

The background of the advertisement features a light blue gradient with abstract, flowing lines in shades of pink, orange, and green in the upper left corner. Two dental instruments are prominently displayed: a green-handled probe on the left and a large orange-handled scaler on the right. The orange handle has a ribbed texture. A bright, multi-faceted diamond is positioned near the tip of the orange instrument, emitting a starburst light effect. The overall aesthetic is clean and professional, emphasizing the quality and precision of the dental tools.

LM

feel the  
difference

ENJOY PERIO.


SHARPEN  
FREE

**LM**Dental

The logo consists of the letters 'LM' in a white, bold, sans-serif font, centered within a solid blue square.

LM

feel the  
difference

A close-up portrait of a young woman with brown hair tied back, smiling warmly at the camera. She is wearing a white lab coat over teal-colored scrubs. A white surgical mask is pulled down below her chin. In the blurred background, another person in teal scrubs and a white mask is visible.

We reserve the right to make any changes.

# Your skills are worth LM

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. Our radical product theses of the 1980s – a thicker handle, optimized shape, elastic surface, lightness and color coding – have become industry wide standards in the 21st century.

The ergonomics has been the guiding light of our product development since the establishment of the company. Based on new research we now know more than ever about ergonomic instrumentation. The result is LM-ErgoSense, a future icon in dentistry. With contemporary coating technology we are able add on additional features, that offer unique benefits for you and your patient. Sharpen free periodontal and non-stick restorative instruments are finally reality.

In addition to the new level of ergonomics, LM-ErgoSense offers new opportunities with its built-in RFID technology, which together with scanning readers and software create a unique Dental Tracking System.

You can feel the difference and so does your most satisfied patient.

## 4 LM-DENTAL

LM-Dental  
Sharp Diamond  
LM-ErgoSense & Dental Tracking System  
Handle selection

## 10 DIAGNOSTICS

Mirror handles  
Explorers  
Periodontal probes  
Furcation probes  
Diagnostic instrument set

## 18 PERIODONTICS

Sharp Diamond  
Sickle scalers  
Universal curettes  
Special instruments  
Gracey finishing curettes  
LM-ErgoMix instruments  
Implant series  
Instrument sets

## PLANMECA

LM-Dental is part of the Planmeca Group,  
one of the world's leading manufacturers of  
dental equipment.

[www.planmeca.com](http://www.planmeca.com)



# The pioneer in INSTRUMENT ERGONOMICS

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 optimized 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.

Still today our aim in product development is to innovate together with the clinicians. Based on new research we now know more than ever about ergonomic instrumentation. The result is LM-ErgoSense, which fits the hand perfectly, enables relaxed grip and offers ultimate tactile sensitivity.

## To sharpen or not to sharpen?

That is the question, but in both cases LM periodontal instruments are ultimate in metallurgy. The high wear resistance and hardness of the blade metal makes them efficient, long-lasting and comfortable.

Resulting from the advanced material technical research and contemporary micro coating technology LM can offer the highest quality in both uncoated and coated product categories.

- The micro coated Sharp Diamond instruments are completely sharpen free and razor sharp.
- If you wish to resharpen the uncoated LM-DuraGradeMAX supersteel offers you the ultimate wear resistance.

According to independent research studies, the wear resistance of LM curettes is significantly better than that of the comparative instruments. The choice is yours.

Elastic, ergonomic surface material and optimal contouring  
- comfortable and non-slip grip

Special alloyed metal core  
- lightweight structure  
- metal-to-metal connection for enhanced tactile sensitivity

Optimal rigidity  
- excellent sensitivity and efficiency  
- outstanding corrosion resistance

Hand-finishing  
- sharp cutting edge

Precision formed tips  
- extremely sharp, smooth cutting edge

UNCOATED

### LM-DuraGradeMax supersteel

- High wear resistance
- Immune to corrosion
- Can be resharpened

## High-tech production technology

Like every true professional we also aim for the ultimate perfection in our work. LM-Dental 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. 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.



# Enjoy sharpen free perio

Opposites attract. This holds true with high-quality, periodontal instruments. Optimally they are razor sharp, extremely hard, yet smooth and light. A new micro membrane coating made using modern Physical Vapor Deposition (PVD) technology enables LM to create Sharp Diamond instruments with the optimum combination of these features. Sharp Diamonds are completely sharpen free, tough but refined, offering unique benefits for you and your patient.

*"It's great that I don't need to waste my time on sharpening any longer! Since the Sharp Diamond instruments are totally sharpen free, I can concentrate on the clinical work. Even my patients have noticed how these instruments feel more comfortable and are quieter. I can remove calculus with controlled strokes using extremely light grip. The long-lasting sharpness really makes a difference!"*

Anna, Registered Dental Hygienist, USA

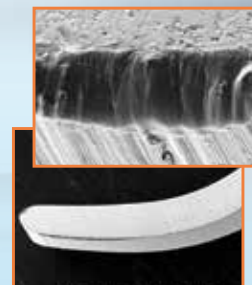
COATED

## Ultimate SHARP DIAMOND sharpen free coating

- Micro membrane coating made using the most advanced PVD (Physical Vapor Deposition) technology
- Completely sharpen free
- Superior long-lasting sharpness
- Maximal wear resistance



Cutting edge of the Sharp Diamond curette and the magnification of the edge after the test.



Cutting edge of an typical non-coated curette and the magnification of the edge after the test.

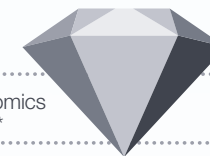
# CHOOSE SHARP.

## SHARPEN FREE MICRO COATING

You will enjoy full control and improved tactile sense, while easily shaving off calculus instead of fracturing it.

Savings  
of time & money

Highest rated ergonomics  
with sensational grip\*



Long-lasting  
superior sharpness

Improved productivity  
& clinical results

## DIAMOND-LIKE FEATURES

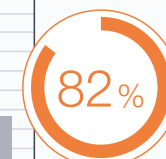
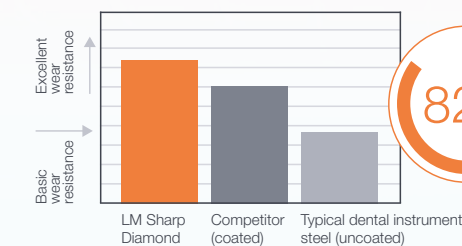
Sharpen free .....	♦ ♦ ♦ ♦ ♦
Superior sharpness .....	♦ ♦ ♦ ♦ ♦
Highest rated ergonomics.....	♦ ♦ ♦ ♦ ♦
Minimum maintenance .....	♦ ♦ ♦ ♦ ♦

## HARDNESS

Hardness contributes to the durability of the instrument. Sharp Diamond reach hardness of over 63 on Rockwell scale.



## WEAR RESISTANCE\*\*



decrease  
in wear  
compared  
to typical  
dental hand  
instrument  
material.

Reference studies: \* (1) Sormunen E., Nevala N: Evaluation of ergonomics and usability of dental scaling instruments; Dental scaling simulation and Field study, part III. Finnish Institute of Occupational Health, LM-Instruments Oy. (2) Nevala N, Sormunen E, Remes J, Suomalainen K: Ergonomic and productivity evaluation of scaling instruments in dentistry. The Ergonomics Open Journal 2013; 6, 6-12. \*\* Leppäniemi J. et al: The influence of PVD coatings on the wear performance of steel dental curettes. Key Engineering Materials Vol. 674 (2016), 289-295.

# A genuinely new, ergonomic hand instrument: **LM**ErgoSense SENSATIONAL GRIP AND UNIQUE INTELLIGENCE

Today the focus is on ergonomics – without losing sight of efficiency. The new LM-ErgoSense hand instrument, meets both of these requirements and is truly a unique combination of ergonomic design and integrated new technology. It is the outcome of intense research and product development in close cooperation with dental clinicians and professionals. An ergonomic, high quality hand instrument naturally feels good in the hand. Even genuinely sensational as the new, smart LM-ErgoSense has been described.

## Rated as the best hand instrument

The value of a truly ergonomic instrument grip can never be emphasized enough as revealed in several scientific studies. A hand instrument with thick silicone handle has been found to be more usable, cause lower perceived strain and to be more productive than those with thinner handles (1). LM-ErgoSense was rated as the best in ten out of fourteen specified usability features compared with the other tested instruments in a dental scaling simulation (1). It was also ranked as the best instrument.

