LM-Instruments Oy
LM-Instruments • Handle selection

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Mirror handles • Explorers • Periodontal probes

Periodontics
Scalers • Universal curettes • Gracey curettes • Special instruments
• LM-ErgoMix with exchangeable tips

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Excavators • Gingival margin trimmers • Spatula • Cord packers
• Carriers • Pluggers • Burnishers • Modelling instruments
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• Crown On / Off instruments • LM-Cello stripholder

Endodontics
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Orthodontics
Removable appliances • Ortho mirror handle • Ligature applicators
• Arch Wire Tucker

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LM-ProPower ultrasonic and polishing devices • Ultrasonic tips

Instrument sets

Special products
LM-MultiHolder • LM-CompKnife • LM-ErgoHold
• LM-MultiSeptor • Brush Application Tips

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• Coding products • LM-ProColor instrument disinfectant
• LM-RondoPlus sharpening machine
• Instructions for maintenance

Index & Warranty terms

We reserve the right to make any changes.
Like every true professional we also aim for the ultimate perfection in our work. LM-Instruments devotes its entire product development and production process to achieve the best possible quality in all our products for you to have the very best tools to work with. We deliver the highest of quality to guarantee your success in the treatment results.
Whether it comes to the design or the production of the LM dental instruments, we focus on the specific needs of the dental experts. We are in a constant communication with the end users of our products to keep our product development on the cutting edge. We are the innovation leader that others copy. LM was the first to introduce a silicone instrument into the market in 1989.

The ergonomics has been the guiding light of our product development since the establishment of the company. Our radical product theses of the 1980s – a thicker handle, optimised shape, elastic surface, lightness and colour coding – have become industry wide standards in the 21st century. The natural, non-slip grip of the instruments has been recognised to be comfortable and efficient all around the world. You can feel the difference and so does your most satisfied patient.

All our products are produced in Scandinavia. We give our high-tech products a handmade finish to gain a top-quality end result and highest functionality.
The high wear resistance of the blade metal is one of the most significant features of a dental instrument. You can just feel the comfort and efficiency while operating with sharp and resistant instruments. Resulting from the advanced material technical research, the LM-DuraGradeMAX supersteel used in all LM hand instruments and ultrasonic tips represents the ultimate in the field of metallurgy. According to independent research studies, the wear resistance of LM curettes is significantly better than that of the comparative instruments – whether sharpened regularly or not sharpened at all.

Choose synergy!

Select your instruments and work methods always according to the particular situation and anatomy of the tooth being treated. The combination of hand instruments and ultrasonic technology enables easier and more effective procedures.

LM-Instruments is the first manufacturer in the world to offer high-quality tools for both manual and mechanical instrumentation. An optimal combination guarantees the best possible treatment results.
How to define the ergonomics of a hand instrument? Firstly a non-slip and natural grip on an instrument are essential. Secondly a lightweight and optimised design prevent effectively occupational diseases. Thirdly a good tactile sensitivity and easy handling of the instrument guarantee the best clinical results. Reliability, wear resistance and comfort are the features that will be evident for both, the dentist and the patient. These are the guiding principals how Pekka Kangasniemi, DDS, one of the founders of LM, defined instrument ergonomics already in the 1980s.

The ergonomic design reflects the latest research results:
the thickness, design and elasticity of the handle combined with a LED light illuminating the treatment area.
LM ServoMax
Optimal work flow & rational maintenance
New LM-ServoMax tray system organises and rationalises the handling of dental instruments and accessories during the procedures and maintenance. It facilitates good infection control and saves time by reducing the handling of individual items. It also prolongs the life span of instruments and protects the personnel. Its versatile modules keep all instruments and accessories organised in a single tray. The system is adaptable to treatment specific and individual needs. More on page 76, 77.

LM ErgoMix with exchangeable tips
Go green and stay sharp
The new hand instrument series LM-ErgoMix offers the dental team a specially economical, ecological and ergonomic alternative. You can forget sharpening, but still work always with the best cutting edge. When ever there is a need for a tip replacement the lock grip is opened, a new tip inserted and the lock grip is closed again. No extra tools are needed! Special alloyed LM-DuraGradeMAX super steel guarantees long lasting sharpness. See more on page 31, 32.
LM-ProPower
Ultrasonic & polishing technology
LM’s new generation of ultrasonic and air polishing devices represent ultrasonic excellence and polishing power to the max. Distinguished ergonomics combined with uniquely designed LED lighting, advanced electronics and high-durability LM-DuraGradeMAX tips make the LM-ProPower devices outstanding for all procedures requiring great precision.

A comfortable, non-slip grip is attained with the exchangeable LM-ErgoGrip silicone sleeve that dispose the need for several expensive handpieces. More on page 62-70.

LM-LiftOut & LM-TwistOut
Renowned LM ergonomics now in extraction instruments
LM is launching a new series of extraction instruments with familiar LM ergonomics and tactile sensitivity. The LM-LiftOut luxating instruments are designed for most atraumatic extractions and the LM-TwistOut elevators work best when more force and torque are needed. The well balanced ergonomic design make these instruments comfortable to hold and easy to rotate. The secure LM-ErgoTouch surface provides a light, non-slip grip. The instruments are light in weight and are easier on the hands. LM-DuraGradeMAX supersteel guarantees strong and sharp blades. Tight seam at blade juncture makes the instruments hygienic and solid. More on page 52-54.
Handle Selection

Most LM instruments are available with either LM-ErgoNorm or LM-ErgoMax handles. The thinner LM-ErgoNorm handle functions best in light clinical procedures. The hand fit plays a role in selecting a handle type. By interchanging ErgoNorm and ErgoMax handle types, the user’s hand is placed under even less strain.

All LM instrument handles are exceptionally ergonomic due to the elastic silicone coating and optimised contouring.

The instrument name and code number are imprinted on the handle. Other printed codes are e.g. the lines which denote either blade size, angle curvature or measuring scale.

**LM-ErgoNorm**

Well balanced mirror handle with better reachability.

**LM-ErgoMax**

**LM-ErgoSingle**

**LM-ErgoAccess**


**LM-ErgoMix**

The new LM-ErgoMix handle for exchangeable tips offers all the economical and ecological benefits of retipping. Available for specific instruments, see page 31-32.

When ordering remember to mention the code for handle type:

- Si = ErgoNorm handle (Ø 8.5 mm)
- XSi = ErgoMax handle (Ø 11.5 mm)
- EM = ErgoMix handle (Ø 12.5 mm)
- ESI = ErgoSingle handle (Ø 11.5 mm)
- EASI = ErgoAccess handle (Ø 11.5 mm curved)
Diagnostics

- Mirror handles
- Explorers
- Periodontal probes

Difficult to choose? We recommend LM-DiagnoSet! See page 71.
Mirror handles

LM 25 mirror handle threads are in accordance with international standard M2.5 - the mirror shank must have a diameter of 2.5 - 2.6 mm.
LM 28 mirror handle threads are in accordance with international standard UNF4-48 - the mirror shank must have a diameter of 2.5 - 2.6 mm.

ErgoSingle Mirror Handle
LM 25 ESi / LM 28 ESi
- well balanced, better reachability
- colour selection: red, grey, blue

Mirror Handle
LM 25
- colour selection: red, grey, blue

Mirror Handle
LM 28 XSi
- available only with LM-ErgoMax (XSi) handle
- cone socket design, UNF4-48, with special threads
- colour selection: red, grey, blue

Mirror Handle, ortho
LM 25-26 XSi
- available only with LM-ErgoMax (XSi) handle
- for measuring the sagittal overjet and vertical overbite
- millimeter scale, total length 25 mm

Mirror Handle JM
LM 25-473XSi
- available only with LM-ErgoMax (XSi) handle
- for implant installation

Explorers

For diagnosing calculus and caries and exploring of pockets, restorations and furcations.

Most explorers and periodontal probes are available also in single-ended designs.

Explorer
LM 5-8
**Explorer**
LM 5-9

**Explorer, centered**
LM 9-17C

- Elongated lower shank and “back-action” blade. Especially for probing distal surfaces of posterior teeth. 17C head with centred tip.

**Explorer**
LM 17-23

**Explorer, centered**
LM 17C-23

- Especially for probing distal surfaces.

**Explorer**
LM 3-6

**Explorer**
LM 11-12
- angles similar to Gra 11/12

- For subgingival root examination.
**Explorers, Explorers - Periodontal probes**

**Explorer, prosthetic**
LM 18-19
- prosthetic crowns, bridges and inlay-/onlay fillings
- high sensitivity at seams

**Explorer, Holst**
LM 29
- lateral angle on the shank

**Explorer**
LM 9

**Explorers – Periodontal probes**

Combination instruments for probing caries and parodontium.

- Most explorers and periodontal probes are available also in single-ended designs.

**Explorer - Periodontal Probe**
LM 23-52B
Explorer - Periodontal Probe
LM 8-520B
- ball ø 0.5 mm

Explorer - Periodontal Probe
LM 23-520B
- ball ø 0.5 mm

Explorer - Periodontal Probe
LM 23-530B
- ball ø 0.5 mm

Williams Probe
LM 51

Explorer - WHO Probe
LM 8-550B
- ball ø 0.5 mm

Explorer - WHO Probe
LM 23-550B
- ball ø 0.5 mm

WHO Probe
LM 550B
- ball ø 0.5 mm

North Carolina Probe
LM 54B
- available only with LM-ErgoMax (XSi) handle

new!
Furcation probes

For probing the extent and depth of furcation lesions.

For probing furcation lesions from different angles, both in the upper and in the lower jaw region.

