

LM

feel the
difference

LMProPower™
PLEASANTLY PURE
Ultrasonics and Air Polishing

LMDental™

LM

feel the
difference

THREE ATTRIBUTES of excellence

ERGONOMICS

LM-Dental™ has always considered ergonomics as one of the main points when designing dental instruments.

In LM-ProPower™ our devotion shows in the miscellany of high-quality elements, constituting a multifaceted power tool engineered to meet the needs of modern day dentistry.

ECONOMICS

For us, settling for mediocrity is not an option. Due to features designed to reduce the need of costly accessories, LM-ProPower™ stands for two qualities often considered as opposite extremes – economics and excellence.

HYGIENE

Cleanliness plays a great role in all the areas of health care, dentistry being no exception. LM-ProPower™ has high standard of hygiene that is obtained through design emphasizing reprocessing and easy, automated cleaning functions.



EXCHANGEABLE Silicone **LM**ErgoGrips™

LM-ErgoGrip™ silicone sleeves guarantee a comfortable, non-slip grip and good tactile sensitivity. LM-ErgoGrips™ are removable and possible to reprocess, disposing of the need for buying several expensive handpieces. The well-balanced handpiece causes less strain on clinicians' hand and dampens the vibrations providing exceptional ergonomics. The sleeves are available with a selection of bright colors. See the selection on page 8.



Choose synergy

Complementary instrumentation enables easier and effective procedures. LM-Dental™ is the first manufacturer in the world to offer high-quality tools for both manual and mechanical instrumentation. Choosing an optimal combination of hand instruments, ultrasonics and air polishing guarantees the best possible treatment results.



LM™ synergy in action!

Scan the QR code for video to see a full periodontal treatment making the most of hand instrumentation, ultrasonics and air polishing.



Scan the QR code for exploring LM™ hand instrument range.



PLEASANTLY POWERFUL LMProPower™ CombiLED

Ultrasonics beyond traditional

The features of the piezo electronic LM-ProPower™ CombiLED extend to all the areas of ultrasonic treatments. Its wide power range and a vast array of tips make it extremely adjustable for many procedures. This multi-purpose device offers ultrasonic solutions not only for traditional scaling but also for endodontics, apical surgery and implantology.

Complete air polishing for perio

LM-ProPower™ CombiLED has premium features that make it a perfect cleaning tool for professional dental care. The combination of nozzles with construction that reduces clogging, a constant precise powder jet and the powerful LED light raise the only polisher in the world with light to a level that has never been reached before.

LM-ProPower™ CombiLED provides superb visibility in diagnostics of discoloring and stains. Its focused powder spray, adjustable power range and the ergonomic handpiece create perfect conditions for achieving the best polishing effect. The transparent, detachable powder container on the side of the device makes controlling of the filling level easy.

MODERN PIEZO TECHNOLOGY for efficiency and comfort

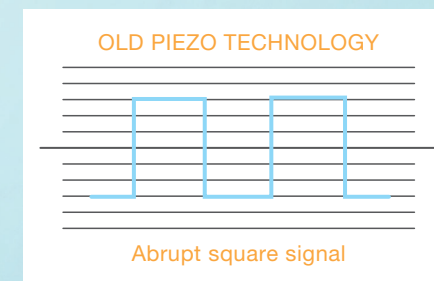
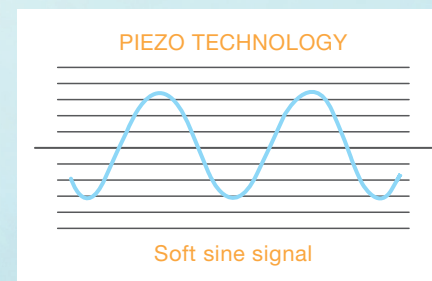
LM-ProPower™ piezo scaler has the ultimate power with a delicate touch. It provides you as a clinician an effective treatment and a pleasant dental care for your patient.

In devices with piezo-electric technology, the tip moves in a back-and-forth motion with better control than in older magnetostrictive technology that vibrates the tip more randomly. Piezo allows you to use the tip in a similar way as a curette – the sides of the tip remove calculus just like the edges of a curette – but with higher efficiency. By moving the tip along the side of a tooth you can direct the vibration right onto the calculus without knocking the enamel or cementum.

A treatment that reduces the pain

Our piezo technology produces a soft shaped sine wave signal which gives a pleasant ultrasonic instrumentation to the patient and prevents the irritation caused by an aggressive power output of an abrupt square signal used in less advanced devices. This results in greater patient convenience.

The intelligent feedback electronics automatically sense the working load on the tip and regulate power output.



