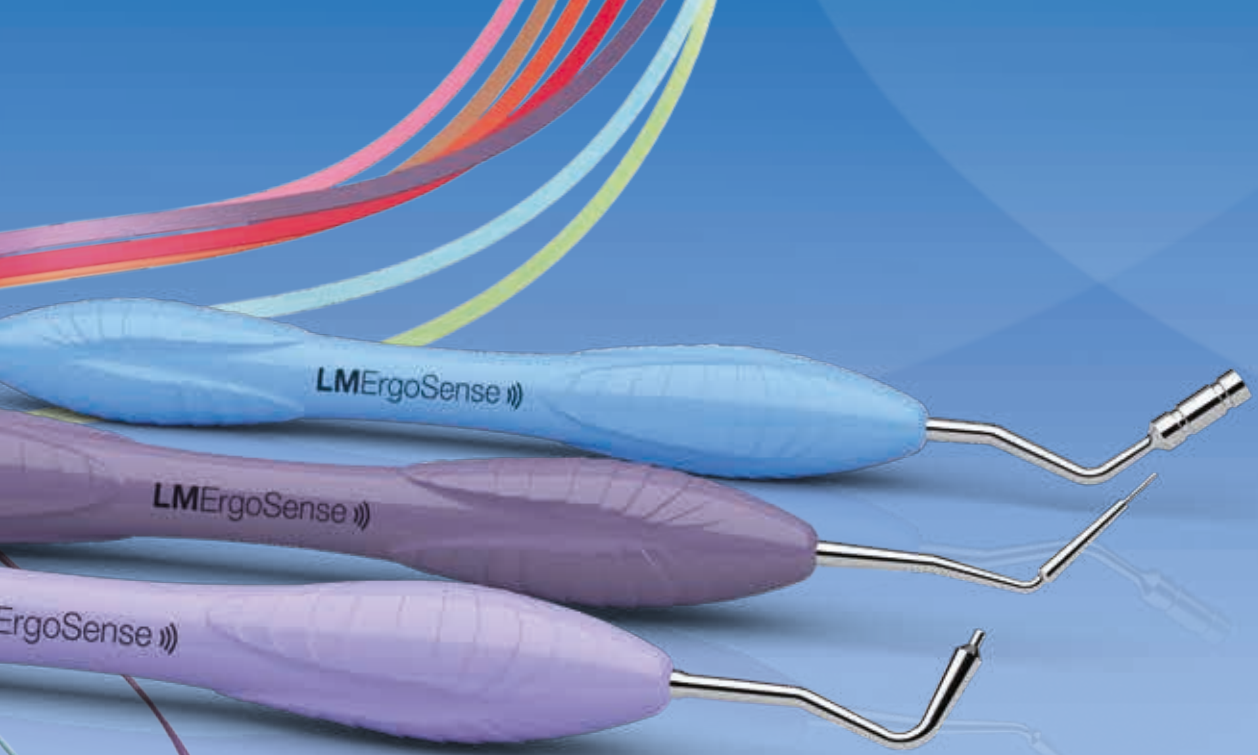


LM

feel the  
difference



ENJOY DENTISTRY.



LM Dental

Catalog | English

LM

feel the  
difference

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.

## PLANMECA

LM-Dental is part of the Planmecca Group, one of the world's leading manufacturers of dental equipment.  
[www.planmecca.com](http://www.planmecca.com)

### 4 LM-DENTAL

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# The pioneer in INSTRUMENT ERGONOMICS

How to define the ergonomics of a hand instrument? Firstly a non-slip, natural grip on an instrument are essential. Secondly a lightweight and optimized design prevents 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.

## Contemporary coatings offer new benefits

With contemporary coating technology we are able to add additional features to our dental instruments offering unique benefits. Sharpen free periodontal and non-stick restorative instruments are finally reality. The Dark Diamond instruments with non-stick diamond like coating allow for pleasant and precise contouring of composite resins.

### Sharpen or not?

In periodontics the hot discussion topic has been whether instruments should be sharpened or not. 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 modern micro coating technology LM can offer the highest quality in both uncoated and coated product categories.