Nabers Probe
LM 20-21

Furcation Probe
LM 20B-210B

- examination of furcation lesions from different angles in both the upper and lower jaws
Periodontics

- Scalers
- Universal curettes
- Gracey curettes
- Special instruments
- LM-ErgoMix with exchangeable tips

Difficult to choose? We recommend LM-PerioSet 1 & 2. See page 71.
Sickle scalers

For the removal of supragingival calculus.

Design:
Triangular cross section
Face perpendicular to the lower shank
Two cutting edges (red line)
Pointed tip

Micro Sickle LM204SD
LM 301-302

- Delicate working end. Especially for tight interdental spaces.

Sickle LM204S
LM 303-304
- sharply angulated shank and very fine working end
- excellent pair for the Micro Sickle

Mini Sickle
LM 311-312

- For all tooth surfaces, especially proximal surfaces.

Sickle LM23
LM 313-314
- shorter blade and longer lower shank than in the Mini Sickle
Crane-Kaplan
LM 322-323
- extremely strong, rigid, sharply angled blade
- for removal of heavy supragingival calculus

Mini Kaplan
LM 333-334
- same angle but with a more delicate blade than in the Crane-Kaplan

McCall 11A-12A
LM 324-325

Sickle Scaler
LM 141

Scaler U15 Towner
LM 150

Push Scaler H4-H5
LM 144-145
- 90° working surface
- The chisel-like working end used by pushing. The jacquette working end used by pulling.

Scaler H6-H7
LM 146-147

Laplander
LM 148-149 XSi
- similar to H6-H7 but with a lateral bending
- easy access to molar area and proximal surfaces
- available only with ErgoMax (XSi) handle
Universal curettes

For the removal of supra- and subgingival calculus.

Design:
- Working end perpendicular to the lower shank
- Two cutting edges (red line)
- Rounded tip

McCall 13S-14S
LM 222-223

- Strong blade with rigid shank. Mainly for incisors and premolars.

Mini McCall 13S-14S
LM 222-223M

- Mini model: sharper, slightly rounded tip (not sickle-shaped), especially for deep pockets.

Curette LM 15-16
LM 225-226

McCall 17-18
LM 277-278
McCall 17S-18S
LM 279-280

- strong, uniform-width working end
- for all tooth surfaces
- especially for broad molar surfaces

Langer curettes combine universal curette head with Gracey curette’s shank angulation – can be used for all tooth surfaces.

Langer 1/2
LM 281-282
- for premolars and molars in the lower jaw

Langer 3/4
LM 283-284
- for premolars and molars in the upper jaw

Langer 5/6
LM 285-286
- for incisors in the upper and lower jaw

Mini Langers have longer shanks and shorter working ends than standard Langers.

Mini Langer 1/2
LM 281-282M
- for premolars and molars in the lower jaw
Universal curettes

- Mini Langer 3/4
  LM 283-284M
  - for premolars and molars in the upper jaw

- Mini Langer 5/6
  LM 285-286M
  - for incisors in the upper and lower jaw

- Goldman-Fox 3
  LM 233-234

- Goldman-Fox 4
  LM 235-236

- Columbia 2L-2R
  LM 217-218

- Columbia 4L-4R
  LM 219-220

- Columbia 13-14
  LM 237-238
**LM-Syntette**
A combination of universal and finishing curette.
For the removal of supra- and subgingival calculus.
For both concave and convex surfaces.
Distal and mesial surfaces of the same interdental space can be treated with the same instrument head.
Suitable for both vertical and horizontal techniques.
**Design:**
- Two elliptical cutting edges
- Rounded toe

**LM-Syntette, mini**
LM 215-216M
- mini model excellent in tight, deep pockets

**Hoe scalers**
For the removal of supra- and subgingival calculus.
Suitable for deep, narrow pockets and concave root surfaces.
For both vertical and horizontal techniques.
**Design:**
- Fine hoe-shaped blade with rounded corners
- Elliptical cutting edge

**Hoe Scaler, anterior**
LM 112-113

**Hoe Scaler, lateral**
LM 134-135

**Hoe Scaler, posterior**
LM 156-157
**Special instruments**

**Interproximal curettes**

- bevelled working surface, one cutting edge
- one end for treatment of the mesial surface and the other for treatment of the distal surface of the same interdental space
- for use with horizontal technique, from the buccal side

Interproximal Curette SV 1-3
LM 251-253
- for quadrants 1 and 3

Interproximal Curette SV 2-4
LM 252-254
-- for quadrants 2 and 4

**Furcation files**

Concavity Diamond SV 5-6
LM 255-256D
- delicate, diamond-coated round curved toe
- for cleaning and forming deep, concave root surfaces
- for acute furcation lesions

Furcation Diamond SV 7-8
LM 257-258D
- delicate, diamond-coated egg-shaped toe
- for cleaning deep furcation lesions

**Furcator**

Furcator KS
LM 259-260 XSi
- available only with LM-ErgoMax (XSi)

---

For cleaning of the furcation roof and inner surfaces, particularly concavations and grooves in them.
Special instruments

LM-ErgoAccess instruments
Solution for calculus removal from problematic areas.

H-Scaler I
LM 112-156 EASi
The curved handle allows access to hard-to-reach areas such as distal surfaces of molars and lingually inclined incisors.

H-Scaler II
LM 156-157 EASi
Provides easy access to molar area even with smaller oral aperture.

Micro Sickle EASi
LM 301-302 EASi
Fits well into the approximal surfaces in the front.
Gracey finishing curettes

Area specific curettes for the removal of deep subgingival calculus.
For the finishing of subgingival root surfaces.

Design:
Working surface inclined 20° to the lower shank
One curved cutting edge (red line)
Rounded cutting tip

Mini Gracey
- longer lower shank and smaller working end than in the standard model
Macro Gracey
- standard model’s long working end combined with mini model’s longer lower shank
Rigid Gracey
- blade shank thicker and more rigid, and working end slightly wider than in the standard model

Gracey Chart

Incisors
GRA 1/2
GRA 5/6

Premolars
GRA 7/8
GRA 11/12
GRA 13/14

Molars
GRA 9/10
GRA 11/12
GRA 13/14
GRA 15/16
GRA 17/18
Gracey finishing curettes

**Gracey 1/2**
LM 201-202
- incisors, premolars

**Gracey 3/4**
LM 203-204
- incisors, premolars

**Gracey P3-P4**
LM 266-267
- short shank makes the instrument more rigid

**Gracey 5/6**
LM 205-206
- incisors, premolars

**Gracey 7/8**
LM 207-208
- premolars, molars

**Gracey 9/10**
LM 209-210
- molars

**Gracey 11/12**
LM 211-212
- molars’ mesial surfaces
Gracey finishing curettes

Gracey 13/14
LM 213-214
- molars’ distal surfaces

Gracey 15/16
LM 245-246
- molars’ mesial surfaces

Gracey 17/18
LM 247-248
- molars’ distal surfaces

When the blade shank is sharply angulated, the position of the handle while working is more horizontal, thereby facilitating procedures when the patient’s oral aperture is small.

Macro Gracey curettes

Macro Gracey 5/6
LM 205-206AF

Macro Gracey 7/8
LM 207-208AF

Macro Gracey 11/12
LM 211-212AF

Macro Gracey 13/14
LM 213-214AF
### Mesial-distal macro Gracey curettes

See also page 30

**Macro Gracey 11/14**  
LM 211-214AF

![Macro Gracey 11/14](image)

**Macro Gracey 12/13**  
LM 212-213AF

![Macro Gracey 12/13](image)

### Mini Gracey curettes

**Mini Gracey 1/2**  
LM 201-202M

![Mini Gracey 1/2](image)

**Mini Gracey 7/8**  
LM 207-208M

![Mini Gracey 7/8](image)

**Mini Gracey 11/12**  
LM 211-212M

![Mini Gracey 11/12](image)

**Mini Gracey 13/14**  
LM 213-214M

![Mini Gracey 13/14](image)

**Mini Gracey 15/16**  
LM 245-246M

![Mini Gracey 15/16](image)

**Mini Gracey 17/18**  
LM 247-248M

![Mini Gracey 17/18](image)
Rigid Gracey curettes

Blade Shank thicker and more rigid, and working end slightly wider than in the standard model. Following Gracey curettes are available in rigid:
Gracey 1/2
Gracey 7/8
Gracey 11/12
Gracey 13/14
Gracey 15/16
(Code: LM 201-202R Si / XSi etc.)

Mesial-distal Gracey curettes

All the mesial-distal models are also available as mini models.
Gracey 11/14 and Gracey 12/13 available also in macro. See page 28.

For the treatment of one quadrant at a time.

Gracey 11/14
LM 211-214

Gracey 12/13
LM 212-213

Gracey 15/18
LM 245-248

Gracey 16/17
LM 246-247
**LM-ErgoMix instruments with exchangeable tips**

The new hand instrument series LM-ErgoMix offers the dental team a specially economical, ecological and ergonomic alternative. When ever there is a need for a tip replacement the lock grip is opened, a new tip inserted and the lock grip is closed again. No extra tools are needed.

**Benefits of retipping**
- always sharp instruments
- saves time from sharpening
- minimizes waste
- enables personalized tip combinations

Use LM-ErgoMix instruments in the normal way, clean and sterilize it like any other instrument. The sealed construction guarantees high level hygiene.

**LM-ErgoMix with LM-DuraGradeMAX steel tips**

Micro Sickle
LM 301-302 EM

Mini Syntette
LM 215-216M EM

Mini Gracey 1/2
LM 201-202M EM

Mini Gracey 11/12
LM 211-212M EM

Mini Gracey 13/14
LM 213-214M EM
Titanium tips for implants

A great new instrument series for implant maintenance. The ErgoMix structure ensures excellent tactile sensitivity and optimal rigidity.