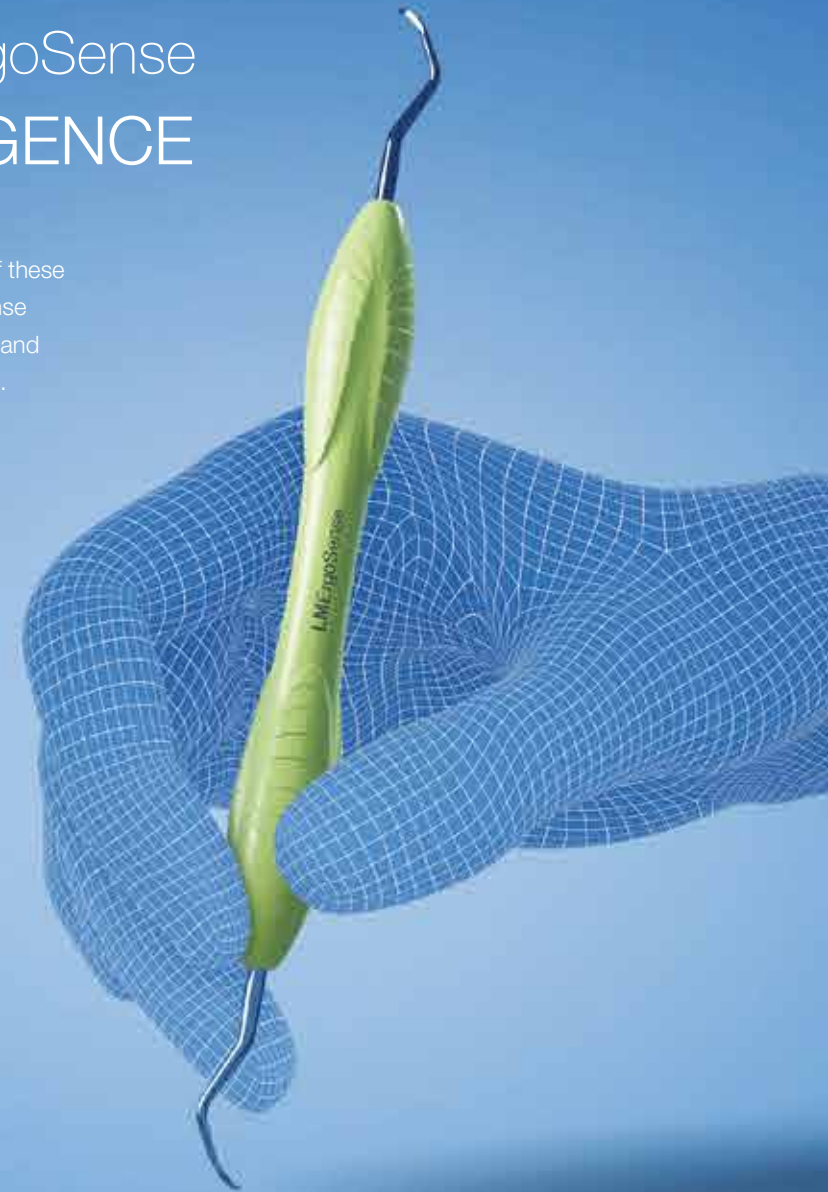
Most participants in the authentic scaling part of the study considered the LM-ErgoSense silicone handle as their favorite due to the enhanced grip, comfort and instrument's functional design. The participants' evaluations were based on their active use of the LM-ErgoSense in authentic clinical work. In another study focusing on ergonomics, usability characteristics and work productivity using different manufacturers' hand instruments the thick, silicone coated LM-Dental hand instruments were the most preferred choice in regard to all 18 usability criteria used in the test (2).



The story of LM-ErgoSense

#### Reference studies:

- (1) Sormunen E., Nevala N: Evaluation of ergonomics and usability of dental scaling instruments; Dental scaling simulation and Field study, part III, Finnish Institute of Occupational Health, LM-Instruments Oy.  
(2) Nevala N, Sormunen E, Remes J, Suomalainen K: Ergonomic and productivity evaluation of scaling instruments in dentistry. The Ergonomics Open Journal 2013; 6, 6-12.



# LM ErgoSense

## SIMPLY SENSATIONAL

Great tactile sensitivity

Larger diameter & optimal design

Unique intelligence with RFID technology

LM-Instruments has developed the idea of an ergonomic instrument even further. An advanced RFID chip can now be integrated into new LM-ErgoSense instrument handles enabling complete and reliable traceability of the instrument. The scanned and documented information improve patient safety, material handling and increase cost efficiency.

Rated best in clinical testing

“Feels great in the hand.”



New intelligence in the dental clinic:

# LM Dental Tracking System

IMPROVING MATERIAL FLOWS AND PATIENT SAFETY



Working together with dental clinics has revealed many challenges in material handling and traceability. How to control and improve the logistics or the increasing requirements for patient safety and documentation? LM has developed the idea of a smart instrument that with its intelligence helps to solve these challenges.

An advanced RFID chip can now be integrated into the LM-ErgoSense instruments enabling complete and reliable traceability of the instrument simply by scanning the chip with a reader that together with software create a unique Dental Tracking System. The scanned and documented information will improve and ease asset management and increase cost efficiency. The Dental Tracking System helps to ensure that only safe and clean instruments are used elevating patient safety to a whole new level.

More info on [www.dentaltracking.com](http://www.dentaltracking.com)

## Choosing the handle

Choosing the most ergonomic hand instrument can make a big difference in terms of discomforts and disorders when performing dental work. It is by no means insignificant what the diameter of the hand instrument's handle is or what the material of the grip surface is. When holding the instruments for approximately 2,000 hours each year, the design, weight and feel of the instrument are crucial for the dental practitioner in terms of his/her performance and productivity.

LM instruments are available with a selection of different handles. All exceptionally ergonomic due to the elastic silicone coating and optimized contouring. The clinician's hand fit and indication both play a role in selecting an ideal handle type. Interchanging different handles, may place the user's hand under even less strain.



### New colors, naming and coding

- To facilitate color coding and brighten up working practices LM-ErgoSense, LM-ErgoMax and LM-ErgoNorm instruments come now in new refreshing colors. The name and the code number on the handle ease the identification of the instrument during clinical procedures and maintenance.

## Handle selection



### LM-ErgoSense

The larger diameter and design provide sensational grip that has been proven to be ergonomic and efficient in scientific clinical testing. Uniquely intelligent handle with the option for RFID tagging. The compatibility with the Dental Tracking System offers many opportunities to improve asset management and patient safety (see more on [www.dentaltracking.com](http://www.dentaltracking.com)).



### LM-ErgoMax

Classic ergonomic design that others copy. Functions well in all clinical procedures and guarantees excellent tactile sensitivity and relaxed grip.



### LM-ErgoNorm

The thinner handle that functions best in light clinical procedures.

## Special handles



### LM-ErgoMix

The LM-ErgoMix handle for exchangeable tips offers all the economical and ecological benefits of retipping.

Available for specific instruments, see page 40.



### LM-ErgoAccess

Curved LM-ErgoAccess handle provides better access to hard-to-reach areas.

Available for specified instruments. See page 31.



### LM-ErgoSingle

Well balanced mirror handle with better reachability.



## Codes and diameters

### LM-ErgoSense

ES = ErgoSense handle  
(Ø 13.7 mm)

### LM-ErgoMax

XSI = ErgoMax handle  
(Ø 11.5 mm)

### LM-ErgoNorm

SI = ErgoNorm handle  
(Ø 8.5 mm)

### LM-ErgoMix

EM = ErgoMix handle  
(Ø 12.5 mm)

### LM-ErgoAccess

EASI = ErgoAccess handle  
(Ø 11.5 mm curved)

### LM-ErgoSingle

ESI = ErgoSingle handle  
(Ø 11.5 mm)