Clinical indications for ultrasonic treatment

Prophylaxis & Periodontology	Scaling
	Removal of stains and plaque
Endodontics	Removal of dentin in pulp chambers
	Finding and widening orifices
	Preparing canals
	Removal of broken instruments
	Cleaning of canals
Apical surgery	Opening and cleaning of the root
Prosthetics / Implantology	Implant maintenance

LMProPower™ CombiLED

LM-ProPower™ CombiLED can be used for a wide range of ultrasonic and polishing treatments. It is an ultimate and undisputed power tool for upgrading your working environment to a new level of quality.

Superior visibility with LED LIGHTS

- Optimized light angle – better focus, concentrated light
- LM-ErgoGrip™ Focus LED focused lens
- Six light sources – even distribution of the light
- One of the most powerful LED lights in the market

The LED light generates no heat in the handpiece and can last for 100 000 hours (30 years). It illuminates the treatment area effectively and guarantees good visibility even through water or powder spray. The optimized color temperature of the light (white–blue colour) creates a good contrast, making calculus and stains more visible.

Easy-to-use TOUCH PANEL

LM-ProPower™ has uncomplicated control board that simplifies the ultrasonic treatment and cleaning processes, allowing you to focus on the essential. Power is adjusted via working mode buttons on the board, each marked with icons similar to the ones on tips. The built-in cleaning system assures a high level of hygiene. It is activated by pressing just one button.

Quick-connect CONTAINERS

Easily changeable transparent water and powder containers are attached to the body of the device. The upright positioning of the containers avoids leakage problems and filling levels of liquid and powder are always clearly visible. The internal water system enables premium hygiene.





Dynamic FOOT PEDAL

Turn the LED light on and off for diagnostics, control the working power within the chosen working mode, use the special water jet teeth cleaning function in polishing and the irrigation function in scaling with the pedal. Leave your hands free for treating the patient.



Available as BUILT-IN

Contact your LM™ distributor for more information on options available for your specific dental care unit.

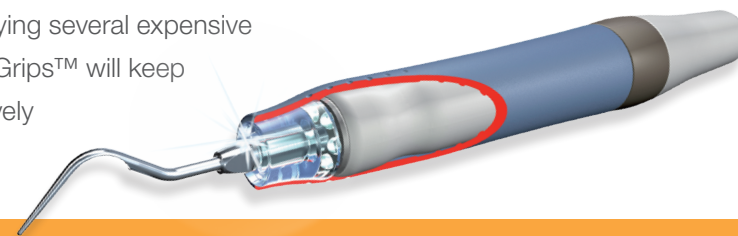
ERGONOMICS & HYGIENE – all in one

First-class HANDPIECE ERGONOMICS

LM-ProPower™ UltraLED handpieces are equipped with impressive LED lights that effectively illuminate the treatment area, providing optimal visibility and reducing eye strain.

A comfortable, non-slip grip is attained with the exchangeable LM-ErgoGrip™ silicone sleeves. The handpieces have smooth outer surface making them easy to clean and wipe. In the ultrasonic handpiece the water regulation is embedded, allowing easy and quick adjustment of spray.

LM-ErgoGrip™ Focus LED with focused lens guarantees a comfortable, non-slip grip and good tactile sensitivity. The soft material dampens the vibrations and keeps your hands warm, preventing Carpal Tunnel Syndrome and blood circulation problems. LM-ErgoGrips™ are removable and possible to reprocess, disposing of the need for buying several expensive handpieces. A few LM-ErgoGrips™ will keep your practise running effectively patient after patient.



ALL INCLUSIVE Introkit

LM-ProPower™ CombiLED is ready to perform upon arrival. The IntroKit contains:

- 5 LM-ErgoGrip™ Focus LEDs (blue)
- 3 ultrasonic tips
- 1 LM-Supra A nozzle
- 3 torque tip wrenches

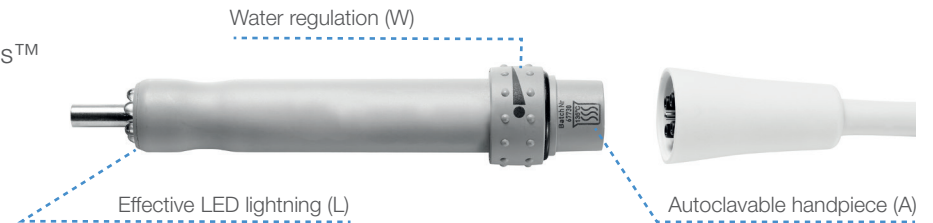
Handpieces and LM-ErgoGrips™ for better hygiene and efficiency




The exchangeable, silicone LM-ErgoGrips™ provide exceptional ergonomics and less strain on the clinicians' hands. The LM-ErgoGrips™ are removable and can be reprocessed, disposing of the need for buying several expensive handpieces. A few LM-ErgoGrips™ will keep the practise running effectively patient after patient.

LM-ErgoGrips™ are available with a selection of bright colors.

"Which ultrasonic handpiece do I have?"

Check the main features below.