Tips are made of sensitive but still effective titanium, which will not harm the abutments.

### Implant Mini Universal curette
LM 283-284MTi EM

### Implant Mini Gracey 1/2
LM 201-202MTi EM

### Implant Mini Gracey 11/12
LM 211-212MTi EM

### Implant Mini Gracey 13/14
LM 213-214MTi EM

### LM-ErgoMix spare parts

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<th>Spare handles</th>
<th>Spare tips LM-DuraGradeMAX</th>
<th>Spare tips titanium</th>
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<td>ErgoMix handle grey</td>
<td>Micro Sickle L</td>
<td>Implant Mini Universal Curette L</td>
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<tr>
<td></td>
<td>Micro Sickle R</td>
<td>implant Mini Gracey 1</td>
</tr>
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<td>ErgoMix handle dark grey</td>
<td>Mini Syntette L</td>
<td>Implant Mini Gracey 2</td>
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<td></td>
<td>Mini Syntette R</td>
<td>implant Mini Gracey 11</td>
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<tr>
<td>Spare lock grips, 2 pcs</td>
<td>Mini Gracey 1</td>
<td>implant Mini Gracey 12</td>
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<tr>
<td>Orange</td>
<td>Mini Gracey 2</td>
<td>implant Mini Gracey 13</td>
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<tr>
<td>Light blue</td>
<td>Mini Gracey 11</td>
<td>implant Mini Gracey 14</td>
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<tr>
<td>Grey</td>
<td>Mini Gracey 12</td>
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<tr>
<td>Yellow</td>
<td>Mini Gracey 13</td>
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<td>Dark grey</td>
<td>Mini Gracey 14</td>
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<tr>
<td>Red</td>
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Restoration

- Excavators
- Gingival margin trimmers
- Spatula
- Cord packers
- Carriers
- Pluggers
- Burnishers
- Modelling instruments
- Composite instruments
- Carvers
- Excess scalers
- Filling remover
- Crown On/Off instruments
- LM-Cello stripholder

Difficult to choose?
We recommend LM-CompoSet & LM-EstheticSet! See page 71.
**Spoon excavators**

For the removal of softened carious dentin and temporary fillings.

- **Design:** Spoon-shaped working end
- **Tip:** Rounded tip
- **Edge:** Long cutting edge, which can easily treat broader areas

- **Spoon Excavator, 1.0 mm**
  LM 522-523

- **Spoon Excavator, 1.5 mm**
  LM 533-534

**Round excavators**

- **Cariology**
  - for the removal of softened, carious dentin
  - for the removal of temporary fillings

- **Surgery**
  - to sever the periodontal ligament prior to extraction
  - for the removal of granulation tissue after extraction

- **Design:**
  - Round working end
  - Curved cutting edge

- **Round Excavator, 1.0 mm**
  LM 61-62

- **Round Excavator, 1.5 mm**
  LM 63-64
Round Excavator, 2.0 mm
LM 65-66

Triple-angled back action excavators

Cariology
- extremely effective in removing carious dentin
- for undermining enamel during tissue-saving preparations

Periodontics
- for the removal of calculus from hard to reach areas such as the lower anterior lingual surfaces
- for the depuration of concave root grooves and furcations

Surgery
- for the removal of granulation tissue in connection with apical resections, flap operations, or extractions

Design:
Round working end and curved cutting edge Shank angulations ease treatments on hard to reach buccal, distal, and lingual surfaces
The blade shank is triple-angled, allowing for “back action” functions

Triple-angled Back Action Excavator, 1.0 mm
LM 611-621

Triple-angled Back Action Excavator, 1.5 mm
LM 631-641

Triple-angled Back Action Excavator, 2.0 mm
LM 651-661

Triple-angled Back Action Excavator, 3.5 mm
LM 671-681
Gingival margin trimmers

For the horizontal finishing of outer cavity margins.

Gingival Margin Trimmer, 1.2 mm, distal
LM 121-122

Gingival Margin Trimmer, 1.2 mm, mesial
LM 125-126

Spatula

Spatula
LM 450-460

Cord packers

Cord Packer, 2.0 mm
LM 490-491

Cord Packer, 2.6 mm
LM 492-493

The cleverly bent blade enables getting around the tooth as well as the packing of the cord using vertical motions.
**Base carriers**

For carrying base or thin liner to dentin surfaces.

- **Base Carrier, rigid**
  LM 29H-30H

- **Base Carrier - Condenser, malleable tip**
  LM 30-34
  - 30-tip can be bent into the desired form, allowing for easier access to hard to reach areas

- **Base Carrier - Condenser, rigid**
  LM 30H-34

**Pluggers**

- **Micro Packer 0.8 mm**
  LM 330-331

- **Plugger, cylindrical, 0.8-1.2 mm**
  LM 330-350

- **Plugger, cylindrical, 1.0-1.5 mm**
  LM 340-360
Pluggers, Burnishers

Plugger, cylindrical, 1.2-2.0 mm
LM 350-380

Plugger, cylindrical, 1.8-2.5 mm
LM 370-390

Triple-angled Back Action Plugger, 1.2-2.0 mm
LM 351-381

Burnishers

Burnisher
LM 31-32

Burnisher - Plugger, ball-ended, 1.5-2.5 mm
LM 471-473

Burnisher 27-29
LM 476-477

Burnisher 21
LM 372-373

Markley 2
LM 354-355
Instruments for esthetic restorative dentistry

Versatile instruments for cavity preparation, combining a trimmer and an excavator. Two different sizes for both mesial and distal instruments. The smaller is suitable for micro preparation and the larger one can be used for any other cavities. Available only with LM-ErgoMax (XSi) handle.

- **Trimmex Mesial 1 1.0 mm**
  LM 6122-6222 XSi

- **Trimmex Mesial 2 1.5 mm**
  LM 6322-6422 XSi

- **Trimmex Distal 1 1.0 mm**
  LM 6121-6221 XSi

- **Trimmex Distal 2 1.5 mm**
  LM 6321-6421 XSi

- **CMF Shaper**
  LM 44-45 XSi

For esthetic restorative dentistry

A tomahawk shaped instrument combining features of a carrier, modeller and a finisher.

- **Carrier**
- **Modeller**
- **Finisher**

Composite can be easily positioned into mesial and distal cavities, since the handle and the blade are in 45-degree angle.

Instrument works as an excess remover after light polymerization in all tooth surfaces, especially in class II restorations in interproximal surfaces.
Modeller – BrushHolder
LM 481-758 XSi
- a classical modeller PK Thomas 3 combined with a brush holder to hold and carry disposable micro brush application tips
- available only with LM-ErgoMax (XSi) handle

PK Thomas 3 has a long, conical tip. It can be used for both, adapting composite to any cavity margin and modelling cusps and fissures in order to obtain a natural and functional occlusal surface.

BrushHolder is a reliable and secure alternative to holders realized in plastic. The colour-coded application tips are used for applying liquid treatment agents to all dental surfaces or cavities.

See page 75 for more information on the Brush Application Tips.

For composites

Flow Instrument IO
LM 484-485 XSi
- for easy handling and shaping of flowable composites
- available only with LM-ErgoMax (XSi) handle

Modelling Instrument
LM 478-479

Packer-Modeller IO
LM 482-483
- conical working ends, which are exceptionally well-suited e.g. to shaping of occlusal surfaces and to packing of all kinds of plastics
- composites do not stick to the highly polished blades

Packer-Modeller IO p
LM 482-702
- combination instrument for premolars

Packer-Modeller IO m
LM 483-703
- combination instrument for molars
Plastic Instrument, anterior
LM 43-47

Plastic Instrument, posterior
LM 48-702

Form Condenser, 1.5-2.5 mm
LM 702-703

Composite Spatula 6
LM 446-447

Mini Spatula
LM 444-445

Carvers

1/2 Hollenback
LM 741-751

Nyström I
LM 74-75
  -now in new colour

Nyström III
LM 76-77
  -now in new colour

For composites, carvers
Maehlum
LM 71-73

Universal Carver, occlusal-proximal
LM 71-72

Cleoid-Discoid
LM 731-732

Excess scalers

Excess Scaler
LM 785-795
- for the removal of adhesive, cement, and composite excesses
- when razor-sharp, a very effective excess remover in approximal spaces

Mini Excess Scaler
LM 784-794
- an effective excess remover in extremely tight interdental spaces

Filling remover

Filling Remover
LM 764-766
- one blade probe-shaped, the other wedge-shaped
- for the removal of temporary fillings and crowns
- for bridge removal during fitting
Crown on and Crown off

Specially designed for placing and removing crowns, inlays, bridges and temporary laminates.
Available only with LM-ErgoMax (XSi) handle.

Crown On I
LM 761 XSi
- single-ended

Crown On II
LM 762-763 XSi
- blade double angled with a 45 degrees twist
- the flattened working end has a hollow in the middle to stabilize the instrument firmly on to the occlusal surface while pressing down the crown

Crown Off
LM 767-768 XSi
- blade double angled with a 45 degrees twist
- can be used for all types of levering and in the mouth

A groove is first burred from the lower edge of the crown up to the occlusal surface. The groove should be so deep that it reaches the cement. The Crown Off working end is placed longitudinally into the groove and turned as if spreading the groove. The blade is turned until the crown loosens and lifts up. The blade stays firmly in the groove and it is easy to control even when lot of force is used.
**Prophylactics**
- the removal of calculus from contact areas
- preparation for flossing and toothpick use
- when finishing proximal surfaces, the strip can serve as a toothpaste applicator

**Restoration**
- the finishing of proximal and contact surfaces
- preparation for both rubber dam and matrix techniques

**Aesthetic and Prosthetic Care**
- the finishing of cement seams on laminates, cast fillings, and crowns

**Orthodontics**
- enamel stripping

Use the LM code rings to mark pre-fitted strips for mesial (orange) or distal (blue) surfaces.

