

LM

feel the
difference

Tip Book




Multi-purpose ultrasonics

Ultrasonics is an excellent tool for much more than just scaling. Our new wide tip range offers solutions for periodontics, endodontics, apical surgery including sterile tips, implantology and restorative treatments. The choice is yours!

Tip range overview pages 2–3

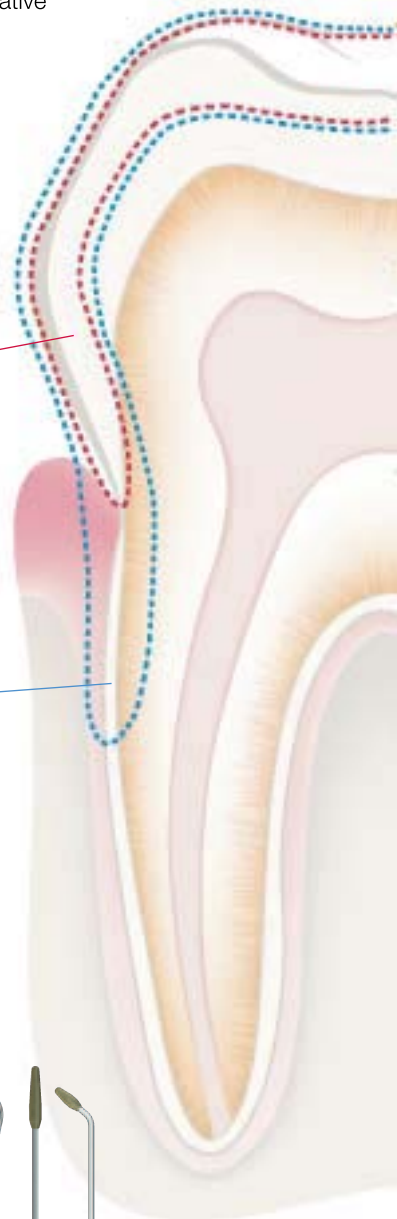
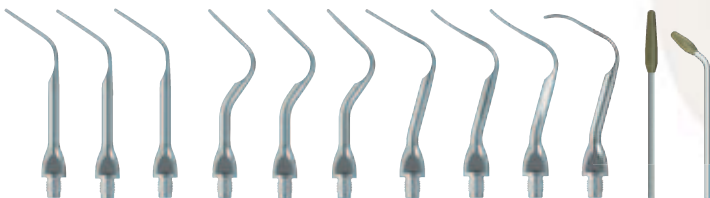
Handpieces page 4