**LM**

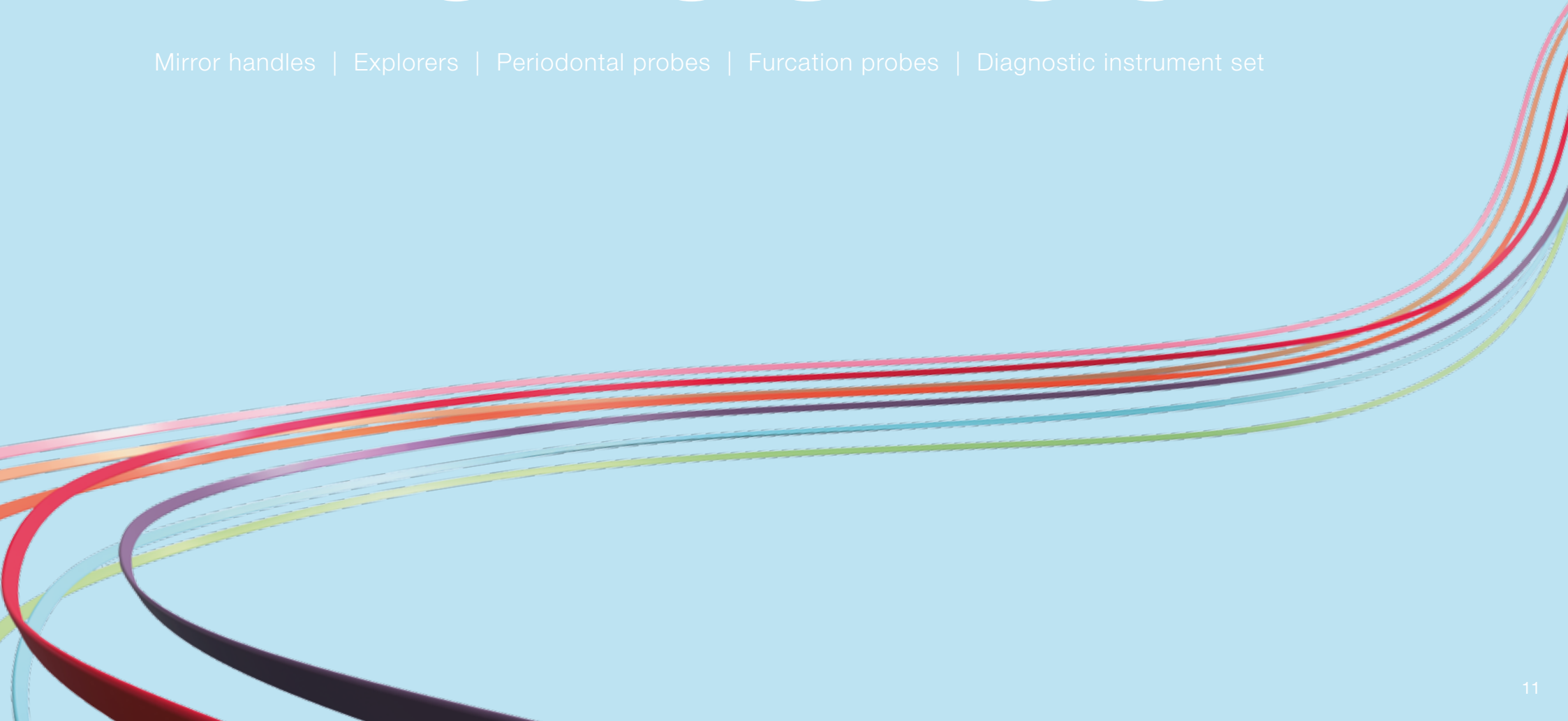
feel the  
difference





# DIAGNOSTICS

Mirror handles | Explorers | Periodontal probes | Furcation probes | Diagnostic instrument set



## DIAGNOSTICS – MIRROR HANDLES

### Simple stem

LM 25 mirror handle threads are in accordance with international standard M2.5. The mirror shank must have a diameter of 2.5 mm.

Mirrors are sold separately.  
Product no 10P12, box of 12 pcs, mirror #4 simple stem.

### Cone socket

LM 28 mirror handle threads are in accordance with international standard UNF4-48. The mirror shank must have a diameter of 2.6 mm.

#### Handle options:



**LM ErgoSense**



**LM ErgoMax**



**LM ErgoNorm**



ErgoSingle Mirror Handle

**LM ErgoSingle** LM 25 ESI  
**LM ErgoSingle** LM 28 ESI

- Well balanced, better reachability
- Colors: red, grey, blue



Mirror Handle 25

**LM ErgoSense** LM 25 ES  
**LM ErgoMax** LM 25 XSI  
**LM ErgoNorm** LM 25 SI

- Single-ended
- Simple stem design
- Colors: red, grey, blue



Mirror Handle 28

**LM ErgoSense** LM 28 ES  
**LM ErgoMax** LM 28 XSI

- Single-ended
- Cone socket design, UNF4-48, with special threads
- Colors: red, grey, blue



Mirror handle, ortho

**LM ErgoSense** LM 25-26 ES  
**LM ErgoMax** LM 25-26 XSI  
**LM ErgoSense** LM 28-26 ES  
**LM ErgoMax** LM 28-26 XSI

- Bausch-Verbiest design
- Orthodontic mirror handle
- For measuring the sagittal overjet and vertical overbite
- Millimeter scale, total length 25 mm



Mirror Handle JM

**LM ErgoSense** LM 25-473 ES  
**LM ErgoMax** LM 25-473 XSI

- For implant installation

## DIAGNOSTICS – 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.

### Handle options:



LM ErgoSense



LM ErgoMax



LM ErgoNorm



Explorer 5-8

LM ErgoSense LM 5-8 ES  
LM ErgoMax LM 5-8 XSI  
LM ErgoNorm LM 5-8 SI



Explorer 5-9

LM ErgoSense LM 5-9 ES  
LM ErgoMax LM 5-9 XSI  
LM ErgoNorm LM 5-9 SI



Especially for probing distal surfaces of posterior teeth.



Explorer, centered 9-17C

LM ErgoSense LM 9-17C ES  
LM ErgoMax LM 9-17C XSI  
LM ErgoNorm LM 9-17C SI

- Centered tip (17C)
- Elongated lower shank and "back-action" blade



Explorer 17-23

LM ErgoSense LM 17-23 ES  
LM ErgoMax LM 17-23 XSI  
LM ErgoNorm LM 17-23 SI

- For distal surfaces



Especially for probing distal surfaces.



Explorer 17C-23

LM ErgoSense LM 17C-23 ES  
LM ErgoMax LM 17C-23 XSI  
LM ErgoNorm LM 17C-23 SI

- Centered tip (17C)
- For distal surfaces





For subgingival root examination.



TOP FAVORITE!



High sensitivity at seams.



### Explorer 3-6

<b>LM</b> ErgoSense	LM 3-6 ES
<b>LM</b> ErgoMax	LM 3-6 XSI
<b>LM</b> ErgoNorm	LM 3-6 SI

### Explorer 11-12

<b>LM</b> ErgoSense	LM 11-12 ES
<b>LM</b> ErgoMax	LM 11-12 XSI
<b>LM</b> ErgoNorm	LM 11-12 SI

- Angles similar to Gracey 11/12

### Flexplorer 11F-12F

<b>LM</b> ErgoSense	LM 11F-12F ES
<b>LM</b> ErgoMax	LM 11F-12F XSI

- Flexible explorer angulated similarly to Gracey 11/12
- Well-suited for periodontal diagnosing of subgingival calculus and probing deep pockets

### Explorer 18-19

<b>LM</b> ErgoSense	LM 18-19 ES
<b>LM</b> ErgoMax	LM 18-19 XSI
<b>LM</b> ErgoNorm	LM 18-19 SI

- For prosthetic crowns, bridges and inlay- / onlay fillings

### Explorer 29

<b>LM</b> ErgoSense	LM 29 ES
<b>LM</b> ErgoMax	LM 29 XSI
<b>LM</b> ErgoNorm	LM 29 SI

- Holst design
- Lateral angle on the shank
- Single-ended

### Explorer 9

<b>LM</b> ErgoSense	LM 9 ES
<b>LM</b> ErgoMax	LM 9 XSI
<b>LM</b> ErgoNorm	LM 9 SI

- Single-ended

## DIAGNOSTICS – EXPLORERS – PERIODONTAL PROBES

Combination instruments for probing caries and parodontium.

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

### Handle options:



LMergoSense



LMergoMax



LMergoNorm



Explorer - Periodontal  
Probe 23-52B

LMergoSense LM 23-52B ES  
LMergoMax LM 23-52B XSI  
LMergoNorm LM 23-52B SI



Explorer - Periodontal  
Probe 8-520B

LMergoSense LM 8-520B ES  
LMergoMax LM 8-520B XSI  
LMergoNorm LM 8-520B SI



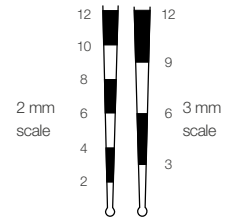
Explorer - Periodontal  
Probe 23-520B

LMergoSense LM 23-520B ES  
LMergoMax LM 23-520B XSI  
LMergoNorm LM 23-520B SI



Explorer - Periodontal  
Probe 23-530B

LMergoSense LM 23-530B ES  
LMergoMax LM 23-530B XSI  
LMergoNorm LM 23-530B SI



Ball end  $\varnothing$  0,5 mm

- Increases tactile sensitivity
- Does not damage tissue or pierce pocket bottom
- Gives more accurate pocket depth measurement
- Gives information on subgingival calculus and other root surface unevenness



Williams Probe

**LMErgoSense** LM 51 ES  
**LMErgoMax** LM 51 XSI  
**LMErgoNorm** LM 51 SI

- Single-ended



Explorer - WHO Probe 8-550B

**LMErgoSense** LM 8-550B ES  
**LMErgoMax** LM 8-550B XSI  
**LMErgoNorm** LM 8-550B SI



Explorer - WHO Probe 23-550B

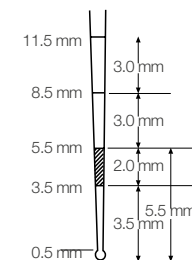
**LMErgoSense** LM 23-550B ES  
**LMErgoMax** LM 23-550B XSI  
**LMErgoNorm** LM 23-550B SI



WHO Probe 550B

**LMErgoSense** LM 550B ES  
**LMErgoMax** LM 550B XSI  
**LMErgoNorm** LM 550B SI

- Single-ended



WHO probe was developed for CPITN method.

