight	2.8 kg
→ Water input	1 - 6 bars
→ Compressed air input	4 - 8 bars
→ Operating pressure	3.5 bars
→ Connections	power, water, compressed air
→ Warranty	2 years

MECTRON COMBI & TURBODENT. FOR SUPRA- AND SUBGINGIVAL AIR-POLISHING.

www.mectron.com or mectron@mectron.com

mectron s.p.a., via Loreto 15/A, 16042 Carasco (Ge), ITALIA, tel +39 0185 35361, fax +39 0185 351374



mectron

medical technology

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