Tip design & wrenches page 5

 Minimally invasive excavation
pages 18–21

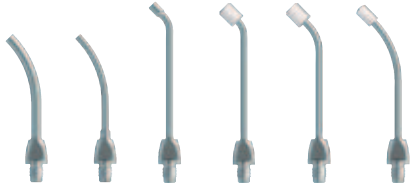


 Scaling
pages 6–17

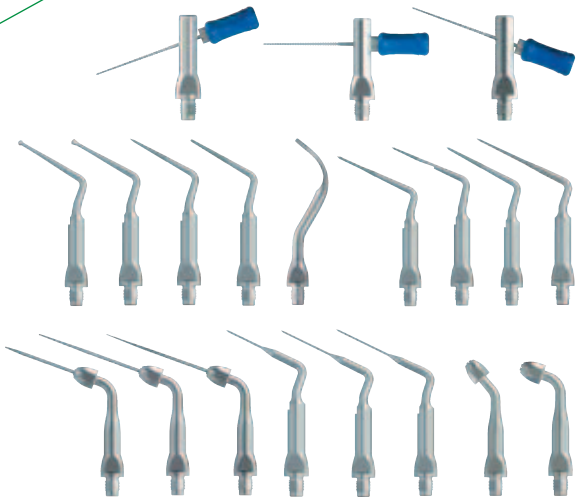




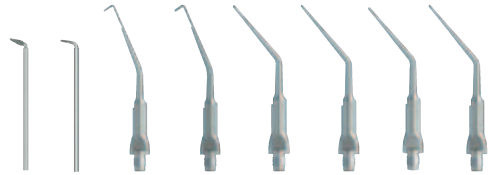
Special purpose
pages 38–41



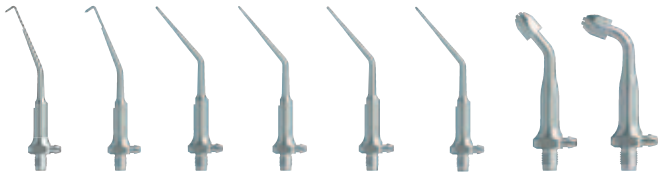
Endodontics
pages 22–31



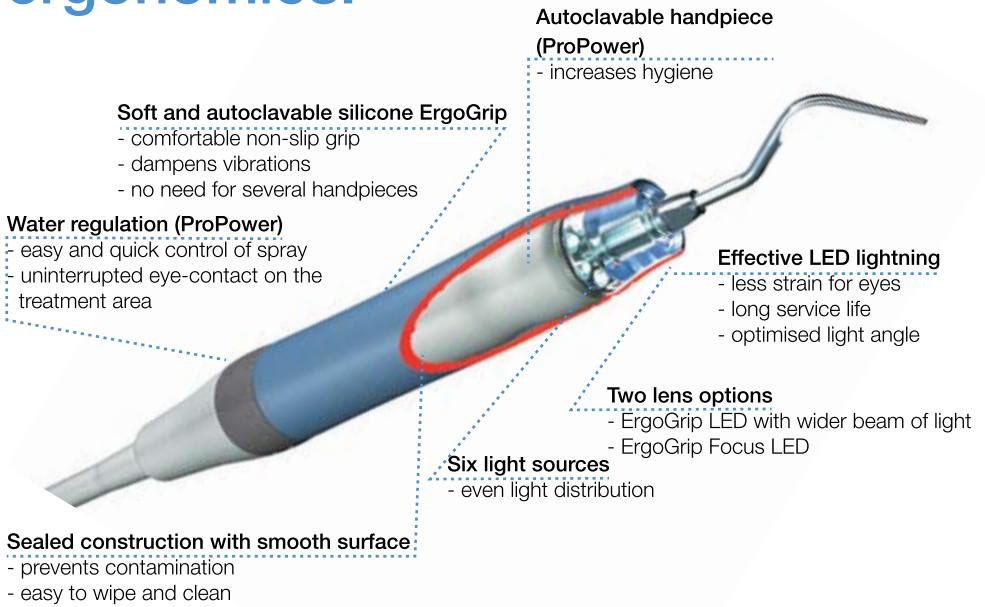
Apical surgery
pages 32–37



Sterile tips 42–46



Handpieces with excellent ergonomics!



Tips are available for connection to three different handpieces. All handpieces are used with detachable and autoclavable silicone ErgoGrips for economic operation and excellent ergonomics.

With LED

LM-ProPower HP LED



LM-PowerHand HP LED



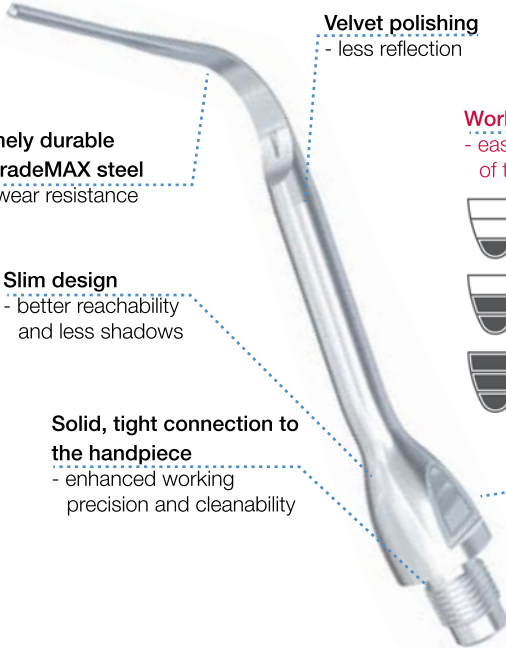
Without LED

LM-PowerHand HP



Wide tip range – highest quality for all your needs

69 different tips – solutions for periodontics, endodontics, apical surgery, restorative and sterile treatments.



Velvet polishing
- less reflection

Extremely durable DuraGradeMAX steel
- high wear resistance

Slim design
- better reachability and less shadows

Solid, tight connection to the handpiece
- enhanced working precision and cleanability

Working mode coding
- easy and safe setting of tip power

- Max 40 %
Endo function: max 60 %
- Max 70 %
- Max 100 %

Compatible with all LM and Amdent ultrasonic table top and built-in devices.