**Sharpen free** - The micro coated Sharp Diamond instruments are completely sharpen free and razor sharp.

**Resharpen** - If you wish to resharpen the uncoated LM-DuraGradeMAX supersteel offers you the ultimate wear resistance.

The choice is yours.

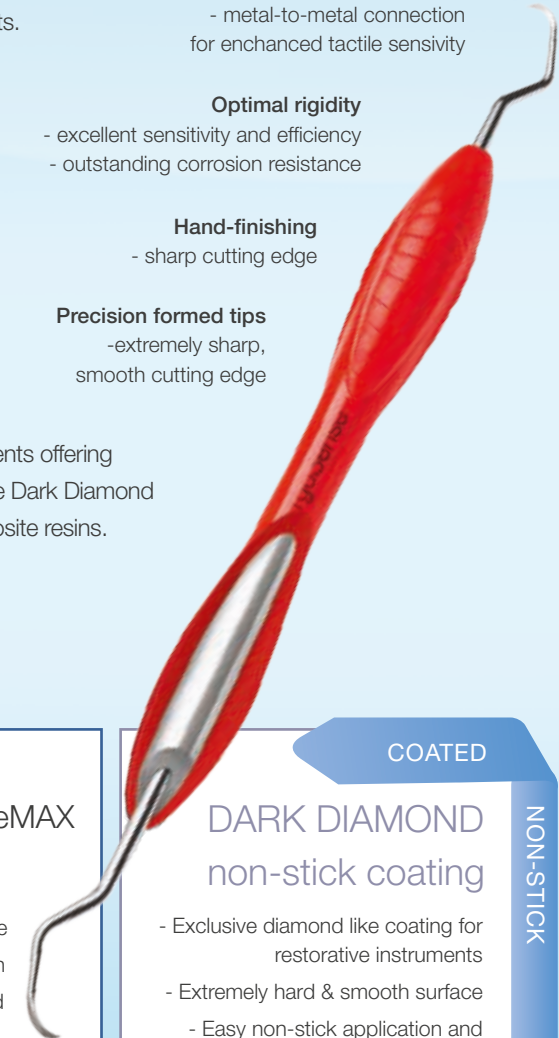
**Elastic, ergonomic surface material and optimal contouring**  
- comfortable and non-slip grip

**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

COATED

DARK DIAMOND  
non-stick coating

- Exclusive diamond like coating for restorative instruments
- Extremely hard & smooth surface
  - Easy non-stick application and modeling of composite
- Dark color for maximum contrast

NON-STICK

## 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



SHARPEN FREE

COATED

## SHARP DIAMOND sharpen free coating

- Micro membrane coating for periodontal instruments 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.



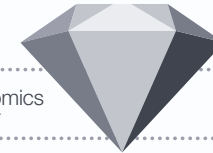
Cutting edge of a typical non-coated curette and the magnification of the edge after the test.

## 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



Long-lasting superior sharpness

Highest rated ergonomics with sensational grip\*

Improved productivity & clinical results

### DIAMOND-LIKE FEATURES

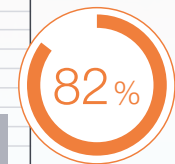
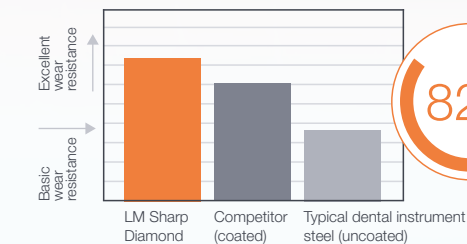
Sharpen free .....	◆◆◆◆◆
Superior sharpness .....	◆◆◆◆◆
Highest rated ergonomics.....	◆◆◆◆◆
Minimum maintenance .....	◆◆◆◆

### 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. \*\* Lappäniemi J. et al.: The influence of PVD coatings on the wear performance of steel dental curettes. Key Engineering Materials Vol. 674 (2016), 289-295.

# LM ErgoSense

## SENSATIONAL GRIP AND UNIQUE INTELLIGENCE

Today the focus is on ergonomics – without losing sight of efficiency. The 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 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.