**Strip selection** package 50 pcs, coarseness 60µ

**Strips with blanks**
- LM 5502 one-sided 2 mm
- LM 5503 one-sided 3 mm
- LM 5503D double-sided 3 mm
- the smooth part of the strip is used when the contact is exceptionally tight

**Strips without blanks**
- LM 5512 one-sided 2mm
- LM 5513 one-sided 3mm
- LM 5513D double-sided 3mm
- Save and effective!
Endodontics

- Hand files and reamers
- Root canal explorer
- Root canal excavators
- Endo plugger
- Endodontic surgery
**LM-EndoMax**

LM’s endodontic hand files with large handles are supreme in ergonomics. Soft and thick silicone handle improves the grip and makes filing and rotating more comfortable. LM-EndoMax files and reamers adhere to the contour of the canal, cleaning all surfaces evenly and effectively.

- improved tactile sensitivity
- greater working comfort
- improved torque and force transmission
- visible identification stamples
- colour-coding according to ISO specifications

**LM-EndoMax**

**Reamers**

LM-Reamers have loosely twisted and flexible triangular cross-section instrument blades. The instrument is primarily designed for the apical preparation of straight canals, which is why the blade can also be used for cutting. For this instrument, a rotating preparation motion is the most effective.

**LM-EndoMax**

**K-Files**

LM’s K-Files have an extremely flexible triangular profile blade. The larger cutting angle enhances instrument use compared to a similar square profile instrument. Preparation waste can also be removed from the canal more easily, because there is more room in the instrument threads. The threads are tightly spaced and the tip is sharp, making the instrument ideally suited to the preparation of straight canals using filing and rotating motions. Small sizes (006 - 015) can also be used in preparation of curved canals. A short, back-and-forth preparation motion is most effective for the instrument.

**LM-EndoMax**

**Hedstroems**

The blade on LM-Hedstroem files is milled instead of twisted like on other root canal instruments. Especially well suited to procedures where space is made for the root canal orifice (coronal flare). Hedstroem files are only intended for use with filing, back-and-forth preparation motions.

**LM-EndoMax**

**NiTi Files**

The material used for NiTi files differs from that used for K-files, whereas the file form is the same on both. NiTi (Nickel-Titanium) is an elastic material, which will return to its original shape after bending or deformation. The instrument tip is not used for cutting, which makes LM NiTi instruments ideal for the preparation of curved canals. Both a filing and rotating preparation motion are suitable for these instruments.
## Hand files and reamers

### LM-EndoMax Reamers

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Root canal explorer

Root Canal Explorer
LM 27-28

- The instrument’s long, sharp tips facilitate the location and opening of root canals to provide access for proper preparation instruments.

Important! Only use the instruments for the purpose which they are intended!

Root canal excavators

- Root canal excavators have longer lower shanks and sharper blade angles than round excavators.

Root Canal Excavator, 1.0 mm
LM 612-622

Root Canal Excavator, 1.5 mm
LM 632-642

Root Canal Excavator, 2.0 mm
LM 652-662

- extended and correctly angled shanks as well as highly effective blade angles allow for the preparation of all types of pulp cavities
- effective for the cleaning of pulp chambers and location of root canals as well as the removal of temporary fillings
**Endo plugger**

Endo Plugger, 0.5 - 1.0 mm
LM 41-42
- tips 0.5 and 1.0 mm
- for the vertical plugging of root canal fillings

**Endodontic surgery**

For retrograde cavities.

*For the removal of demineralized dentin, gutta-percha and cement from the tip of the root.*

Apexcavator GFV 0.8 mm
LM 683-684
- mesial, distal and lingual surfaces

Apexcavator GFV 1.0 mm
LM 613-614
- mesial, distal and lingual surfaces

Apexcavator GFV 0.8 - 1.0 mm
LM 685-616
- buccal surfaces
Apex Packer
GFV 0.4 - 0.6 mm
LM 410-420

Apex Packer
GFV 0.8 - 1.0 mm
LM 430-440
Extraction

- Luxating instruments
- Elevators
**Elevators**

**LM extraction instruments**

New series of luxating instruments and elevators with familiar LM ergonomics and tactile sensitivity.

- Ergonomic design – comfortable to hold and easy to rotate
- Secure LM-ErgoTouch surface – light, non-slip grip
- Well-balanced – controlled grip
- Lightweight – easier on the hands
- Clear color-coding – easy identification
- LM-DuraGradeMAX supersteel – strong and sharp blades
- Tight seam at blade juncture – hygienic

**LM-TwistOut elevators**

LM-TwistOut instruments are suitable for tooth extraction in situations where strong force or torque must be applied.

**LM-TwistOut S3**
LM 814230
- straight 3 mm blade

**LM-TwistOut S5**
LM 814250
- straight 5 mm blade

**LM-TwistOut C3**
LM 814430
- curved 3 mm blade

**LM-TwistOut C5**
LM 814450
- curved 5 mm blade
LM-LiftOut luxating instruments allow tooth extraction to be done asatraumatically as possible. This is important in order to enable rapid healing and future implant placement. The thin tip of the instrument is introduced into the periodontal gap and slowly advanced toward the apex of the root while twisting the instrument gently back and forth. LM-LiftOut is not suitable for use as an elevator.

Important! Only use the instruments for the purpose which they are intended!

**LM-LiftOut S2**
LM 812220
- straight 2.5 mm blade

**LM-LiftOut S3**
LM 812230
- straight 3 mm blade

**LM-LiftOut S5**
LM 812250
- straight 5 mm blade

**LM-LiftOut C3**
LM 812430
- curved 3 mm blade

**LM-LiftOut C5**
LM 812450
- curved 5 mm blade
Maintenance of extraction instruments

Cassette for extraction instruments

LM-LiftOut and LM-TwistOut instruments are supplied in a convenient cassette that protects both the instrument and the handler during the maintenance cycle.

The cassette keeps the instrument from puncturing the sterilization pouch, so sterility is more likely to be assured. The cassette can be color-coded with the LM code buttons, see page 77.

The cassette for LM extraction instruments is compatible with LM-ServoMax tray, see page 76.

Sharpening stone
LM 818002

Sharpen the extractors occasionally using the round sharpening stone as a simple and quick way to keep them in top condition and always ready to use.
Orthodontics

- Removable appliances
- Ortho mirror handle
- Ligature applicators
- Arch wire tucker
LM-Activator™ is an orthodontic appliance for early orthodontic treatment and eruption guidance. It can also be used in the late mixed dentition or in the early permanent dentition.

The standardized, functional appliance is molded in a shape corresponding to the ideal occlusion in different sizes. A total of 37 different model and size combinations makes it possible to select an LM-Activator that is appropriate for the patient without the need for individual modifications.

LM-Activator simultaneously expands the dental arches, aligns teeth and brings the mandible forward for Class II correction.

**Premolded in the shape of the ideal occlusion in different sizes:**
- Aligns teeth
- Expands the arches
- Advances the mandible

**Elevated labial shield and lingual flanges** hold the mandible in the correct position while the patient is sleeping, preventing the appliance from dropping out – this is particularly beneficial for patients with excessive overjet.

**Four models** - different lengths and thickness of the molar section to meet the individual malocclusion and eruption characteristics of patients

**Tooth slots** to align incisors, canines, and first premolars

**Buccal and lingual walls** to align second premolars and molars

Made of safe and elastic silicone. Can be sterilized in an autoclave and disinfected in boiling water.

**Treatment and indications**

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<th>Early mixed Dentition</th>
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<td>✔</td>
<td>✔</td>
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<td><strong>Overjet, overbite</strong></td>
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<td><strong>Anterior crowding (incisors and canines)</strong></td>
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<td><strong>Dentoalveolar anterior crossbite of 1-2 teeth</strong></td>
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Skeletal Class III is a contraindication for using LM-Activator.
**LM-Activator Low**

**Low Short** - model with a shorter molar section for patients whose second molars have not yet erupted. Delivered in a yellow box.

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<tr>
<td>94070LS</td>
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</tbody>
</table>

**Low Long** - model with a longer molar section for patients whose second molars have erupted. Delivered in a blue box.

<table>
<thead>
<tr>
<th>Order code</th>
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<tbody>
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<td>94065L</td>
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</tr>
<tr>
<td>94070L</td>
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</tr>
</tbody>
</table>

**LM-Activator High**

The High-model of LM-Activator is thicker in the region of second premolars and molars. It is specifically designed for treating skeletal and dentoalveolar open bite cases.

**High Short** - model with a shorter molar section for patients whose second molars have not yet erupted. Delivered in an orange box.

<table>
<thead>
<tr>
<th>Order code</th>
<th>Size</th>
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<tbody>
<tr>
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</table>

**High Long** - Model with a longer molar section for patients whose second molars have erupted. Delivered in a green box.

<table>
<thead>
<tr>
<th>Order code</th>
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<tbody>
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<td>94065H</td>
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<tr>
<td>94070H</td>
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</table>
LM-Activator Starter Kit
LM 94500

The Starter Kit contains everything necessary to get started with LM-Activator: 24 pcs of the most commonly used models and sizes of LM-Activator, 5 pcs of OrthoSizer and handles, motivational patient material (posters, stickers and reward cards), and a silicone bur.