Wrench selection



Universal tip wrench



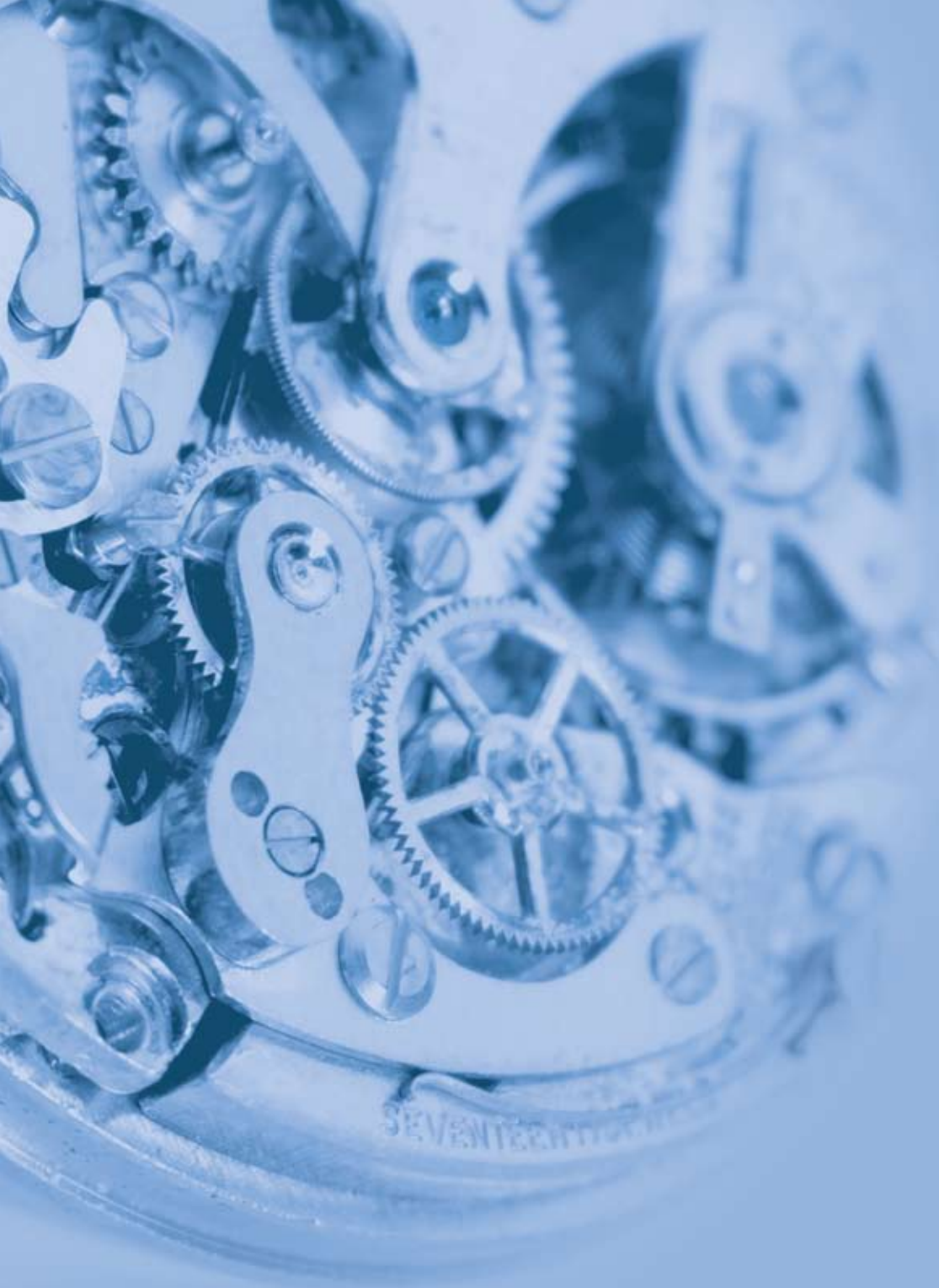
Torque tip wrenches with hexagonal and slim design



Wrench for file holders



Universal plastic tip wrench



Scaling



Scaling

Scaling is precision work. Proper ultrasonic instrument selection is of primary importance in achieving complete periodontal debridement. Our wide variety of tips gives you the freedom to choose.



Heavy calculus removal

Tip

PE-31

Used for lingual, buccal and approximal supragingival scaling.



Working mode

Tip

PE-32

Used for lingual and buccal supragingival scaling.



Working mode

Tip

PE-39

Used for universal, lingual and buccal supragingival scaling.



Working mode

Tip

PE-41A

Used for universal, lingual and buccal supragingival scaling.



Working mode

Working mode coding:



Max 40 %



Max 70 %



Max 100 %

Scaling



Universal

Tip

PE-37



Universal tip especially developed for subgingival scaling, furcations, supragingival fine scaling and spot removal.



Working mode

Tip

PE-37L



Universal tip for subgingival scaling, furcations, supragingival fine scaling and spot removal. Tip angled to left for better access to furcations.



Working mode

Tip

PE-37R



Universal tip for subgingival scaling, furcations, supragingival fine scaling and spot removal. Tip angled to right for better access to furcations.



Working mode

Tip

PE-41P

Used for universal, lingual and buccal supragingival scaling. Can also be used for shallow pockets.



Working mode

Tip

PE-41AF

Used for approximal supragingival scaling. Also suitable for lingual and buccal scaling.



Working mode

Tip

PE-41PF

Used for lingual, buccal and approximal supragingival scaling.



