

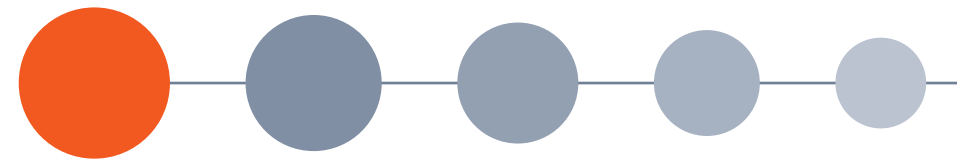
mectron

medical technology

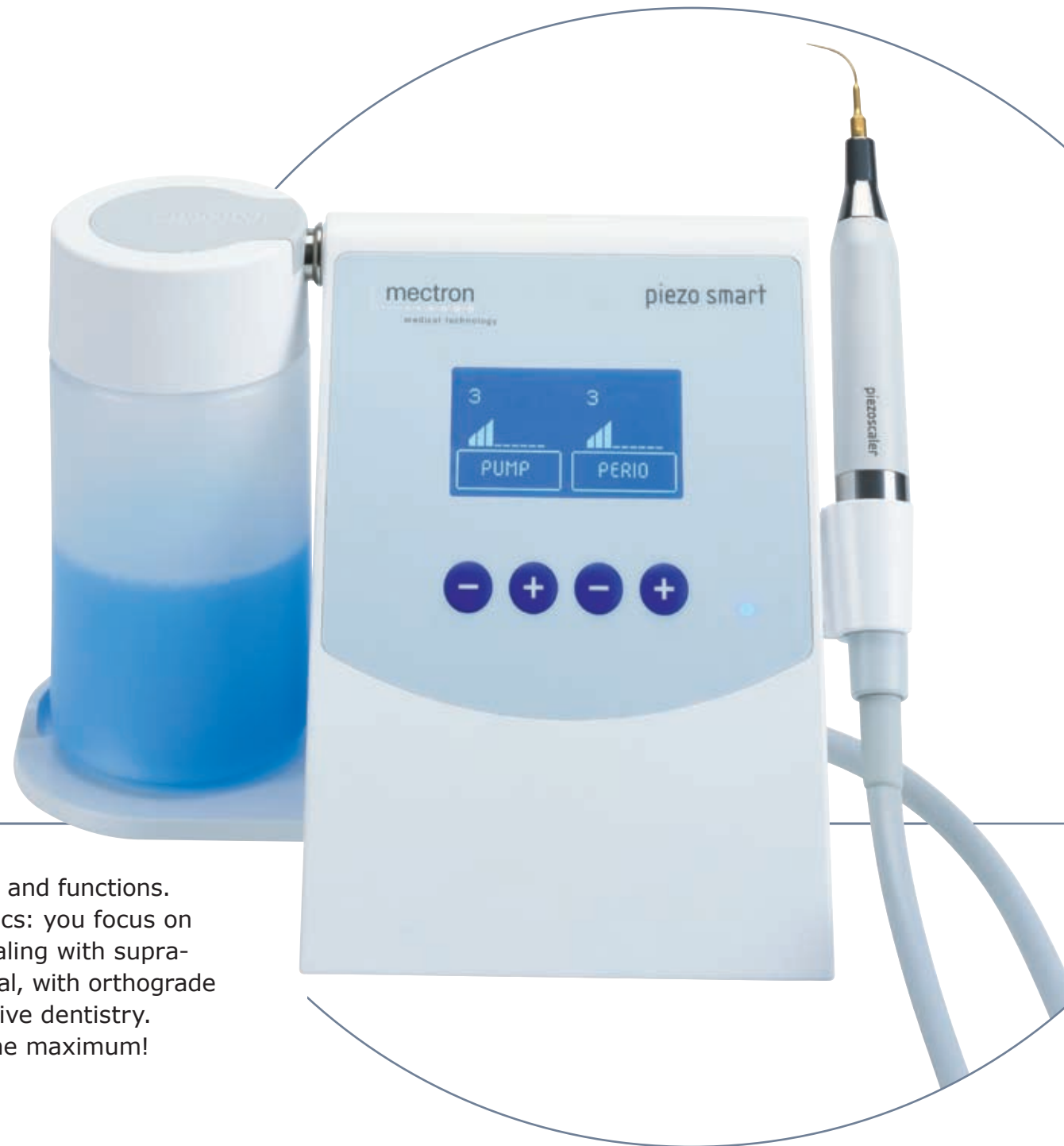
piezo smart  
the ultrasound device



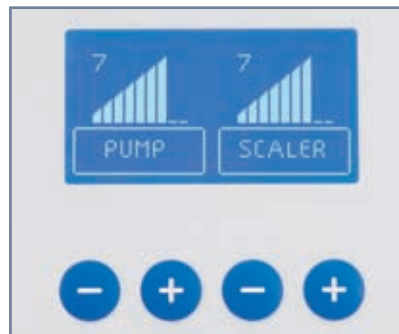
# piezo smart



small but great!

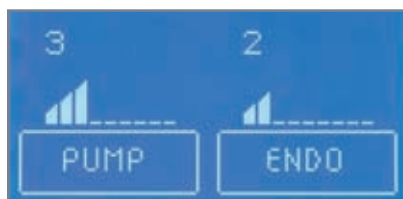


The **piezo smart** is convincing in both appearance and functions. Small dimensions combined with great ergonomics: you focus on nothing else but treatment. Whether you are dealing with supra-gingival scaling or subgingival concretment removal, with orthograde or retrograde endodontics, or even with restorative dentistry. We've made the **piezo smart** small to give you the maximum!



## Controls

- foil-covered push-buttons
- activated by + and - buttons
- visible on the display



## Endo power level 1-2

- increases the ultrasound power slowly
- prevents fracturing of the endo files



## Perio power level 3-5

- medium ultrasound power for gentle removal of subgingival concrement and biofilm



## Scaler power level 6-9

- maximum power for rapid and thorough tartar removal



## Piezo handpiece

- made of titanium and radel (a hi-tech plastic material)
- resistant to medicinal solutions
- sterilisable at 134°C
- universal, for use with all mectron ultrasound inserts



## Handpiece coupling

- perfect fit
- top-quality plug-in contacts
- error-protection to prevent incorrect connection

The piezo ultrasound technology of the **piezo smart** makes it so simple to operate.

The settings are made with only four push-buttons. The titanium ultrasound handpiece – a mectron invention, by the way – guarantees absolute safety and fits comfortably in the hand.