“Feels great  
in the hand.”

Great tactile sensitivity

Larger diameter  
& optimal design

Unique intelligence  
with RFID technology

LM-Dental has developed the idea of an ergonomic instrument even further. An advanced RFID chip can now be integrated into LM-ErgoSense instrument handles enabling complete and reliable traceability of the instrument.

Rated best  
in clinical testing

# LM Dental Tracking System™

## IMPROVING MATERIAL FLOWS AND PATIENT SAFETY



### Key advantages



#### Patient safety

- Safe materials
- Sterilized instruments
- Material traceability



#### Cost reduction

- Avoid time consuming manual controls
- Decrease stock
- Improve material flow



#### Asset management

- Ease consumption recording
- Indication of demand
- Improve time management



#### Documentation & education support

- Reduce risks
- Decrease loss
- Clinical training
- Patient session planning

What if you could see the exact location of every dental instrument and material on your computer? LM Dental Tracking System™ (DTS) is the first commercially available system to use RFID technology to efficiently track and monitor instruments and materials in the dental industry.

The LM-ErgoSense hand instrument with advanced built-in RFID technology together with scanning readers and server software create a unique Dental Tracking System™. The cutting edge system gives the visibility of instruments and materials from storage and maintenance through to clinic and patient care. The scanned and documented information improves patient safety, material handling and increases cost efficiency. DTS offers new possibilities within maintenance and clinical use for dental clinics.

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 in 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 LM 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.



## Codes and diameters

<b>LM</b> ErgoSense	<b>LM</b> ErgoMax	<b>LM</b> ErgoNorm
ES = ErgoSense handle (Ø 13.7 mm)	XSI = ErgoMax handle (Ø 11.5 mm)	SI = ErgoNorm handle (Ø 8.5 mm)

# 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 31.



## LM-ErgoAccess

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

Available for specified instruments. See page 26.



## LM-ErgoSingle

Well balanced mirror handle with better reachability.

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)

## 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;

- 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.

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.

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



## 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 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

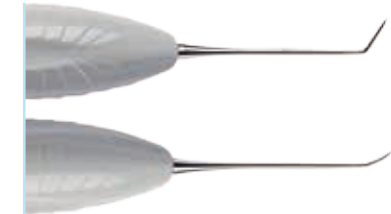


Especially for probing distal surfaces.

### 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



### Explorer 3-6

- LM**ErgoSense LM 3-6 ES
- LM**ErgoMax LM 3-6 XSI
- LM**ErgoNorm LM 3-6 SI

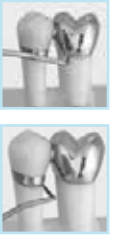


For subgingival root examination.

### Explorer 11-12

- LM**ErgoSense LM 11-12 ES
- LM**ErgoMax LM 11-12 XSI
- LM**ErgoNorm LM 11-12 SI

- Angles similar to Gracey 11/12



Handle options:



LM ErgoSense



LM ErgoMax



LM ErgoNorm

Flexplorer 11F-12F

- LM ErgoSense** LM 11F-12F ES
- LM 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

- LM ErgoSense** LM 18-19 ES
- LM ErgoMax** LM 18-19 XSI
- LM ErgoNorm** LM 18-19 SI

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

Explorer 29

- LM ErgoSense** LM 29 ES
- LM ErgoMax** LM 29 XSI
- LM ErgoNorm** LM 29 SI

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

High sensitivity at seams.