Working mode

Working mode coding:



Max 40 %



Max 70 %

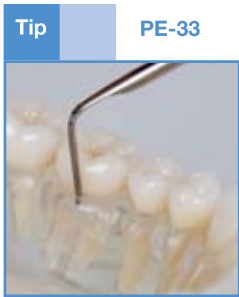


Max 100 %

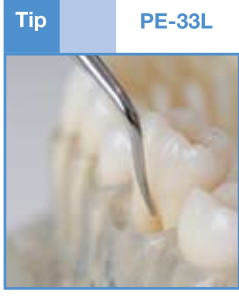
Scaling



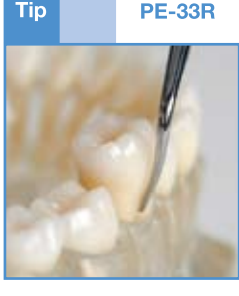
Periodontics



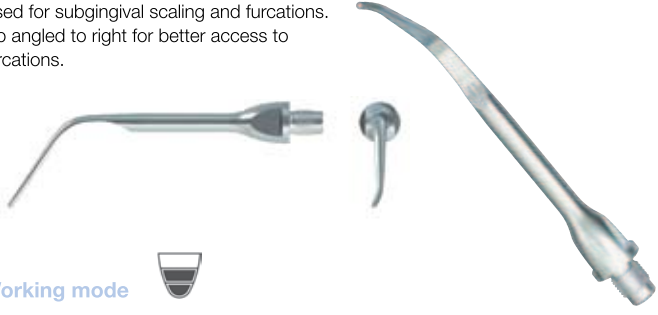
Used for subgingival scaling and furcations.



Used for subgingival scaling and furcations.
Tip angled to left for better access to furcations.



Used for subgingival scaling and furcations.
Tip angled to right for better access to furcations.



Tip

PE-38

Used for lingual and buccal subgingival scaling and furcations. Also suitable for supragingival fine scaling and spot removal.



Working mode



Tip

PE-38L

Used for subgingival scaling and furcations. Also suitable for supragingival fine scaling and spot removal. Tip angled to left for better access to furcations.



Working mode



Tip

PE-38R

Used for subgingival scaling and furcations. Also suitable for supragingival fine scaling and spot removal. Tip angled to right for better access to furcations.



Working mode



Working mode coding:



Max 40 %



Max 70 %



Max 100 %

Scaling



Tip

PE-40



Used for deeper lingual and buccal subgingival scaling. Also suitable for supragingival fine scaling and spot removal.



Working mode



Tip

PE-40L



Used for deeper subgingival scaling and molar furcations. Tip angled to left for better access to furcations.



Working mode



Tip

PE-40R



Used for deeper subgingival scaling and molar furcations. Tip angled to right for better access to furcations.



Working mode

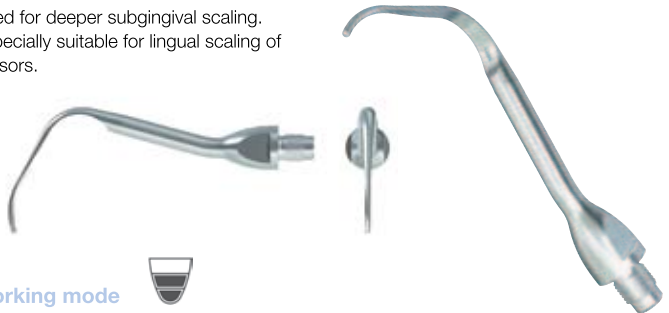


Tip

PE-40H



Used for deeper subgingival scaling. Especially suitable for lingual scaling of incisors.



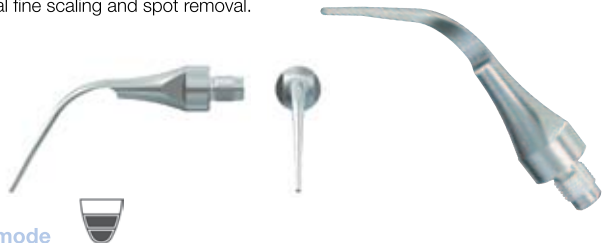
Working mode

Tip

PE-41PS



Used for deeper lingual and buccal subgingival scaling. Also suitable for supragingival fine scaling and spot removal.



Working mode

Working mode coding:



Max 40 %



Max 70 %



Max 100 %

Scaling

Implant maintenance

Tip

IM-1



Used on implants for the removal of calculus on fixtures, abutments and crowns. The working end is coated with PEEK® material to avoid damaging or discolouring the implant. Used together with the instrument holders IH-1 or IH-2.

Pack of 4.

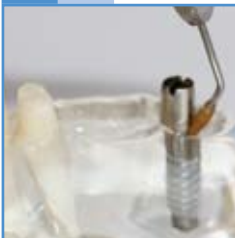


Working mode



Tip

IM-2



Same design as IM-1, but the working end is angulated for better access to difficult-to-reach surfaces. Used together with the instrument holders IH-1 or IH-2.

Pack of 4.