WITH LIGHT		WITHOUT LIGHT	
<p>Air Polishing</p>  <p>15610261 2 m</p>	<p>Ultrasonic handpieces</p> <p>Compatible with LM-ProPower™ CombiLED table-top device.</p>  <p>10071</p>  <p>10063</p>  <p>10092 excl. tubing</p>	<p>Ultrasonic handpieces</p>  <p>10061</p>  <p>10060 excl. tubing</p>	
 <p>LM-ErgoGrip™ Focus LED</p>		 <p>LM-ErgoGrip™ Ultra</p>	
<p>Colors</p> <ul style="list-style-type: none"> LM 10099B blue LM 10099E dark blue LM 10099G light grey LM 10099D dark grey LM 10099C lilac LM 10099F pink LM 10099A lime 		<p>Colors</p> <ul style="list-style-type: none"> LM 10095B blue LM 10095E dark blue LM 10095G light grey LM 10095D dark grey LM 10095C lilac LM 10095F pink LM 10095A lime 	

Wrench selection

Attachment and removal of tips



LM 10089S



Universal tip wrench



LM 10089



Universal plastic tip wrench



LM 10088S

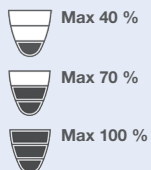


Torque tip wrench
Practical also as a tip cassette during maintenance.

LM DuraGradeMAX®

Working mode coding

Easy and safe setting of tip power



Extremely durable

LM-DuraGradeMAX® steel
- high wear resistance
- used in all LM™ ultrasonic tips

Solid, tight connection to the handpiece

Enhanced working precision and cleanliness



Check your tips!

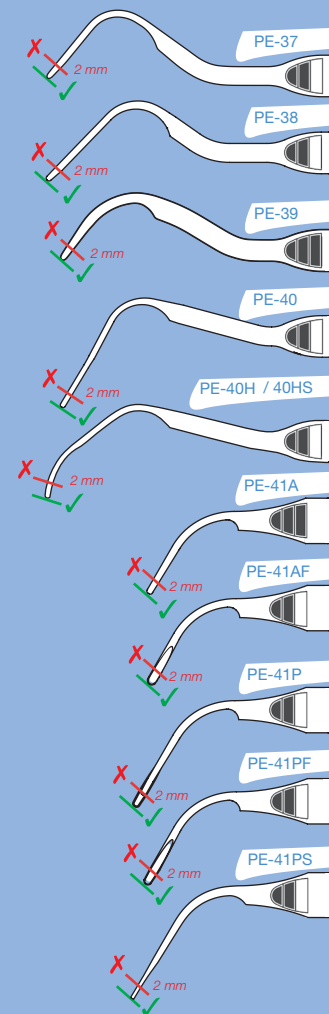
Remember to check your periodontal tips with this template regularly. When a tip is worn down more than 2 mm replace it to

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

Scan the QR code for clinical tips for effective and painless piezo scaling by Tracey Lennemann, RDH, BA



Check your tips!

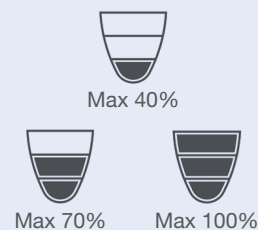


LM DuraGradeMAX® tips

High wear resistance is one of the most important properties of ultrasonic tips. Resulting from advanced material technological research, improved thermomechanical heat treatments, controlled gas atmosphere and cryogenic processing the LM-DuraGradeMAX® super steel used in all LM™ tips represents the ultimate in the field of metallurgy. According to independent studies, LM-DuraGradeMAX® has absolutely the best wear resistance on the market.

Optimum power for treatments

LM-ProPower™'s working mode coding is marked on every tip with a symbol corresponding to the ones on the devices control board. Choosing the right working mode for the tip used will set the maximum power limit to the recommended level.




Note! All presented tips are compatible with all LM™ ultrasonic table-top and built-in devices.

LM-ProPower™ ultrasonic tips

LM-ProPower™ CombiLED is a versatile ultrasonic device for professional dental care. In addition to scaling and polishing, it brings power to other treatments.