Motivational material

Patient compliance is essential for successful treatment. The first month is crucial in adopting the habit to use the appliance (because creating a habit in general requires 3-4 weeks of regularity). To motivate the patient and his/her family, age appropriate material is available for both preadolescents and adolescents. It is important to make sure the patient and his/her family understands that irregular use may be equivalent with no treatment at all.

Instructions for patients in English 30 pcs  LM 94533

Reward cards

Skateboard 65 pcs  LM 94511
Football/Soccer 65 pcs  LM 94512
Bicycle 65 pcs  LM 94513
Horse and rider 65 pcs  LM 94514

Patient motivational material poster & stickers) 15 pcs  LM 94531

A wall poster for tracking daytime and night-time use. It features a game-like progress path on which stickers are placed daily as recognition of successful use.
LM-OrthoSizer

LM-OrthoSizer is a measure for aiding the selection of the appropriate size. It measures the distance across the upper incisors (from the distal surface of the left lateral incisor to the distal surface of the right lateral incisor) and indicates the corresponding size. It can be used with or without its handle.

- LM-OrthoSizer with Handle (standard)  LM 942526
- LM-OrthoSizer with Handle (cone socket)  LM 942826
- LM-OrthoSizer without handle  LM 9400

Orthosizer is also compatible with mirror handle LM 25 and LM 28 XSi. See more on page 12.

LM-Trainer

- LM-Trainer Medium
  LM 94100T
  Slots for incisors and cuspids. Lip bumper.

- LM-Trainer Small
  LM 94100S
  Slots for incisors. Lip bumper. Smaller and softer than LM-Trainer Medium

- LM-Trainer Braces
  LM 94100TB
  Used in conjunction with brackets and wires. Brings the mandible forward for Class II correction. Prevents irritation and wounding of soft tissue. Lip bumper.
Orthodontic hand instruments

Mirror Handle, ortho
LM 25-26 XSi
- available only with LM-ErgoMax XSi handle
- for measuring the sagittal overjet and vertical overbite
- millimeter scale, total length 25 mm

Ligature On-Off SL
LM 414-17CL XSi
- available only with LM-ErgoMax XSi handle

Ligature Tucker
LM 414-415

Ligature Tucker - Scaler U15
LM 414-150

Plastic Ligature Applicator
LM 416-417

Arch Wire Tucker
LM 412-413 XSi
- available only with LM-ErgoMax (XSi) handle.

Bending the end of an arch wire can be problematic. Working space is limited and the wire rigid. Double-ended LM-Arch Wire Tucker facilitates the bending. The flattened ball-ends have 1 millimeter holes, where the wire can easily be placed and turned. The blade is long and fits well even in tight places.

The explorer-like end of the instrument can be used for both application and removal of ligatures. Ligatures can be lined up on the lower shank. The forked end is particularly suitable for guiding a ligature ring over e.g. the fourth wing of a bracket.
Other products

- Ultrasonics & polishing
- Instruments sets
- Special products
- Rational instrument handling and maintenance
LM-ProPower ultrasonic and polishing devices

LM-ProPowers are versatile ultrasonic and air polishing devices for professional dental care. Distinguished ergonomics combined with uniquely designed LED lighting, advanced electronics and high-durability LM-DuraGradeMAX tips make LM-ProPower devices outstanding for all procedures requiring great precision. In addition to scaling and polishing, they bring power to numerous other treatments on the diverse field of dentistry.

Three attributes of excellence Ergonomics – Economics - Hygiene

Pre-eminent handpiece ergonomics
LM-ProPower's 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 shells. In the autoclavable ultrasonic handpiece the water regulation is embedded, allowing easy and quick adjustment of spray.

Interchangeable and autoclavable silicone ErgoGrips

LM-ErgoGrip LED with wide ring lens and LM-ErgoGrip Focus LED with focused lens both guarantee 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.

ErgoGrips are removable and autoclavable, disposing of the need for buying several expensive handpieces. A few ErgoGrips will keep your practise running effectively patient after patient.

Smart touch panel
LM-ProPower’s uncomplicated control board simplifies the ultrasonic treatment and cleaning processes. Ultrasonic and polishing power is adjusted via working mode buttons on the board. The automated cleaning system is activated by pressing just one button.

Quick-connect containers
Easily changeable transparent medicament, 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.

Dynamic foot pedal

All LM-ProPower devices are available with tap water connector or with the quick-connect medicament/water dispenser. They can also be integrated into the dental unit.
LM-ProPower UltraLED - Ultronics beyond traditional

The features of the LM-ProPower UltraLED extend to all the areas of ultrasonic treatments. Its wide power range and a vast array of tips make it extremely adjustable for every procedure. This multi-purpose device offers ultrasonic solutions not only for traditional scaling and periodontics but also for endodontics, apical surgery including sterile treatments, implantology and restorative treatments.

- Four useful functions
  1. Diagnostic LED light
  2. Ultrasonic vibration with water
  3. Dry mode without water
  4. Irrigation mode without the vibration
- Water regulation in the handpiece
- Choosing the right working mode for the tip used will set the maximum power limit to the recommended level
- Automatic cleaning function is activated by pressing just one button
- Autoclavable handpiece

More information on tips see pages 65-70.

LM-ProPower AirLED – Superior visibility

LM-ProPower AirLED is the world’s first ever polisher with light. The powerful LED lights, precise powder jet and unique seamless construction ensuring reliable and continuous operation make the polisher a perfect tool for cleaning. Its functions cover cleaning operations in diverse areas of dentistry.

The AirLED provides superb visibility in diagnostics of discolouring 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 lightens the handpiece and makes controlling of the filling level easy.

Maximum hygiene
- Easy and efficient cleaning function ensures reliable and continuous operation.
- Seamless non-clogging construction keeps water and powder separate to the last second.
- Water jet cleaning for treated area is easily activated by foot pedal.
- The detachable and autoclavable nozzles are easy to clean.

Technical data

<table>
<thead>
<tr>
<th>LM-ProPower UltraLED</th>
<th>LM 100711 (tap water connector)</th>
<th>LM 100712 (liquid dispenser)</th>
</tr>
</thead>
<tbody>
<tr>
<td>L x W x H</td>
<td>270 x 140 x 165 mm (without bottle and powder container)</td>
<td>390 ml</td>
</tr>
<tr>
<td>Weight</td>
<td>190 g, 48-65 Hz</td>
<td>110 g, 58-80 Hz</td>
</tr>
<tr>
<td>Voltage</td>
<td>100 Vac, 50–60 Hz</td>
<td>115 Vac, 50–60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>Max. 40 VA</td>
<td>Max. 35 VA</td>
</tr>
<tr>
<td>Water consumption</td>
<td>18-50 ml/min</td>
<td></td>
</tr>
<tr>
<td>Bottle volume</td>
<td>500 ml (internal water supply)</td>
<td></td>
</tr>
</tbody>
</table>

LM-ProPower AirLED

| L x W x H            | 270 x 140 x 165 mm (without bottle and powder container) | 390 ml |
| Weight               | 3200 g                                                  |      |
| Voltage              | 100 Vac, 50–60 Hz                                       |      |
| Power consumption    | Max. 40 VA                                               |      |
| Water consumption    | 18-50 ml/min                                             |      |
| Bottle volume        | 500 ml (internal water supply)                          |      |

All inclusive intro kit
- 3 ErgoGrips
- 3 ultrasonic tips (PE-37, -40H, -41PS)
- 3 torque tip wrenches

LM-ProPower polishing powder (sodium) 8 x 180 g, LM 10076
- grain size 100-120 µm
**LM-ProPower CombiLED - Ultimate power tool**

LM-ProPower CombiLED conjoins the various features of the AirLed and the UltraLED into one versatile appliance that can be used for a wide range of ultrasonic and polishing treatments. It is an ultimate and undisputed power tool with a delicate touch.

**Technical data**

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
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<tbody>
<tr>
<td><strong>LM-ProPower CombiLED</strong></td>
<td>LM 10074 (tap water connector)</td>
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<td>270 x 140 x 165 mm (without bottle and powder container)</td>
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</tr>
<tr>
<td><strong>Voltage</strong></td>
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<tr>
<td></td>
<td>115 Vac, 50–60 Hz</td>
</tr>
<tr>
<td></td>
<td>230 Vac, 50–60 Hz</td>
</tr>
<tr>
<td><strong>Power cord</strong></td>
<td>Separate with protective earthed plug</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>Max. 40 VA</td>
</tr>
<tr>
<td><strong>Scaler power consumption</strong></td>
<td>Max. 24 VA</td>
</tr>
<tr>
<td><strong>Scaler power output</strong></td>
<td>Max. 10 W (24–28 kHz, automatic tuning)</td>
</tr>
<tr>
<td><strong>Water supply pressure</strong></td>
<td>1–10 bar (0,1–1,0 MPa, 14,5–145 PSI) with external water supply</td>
</tr>
<tr>
<td><strong>Water consumption</strong></td>
<td>10–50 ml/min</td>
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<tr>
<td><strong>Bottle volume</strong></td>
<td>500 ml (internal water supply)</td>
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<tr>
<td><strong>Air supply pressure</strong></td>
<td>4–10 bar (0,4–1,0 MPa, 58–145 PSI)</td>
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<tr>
<td><strong>Air consumption</strong></td>
<td>Max. 20 l/min</td>
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<tr>
<td><strong>Powder container capacity</strong></td>
<td>45 g</td>
</tr>
</tbody>
</table>

**LM-ProPower sterile solutions**

**LM-ProPower SteriLED**

LM-ProPower SteriLED handpiece features superior ergonomics, light-weight and well balanced design. No extra components are required for liquid supply to be added on the handpiece. The handpiece has most efficient LED light for optimal visibility. It is quickly and easily detached and sterilised. LM-ProPower SteriLED is to be connected to the LM-ProPower UltraLED scaler hose.