Working mode



Working mode coding:



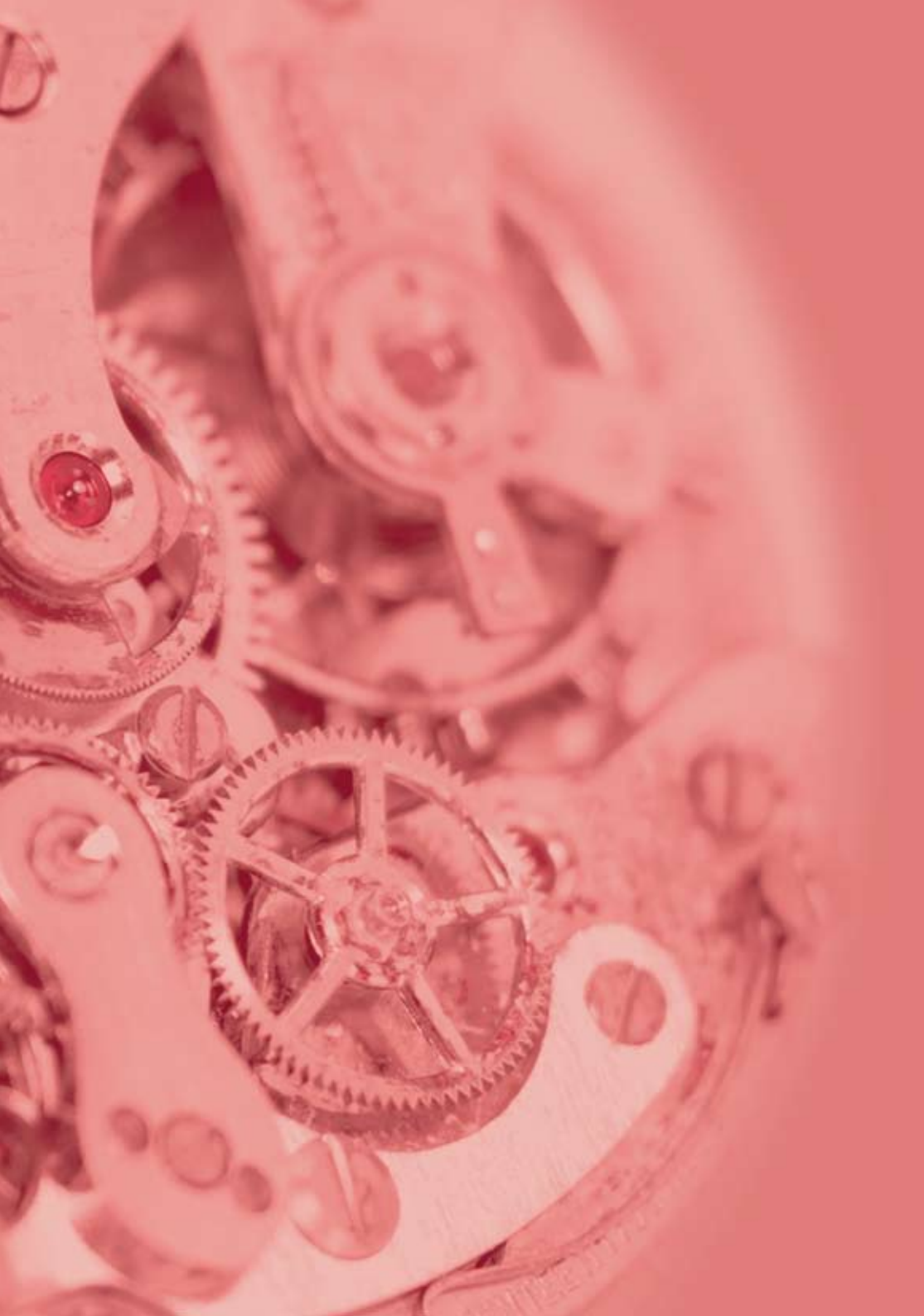
Max 40 %



Max 70 %



Max 100 %



Minimally invasive excavation

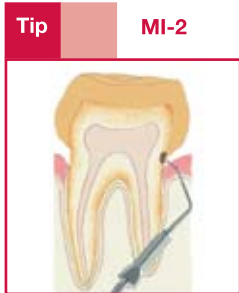


Minimally invasive excavation

With the aid of diamond-coated ultrasonic tips small preparations can be carried out without the unnecessary removal of the surrounding tooth substance. The tips can also easily be used for crown margins and cleaning fissures. The small diameter of the tips make them very suitable for treating children and the low noise level in comparison with rotating instruments is especially appreciated by nervous patients.



Straight tip, used primarily for incisors and more accessible surfaces.



Slightly contra-angled, used for lingual and buccal work on molars.



Tip

MI-3

Contra-angled, used on lingual, buccal and distal areas.



Working mode

Tip

MI-4

Heavily contra-angled, used on lingual, buccal and distal areas on molars and furcations.



Working mode

Working mode coding:



Max 40 %



Max 70 %



Max 100 %



Endodontics



Endodontics

Ultrasonic tips can be utilised in many areas in endodontics. They are truly excellent in the removal of posts, the removal of dentin in pulp chambers, finding and widening orifices, preparing canals, removing broken instruments and cleaning prepared canals.



Pulp chamber

Tip

EN-1



Ball shaped tip used for the removal of crowns, bridges and a variety of posts set with various cementing agents. The tip is placed against the post and then moved in a circular fashion to remove it.



Working mode



Tip

EN-2



Flat and round diamond-coated surface on the tip. Used for planing attached pulp stones from the pulp chamber floor. Compared to rotating instruments the risk of perforating the tooth is small.