Diagnosis:

- 0 = healthy
- 1 = bleeding during probing
- 2 = supra- and/or subgingival calculus, filling or crown excesses
- 3 = gingival pockets to 5 mm
- 4 = pockets deeper than 6 mm



North Carolina Probe 54B

**LMErgoSense** LM 54B ES  
**LMErgoMax** LM 54B XSI

- Single-ended



## DIAGNOSTICS – 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.



Marquis 12 Probe 53B

**LMErgoSense** LM 53B ES  
**LMErgoMax** LM 53B XSI

- Single-ended
- Similar to 530B but without ball end

Handle options:



**LMErgoSense**



**LMErgoMax**



**LMErgoNorm**



Nabers Probe

**LMErgoSense** LM 20-21 ES  
**LMErgoMax** LM 20-21 XSI  
**LMErgoNorm** LM 20-21 SI

Furcation Probe

**LMErgoSense** LM 20B-21B ES  
**LMErgoMax** LM 20B-21B XSI  
**LMErgoNorm** LM 20B-21B SI

## DIAGNOSTICS – INSTRUMENT SET



LM-DiagnoSet

**LMErgoSense** LM 6651 ES  
**LMErgoMax** LM 6651 XSI  
**LMErgoNorm** LM 6651 SI

Includes:  
LM-Servo 5 cassette, Mirror Handle & mirror,  
Explorer LM 5-8, WHO Probe LM 550B,  
Round Excavator 1.5 mm, Tweezers

**LM**

feel the  
difference



# PERIODONTICS

Sharp Diamond | Sickle scalers | Universal curettes | Special instruments | Gracey finishing curettes  
| LM-ErgoMix instruments | Implant series | Instrument sets





## LMErgoSense SHARP DIAMOND

Opposites attract. This holds true with high-quality, periodontal instruments. Optimally they are razor sharp, extremely hard, yet smooth and light. A new micro membrane coating made using modern Physical Vapor Deposition (PVD) technology enables LM to create Sharp Diamond instruments with the optimum combination of these features. Sharp Diamonds are completely sharpen free, tough but refined, offering unique benefits for you and your patient.

- **Sharpen free**
- Long-lasting superior sharpness
- Savings of time & money
- Highest rated ergonomics with sensational grip\*
- Improved productivity & clinical search
- Full control
- Shaving off calculus instead of fracturing it

*"The long-lasting sharpness really makes a difference!"*

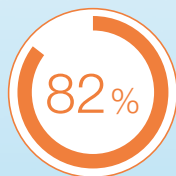
Anna, Registered Dental Hygienist, USA

*"I must admit that at first I didn't quite believe that instruments could be this sharp and also sharpen free. I was wrong! The LM-ErgoSense handle adds to the ergonomics and tactile sensitivity. This is the ultimate periodontal instrument."*

Lauri, Periodontist, Finland



Hardness contributes to the durability of the instrument. Sharp Diamond reach hardness of over 63 on Rockwell scale.



Decrease in wear compared to typical dental hand instrument material. \*\*

See more details on page 5.



Micro Sickle SD

LMErgoSense LM 301-302SD ES

- Sharp Diamond sharpen free coating
- Delicate working end
- Elongated shank

Reference studies: \* (1) Sormunen E., Nevala N: Evaluation of ergonomics and usability of dental scaling instruments; Dental scaling simulation and Field study, part III. Finnish Institute of Occupational Health, LM-Instruments Oy. (2) Nevala N, Sormunen E, Remes J, Suomalainen K: Ergonomic and productivity evaluation of scaling instruments in dentistry. The Ergonomics Open Journal 2013; 6, 6-12. \*\* Leppäniemi J, et al: The influence of PVD coatings on the wear performance of steel dental currettes. Key Engineering Materials Vol. 674 (2016), 289-295.

[www.lm-dental.com/sharpdiamond](http://www.lm-dental.com/sharpdiamond)



Mini Sickle SD

**LM**ErgoSense LM 311-312SD ES

- Sharp Diamond sharpen free coating
- Fine, slightly angled blade
- For all tooth surfaces



Mini Syntette SD

**LM**ErgoSense LM 215-216MSD ES

- Sharp Diamond sharpen free coating
- LM-Dual-Gracey



Mini Gracey 1/2 SD

**LM**ErgoSense LM 201-202MSD ES

- Sharp Diamond sharpen free coating
- For incisors and premolars



Mini Gracey 7/8 SD

**LM**ErgoSense LM 207-208MSD ES

- Sharp Diamond sharpen free coating
- For premolars and molars
- For buccal, mesial and lingual surfaces



Mini Gracey 11/12 SD

**LM**ErgoSense LM 211-212MSD ES

- Sharp Diamond sharpen free coating
- For premolars' and molars' mesial surfaces



Mini Gracey 13/14 SD

**LM**ErgoSense LM 213-214MSD ES

- Sharp Diamond sharpen free coating
- For premolars' and molars' distal surfaces



Mini Gracey 15/16 SD

**LM**ErgoSense LM 245-246MSD ES

- Sharp Diamond sharpen free coating
- For molars' mesial surfaces
- Blade shank more sharply angulated than in Mini Gracey 11/12 for better access



Mini Gracey 17/18 SD

**LM**ErgoSense LM 247-248MSD ES

- Sharp Diamond sharpen free coating
- For molars' distal surfaces
- Blade shank more sharply angulated than in Mini Gracey 13/14 for better access

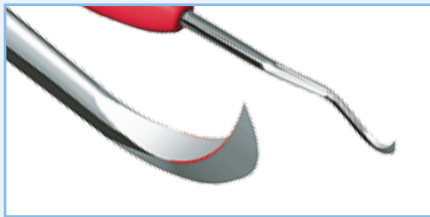


## PERIODONTICS – SICKLE SCALERS

For the removal of supragingival calculus.

### Instrumentation:

For calculus removal place the tip third of the scaler's cutting edge against the tooth. Tilt the instrument toward the tooth to achieve 70° to 80° angle between the tooth and the blade. Apply lateral pressure and activate the scaler by using vertical, diagonal or horizontal pull strokes. To maintain control use short 2-3 mm long strokes.



### Design:

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

### Handle options:



LMergoSense



LMergoMax



LMergoNorm



Sharpening



Delicate working end. Especially for tight interdental spaces.



Clinical use



### Micro Sickle

- LMergoSense LM 301-302 ES
- LMergoMax LM 301-302 XSI
- LMergoNorm LM 301-302 SI

- 204SD design
- Delicate working end
- Elongated shank



For all tooth surfaces, especially proximal surfaces.



Clinical use



### Sickle LM204S

- LMergoSense LM 303-304 ES
- LMergoMax LM 303-304 XSI
- LMergoNorm LM 303-304 SI

- Sharply angulated shank and very fine working end



### Mini Sickle

- LMergoSense LM 311-312 ES
- LMergoMax LM 311-312 XSI
- LMergoNorm LM 311-312 SI

- Fine, slightly angled blade
- For all tooth surfaces



### Sickle LM23

- LMergoSense LM 313-314 ES
- LMergoMax LM 313-314 XSI
- LMergoNorm LM 313-314 SI

- Shorter blade and longer lower shank than in the Mini Sickle



Crane-Kaplan

<b>LMErgoSense</b>	LM 322-323 ES
<b>LMErgoMax</b>	LM 322-323 XSI
<b>LMErgoNorm</b>	LM 322-323 SI

- Extremely strong, rigid, sharply angled blade
- For removal of heavy supragingival calculus



Mini Kaplan

<b>LMErgoSense</b>	LM 333-334 ES
<b>LMErgoMax</b>	LM 333-334 XSI
<b>LMErgoNorm</b>	LM 333-334 SI

- Same angle but with a more delicate blade than in the Crane-Kaplan



McCall 11A-12A

<b>LMErgoSense</b>	LM 324-325 ES
<b>LMErgoMax</b>	LM 324-325 XSI
<b>LMErgoNorm</b>	LM 324-325 SI

Sickle Scaler

<b>LMErgoSense</b>	LM 141 ES
<b>LMErgoMax</b>	LM 141 XSI
<b>LMErgoNorm</b>	LM 141 SI

- Single-ended



Scaler U15 Towner

<b>LMErgoSense</b>	LM 150 ES
<b>LMErgoMax</b>	LM 150 XSI
<b>LMErgoNorm</b>	LM 150 SI

- Single-ended



Push Scaler H4-H5

<b>LMErgoSense</b>	LM 144-145 ES
<b>LMErgoMax</b>	LM 144-145 XSI
<b>LMErgoNorm</b>	LM 144-145 SI

- The chisel-like working end used by pushing. The jacquette working end used by pulling.
- 90° working surface



Scaler H6-H7

- LMErgoSense** LM 146-147 ES
- LMErgoMax** LM 146-147 XSI
- LMErgoNorm** LM 146-147 SI

Laplander

- LMErgoSense** LM 148-149 ES
- LMErgoMax** LM 148-149 XSI

- Similar to H6-H7 but with a lateral bending
- Easy access to molar area and proximal surfaces

PERIODONTICS  
– UNIVERSAL CURETTES

Designed for the removal of moderate to heavy calculus from all supra- and subgingival tooth surfaces.