Explorer 9

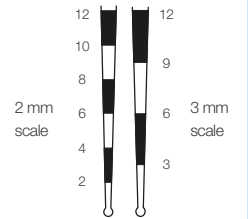
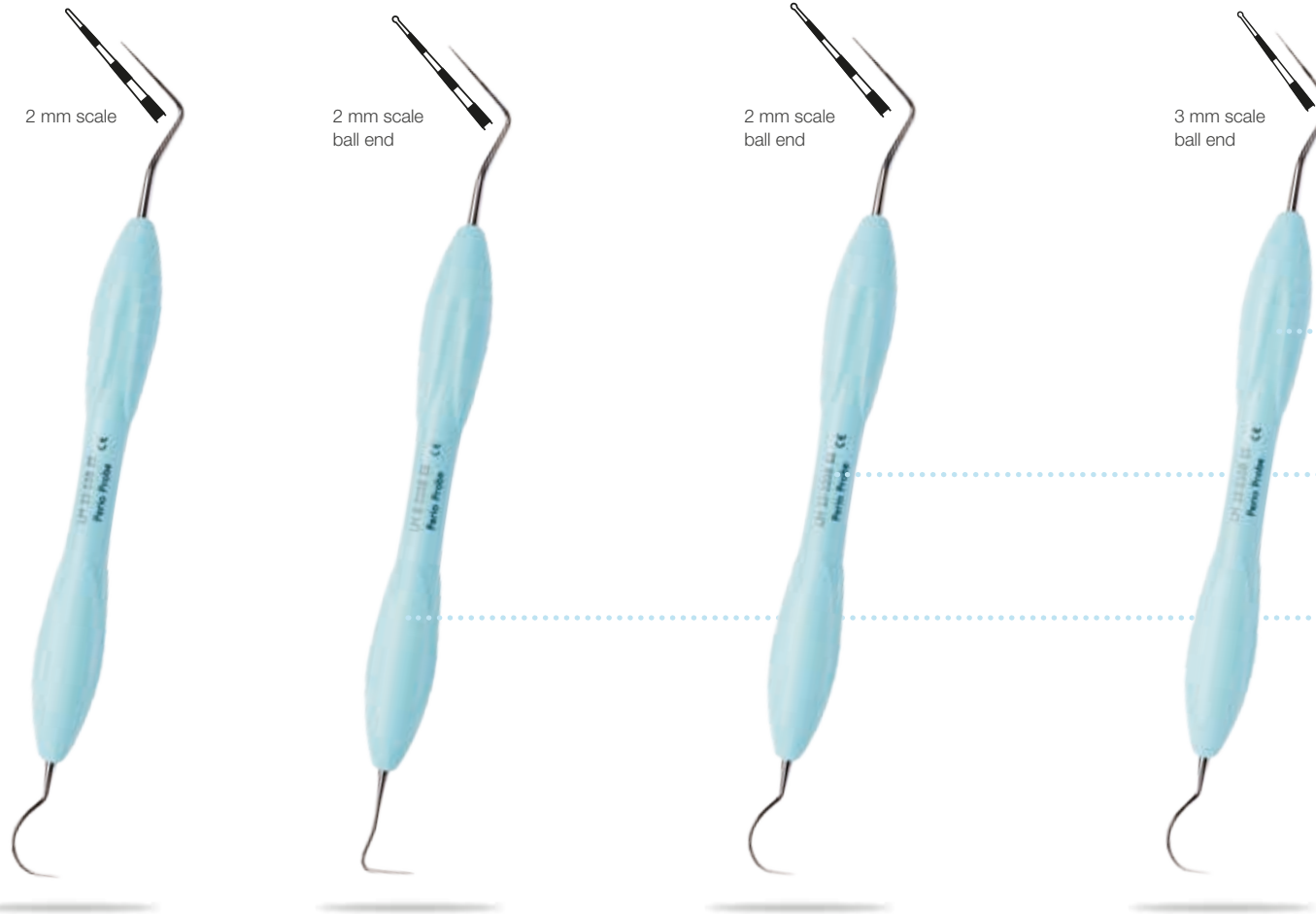
- LM ErgoSense** LM 9 ES
- LM ErgoMax** LM 9 XSI
- LM ErgoNorm** LM 9 SI

- Single-ended

## PERIODONTAL PROBES

Combination instruments for probing caries and parodontium.