Working mode



Tip

EN-3



All-purpose, conical and diamond-coated tip primarily used in the pulp chamber for removing pulp stones, dentin and old fillings. Also for finding hidden openings.



Working mode



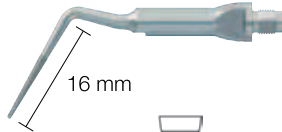
Caution! All endodontic tips are extremely sensitive and if not used correctly or with too much power or force they are subject to breakage. Do not exceed recommended working mode and always place the tip on the tooth surface before turning on the power.

Tip

EN-4



Round diamond-coated tip for removing gross dentin, for moving access line angles, for cutting a groove in the mesial access wall to drop into the second mesial-buccal canal (MB2) systems, and for quickly and carefully unroofing pulp chambers.



16 mm



Working mode



Tip

EN-12



Flat and diamond-coated tip. Used in the pulp chamber for removing pulp stones and also for removal of dentin and old fillings. Compared to rotating instruments the risk of perforating the tooth is small.



Working mode



Working mode coding:



Max 40 %
Endo function: max 60 %



Max 70 %



Max 100 %

Endodontics



Canal preparation

Tip

EN-5



Used in the coronal and apical part of root canals. Amongst other things the tip can be used to trephine around posts, widen calcified canals, remove hard fillings and broken instruments and other intra-canal obstructions.

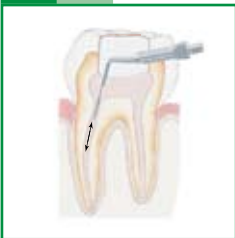


Working mode

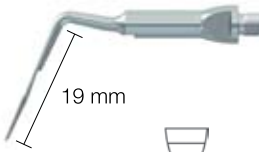


Tip

EN-6



Primarily used in the coronal area of the root canal to trephine around posts. Also for chasing calcified canals halfway up a root. The water supply is placed at the furthest extremity of the tip for increased rinsing and cooling of the treated area.



Working mode

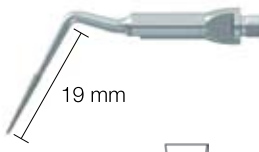


Tip

EN-7



Same shape as tip EN-5, but 2 mm longer, and same areas of use. Used in the coronal, middle and apical one-thirds of roots.



Working mode



Caution! All endodontic tips are extremely sensitive and if not used correctly or with too much power or force they are subject to breakage. Do not exceed recommended working mode and always place the tip on the tooth surface before turning on the power.

Tip**EN-8**

Same shape as tip EN-5, but 7 mm longer, and same areas of use. Used in the coronal, middle and apical one-thirds of roots.

**Working mode****Tip****EN-13**

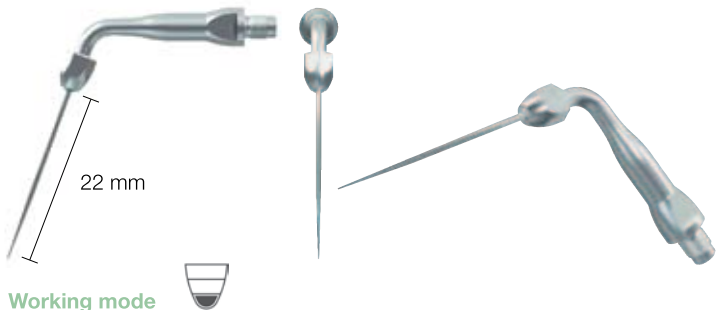
Diamond coated tip used in combination with the instrument holders IH-1, IH-2, IHS-1 or IHS-2. Used in the coronal and middle part of root canals. Used to remove posts, widen calcified canals, remove hard fillings, remove broken instruments and other intra-canal obstructions. Pack of 4.

**Working mode****Tip****EN-14**

Used in combination with the instrument holders IH-1 and IH-2. Used as a plugger for lateral condensation of guttapercha. Pack of 4.

**Working mode****Tip****EN-15**

Used in combination with the instrument holders IH-1, IH-2, IHS-1 or IHS-2. By using EN-15 in a fluid-filled root canal the ultrasonic vibrations clean the canal very efficiently. The resulting cavitation effect gives a proven high degree of cleanliness. Pack of 4.

**Working mode****Working mode coding:**

Max 40 %
Endo function: max 60 %

**Max 70 %****Max 100 %**

Endodontics

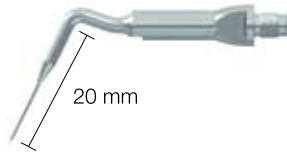
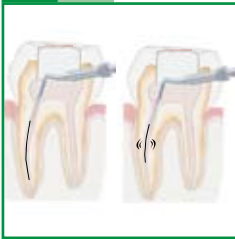
Removal of broken instruments

Tips EN-9, EN-10 and EN-11 are made of titanium and have no diamond coating. They hold a bend if applied forcefully. Titanium tips cut evenly and have an exceptional tactile sense. The small diameter makes them suitable for use in the apical part of root canals. Primary area of use is to isolate and remove broken instruments. Even broken instruments that are firmly stuck in the apical part of the root can often be removed by ultrasonic vibrations. Used in the mid and apical part of a root with illumination and magnification.