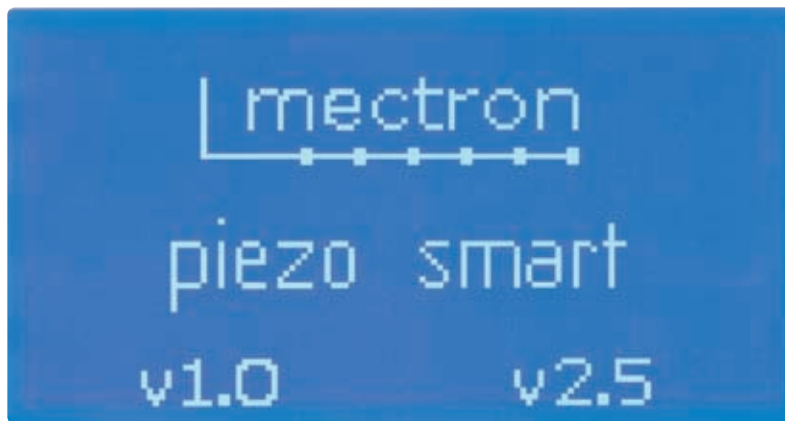


# ultrasounds

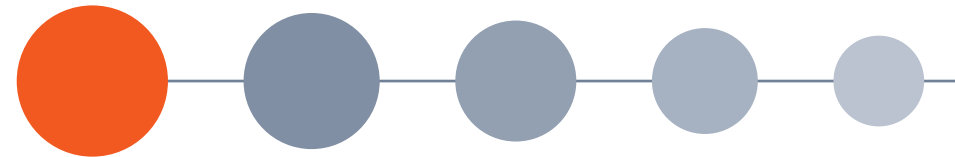


simply logical

# the electronics

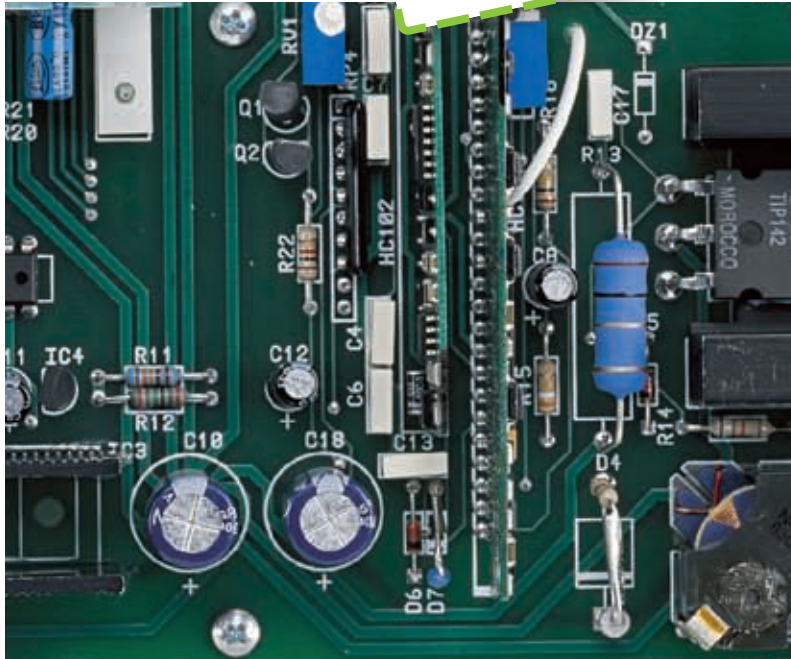


The electronics of the **piezo smart** are based on the latest digital chip technology, making the **piezo smart** a precision ultrasound device able to recognise external influences and offset them automatically. The built-in Feedback-System and Automatic Protection Control (APC) mean noticeably better performance than the ultrasound systems available until now.



digital control and powerful performance

**APC**  
on board



## Automatic Protection Control

The APC ensures maximum safety. It recognises deviations from the normal functioning of the **piezo smart** automatically and stops both the ultrasound and the flow of liquid within less than 0,1 seconds. The cause of the interruption – for example wear or improper fitting of an insert – will be shown on the display as an error code.

## Feedback-System

The built-in Feedback-System monitors performance and adjusts it when needed within only a few hundredths of a second. This means that, whatever the field of use, you can always depend on constant optimum performance for the current indication. A definite advantage in terms of efficiency and comfort of treatment.



## Stand-by function

- just press the button and the **piezo smart** is ready to start
- switches automatically to stand-by after 5 minutes inactivity
- by pressing any push-button it restarts from the last setting used





### Bottle

- 2 refillable, unbreakable bottles made of plastic material, complete with coloured screw-on lids (blue/grey)
- capacity of 300 ml
- scale
- resistant to medicinal solutions
- no dripping and no leaking
- 2 security screw-on lids of different colours for easy identification of the flushing liquid



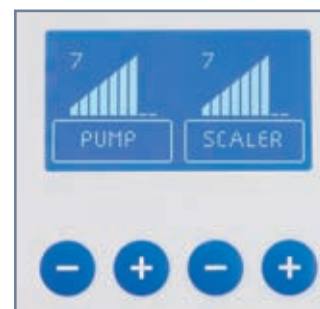
### Bottle holder

- simply put the bottle into place and twist it downwards
- the bottle remains in an upright position
- new non-drip connection