Instrumentation:

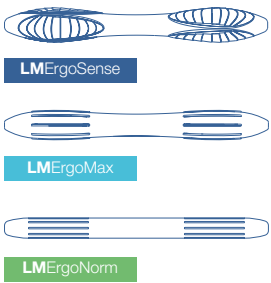
For calculus removal place one of the cutting edges of the universal curette against the tooth surface. Tilt the instrument toward the tooth to achieve 70° to 80° angle between the tooth and the blade. Apply lateral pressure and activate the curette by using vertical, diagonal or horizontal pull strokes. Both cutting edges of the same curette can be used by simply tilting the instrument one way or the other.



Design:

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

Handle options:



McCALL



Strong blade with rigid shank.



McCall 13S-14S

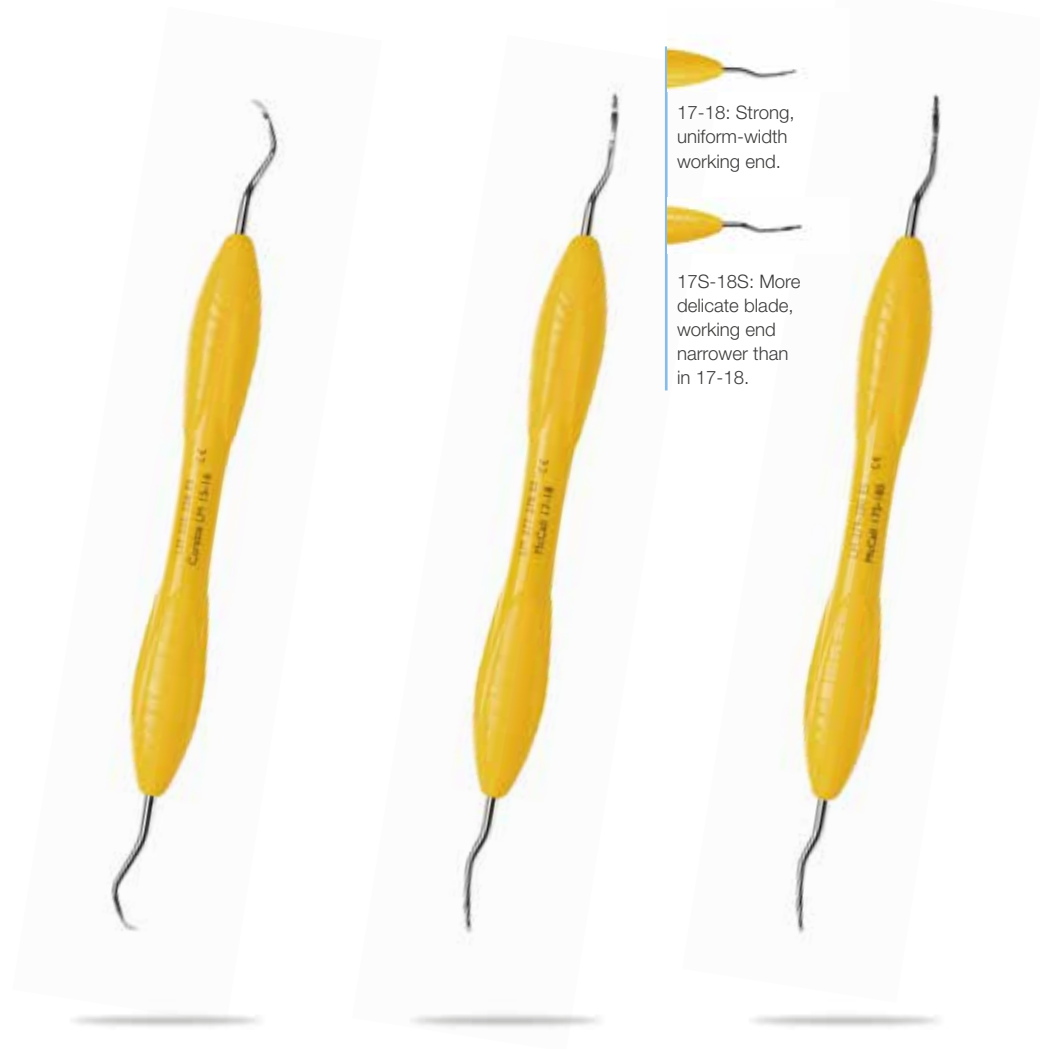
- LMErgoSense** LM 222-223 ES
- LMErgoMax** LM 222-223 XSI
- LMErgoNorm** LM 222-223 SI

- For incisors and premolars

Mini McCall 13S-14S

- LMErgoSense** LM 222-223M ES
- LMErgoMax** LM 222-223M XSI
- LMErgoNorm** LM 222-223M SI

- For deep, narrow pockets
- Sharper, slightly rounded tip (not sickle-shaped)

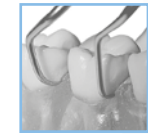


17-18: Strong, uniform-width working end.

17S-18S: More delicate blade, working end narrower than in 17-18.

## LANGER

Langer curettes combine universal curette's working end with Gracey curette's shank angulation. Angulations ease access to difficult areas and both mesial and distal surfaces can be treated with the same instrument end.



Curette LM 15-16

**LMErgoSense** LM 225-226 ES  
**LMErgoMax** LM 225-226 XSI  
**LMErgoNorm** LM 225-226 SI

McCall 17-18

**LMErgoSense** LM 277-278 ES  
**LMErgoMax** LM 277-278 XSI  
**LMErgoNorm** LM 277-278 SI

- Especially for broad molar surfaces

McCall 17S-18S

**LMErgoSense** LM 279-280 ES  
**LMErgoMax** LM 279-280 XSI  
**LMErgoNorm** LM 279-280 SI

- Excellent in tight interdental spaces

Langer 1/2

**LMErgoSense** LM 281-282 ES  
**LMErgoMax** LM 281-282 XSI  
**LMErgoNorm** LM 281-282 SI

- For premolars and molars in the lower jaw

Langer 3/4

**LMErgoSense** LM 283-284 ES  
**LMErgoMax** LM 283-284 XSI  
**LMErgoNorm** LM 283-284 SI

- For premolars and molars in the upper jaw



Langer 5/6

- LMErgoSense** LM 285-286 ES
- LMErgoMax** LM 285-286 XSI
- LMErgoNorm** LM 285-286 SI

- For incisors in the upper and lower jaw

MINI LANGER

Mini Langers have longer shanks and shorter working ends than standard Langers. Useful in tight interdental spaces. Better access into tight deep pockets and furcations.



Mini Langer 1/2

- LMErgoSense** LM 281-282M ES
- LMErgoMax** LM 281-282M XSI
- LMErgoNorm** LM 281-282M SI

- For premolars and molars in the lower jaw



Mini Langer 3/4

- LMErgoSense** LM 283-284M ES
- LMErgoMax** LM 283-284M XSI
- LMErgoNorm** LM 283-284M SI

- For premolars and molars in the upper jaw



Mini Langer 5/6

- LMErgoSense** LM 285-286M ES
- LMErgoMax** LM 285-286M XSI
- LMErgoNorm** LM 285-286M SI

- For incisors in the upper and lower jaw

GOLDMAN FOX



Goldman-Fox 3

- LMErgoSense** LM 233-234 ES
- LMErgoMax** LM 233-234 XSI
- LMErgoNorm** LM 233-234 SI

- For premolars and molars





Goldman-Fox 4

**LMErgoSense** LM 235-236 ES  
**LMErgoMax** LM 235-236 XSI  
**LMErgoNorm** LM 235-236 SI

- For molars

## COLUMBIA



Columbia 2L-2R

**LMErgoSense** LM 217-218 ES  
**LMErgoMax** LM 217-218 XSI  
**LMErgoNorm** LM 217-218 SI

- For incisors and premolars



Columbia 4L-4R

**LMErgoSense** LM 219-220 ES  
**LMErgoMax** LM 219-220 XSI  
**LMErgoNorm** LM 219-220 SI

- For incisors, canines and premolars



Columbia 13-14

**LMErgoSense** LM 237-238 ES  
**LMErgoMax** LM 237-238 XSI  
**LMErgoNorm** LM 237-238 SI

- For molars

## BARNHART

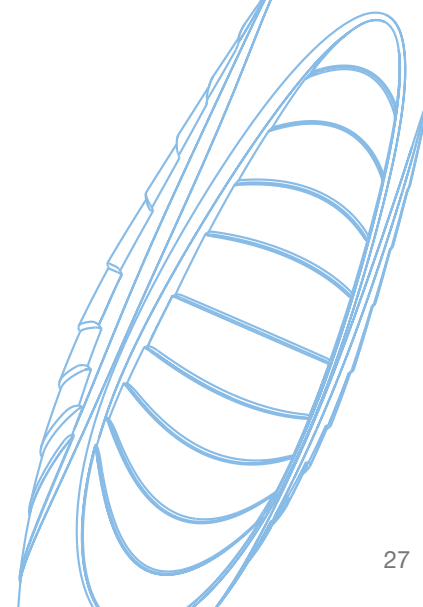


Barnhart 5-6

**LMErgoSense** LM 227-228 ES  
**LMErgoMax** LM 227-228 XSI

- For molars

"LM-ErgoSense  
 – Easy to fulcrum"



## PERIODONTICS – DIAMOND FILES

Diamond coated files are designed for cleaning deep concave root surfaces in anatomically difficult areas.