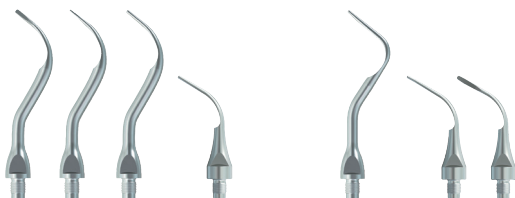
Scan the QR code to see LM-ProPower in action. Full periodontal treatment protocol by Tracey Lennemann, RDH, BA



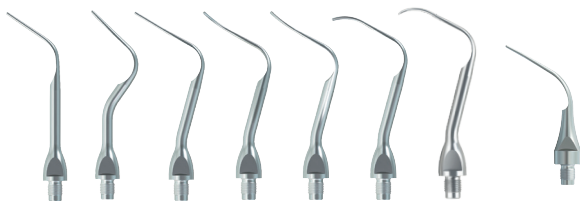
Scaling tips, see pages 11–13

Heavy calculus removal

Universal



Periodontics



Implant maintenance



Endodontic tips, see pages 14–16

Pulp chamber

Canal preparation



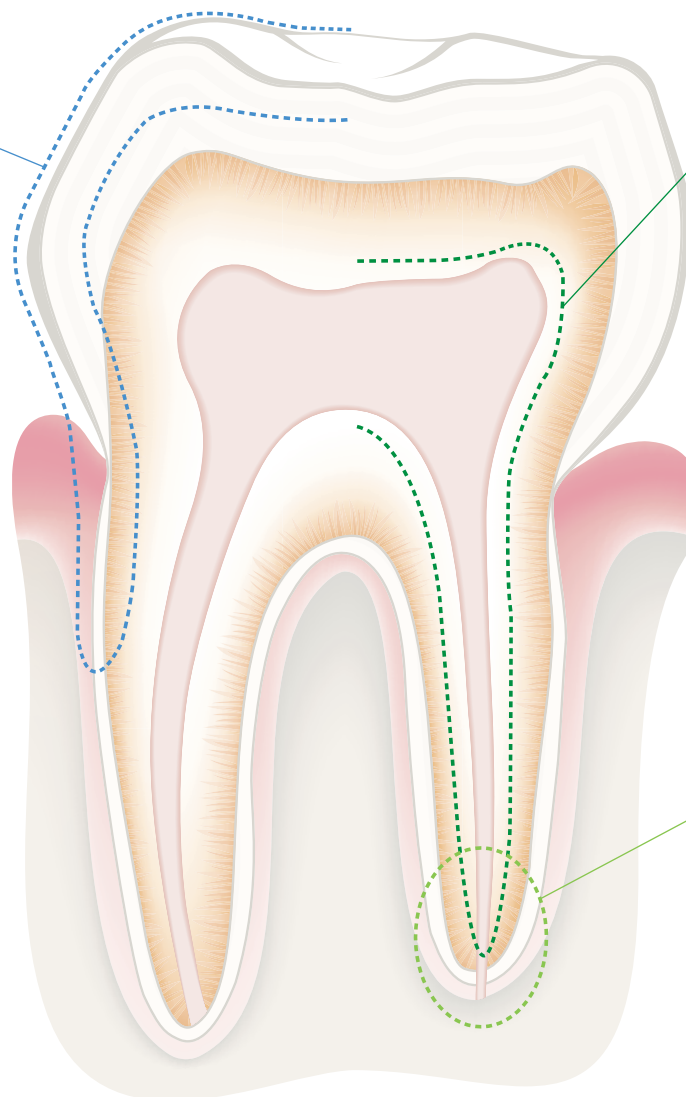
Removal of broken instruments



Endodontics/Apical Surgery, see page 17

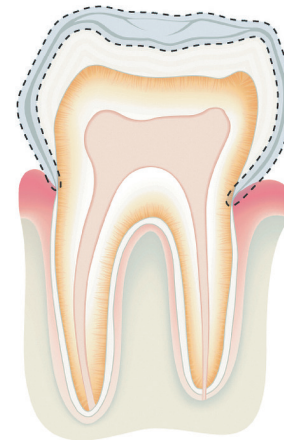
Apical surgery

Instrument holders



Scaling


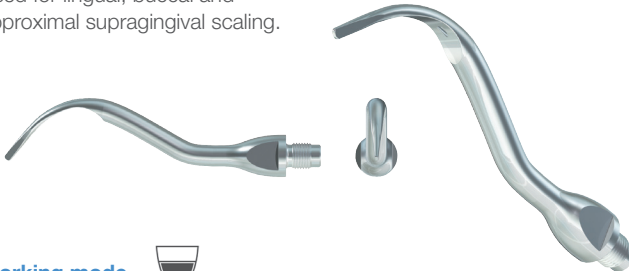
Scaling is precision work. Proper ultrasonic instrument selection is of primary importance in achieving complete periodontal debriment. Our wide variety of tips gives you the freedom to choose.




Heavy calculus removal

Tip **PE-31**
LM 100131

Used for lingual, buccal and approximal supragingival scaling.

Working mode 

Tip **PE-39**
LM 100139

Used for universal, lingual and buccal supragingival scaling.




Working mode 

Tip **PE-32**
LM 100132



Used for lingual and buccal supragingival scaling.





Working mode 

Tip **PE-41A**
LM 100141A

Used for universal, lingual and buccal supragingival scaling.

Working mode 

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

Scan the QR code to see TIP PE-39 in action!