### Liquid delivery

- in 9 steps adjustable by means of foil-covered + and - keys
- possible to switch it off
- the selected quantity is shown on the display



### Clean Function

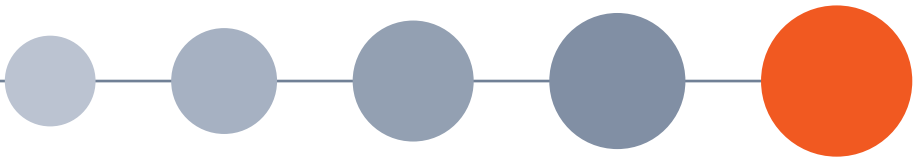
- fully automatic cleaning of the liquid circuit
- selection by pressing keys
- progress of the programme shown on the display



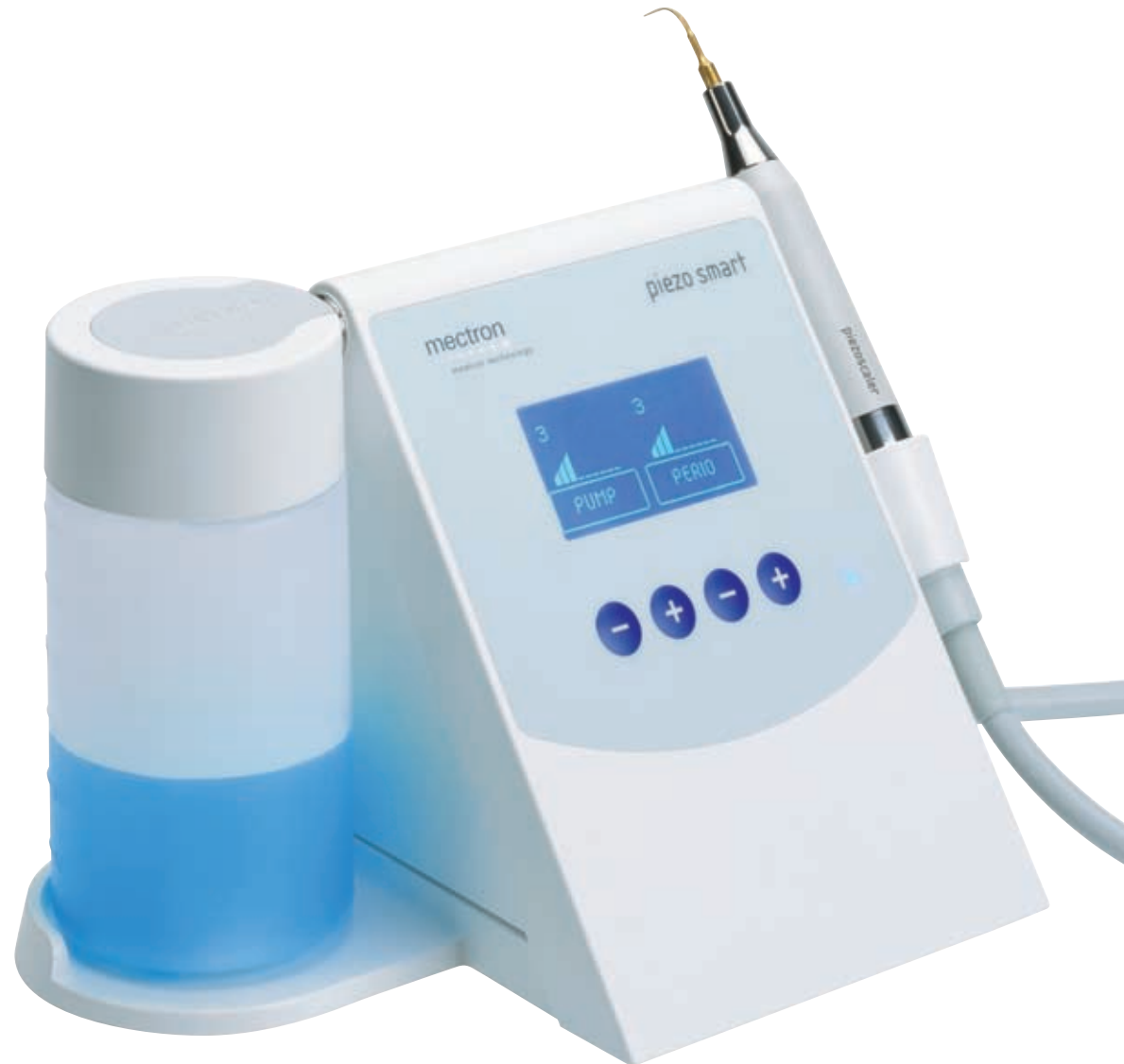


# the liquid

Simple, safe and reliable – that's the new bottle system of the **piezo smart**. No dripping and no leaking. Just put the bottle in place and off you go. And you have a full choice of the flushing liquid you want to use, from water to physiological saline solution right through to medicinal solutions.



flexible choice

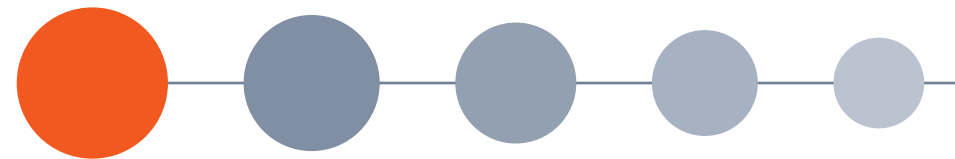


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piezo smart – smart to handle  
and smart technology. Ergonomics  
is the piezo smart's trump card  
– it has everything you could  
demand of a modern treatment-  
oriented ultrasound device yet  
remains extremely simple to use.

# the technology



modern and reliable



### Display

- very easy to read
- facing the user
- keeps the user constantly informed of the current settings



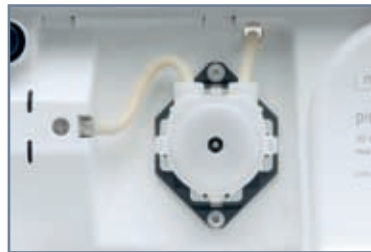
### Foil-covered push-buttons

- simple to use at the press of a button
- hygienic
- easy to clean



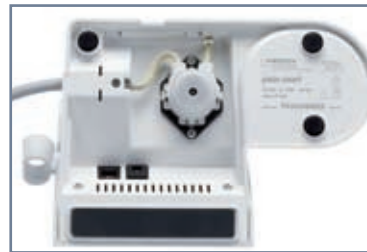
### Liquid circuit

- completely separate from the electric components
- accessible from outside without opening the device