Can be used with multidirectional strokes.

### Handle options:



LMergoSense



LMergoMax



LMergoNorm



Concavity Diamond File  
SV 5-6

LMergoSense	LM 255-256D ES
LMergoMax	LM 255-256D XSI
LMergoNorm	LM 255-256D SI

- Diamond coated round curved toe
- For acute furcation lesions



Furcation Diamond File SV  
7-8

LMergoSense	LM 257-258D ES
LMergoMax	LM 257-258D XSI
LMergoNorm	LM 257-258D SI

- Diamond coated egg-shaped toe
- For deep furcation lesions



Diamond File mes-dist

LMergoSense	LM 263-264D ES
LMergoMax	LM 263-264D XSI

- Extremely delicate diamond coated instrument for definitive scaling of the root surface
- Easy access with a fine, flexible blade in mesial-distal line angles and developmental grooves



Furcation Diamond File

LMergoSense	LM 261-262D ES
LMergoMax	LM 261-262D XSI

- Extremely delicate diamond coated instrument for definitive calculus removal in furcations and root depressions
- Easy access with a fine, flexible blade design

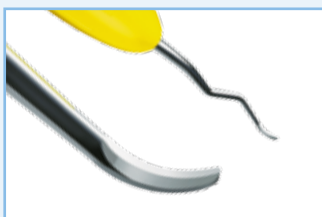


Clinical use

## PERIODONTICS – LM-SYNTETTE

Combination of universal and finishing curette, designed 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

### Handle options:



LM-ErgoSense



LM-ErgoMax



LM-ErgoNorm



Clinical use



### LM-Syntette

- LM-ErgoSense LM 215-216 ES
- LM-ErgoMax LM 215-216 XSI
- LM-ErgoNorm LM 215-216 SI

- LM Dual-Gracey

### Mini Syntette

- LM-ErgoSense LM 215-216M ES
- LM-ErgoMax LM 215-216M XSI
- LM-ErgoNorm LM 215-216M SI

- Mini model excellent in tight, deep pockets  
- particularly well adapted for use on premolars' and incisors' palatal and lingual surfaces



## LM-Syntette story of the original Dual-Gracey

In the late 70-ties Swedish dentist Leif Ericsson, the Head of the Periodontological Department in Västervik Hospital, was challenged with the complexity and the amount of instruments there were available for the periodontal specialists. Couldn't there be an easier way and a simpler instrument, he thought.

### A simple thought

He started looking at the design and function of different instruments and got the idea to combine two popular instruments which, however, required switching instrument in the same interproximal space: Gracey 11/12 for mesial surfaces and Gracey 13/14 for distal surfaces. A synthesis of two curettes – a Syntette!

### Meeting on the train

The idea turned into a sketch on a paper - that ended up in a drawer. Later sometime in the 80-ties, he was standing in a crowded suburban train in Stockholm on the way back from Swedental Dental Congress. By pure coincidence he met the man standing beside him, dentist Pekka Kangasniemi, founder of LM-Instruments. They started discussing the idea and the double sided Gracey, i.e. LM-Syntette was created. An all round instrument for all surfaces in the total dentition, which can be easily shifted from tooth to tooth without changing the instrument.

Simply clever!

## PERIODONTICS – 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



Sharpening

### Handle options:



LMergoSense



LMergoMax



LMergoNorm



Clinical use



### Hoe Scaler, anterior

- LMergoSense LM 112-113 ES
- LMergoMax LM 112-113 XSI
- LMergoNorm LM 112-113 SI

- For the anterior labial and lingual surfaces
- Works well also with lower incisors that are orally inclined



Clinical use



### Hoe Scaler, lateral

- LMergoSense LM 134-135 ES
- LMergoMax LM 134-135 XSI
- LMergoNorm LM 134-135 SI

- For the buccal and lingual surfaces of all teeth
- Can also be used for furcations.



Clinical use



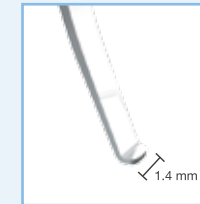
### Hoe Scaler, posterior

- LMergoSense LM 156-157 ES
- LMergoMax LM 156-157 XSI
- LMergoNorm LM 156-157 SI

- For the mesial and distal surfaces of molars
- Can also be used for furcations

## PERIODONTICS – LM-ERGOACCESS INSTRUMENTS

Solution for calculus removal from problematic areas. Curved handle provides a natural hand-fit and allows easy access to difficult-to-reach treatment areas. No more mission impossibles in the molar area or with inclined incisors.

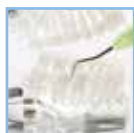
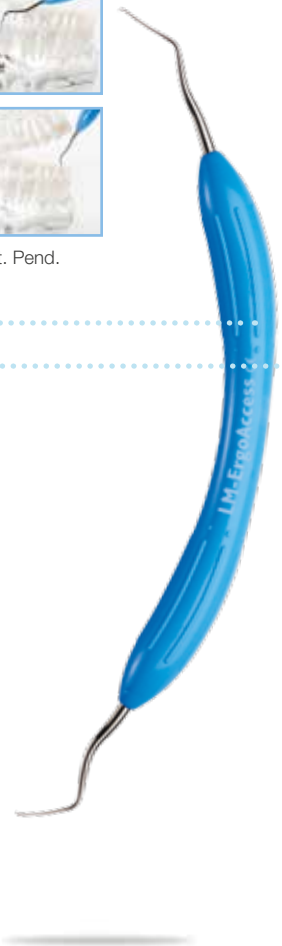


### H-Scaler I, H-Scaler II:

Fine hoe-shaped blade with elliptical cutting edge.



Pat. Pend.



Pat. Pend.



Pat. Pend.



### H-Scaler I

**LMErgoAccess**

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

**LMErgoAccess**

LM 156-157 EASI

- Provides easy access to molar area even with smaller oral aperture

### Micro Sickle EASI

**LMErgoAccess**

LM 301-302 EASI

- Fits well into the approximal surfaces in the front

## PERIODONTICS – FURCATION INSTRUMENT

Well-suited for the cleaning of the furcations of multi rooted teeth.



Clinical use



### Furcator KS

**LMErgoSense** LM 259-260 ES

**LMErgoMax** LM 259-260 XSI

- Delicate, angled excavator
- Suitable also for the cleaning of narrow approximal concavities and grooves in incisors and premolars
- For cleaning of the furcation roof and inner surfaces, particularly concavities and grooves in them

#### Handle options:



**LMErgoSense**



**LMErgoMax**



## PERIODONTICS – GRACEY FINISHING CURETTES

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

### Instrumentation:

Place the tip third or half of the cutting edge of a Gracey curette against the tooth surface. (The larger outer curve is always the cutting edge.) Make sure that the lower shank is parallel with the tooth surface. For calculus removal apply moderate and for root planing light lateral pressure and activate the curette by using vertical, diagonal or horizontal pull strokes.



### Design:

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

### Handle options:



LMergoSense



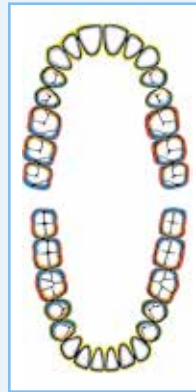
LMergoMax



LMergoNorm



Sharpening



Area specific indications  
for Gracey curettes:

### Incisors

● All surfaces

Gracey 1/2

Gracey 5/6

Gracey 3/4

### Premolars and molars

● Buccal-lingual

Gracey 7/8

Gracey 9/10

● Mesial

Gracey 11/12

Gracey 15/16

● Distal

Gracey 13/14

Gracey 17/18

## STANDARD GRACEY



### Gracey 1/2

LMergoSense LM 201-202 ES

LMergoMax LM 201-202 XSI

LMergoNorm LM 201-202 SI

- For incisors and premolars



### Gracey 3/4

LMergoSense LM 203-204 ES

LMergoMax LM 203-204 XSI

LMergoNorm LM 203-204 SI

- For incisors and premolars



#### Gracey P3-P4

**LMErgoSense** LM 266-267 ES  
**LMErgoMax** LM 266-267 XSI  
**LMErgoNorm** LM 266-267 SI

- Short shank makes the instrument more rigid

#### Gracey 5/6

**LMErgoSense** LM 205-206 ES  
**LMErgoMax** LM 205-206 XSI  
**LMErgoNorm** LM 205-206 SI

- For incisors and premolars
- Especially useful in proximal surfaces

#### Gracey 7/8

**LMErgoSense** LM 207-208 ES  
**LMErgoMax** LM 207-208 XSI  
**LMErgoNorm** LM 207-208 SI

- For premolars and molars
- For buccal, mesial and lingual surfaces

#### Gracey 9/10

**LMErgoSense** LM 209-210 ES  
**LMErgoMax** LM 209-210 XSI  
**LMErgoNorm** LM 209-210 SI

- For molars' buccal and lingual surfaces using horizontal technique

#### Gracey 11/12

**LMErgoSense** LM 211-212 ES  
**LMErgoMax** LM 211-212 XSI  
**LMErgoNorm** LM 211-212 SI

- For premolars' and molars' mesial surfaces

#### Gracey 13/14

**LMErgoSense** LM 213-214 ES  
**LMErgoMax** LM 213-214 XSI  
**LMErgoNorm** LM 213-214 SI

- For premolars' and molars' distal surfaces



Gracey 15/16

**LMErgoSense** LM 245-246 ES  
**LMErgoMax** LM 245-246 XSI  
**LMErgoNorm** LM 245-246 SI

- For molars' mesial surfaces
- Blade shank more sharply angulated than in Gracey 11/12 for better access