Scaling

Universal

Tip **PE-37**
LM 100137

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

Working mode

Tip **PE-41P**
LM 100141P

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





Working mode

Tip **PE-41PF**
LM 100141PF

Used for lingual, buccal and approximal supragingival scaling.





Working mode



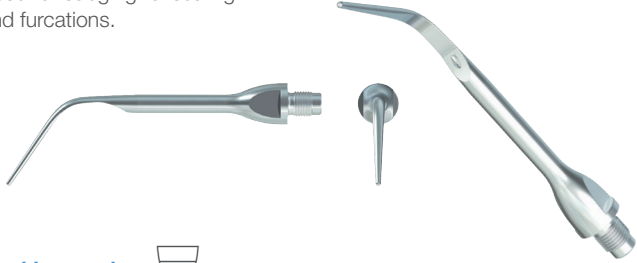
Scan the QR code to see TIP **PE-33** in action!



Periodontics

Tip **PE-33**
LM 100133




Used for subgingival scaling and furcations.

Working mode

Tip **PE-38**
LM 100138

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

Working mode

Tip **PE-40**
LM 100140

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



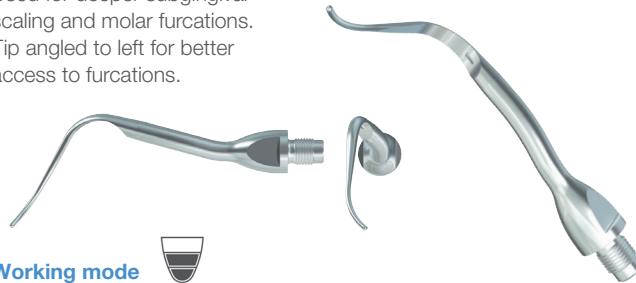


Working mode

Tip PE-40L
LM 100140L



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

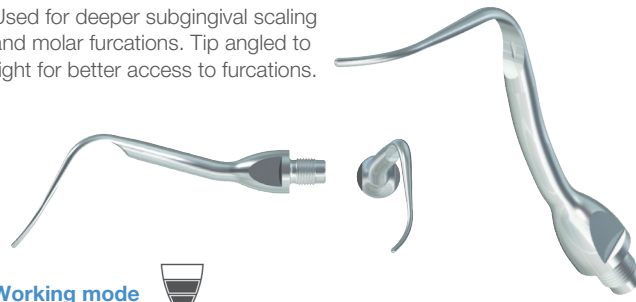


Working mode 

Tip PE-40R
LM 100140R



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



Working mode 

Tip PE-40H
LM 100140H



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



Working mode 

Tip PE-40HS
LM 100140HS



Universal tip for supra- and subgingival scaling. Similar to PE-40H tip, but with a slimmer shape. The new thinner design enables better reachability into approximal spaces and deeper periodontal pockets.



Working mode 

Tip PE-41PS
LM 100141PS



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



Working mode 

Implant maintenance

Tip IM-1
LM 1001301

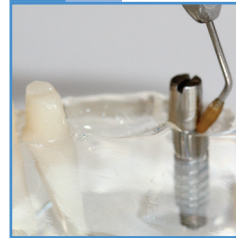


Used on implants for the removal of calculus on fixtures, abutments and crowns. The working end is coated with PEEK® material to avoid damaging or discoloring the implant. Used together with the instrument holders IH-1 or IH-2. Available in a pack of four.



Working mode 

Tip IM-2
LM 100102



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. Available in a pack of four.



Working mode 

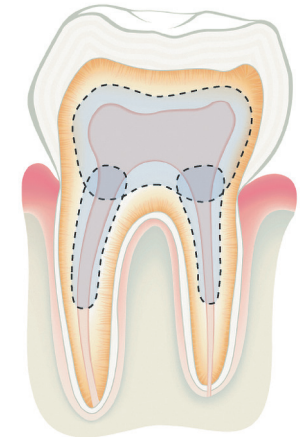
Clinician's favourite

Working mode coding:



Endodontics

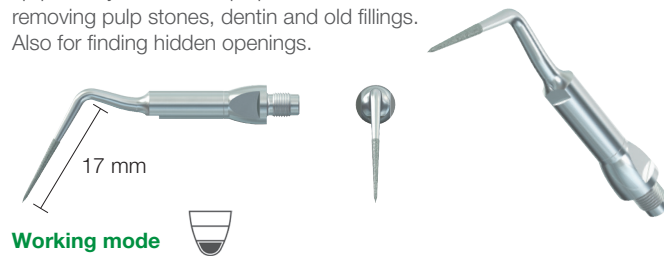
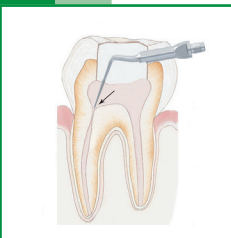
Ultrasonic tips can be utilized in many areas in endodontics. They are truly excellent in the removal of posts, the removal of dentin in pulp chambers, finding and widening orifices, preparing canals, removing broken instruments and cleaning prepared canals.