Tip

EN-9



Working mode



Tip

EN-10

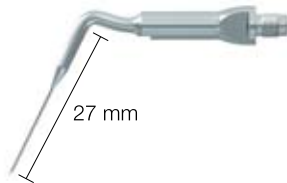


Working mode



Tip

EN-11



Working mode



Caution! All endodontic tips are extremely sensitive and if not used correctly or with too much power or force they are subject to breakage. Do not exceed recommended working mode and always place the tip on the tooth surface before turning on the power.

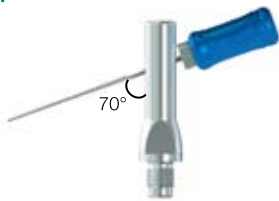
File and instrument holders

FH-1, FH-2 and FH-3 are holders for hand files. By using the hand file in a fluid-filled root canal the ultrasonic vibrations clean the canal very efficiently. The resulting cavitation effect gives a proven high degree of cleanliness.



Tip

FH-1

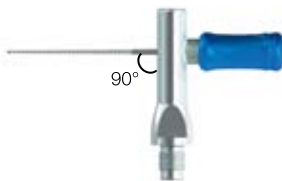


Working mode



Tip

FH-2

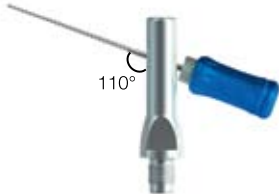


Working mode



Tip

FH-3



Working mode



Working mode coding:



Max 40 %
Endo function: max 60 %



Max 70 %



Max 100 %

Endodontics



Tip **IH-1**

Holder for implant maintenance tips and AP-1 and AP-2 tips for apical surgery. Can also be used with endosonic files and other instruments with a diameter of 0.8 mm.



Working mode: See chosen instrument

Tip **IH-2**

IH-2 has the same shape and area of use as IH-1.



Working mode: See chosen instrument

Caution! All endodontic tips are extremely sensitive and if not used correctly or with too much power or force they are subject to breakage. Do not exceed recommended working mode and always place the tip on the tooth surface before turning on the power.

Working mode coding:



Max 40 %
Endo function: max 60 %



Max 70 %



Max 100 %



Apical surgery



Apical surgery

The diamond-coated tips are used for opening and clearing the root when doing apical surgery. The long necks of the tips give excellent visibility and the ultrasonic vibrations in combination with the diamond coating give a higher degree of tactility and precision compared to rotating instruments.



Apical surgery tips are also available as sterile versions. See pages 42–46 for more information!

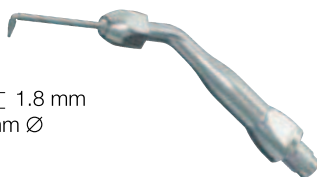
Tip

AP-1

Used in combination with the instrument holders IH-1, IH-2, IHS-1 or IHS-2. With the aid of the instrument holder the AP-1 can be turned to precisely the angle needed for the treatment. Available in a pack of four.



1.8 mm
0.3–0.8 mm Ø



Working mode



Tip

AP-2

Same area of use as AP-1. AP-2 has a slimmer design and is therefore better suited for small roots. Available in a pack of four.



0.5 mm Ø



Working mode



Tip

AP-3

AP-3 can be used as a universal tip on all teeth. The outermost 3 mm of the tip is diamond-coated to enable effective removal of tooth substance.

80°

3 mm
0.5 mm Ø



Working mode



Caution! All apical surgery tips are extremely sensitive and if not used correctly or with too much power or force they are subject to breakage. Do not exceed recommended working mode and always place the tip on the tooth surface before turning on the power.

Tip

AP-4

Same shape and area of use as AP-3, but is 0,7 mm in diameter making it more suitable for larger roots.



Working mode

Tip

AP-5

Designed for use on molar roots in the maxillary right and mandibular left.



Working mode

Tip

AP-6

Designed for use on molar roots in the maxillary right and mandibular left.



Working mode

Working mode coding:



Max 40 %



Max 70 %



Max 100 %

Apical surgery



Apical surgery tips are also available as sterile versions. See pages 42–46 for more information!

Tip

AP-7

Designed for use on molar roots in the maxillary left and mandibular right.



Working mode

Tip

AP-8

Designed for use on the roots of molars in the maxillary left and mandibular right.



Working mode

Caution! All apical surgery tips are extremely sensitive and if not used correctly or with too much power or force they are subject to breakage. Do not exceed recommended working mode and always place the tip on the tooth surface before turning on the power.

Working mode coding:



Max 40 %



Max 70 %



Max 100 %



Special purpose



Special Purpose

Ultrasonic technology can today be used for much more than just scaling and endodontics. Ultrasonic tips can be used to remove crowns, for amalgam condensation and for the application of thixotropic cementation.