The handpiece is compatible with the normal range of LM tips. There are wide range of periodontic, endodontic and special tips available for sterile or medicament applications, see pages 65-70.

**LM-ProPower SteriKit**

LM 10080

Safe and reliable sterile system that bypasses current water supply completely. The SteriKit has pressurized irrigation system which allows easy and cost efficient installation. No need for expensive peristaltic pump. SteriKit is compatible with every Amdent and LM ultrasonic device.

**New!**

LM-ProPower SteriKit contains a pressurised bag with a hook, a manometer, a pump and an irrigation set. Accessories: SteriKit hanger LM 10081, and irrigation set LM 10083.
**LM ultrasonic tip range**

**Highest quality for all your needs**
- Slim design - better reachability and less shadows
- Extremely durable LM-DuraGradeMAX steel - high wear resistance
- Full range – solutions for periodontics, endodontics, apical surgery and restorative treatments
- Working mode coding – easy and safe setting of power
- Compatible with LM and Amdent devices

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

**Wrench selection**
- Universal tip wrench
  - LM 10089S
- Torque tip wrench
  - LM 10088S
  - hexagonal design
  - LM 10088
- Wrench for file holders
  - LM 10087
- Universal plastic tip wrench
  - LM 10089

**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**
- **PE-31**
  - LM 100131
  - Used for lingual, buccal and approximal supragingival scaling.
- **PE-32**
  - LM 100132
  - Used for lingual and buccal supragingival scaling.
- **PE-39**
  - LM 100139
  - Used for universal, lingual and buccal supragingival scaling.
- **PE-41A**
  - LM 100141A
  - Used for universal, lingual and buccal supragingival scaling.
- **PE-37**
  - LM 100137
  - Universal tip especially developed for subgingival scaling, furcations, supragingival fine scaling and spot removal.
- **PE-37L**
  - LM 100137L
  - Universal tip for subgingival scaling, furcations, supragingival fine scaling and spot removal. Tip angled to left for better access to furcations.
## Ultrasonic tips

### Universal

<table>
<thead>
<tr>
<th>Code</th>
<th>LM</th>
<th>Description</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE-37R</td>
<td>LM 100137R</td>
<td>Universal tip for subgingival scaling, furcations, supragingival fine scaling and spot removal. Tip angled to right for better access to furcations.</td>
<td><img src="image1" alt="Image" /></td>
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<tr>
<td>PE-41PF</td>
<td>LM 100141PF</td>
<td>Used for lingual, buccal and approximal supragingival scaling.</td>
<td><img src="image2" alt="Image" /></td>
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<tr>
<td>PE-41P</td>
<td>LM 100141P</td>
<td>Used for universal, lingual and buccal supragingival scaling. Can also be used for shallow pockets.</td>
<td><img src="image3" alt="Image" /></td>
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</tbody>
</table>

### Periodontics

<table>
<thead>
<tr>
<th>Code</th>
<th>LM</th>
<th>Description</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE-33R</td>
<td>LM 100133R</td>
<td>Used for subgingival scaling and furcations. Tip angled to right for better access to furcations.</td>
<td><img src="image4" alt="Image" /></td>
</tr>
<tr>
<td>PE-33L</td>
<td>LM 100133L</td>
<td>Used for subgingival scaling and furcations. Tip angled to left to left for better access to furcations.</td>
<td><img src="image5" alt="Image" /></td>
</tr>
<tr>
<td>PE-33</td>
<td>LM 100133</td>
<td>Used for subgingival scaling and furcations. Tip angled to left to left for better access to furcations.</td>
<td><img src="image6" alt="Image" /></td>
</tr>
<tr>
<td>PE-38R</td>
<td>LM 100138R</td>
<td>Used for lingual and buccal subgingival scaling and furcations. Also suitable for supragingival fine scaling and spot removal. Tip angled to right for better access to furcations.</td>
<td><img src="image7" alt="Image" /></td>
</tr>
<tr>
<td>PE-38L</td>
<td>LM 100138L</td>
<td>Used for lingual and buccal subgingival scaling and furcations. Also suitable for supragingival fine scaling and spot removal. Tip angled to left to left for better access to furcations.</td>
<td><img src="image8" alt="Image" /></td>
</tr>
<tr>
<td>PE-38</td>
<td>LM 100138</td>
<td>Used for lingual and buccal subgingival scaling and furcations. Also suitable for supragingival fine scaling and spot removal. Tip angled to left to left for better access to furcations.</td>
<td><img src="image9" alt="Image" /></td>
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</table>

### Scaling

<table>
<thead>
<tr>
<th>Code</th>
<th>LM</th>
<th>Description</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE-40R</td>
<td>LM 100140R</td>
<td>Used for deeper subgingival scaling and molar furcations. Tip angled to right for better access to furcations.</td>
<td><img src="image10" alt="Image" /></td>
</tr>
<tr>
<td>PE-40H</td>
<td>LM 100140H</td>
<td>Used for deeper subgingival scaling. Especially suitable for lingual scaling of incisors.</td>
<td><img src="image11" alt="Image" /></td>
</tr>
<tr>
<td>PE-40L</td>
<td>LM 100140L</td>
<td>Used for deeper subgingival scaling and molar furcations. Tip angled to left to left for better access to furcations.</td>
<td><img src="image12" alt="Image" /></td>
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<tr>
<td>PE-41PS</td>
<td>LM 100141PS</td>
<td>Used for deeper lingual and buccal subgingival scaling. Also suitable for supragingival fine scaling and spot removal.</td>
<td><img src="image13" alt="Image" /></td>
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</table>

### Working mode coding

<table>
<thead>
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<th>Mode</th>
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<tr>
<td>Max 40 %</td>
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</tr>
<tr>
<td>Max 70 %</td>
<td><img src="image15" alt="Image" /></td>
</tr>
<tr>
<td>Max 100 %</td>
<td><img src="image16" alt="Image" /></td>
</tr>
</tbody>
</table>
Scaling

LM 100301 Pack of 4
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.

IM-2
LM 100302 Pack of 4
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.

Minimally invasive restoration

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.

MI-1
LM 100601
Straight tip, used primarily for incisors and more accessible surfaces.

MI-2
LM 100602
Slightly contra-angled, used for lingual and buccal work on molars.

MI-3
LM 100603
Contra-angled, used on lingual, buccal and distal areas.

MI-4
LM 100604
Heavily contra-angled, used on lingual, buccal and distal areas on molars and furcations.

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

EN-1
LM 100201
Ball shaped. 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. Length 17 mm.

EN-2
LM 100202
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. Length 17 mm.

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. Length 17 mm.

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. Length 16 mm.

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.
**Ultrasonic tips**

### Ultrasonics & polishing

#### Canal preparation

<table>
<thead>
<tr>
<th>Tip Code</th>
<th>Catalogue Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN-5</td>
<td>LM 100205</td>
</tr>
<tr>
<td>EN-6</td>
<td>LM 100206</td>
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<tr>
<td>EN-7</td>
<td>LM 100207</td>
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<tr>
<td>EN-8</td>
<td>LM 100208</td>
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<td>EN-9</td>
<td>LM 100209</td>
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<td>EN-13</td>
<td>LM 100213</td>
</tr>
<tr>
<td>EN-14</td>
<td>LM 100214</td>
</tr>
</tbody>
</table>

**EN-5**
- LM 100205
- Used in the coronal and apical part of root canals. Amongst other things the tip can be used to remove posts, widen calcified canals, remove hard fillings, and remove broken instruments and other intra-canal obstructions. Length 17 mm.

**EN-6**
- LM 100206
- Primarily used in the coronal area of the root canal to remove around roots. Also for chasing calcified canals halfway up a root. The water supply is placed at the farest extremity of the tip for increased rinsing and cooling of the treated area. Length 19 mm.

**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. Length 19 mm.

**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. Length 24 mm.

**EN-9**
- LM 100209
- Length 20 mm.

**EN-10**
- LM 100210
- Length 24 mm.

**EN-11**
- LM 100211
- Length 27 mm.

**EN-12**
- LM 100212
- Length 25 mm.

**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, middle and apical part of root canals. Used to remove posts, widen calcified canals, remove hard fillings, remove broken instruments and other intra-canal obstructions. Available in a pack of four. Length 17 mm.

**EN-14**
- LM 100214
- Used in combination with the instrument holders IH-1, IH-2, IHS-1 or IHS-2. Used as a plugger for lateral condensation of gutta-percha. Available in a pack of four. Length 25 mm.

#### 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.

---

**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

<table>
<thead>
<tr>
<th>File Code</th>
<th>Catalogue Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH-1</td>
<td>LM 100401</td>
</tr>
<tr>
<td>FH-2</td>
<td>LM 100402</td>
</tr>
<tr>
<td>FH-3</td>
<td>LM 100403</td>
</tr>
</tbody>
</table>

**FH-1**
- LM 100401
- 70° angle.

**FH-2**
- LM 100402
- 90° angle.

**FH-3**
- LM 100403
- 110° angle.
**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.

**File and instrument holders**

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IH-1</td>
<td>LM 100404</td>
<td>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. 125° angle. Working mode coding: See chosen instrument</td>
</tr>
<tr>
<td>IH-2</td>
<td>LM 100405</td>
<td>IH-2 has the same shape and area of use as IH-1. 100° angle. Working mode coding: See chosen instrument</td>
</tr>
<tr>
<td>IH-3</td>
<td>LM 100406</td>
<td>Designed for use on molar roots in the maxillary right and mandibular left. Diameter 0.5 mm. 75° angle.</td>
</tr>
<tr>
<td>IH-4</td>
<td>LM 100407</td>
<td>Designed for use on molar roots in the maxillary right and mandibular left. Diameter 0.5 mm. 110° angle.</td>
</tr>
</tbody>
</table>

**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. Apical surgery tips 3-8 are also available as sterile versions. See page 70 for more information!
Ultrasonic tips

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.