Pulp chamber

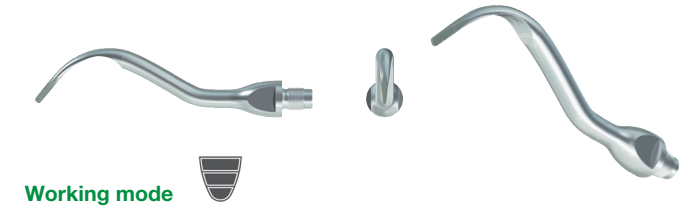
Tip EN-3
LM 100203

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.



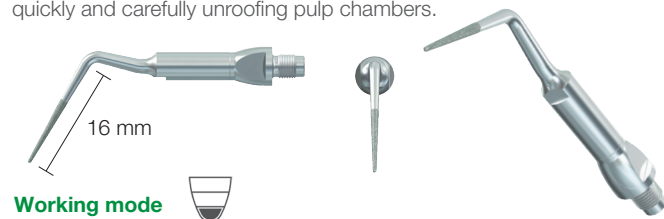
Tip EN-12
LM 100212

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.



Tip EN-4
LM 100204

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.


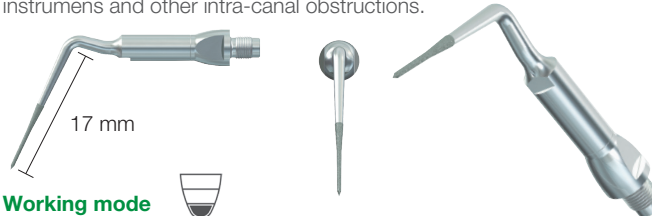


Caution! All endodontic tips are extremely sensitive and if not used correctly or with too much power or force they are subject to breakage. Do not exceed recommended working mode and always place the tip on the tooth surface before turning on the power.


Canal preparation

Tip **EN-5**
LM 100205

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.

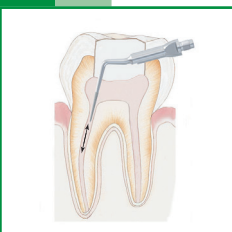
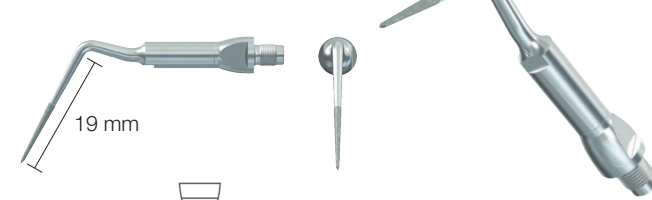



17 mm


Working mode 

Tip **EN-7**
LM 100207

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.






19 mm


Working mode 

Tip **EN-8**
LM 100208

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.

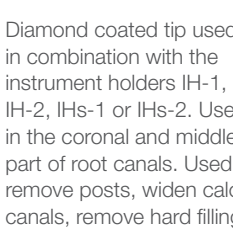
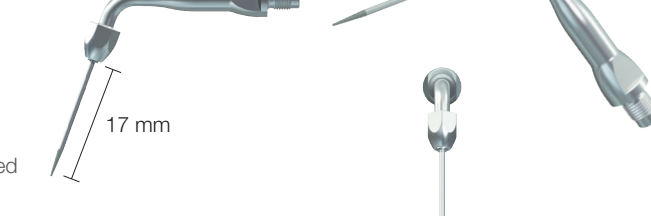



24 mm


Working mode 

Tip **EN-13**
LM 100213

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.

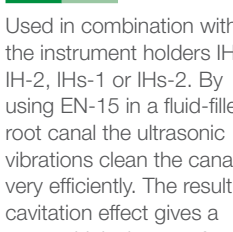




17 mm


Working mode 

Tip **EN-15**
LM 100215

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.