Tip

SP-34

Used for removing crowns and inlays.



Tip

SP-34S

Same shape and area of use as SP-34, but with a smaller diameter to make inaccessible areas reachable.



Tip

SP-35

Used for amalgam condensation.



Tip**SP-35A**

Used for applying thixotropic cementation together with crowns and inlays. The extremity of the tip is covered in plastic so does not damage the crown or inlay.

**Working mode****Tip****SP-35B**

Same shape and area of use as SP-35A, but with a considerably more open angle.

**Working mode****Tip****SP-35C**

Same shape and area of use as SP-35B, but with a considerably more open angle.

**Working mode****Working mode coding:****Max 40 %****Max 70 %****Max 100 %**



Sterile treatment



Sterile treatment

Tips that allow sterile apical surgery. Treatment can be done with sterile water or desinfectants. The diamond-coated tips are used for opening and clearing the root. The long necks of the tips give excellent visibility and the ultrasonic vibrations in combination with the diamond coating give a higher degree of tactility and precision compared to rotating instruments.



Tip

APs-3



Tip for sterile treatment. Used as a universal tip on all teeth. The outermost 3 mm of the tip is diamond-coated to enable effective removal of tooth substance.



Working mode



Tip

APs-4



Tip for sterile treatment. Same shape and area of use as AP-3s, but is 0.7 mm in diameter making it more suitable for larger roots.

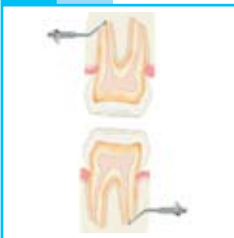


Working mode



Tip

APs-5



Designed for sterile treatment of molar roots in the maxillary right and mandibular left.



Working mode



Caution! All apical surgery tips are extremely sensitive and if not used correctly or with too much power or force they are subject to breakage. Do not exceed recommended working mode and always place the tip on the tooth surface before turning on the power.

ProPower SteriKit is a safe and reliable sterile system that bypasses current water delivery system completely. The SteriKit has pressurized irrigation system which allows easy and cost efficient installation. There is no need for expensive peristaltic pump. SteriKit is compatible with every Amdent and LM ultrasonic device.



Tip

APs-6

Designed for sterile treatment of molar roots in the maxillary right and mandibular left.



Working mode

Tip

APs-7

Designed for sterile treatment of molar roots in the maxillary left and mandibular right.

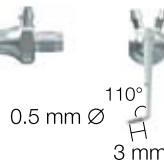


Working mode

Tip

APs-8

Designed for sterile treatment of the molar roots of molars in the maxillary left and mandibular right.



Working mode

Working mode coding:



Max 40 %



Max 70 %



Max 100 %

Sterile treatment



Tip

IHS-1

Sterile instrument holder for use with AP-1 and AP-2 tips for apical surgery. Can also be used for endosonic files and other instruments with a diameter of 0.8 mm.



Working mode: See chosen instrument

Tip

IHS-2

Same shape and area of use as IHS-1.



Working mode: See chosen instrument

Caution! All apical surgery tips are extremely sensitive and if not used correctly or with too much power or force they are subject to breakage. Do not exceed recommended working mode and always place the tip on the tooth surface before turning on the power.

Working mode coding:



Max 40 %



Max 70 %



Max 100 %

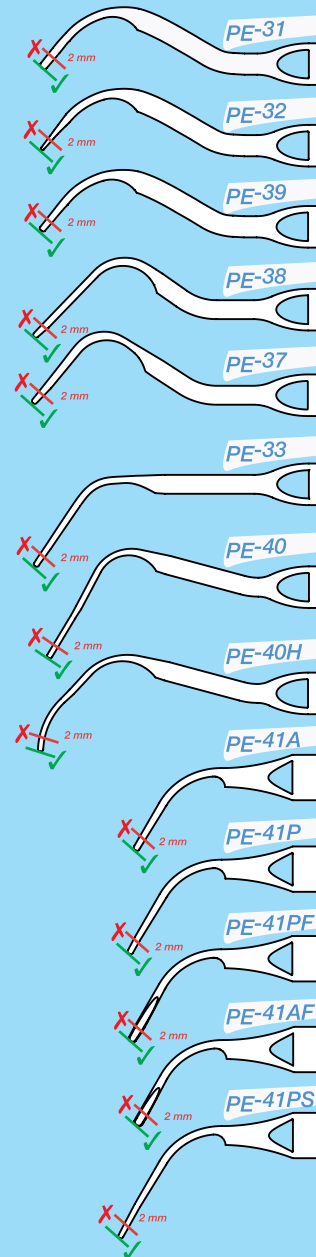
Check your tips!

Remember to check your periodontal tips with this template regularly. When a tip is worn down more than 2 mm replace it to

-increase efficiency and accessibility
-increase patient comfort
-increase safety
-save time and money.



Place the tip on the diagram to check for wear.



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