SP-34
LM 100734
Used for removing crowns and inlays.

SP-34S
LM 100734S
Same shape and area of use as SP-34, but with a smaller diameter to make inaccessible areas reachable.

SP-35
LM 100735
Used for amalgam condensation.

SP-35A
LM 100735A
Used for applying thixotropic cementation together with crowns and inlays. The extremity of the tip is covered in plastic, so it does not damage the crown or inlay.

SP-35B
LM 100735B
Same shape and area of use as SP-35A, but with a considerably more open angle.

SP-35C
LM 100735C
Same shape and area of use as SP-35B, but with a considerably more open angle.

Sterile treatment

Tips for sterile apical surgery. Treatment can be done with sterile water or disinfectants. 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.

More information about the ProPower SteriKit see page 64.

APs-3
LM 100803
Tip for sterile treatment, L, as a universal tip on all teeth. The outermost 3 mm of the tip is diamond-coated to enable effective removal of tooth substance. Diameter 0.5 mm. 80° angle.

APs-4
LM 100804
Tip for sterile treatment. Same shape and area of use as AP-3s, but with 0.7 mm in diameter making it more suitable for larger roots. 80° angle.

APs-5
LM 100805
Designed for sterile treatment of molar roots in the maxillary right and mandibular left. Diamond coating 3.0 mm. Diameter 0.5 mm. 75° angle.

APs-6
LM 100806
Designed for sterile treatment of molar roots in the maxillary right and mandibular left. Diamond coating 3.0 mm. Diameter 0.5 mm. 110° angle.

APs-7
LM 100807
Designed for sterile treatment of molar roots in the maxillary left and mandibular right. Diamond coating 3.0 mm. Diameter 0.5 mm. 75° angle.

APs-8
LM 100808
Designed for sterile treatment of the molar roots of molars in the maxillary right and mandibular left. Diamond coating 3.0 mm. Diameter 0.5 mm. 110° angle.

IHs-1
LM 100801
See chosen instrument

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. 125° angle.

IHs-2
LM 100802
See chosen instrument

Same shape and area of use as IHs-1. 100° angle.
Instrument sets

LM-PerioSet 1
LM 6652 Si / XSi
LM-Servo 5
Mini Sickle
Curette McCall 17-18
Gracey 1/2
Gracey 11/12
Gracey 13/14

LM-PerioSet 2
LM 6682 Si / XSi
LM-Servo 8
Mini Sickle
Curette McCall 17-18
Gracey 1/2
Gracey 9/10
Gracey 11/12
Gracey 13/14
Mini Gracey 15/16
Mini Gracey 17/18

LM-DiagnoSet
LM 6651 Si / XSi
LM-Servo 5
Mirror Handle & mirror
Explorer LM 5-8
WHO Probe LM 550B
Round Excavator 1.5 mm
Tweezers

LM-CompoSet
LM 6657 Si / XSi
LM-Servo 5
Mini Spatula
Plastic instrument, ant.
Form Condenser
Packer-Modeller IO
Mini Excess Scaler

Dr. Seeberger:
LM-EstheticSet
LM 6810 XSi
LM-Servo 5
Mirror Handle and mirror
Trimmex Mesial 1
Trimmex Distal 1
CMF Shaper
Modeller - BrushHolder
Available only with
LM-ErgoMax (XSi) handle.

LM-Fancy5
LM 6820 XSi
LM favourites in pastel colours.
LM-Servo 5
ErgoSingle mirror handle and mirror
Explorer - Periodontal probe 23-520B
Micro Sickle
Gracey 11/12
Gracey 13/14
Available only with LM-ErgoMax (XSi) handle.
Are you setting up a new dental practice or updating your instruments? The LM-IntroKit is an affordable introduction package, consisting of five basic instrument sets. The IntroKit contains two diagnostic sets, one endodontic set, one preparation set and one periodontic set.

**Diagnostic Set**
- LM-Servo 5
- Mirror handle and mirror
- Tweezers
- Explorer – WHO Probe 8-550B
- Mini-Sickle

**Preparation Set**
- LM-Servo 8
- 2 x Mirror handle and mirror
- Tweezers
- Explorer 5-8
- Round Excavator, 1.5 mm
- Plastic instrument, posterior
- Carver Nyström III
- Burnisher 31-32

**Endodontic Set**
- LM-Servo 8
- Tweezers
- 2 x Mirror handle and mirror
- Explorer 5-8
- Round Excavator, 1.5 mm
- Carver Nyström III

**Periodontic Set**
- LM-Servo 8
- Mirror handle and mirror
- Tweezers
- Explorer 5-8
- Mini-Sickle
- Gracey 1/2
- Gracey 7/8
- Gracey 11/12
- Gracey 13/14

Instruments in the LM-IntroKit are always with LM-ErgoMax handles.
**LM-MultiHolder system**

Two Multi-Holder instruments and different kinds of replaceable plastic working ends – a real multi-function instrument!
- angle options allow for easy access to even the more complex areas
- optimal combination of steel and plastic – the steel shank is rigid and only the working end will flex, when required

**LM-MultiHolder PK I**
LM 750-756

**LM-MultiHolder PK II**
LM 752-754

**LM-MultiLever**
LM 7550

For the removal of plastic working end we recommend LM-MultiLever.

---

**Working ends for LM-MultiHolder**

**LM-Contact Formers**
Transparent tip for making correctly formed and tight interproximal contact.
- suitable for use with all matrices
- will not stick to composite fillings
Four sizes corresponding to the size of the cavity, circa 60 pcs / package
LM 7622 XS
LM 7624 S
LM 7626 M
LM 7628 L
LM 7620 Assortment package circa 120 pcs (30 pcs / size)

**LM-Gingival Retractors**
For establishing optimum working conditions for procedures at the gum line.
Three sizes, circa 60 pcs / package
LM 7502 S for incisors
LM 7504 M for premolars
LM 7506 XL for molars
LM 7500 Assortment package circa 90 pcs (30 pcs / size)
**Special products**

**LM-MultiHolder system, surgical handles**

**LM-Cervical Matrices**
For making anatomically correct fillings at the gum line
- protects from moisture
- prevents air bubbles
Four models for different size and shape, circa 60 pcs / package
LM 7602 for incisors
LM 7604 for canines and premolars
LM 7606 for small molars
LM 7608 for large molars
LM 7600 Assortment package circa 120 pcs (30 pcs / model)

**LM-MultiHolder IntroKit**
LM 7555K
The introduction kit contains LM-MultiHolder instruments PK I and PK II (XSi), a MultiLever and samples of all available working ends. There are a total of 44 working ends, 4 for each size of each working end.
You may order LM-MultiHolder IntroKit sample package also separately. LM 7555

**LM-CompoKnife**

**LM-CompoKnife**
LM 9006
A multipurpose knife for the wide-ranging needs of dental care
- precise, strong and sharp handling
- round silicone handle
- good feel in the hand
- the blade can easily be maneuvered on the various surfaces of the tooth
- the blade is deeply set, with the shaft preventing the blade from damaging soft tissue and allowing for the use of great tractive and lateral force when carving out excess material
LM-ErgoHold 3

LM-ErgoHold 3
LM 9003
A new type of surgical handle
- excellent grip
- precise blade control
- controlled rotation
- blade position responsiveness maintained
- controlled movement through tissue
- no. 3 fitment
- elastic silicone coating

LM-MultiSeptor

Effective and easy-to-use saliva ejector
LM-MultiSeptor keeps the area being treated dry – both lingual and buccal. It functions equally well on both the upper and lower jaw.
- can easily be formed to the desired shape
- comfortable for the patient
- leaves ample space for procedures
- an invaluable aid when working unassisted.
The MultiSeptor is compatible with all standard suction units.
Care: disinfect, rinse, remove connections clean, and sterilize. Connections must be cold-sterilized.

LM-MultiSeptor, 40 cm
LM 2020
LM-MultiSeptor, 50 cm
LM 2020A
Spare Parts
Replacement tubes = 5 tubes (40 cm) + spring
LM 2021
Replacement tubes = 5 tubes (50 cm) + spring
LM 2021A

Brush Application Tips

Brush Application Tips are for one time use only!
- used for applying liquid treatment agents to all dental surfaces or cavities
- excellent for placing cavity liners, bonding and priming agents and etchants

Brush Application Tip, 50 pieces
LM 758Y yellow
LM 758B blue
LM 758R red
Use Brush Application Tips together with LM-BrushHolder (LM 481-758 XS).
See page 40 for more information on the BrushHolder.
**Rational instrument handling**

**Tray system**

**LM-ServoMax - optimal work flow & rational maintenance**

New LM-ServoMax tray system organises and rationalises the handling of dental instruments and accessories during the procedures and maintenance. It facilitates good infection control and saves time by reducing the handling of individual items. It also prolongs the life span of instruments and protects the personnel. Its versatile modules keep all instruments and accessories organised in a single tray. The system is adaptable to treatment specific and individual needs.