22 mm

Working mode 

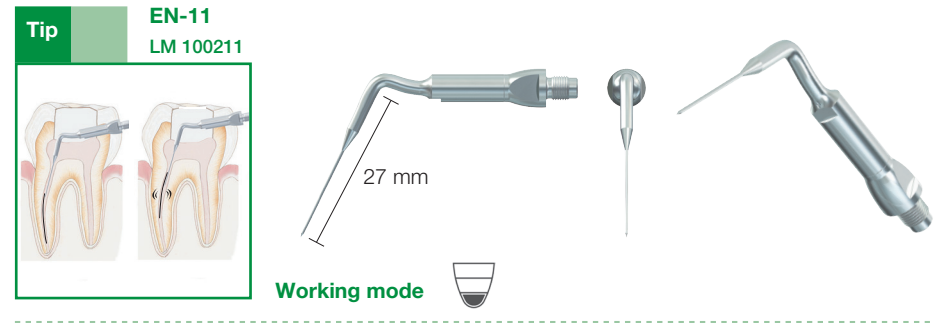
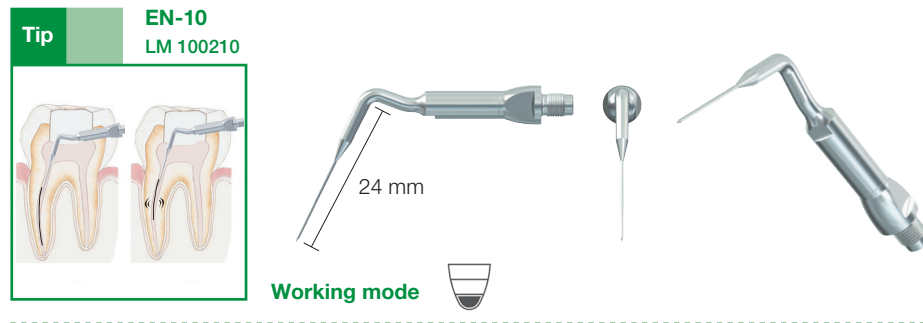
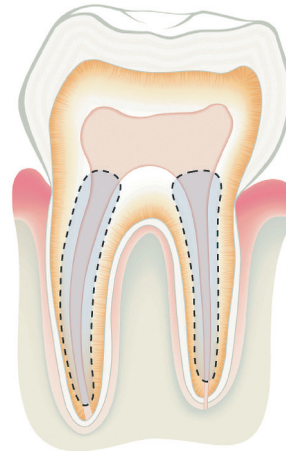
Working mode coding:



Endodontics

Removal of broken instruments

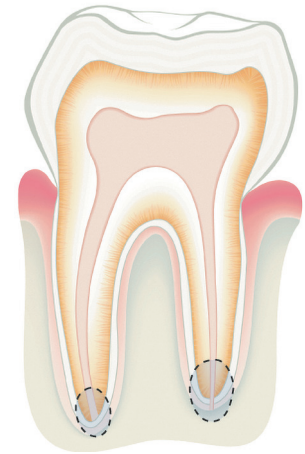
Tips EN-10 and EN-11 are made of titanium and have no diamond coating. They hold a bend if applied forcefully. Titanium tips cut evenly and have an exceptional tactile sense. The small diameter makes them suitable for use in the apical part of root canals. Primary area of use is to isolate and remove 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.



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.

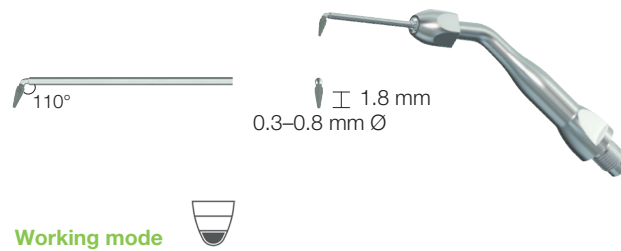
Endodontics/Apical surgery

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.



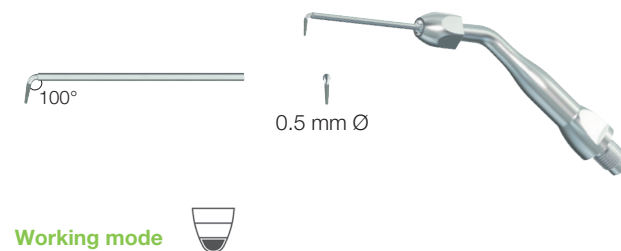
Tip **AP-1**
LM 100507

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.



Tip **AP-2**
LM 100508

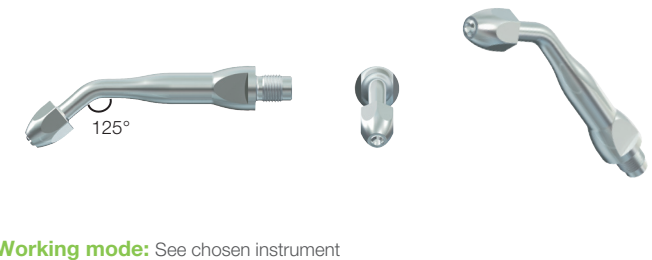
Same area of use as AP-1. AP-2 has a slimmer design and is therefore better suited for small roots. Available in a pack of four.



Instrument holders

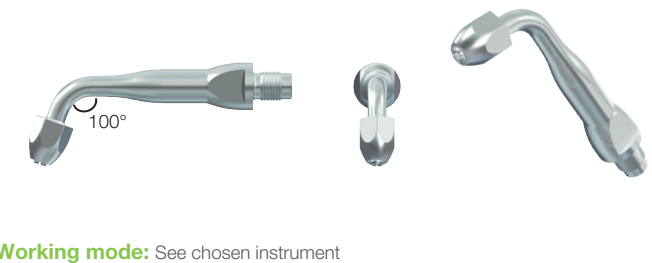
Tip **IH-1**
LM 100404

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.