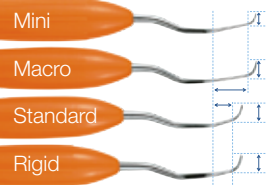
Gracey 17/18

**LMErgoSense** LM 247-248 ES  
**LMErgoMax** LM 247-248 XSI  
**LMErgoNorm** LM 247-248 SI

- For molars' distal surfaces
- Blade shank more sharply angulated than in Gracey 13/14 for better access

### MINI GRACEY

Longer lower shank and smaller working end than in the standard model. Functions well in deep narrow pockets.



Mini Gracey 1/2

**LMErgoSense** LM 201-202M ES  
**LMErgoMax** LM 201-202M XSI  
**LMErgoNorm** LM 201-202M SI

- For incisors and premolars



Mini Gracey 7/8

**LMErgoSense** LM 207-208M ES  
**LMErgoMax** LM 207-208M XSI  
**LMErgoNorm** LM 207-208M SI

- For premolars and molars
- For buccal, mesial and lingual surfaces



TOP FAVORITE!

Mini Gracey 11/12

**LMErgoSense** LM 211-212M ES  
**LMErgoMax** LM 211-212M XSI  
**LMErgoNorm** LM 211-212M SI

- For premolars' and molars' mesial surfaces

TOP FAVORITE!



Mini Gracey 13/14

- LMErgoSense** LM 213-214M ES
- LMErgoMax** LM 213-214M XSI
- LMErgoNorm** LM 213-214M SI

- For premolars' and molars' distal surfaces



Mini Gracey 15/16

- LMErgoSense** LM 245-246M ES
- LMErgoMax** LM 245-246M XSI
- LMErgoNorm** LM 245-246M SI

- For molars' mesial surfaces  
- Blade shank more sharply angulated than in Mini Gracey 11/12 for better access



Mini Gracey 17/18

- LMErgoSense** LM 247-248M ES
- LMErgoMax** LM 247-248M XSI
- LMErgoNorm** LM 247-248M SI

- For molars' distal surfaces  
- Blade shank more sharply angulated than in Mini Gracey 13/14 for better access

## MACRO GRACEY

Standard model's long working end combined with mini model's longer lower shank. Excellent reach interdentally in deep pockets.



Macro Gracey 5/6

- LMErgoSense** LM 205-206AF ES
- LMErgoMax** LM 205-206AF XSI
- LMErgoNorm** LM 205-206AF SI

- For incisors and premolars  
- Especially useful in proximal surfaces



Macro Gracey 7/8

- LMErgoSense** LM 207-208AF ES
- LMErgoMax** LM 207-208AF XSI
- LMErgoNorm** LM 207-208AF SI

- For premolars and molars  
- For buccal, mesial and lingual surfaces



Macro Gracey 11/12

<b>LMErgoSense</b>	LM 211-212AF ES
<b>LMErgoMax</b>	LM 211-212AF XSI
<b>LMErgoNorm</b>	LM 211-212AF SI

- For premolars' and molars' mesial surfaces

Macro Gracey 13/14

<b>LMErgoSense</b>	LM 213-214AF ES
<b>LMErgoMax</b>	LM 213-214AF XSI
<b>LMErgoNorm</b>	LM 213-214AF SI

- For premolars' and molars' distal surfaces

### RIGID GRACEY

Blade shank thicker and more rigid, and working end slightly wider than in the standard model. Permits the use of greater pressure.



Rigid Gracey 1/2

<b>LMErgoSense</b>	LM 201-202R ES
<b>LMErgoMax</b>	LM 201-202R XSI
<b>LMErgoNorm</b>	LM 201-202R SI

- For incisors and premolars

Rigid Gracey 7/8

<b>LMErgoSense</b>	LM 207-208R ES
<b>LMErgoMax</b>	LM 207-208R XSI
<b>LMErgoNorm</b>	LM 207-208R SI

- For premolars and molars  
- For buccal, mesial and lingual surfaces

Rigid Gracey 11/12

<b>LMErgoSense</b>	LM 211-212R ES
<b>LMErgoMax</b>	LM 211-212R XSI
<b>LMErgoNorm</b>	LM 211-212R SI

- For premolars' and molars' mesial surfaces





Rigid Gracey 13/14

<b>LM</b> ErgoSense	LM 213-214R ES
<b>LM</b> ErgoMax	LM 213-214R XSI
<b>LM</b> ErgoNorm	LM 213-214R SI

- For premolars' and molars' distal surfaces

Rigid Gracey 15/16

<b>LM</b> ErgoSense	LM 245-246R ES
<b>LM</b> ErgoMax	LM 245-246R XSI
<b>LM</b> ErgoNorm	LM 245-246R SI

- For molars' mesial surfaces  
- Blade shank more sharply angulated than in Gracey 11/12 for better access

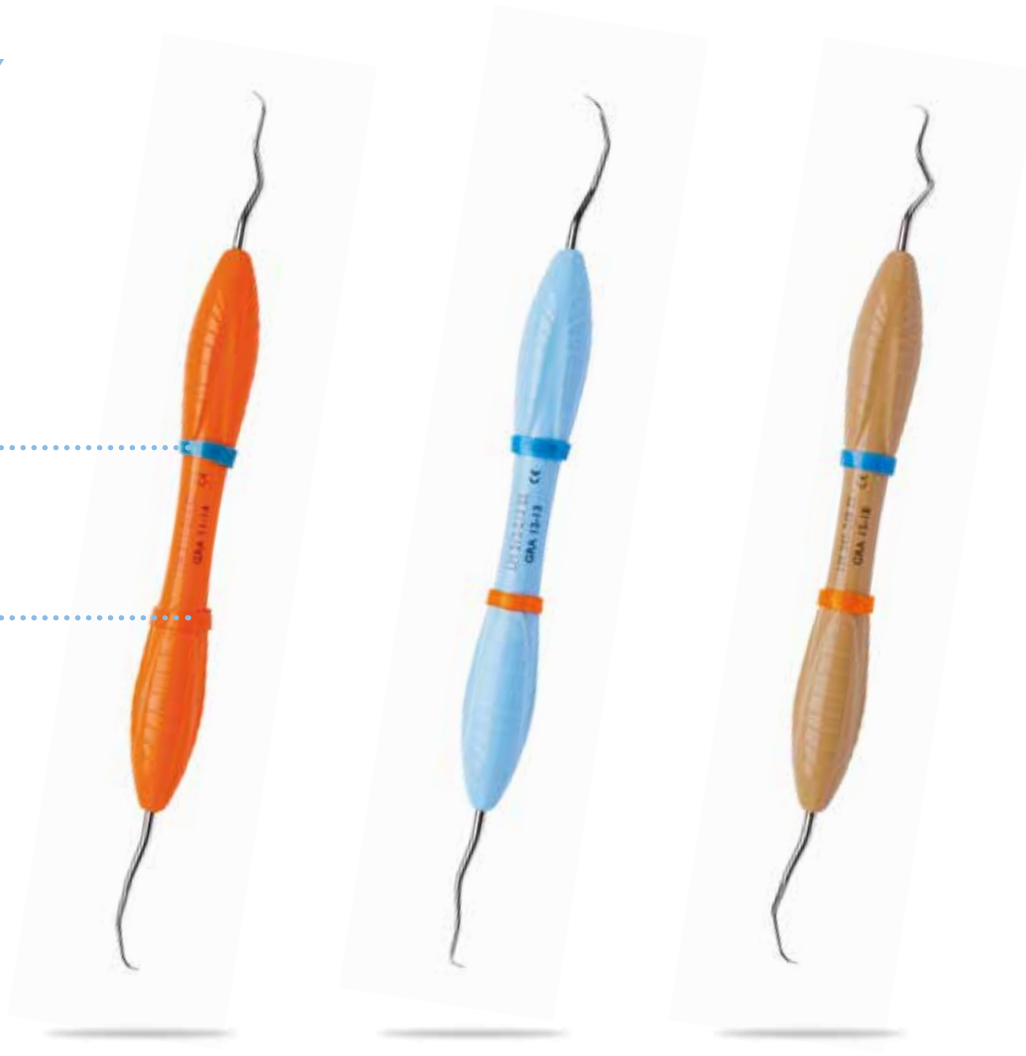
## MESIAL-DISTAL GRACEY

Combining a mesial and a distal working end in one instrument. Useful when treating one quadrant at a time.