### Peristaltic pump

- freely accessible
- easy to replace



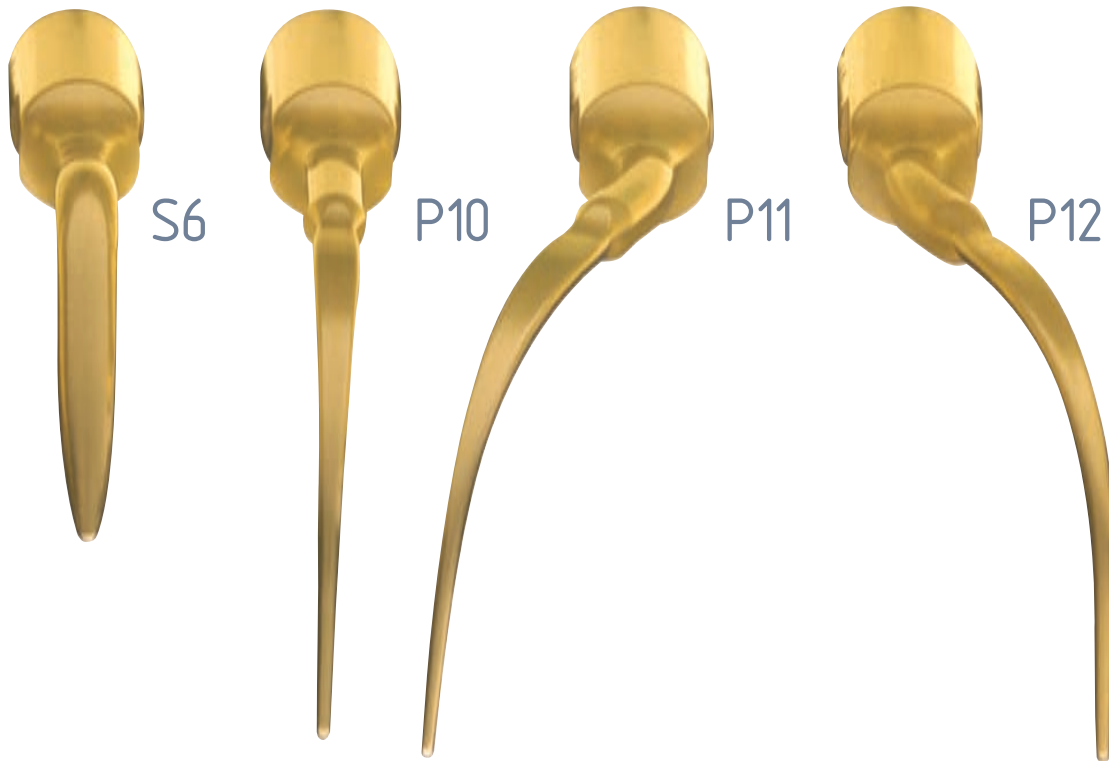
### Stability

- rubber feet for a firm grip



### Connections

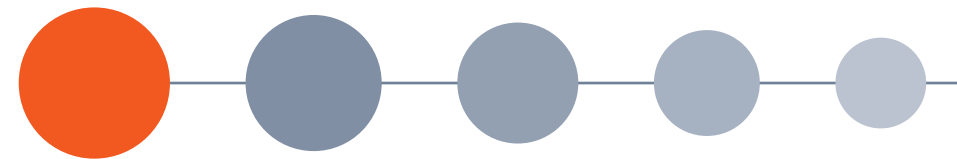
- under the housing
- protected against spray disinfectants



Scaling, perio, endo, restorative dentistry – the **piezo smart** can be used for an extraordinary variety of applications. A total of 37 different inserts are available for the various different fields of use. The nitro-titanium surface finish of the inserts makes them tougher than the conventional ones.

The insert sets are supplied in separate steritrays in which they can be both stored and sterilised. The basic supply includes the S6, P10, P11 and P12, as well as the torque wrench for tightening the inserts to the handpiece with exactly the right force.