**Rational maintenance with minimal handling**

- After treatment the modules are closed and waste is discarded.
- The complete tray is sent to maintenance for disinfection and cleaning.
- Sterilise and store until the next treatment.

**LM-ServoMax modules**

**LM-ServoMax tray set**
LM 6410
 incl. 1 set of universal trappers and 2 metal clips
- dimensions: 288 x 185 x 29 mm

**LM-ServoMax universal trapper, 2 pcs**
LM 6416

**LM ServoMax metal clips, 2 pcs**
LM 6415

**For accessories**

**LM-ServoMax standard case**
LM 6420

**LM-ServoMax restauration/endo case**
LM 6430

**LM-ServoMax foam, 20 pcs**
LM 6435
- for cleaning the endo files

**LM-ServoMax ultrasonic tip case**
LM 6460
- for six ultrasonic tips
**Rational instrument handling**

**Tray system, Coding products**

**LM-ServoMax bur / endofile case**
LM 6450
- for eight burs and fourteen files
- includes adjustment and measuring scales for files

**LM-ServoMax waste cup holder**
LM 6490

---

**For hand instruments**

In LM-Servo cassettes the instruments are locked securely but rotate freely for optimal cleaning and guaranteed infection control. The cassettes can be coded with silicone code buttons and attached to the LM-ServoMax tray with metal clips (LM 6415)

**LM-Servo 5**
LM 6650
- for five instruments
- dimensions: 180 x 86 x 28 mm

**LM-Servo 8**
LM 6680
- for eight instruments
- dimensions: 180 x 136 x 28 mm

---

The cassette for LM extraction instruments is compatible with LM-ServoMax tray, see page 54.

All modules have a universal design with standard dimensions and are not manufacturer specific. They are made of exceptionally durable special plastic which tolerate all common cleaning and sterilisation methods and agents (max 134 °C / 273°F). Modules are sold empty.

---

**Coding products**

**Code buttons**
On both of the Servo cassettes sides there are holes for three code buttons
- package 20 pcs/colour

**Code rings**
For coding hand instruments
- package 50 pcs/colour

<table>
<thead>
<tr>
<th>Color</th>
<th>Code Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>LM 6000</td>
</tr>
<tr>
<td>Green</td>
<td>LM 6001</td>
</tr>
<tr>
<td>Orange</td>
<td>LM 6002</td>
</tr>
<tr>
<td>Red</td>
<td>LM 6003</td>
</tr>
<tr>
<td>Yellow</td>
<td>LM 6004</td>
</tr>
<tr>
<td>Brown</td>
<td>LM 6005</td>
</tr>
<tr>
<td>Lavender</td>
<td>LM 5008</td>
</tr>
</tbody>
</table>

LM 5000 black
LM 5000 green
LM 5000 red
LM 5000 orange
LM 5000 yellow
LM 5005 black
LM 5006 white
LM 5007 brown
LM 5008 lavender
LM-RondoPlus sharpening machine

Instruments used in treating hard tissue blunt quickly, naturally compromising efficiency and results. Periodontal instruments should be sharpened regularly.

**Easy and quick**
- simple method - the blade is held in the correct sharpening position and the grinding stone rotates
- sharpening one instrument only takes a few seconds

**Versatile**
- for both periodontal and preparation instruments
- for both right or left-handed
- the direction of rotation can be selected

**Accurate and safe**
- a dual-position instrument rest. The upper position is for preparation instruments and the lower for periodontal instruments
- the original blade form is preserved
- low rotational speed - the blade will not heat up nor will its temper be affected

The fine-grain ceramic stone is 400 grit. Finer and coarser sharpening stones are available as spare parts.

On either side of the LM-RondoPlus there are LM-Fingo test sticks. Sharpness can be tested both with Fingo mounted on the LM-RondoPlus or your finger. The Fingo is made of an acrylic plastic and is sized to fit all users.

**LM-RondoPlus**
**LM 8600**
Package includes: sharpening machine, foot pedal, 400 grit sharpening stone, 2 LM-Fingos, 5 emery tapes, instruction CD and quick guide.

**Spare Parts**

<table>
<thead>
<tr>
<th>Grinding stone</th>
<th>LM 8660</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 grit (white)</td>
<td></td>
</tr>
<tr>
<td>400 grit, coarser (grey)</td>
<td>LM 8640</td>
</tr>
<tr>
<td>320 grit, coarsest (black)</td>
<td>LM 8632</td>
</tr>
<tr>
<td>Foot pedal</td>
<td>LM 8630</td>
</tr>
<tr>
<td>Emery tapes, 5 pcs</td>
<td>LM 8550</td>
</tr>
<tr>
<td>LM-Fingo, 2 pcs</td>
<td>LM 8602</td>
</tr>
<tr>
<td>LM-Fingo, 6 pcs</td>
<td>LM 8606</td>
</tr>
</tbody>
</table>

**LM-ProColor instrument disinfectant**

**Effective protection**
LM-ProColor is a new aldehyde-free disinfectant for hand instruments that combines a wide effective spectrum, high cleaning power and composition that protects various materials. LM-ProColor is also suitable for use in ultrasonic cleaners.

**Safe and long-lasting**
LM-ProColor is a long-lasting concentrate, whose pleasant aroma and colour enhance user comfort. One two-liter bottle produces 100 liters of cleaning solution.

**Composition:** 100 g LM-ProColor contains: 9 g alkylbenzyl-dimethylammonium chloride, 0.1 g guanidine compound, non-ionic surfactants, alkaline detergents, corrosion inhibitors, adjuvants in aqueous solution.

**Effective spectrum:** bactericidal inclusive of TB bacteria, fungicidal, virucidal (enveloped viruses, HBV1, HCV2, HIV3).

1) by electron microscopy
2) Test for BVDV surrogate virus
3) Effectiveness against HBV implies effectiveness against HIV.

LM-ProColor
**LM 4100**
2 l concentrate
Instructions for instrument maintenance

1. Pre-disinfection
Do not leave dirty instruments dry - put them into disinfecting solvent as soon as possible. Chemical disinfectant LM-ProColor is recommended. Pay close attention to the correct dosages and exposure times. If you are using a thermodisinfector, skip service cycle steps 1-5.

2. Rinsing
Rinse instruments thoroughly under warm running water.

3. Cleaning
Washing machine
Hand wash: Remove all visible dirt with warm water. Use a soft brush and detergent
Ultrasonic cleaner: use instrument cassettes to prevent damage

4. Rinsing
Rinse instruments thoroughly under warm running water.

5. Drying
Dry instruments before sterilization

6. Inspection and sharpening
Sharpen, service or replace instruments, if necessary

7. Packing
Pack serviced and cleaned instruments for sterilization

8. Sterilization
Autoclave: place clean, dry and properly packed instruments into the autoclave.
Hot-air sterilization: place clean, dry and properly packed instruments into the hot-air sterilizer; do not fit them in too tightly; ensure that temperature is correct (max. 180°C/355°F).

Important!
- regularly service the machines
- follow all user instructions
- pay special attention to correct dosage and exposure
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Limited Warranty

The following warranty terms apply to the sale of LM-Instrument Oy’s products (hereinafter “Products”) to a purchasing company or individual by LM-Instruments Oy (hereinafter “Manufacturer”).

Manufacturer hereby warrants that the Products will be free from defects arising from faulty materials or workmanship for a period of twenty four (24) months from the date of purchase by a customer from Manufacturer’s authorized dealer (hereinafter “Authorized Dealer”). The warranty period is exceptionally three (3) months for products with a life inherently shorter than 24 months due to normal wear and tear, for example tips of hand instruments, tips of ultrasonic scalers, tips of endodontic files, front surface mirrors and grinding stones of sharpening devices.

This warranty shall not apply to Products or parts thereof;
   a) which have been subject to abuse, misuse, negligence or accident or are not connected to proper power supply;
   b) to which any modification, alteration or attachment has been made without written consent of the Manufacturer; or
   c) which are installed or operated violating instructions for installation, use and maintenance;
   d) which are normally consumed in operation for example working tips of LM-MultiHolder, strips for LM-Cello, LM-ProColor disinfection solution.

The sole and exclusive remedy under this warranty shall be limited to correct or circumvent the errors or to repair or replacement of defective parts of Products by the Manufacturer, EXW Manufacturer’s factory, providing that a written claim of the defect is sent to the Manufacturer within the warranty period and the original part is returned to Manufacturer’s factory by the Authorized Dealer, and Manufacturer’s inspection establishes the existence of such a defect.

The customer must contact the Authorized Dealer from whom the products were purchased to request repair or replacement under this warranty and a written claim of the defects and send the original Product the Authorized Dealer.

This warranty is void if service or repair is performed by persons not authorized by the manufacturer.

Any Products not manufactured by the Manufacturer, carries only such warranty, if any, as given by any manufacturer thereof.

This warranty is the Manufacturer’s only warranty in respect of the Products and the Manufacturer disclaims all other warranties, whether of merchantability, fitness for particular purpose or otherwise, guarantees and liabilities, express or implied, arising by law or otherwise. In no event shall the Manufacturer be liable for any general, consequential or incidental damages, loss of use or loss of profits by reason of the manufacturer’s negligence or otherwise in connection with the sale, delivery, installation, repair or use of the Products.

The Manufacturer shall have no liability whatsoever to the Authorized Dealer or customer or any other person for or on account of any injury, loss or damage of any kind or nature, sustained by, or any damages assessed or asserted against, or any other liability incurred by or imposed upon the handling, use, operation, maintenance or repairs of Products by anyone other than the Manufacturer. This exclusion of liability does not apply pursuant to the laws on product liability in case of personal injury and property damage to privately used objects resulting from the Products.