Tip **IH-2**
LM 100405

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



Working mode coding:	Max 40%	Max 70%	Max 100%
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SUPRAGINGIVAL AIR POLISHING for the removal of biofilm & stains

Supragingival air polishing

Supragingival treatment with an air polisher is an effective method for prophylaxis treatment and in periodontal maintenance care.

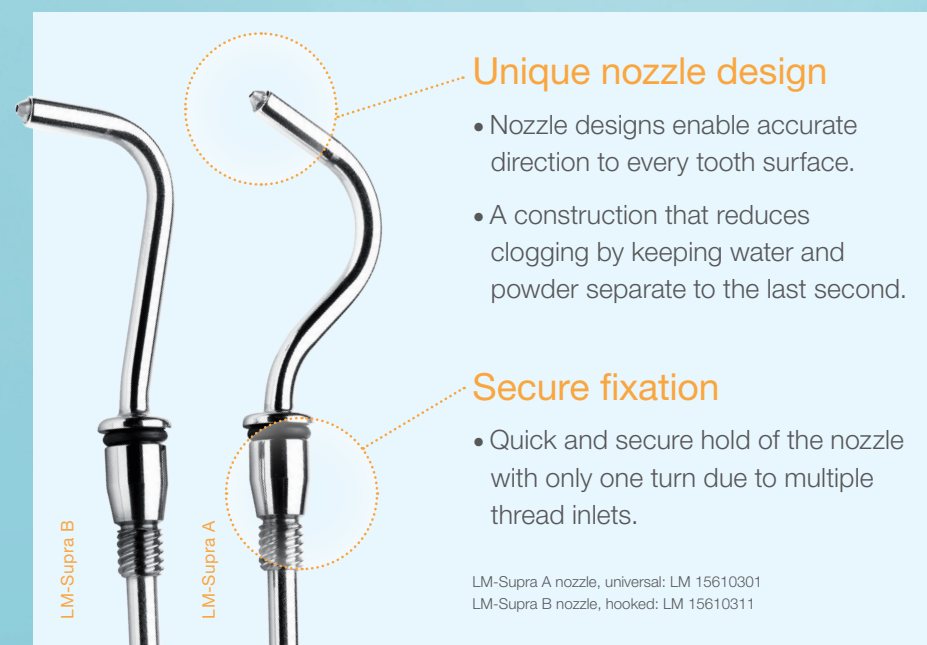
Air polisher removes supragingival biofilm, extrinsic plaque and stains safely and precisely. It does not harm the tooth surface or gingiva when used with care and with correct powders.

Clinical indications for air polishing

Diagnostics	Cleaning before examination
Prophylaxis & Periodontology	Removal of stains and plaque
	Cleaning prior placement of fissure sealants
Restoration	Cleaning before etching
Prosthetics / Implantology	Implant maintenance
	Cleaning natural teeth before choosing the shade for the prosthesis
Aesthetics	Cleaning before bleaching
Orthodontics	Cleaning before bonding
	Cleaning cemented bands and brackets

Air polishing offers a fast and pleasant method for patients

Two differently designed supragingival nozzles are comparable with LM-ProPower™ CombiLED device. Clinician can choose between universal or hooked nozzle depending of their clinical need. LM-ProPower™ CombiLED has a significantly narrower jet compared with other competing devices and is easy to target into the treatment area reducing the risks for soft tissue damage. Nozzles have a construction that reduces clogging by keeping water and powder separate to the the last second.



LMProPower™ CombiLED

technical specifications

LM-ProPower™ CombiLED	LM 10075 (liquid dispenser, IntroKit)
L x W x H	270 x 140 x 165 mm (without bottle and powder container)
Weight	3400 g
Voltage	230 Vac, 50–60 Hz
Power cord	Separate with protective earthed plug
Power consumption	Max. 40 VA
Scaler power consumption	Max. 24 VA
Scaler power output	Max. 10 W (24–28 kHz, automatic tuning)
Water consumption	10–50 ml/min
Bottle volume	500 ml
Air supply pressure	4–10 bar (0,4–1,0 MPa, 58–145 PSI)
Air consumption	Max. 20 l/min
Powder container capacity	40 g



Synergy and competent quality

More than 40 years, LM™ has been the pioneer in ergonomic and complementary instrumentation. We are the strong market leader in the Nordic countries, producing and developing innovative solutions for dental professionals all around the world.

Above all, we are recognized for both manual and mechanical tools that combine effective, practical and ergonomic qualities, which – in the competent hands of dental professionals – guarantee the best clinical results.

LMDental™



LM-Instruments Oy

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