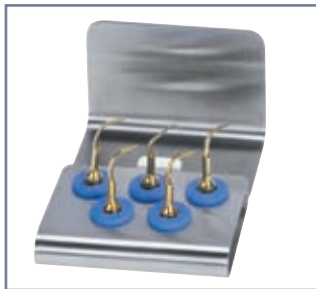
# the inserts



a specific insert kit for each indication

### kit scaling

inserts for supra-gingival  
tartar removal



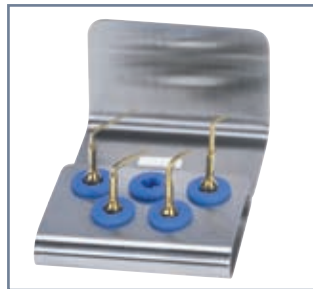
### kit high efficiency

high-performance  
inserts for supragingival  
tartar removal



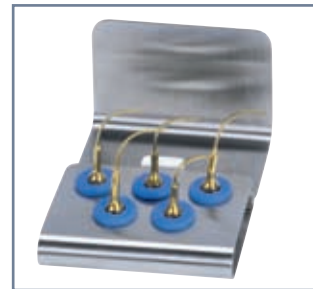
### kit perio universal

inserts for subgingival  
concrement removal



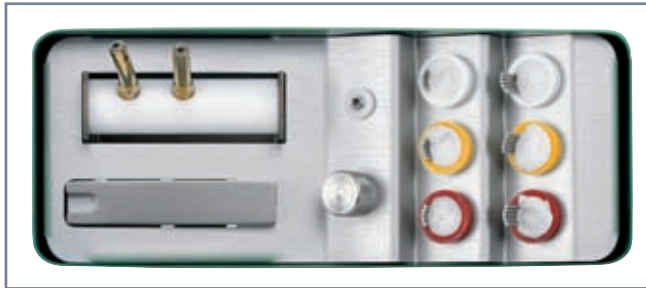
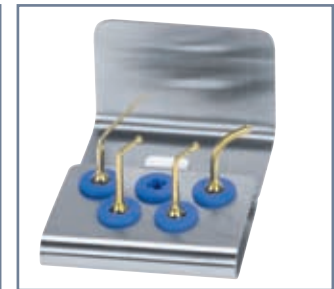
### kit perio anatomic

anatomically shaped  
inserts for subgingival  
concrement removal



### kit restorative

inserts for restorative  
dentistry and for  
filling root canals

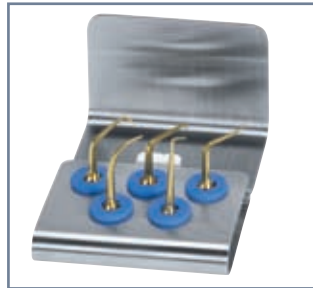


### kit endo

extra-flexible nickel-titanium  
files for root-canal cleaning

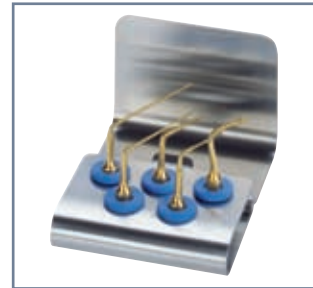
### kit endo retro

inserts for retrograde  
root-canal preparation



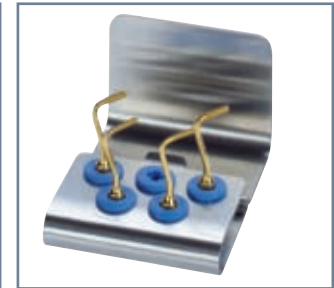
### kit endo revision

inserts for removing  
root posts, calcifications  
and fractured inserts



### kit cavity margin

diamond-coated  
inserts for preparing  
crown margins



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Just a „click“ – and the **piezo smart** combined with the **starlight p<sup>m</sup>** becomes a LED curing lamp. Connect the **starlight p<sup>m</sup>** to the ultrasound handpiece cord, and simply press the footswitch to start curing. The **starlight p<sup>m</sup>** will cure a 2-mm layer in 10 seconds and its weight of only 75 g makes it ultra-light.

# the LED curing lamp

multifunctional with the starlight p<sup>m</sup>

# technical specifications

Size (LxWxH)	228 x 146 x 146 mm (without handpiece)
Weight	0,92 kg
Power consumption	40 W
Ultrasound frequency range	24,000 - 29,500 hz
Ultrasound output	9 settings
Water supply	from bottle
Quantity of water	scale of 10 settings
Flow rate per minute	17 to 65 ml
Connections	to power supply
Warranty	2 years







# piezo smart

## the ultrasound device

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