Distal

All mesial-distal Graceys have code rings that make it easy to identify which working end is mesial and which distal.

Mesial



Gracey 11/14

<b>LM</b> ErgoSense	LM 211-214 ES
<b>LM</b> ErgoMax	LM 211-214 XSI
<b>LM</b> ErgoNorm	LM 211-214 SI

Gracey 12/13

<b>LM</b> ErgoSense	LM 212-213 ES
<b>LM</b> ErgoMax	LM 212-213 XSI
<b>LM</b> ErgoNorm	LM 212-213 SI

Gracey 15/18

<b>LM</b> ErgoSense	LM 245-248 ES
<b>LM</b> ErgoMax	LM 245-248 XSI
<b>LM</b> ErgoNorm	LM 245-248 SI



Gracey 16/17

<b>LM</b> ErgoSense	LM 246-247 ES
<b>LM</b> ErgoMax	LM 246-247 XSI
<b>LM</b> ErgoNorm	LM 246-247 SI

### MINI MESIAL-DISTAL GRACEY

Combining a mesial and a distal working end in one instrument. Useful when treating one quadrant at a time.

Mini models have longer lower shank and smaller working end than the standard model. Functions well in deep narrow pockets.



Mini Gracey 11/14

<b>LM</b> ErgoSense	LM 211-214M ES
<b>LM</b> ErgoMax	LM 211-214M XSI
<b>LM</b> ErgoNorm	LM 211-214M SI



Mini Gracey 12/13

<b>LM</b> ErgoSense	LM 212-213M ES
<b>LM</b> ErgoMax	LM 212-213M XSI
<b>LM</b> ErgoNorm	LM 212-213M SI



Mini Gracey 15/18

<b>LM</b> ErgoSense	LM 245-248M ES
<b>LM</b> ErgoMax	LM 245-248M XSI
<b>LM</b> ErgoNorm	LM 245-248M SI



Mini Gracey 16/17

<b>LM</b> ErgoSense	LM 246-247M ES
<b>LM</b> ErgoMax	LM 246-247M XSI
<b>LM</b> ErgoNorm	LM 246-247M SI

## MACRO MESIAL-DISTAL GRACEY

Combining a mesial and a distal working end in one instrument. Useful when treating one quadrant at a time.

Macro models have standard model's long working end combined with mini model's longer lower shank. Excellent reach interdentally in deep pockets.



Macro Gracey 11/14

LMErgoSense	LM 211-214AF ES
LMErgoMax	LM 211-214AF XSI
LMErgoNorm	LM 211-214AF SI



Macro Gracey 12/13

LMErgoSense	LM 212-213AF ES
LMErgoMax	LM 212-213AF XSI
LMErgoNorm	LM 212-213AF SI

"LM-ErgoSense  
– Love the larger design"

## PERIODONTICS – EXCHANGEABLE TIPS

### LM-ErgoMix

LM-ErgoMix hand instrument series 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 is inserted and the lock grip is closed again. No extra tools are needed.

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

#### Benefits of retipping:

- Always sharp instruments
- Saves time from sharpening
- Minimizes waste
- Enables personalized tip combinations.



### LM-ERGOMIX WITH LM-DURAGRADEMAX STEEL TIPS



Micro Sickle

LM-ErgoMix LM 301-302 EM

- Delicate working end
- Especially for tight interdental spaces



Sickle LM204S

LM-ErgoMix LM 303-304 EM

- Sharply angulated shank and very fine working end



Scaler H6-H7

LM-ErgoMix LM 146-147 EM



Laplander

LM-ErgoMix LM 148-149 EM

- Similar to H6-H7 but with a lateral bending
- Easy access to molar area and proximal



McCall 13S-14S

LM-ErgoMix LM 222-223 EM

- For incisors and premolars



Columbia 4L-4R

LM-ErgoMix LM 219-220 EM

- For incisors, canines and premolars



Mini Syntette

LM-ErgoMix LM 215-216M EM

- Mini model is excellent in tight, deep pockets
- Particularly well adapted for use on premolars and incisors palatal and lingual surfaces



Gracey 1/2

LM-ErgoMix LM 201-202 EM

- For incisors and premolars



Gracey 11/12

LM-ErgoMix LM 211-212 EM

- For premolars' and molars' mesial surfaces



Gracey 13/14

LM-ErgoMix LM 213-214 EM

- For premolars' and molars' distal surfaces



Mini Gracey 1/2

**LM**ErgoMix LM 201-202M EM

- For incisors and premolars



Mini Gracey 11/12

**LM**ErgoMix LM 211-212M EM

- For premolars' and molars' mesial surfaces



Mini Gracey 13/14

**LM**ErgoMix LM 213-214M EM

- For premolars' and molars' distal surfaces

## TITANIUM TIPS FOR IMPLANTS

A great 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.

TOP FAVORITE!



Implant Mini Universal curette

**LM**ErgoMix

LM 283-284MTI EM

- Delicate working end
- Especially for tight interdental spaces



Implant Mini Gracey 1/2

**LM**ErgoMix

LM 201-202MTI EM

- For incisors and premolars



Implant Mini Gracey 11/12

**LM**ErgoMix

LM 211-212MTI EM

- For premolars' and molars' mesial surfaces



Implant Mini Gracey 13/14

**LM**ErgoMix

LM 213-214MTI EM

- For premolars' and molars' distal surfaces



## LM-ERGOMIX SPARE PARTS

Spare handles		
ErgoMix handle grey	LM 9010 EM	
ErgoMix handle dark grey	LM 9011 EM	
Spare lock grips		
Orange	LM 9020 EM	
Light blue	LM 9021 EM	
Grey	LM 9022 EM	
Yellow	LM 9023 EM	
Dark grey	LM 9024 EM	
Red	LM 9025 EM	
Spare tips LM-DuraGradeMAX		
Micro Sickle L	LM 301 EM	
Micro Sickle R	LM 302 EM	
Mini Syntette L	LM 215M EM	
Mini Syntette R	LM 216M EM	
Mini Gracey 1	LM 201M EM	
Mini Gracey 2	LM 202M EM	
Mini Gracey 11	LM 211M EM	
Mini Gracey 12	LM 212M EM	
Mini Gracey 13	LM 213M EM	
Mini Gracey 14	LM 214M EM	
Scaler H6	LM 146EM	
Scaler H7	LM 147EM	

Laplander L	LM 148EM
Laplander R	LM 149EM
Gracey 1	LM 201EM
Gracey 2	LM 202EM
Gracey 11	LM 211EM
Gracey 12	LM 212EM
Gracey 13	LM 213EM
Gracey 14	LM 214EM
Columbia 4L	LM 219EM
Columbia 4R	LM 220EM
McCall 13S	LM 222EM
McCall 14S	LM 223EM
Sickle LM 204S L	LM 303EM
Sickle LM 204S R	LM 304EM
Spare tips Titanium	
Implant Mini Universal Curette L	LM 283MTi EM
Implant Mini Universal Curette R	LM 284MTi EM
Implant Mini Gracey 1	LM 201MTi EM
Implant Mini Gracey 2	LM 202MTi EM
Implant Mini Gracey 11	LM 211MTi EM
Implant Mini Gracey 12	LM 212MTi EM
Implant Mini Gracey 13	LM 213MTi EM
Implant Mini Gracey 14	LM 214MTi EM

## PERIODONTICS – INSTRUMENT SET



### LM-PerioSet 1

<b>LM</b> ErgoSense	LM 6652 ES
<b>LM</b> ErgoMax	LM 6652 XSI
<b>LM</b> ErgoNorm	LM 6652 SI

Includes:  
LM-Servo 5 cassette, Mini Sickle, Curette McCall 17-18,  
Gracey 1/2, Gracey 11/12, Gracey 13/14



## LM-PerioSet 2

LM-ErgoSense	LM 6682 ES
LM-ErgoMax	LM 6682 XSI
LM-ErgoNorm	LM 6682 SI

### Includes:

LM-Servo 8 cassette, 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-Fancy5

LM-ErgoSense	LM 6820 ES
LM-ErgoMax	LM 6820 XSI

### Includes:

LM-Servo 5 cassette, ErgoSingle mirror handle and mirror, Explorer - Periodontal probe 8-520B, Micro Sickle, Gracey 11/12, Gracey 13/14

## TERMS OF WARRANTY

### 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;

- which have been subject to abuse, misuse, negligence or accident or are not connected to proper power supply;
- to which any modification, alteration or attachment has been made without written consent of the Manufacturer; or
- which are installed or operated violating instructions for installation, use and maintenance;
- which are normally consumed in operation for example working tips of LM-MultiHolder, strips for LM-Cello.

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 to 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.



# LM Dental

LM-Instruments Oy

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