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



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

Explorer - Periodontal Probe 23-52B

**LM**ErgoSense LM 23-52B ES  
**LM**ErgoMax LM 23-52B XSI  
**LM**ErgoNorm LM 23-52B SI

Explorer - Periodontal Probe 8-520B

**LM**ErgoSense LM 8-520B ES  
**LM**ErgoMax LM 8-520B XSI  
**LM**ErgoNorm LM 8-520B SI

Explorer - Periodontal Probe 23-520B

**LM**ErgoSense LM 23-520B ES  
**LM**ErgoMax LM 23-520B XSI  
**LM**ErgoNorm LM 23-520B SI

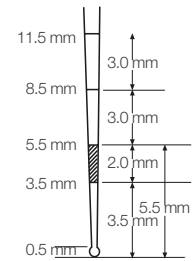
Explorer - Periodontal Probe 23-530B

**LM**ErgoSense LM 23-530B ES  
**LM**ErgoMax LM 23-530B XSI  
**LM**ErgoNorm LM 23-530B SI





Scale  
1-2-3-5-7-8-9-10



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

Williams Probe

- LM**ErgoSense LM 51 ES
- LM**ErgoMax LM 51 XSI
- LM**ErgoNorm LM 51 SI

- Single-ended

Explorer - WHO Probe 8-550B

- LM**ErgoSense LM 8-550B ES
- LM**ErgoMax LM 8-550B XSI
- LM**ErgoNorm LM 8-550B SI

Explorer - WHO Probe 23-550B

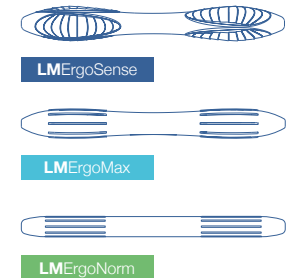
- LM**ErgoSense LM 23-550B ES
- LM**ErgoMax LM 23-550B XSI
- LM**ErgoNorm LM 23-550B SI

WHO Probe 550B

- LM**ErgoSense LM 550B ES
- LM**ErgoMax LM 550B XSI
- LM**ErgoNorm LM 550B SI

- Single-ended

Handle options:





North Carolina Probe  
54B

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

- Single-ended



Marquis 12 Probe 53B

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

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

## 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

- 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

## 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

PERIODONTICS  
 – SHARP DIAMOND COATED INSTRUMENTS



NEW COATING!

LM ErgoSense  
 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 results
- Full control
- Shaving off calculus instead of fracturing it

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

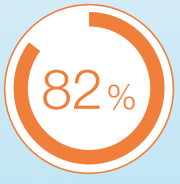
Anna, Registered Dental Hygienist, USA

*"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. \*\*

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)



# CHOOSE SHARP.

## SHARPEN FREE MICRO COATING

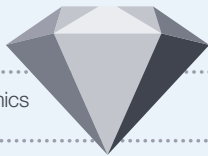
You will enjoy full control and improved tactile sense, while easily shaving off calculus instead of fracturing it.

Savings of time & money

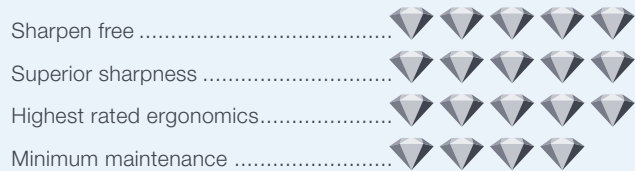
Long-lasting superior sharpness

Highest rated ergonomics with sensational grip\*

Improved productivity & clinical results



## DIAMOND-LIKE FEATURES

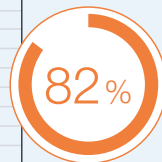
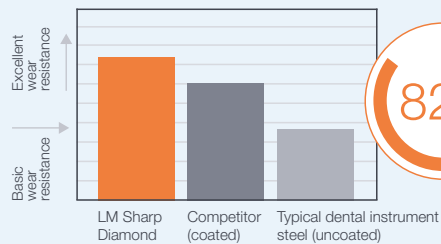


## HARDNESS

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, Pemes 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.



Mini Sickle SD

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

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



Mini Gracey 1/2 SD

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

- Sharp Diamond sharpen free coating
- For incisors and premolars



Mini Syntette SD

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

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



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

Micro Sickle SD

**LM**ErgoSense LM 301-302SD ES

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



# NEW COATING!

# SHARPEN FREE



Mini Gracey 11/12 SD

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

- Sharp Diamond sharpen free coating
- For premolars' and molars' mesial 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 13/14 SD

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

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

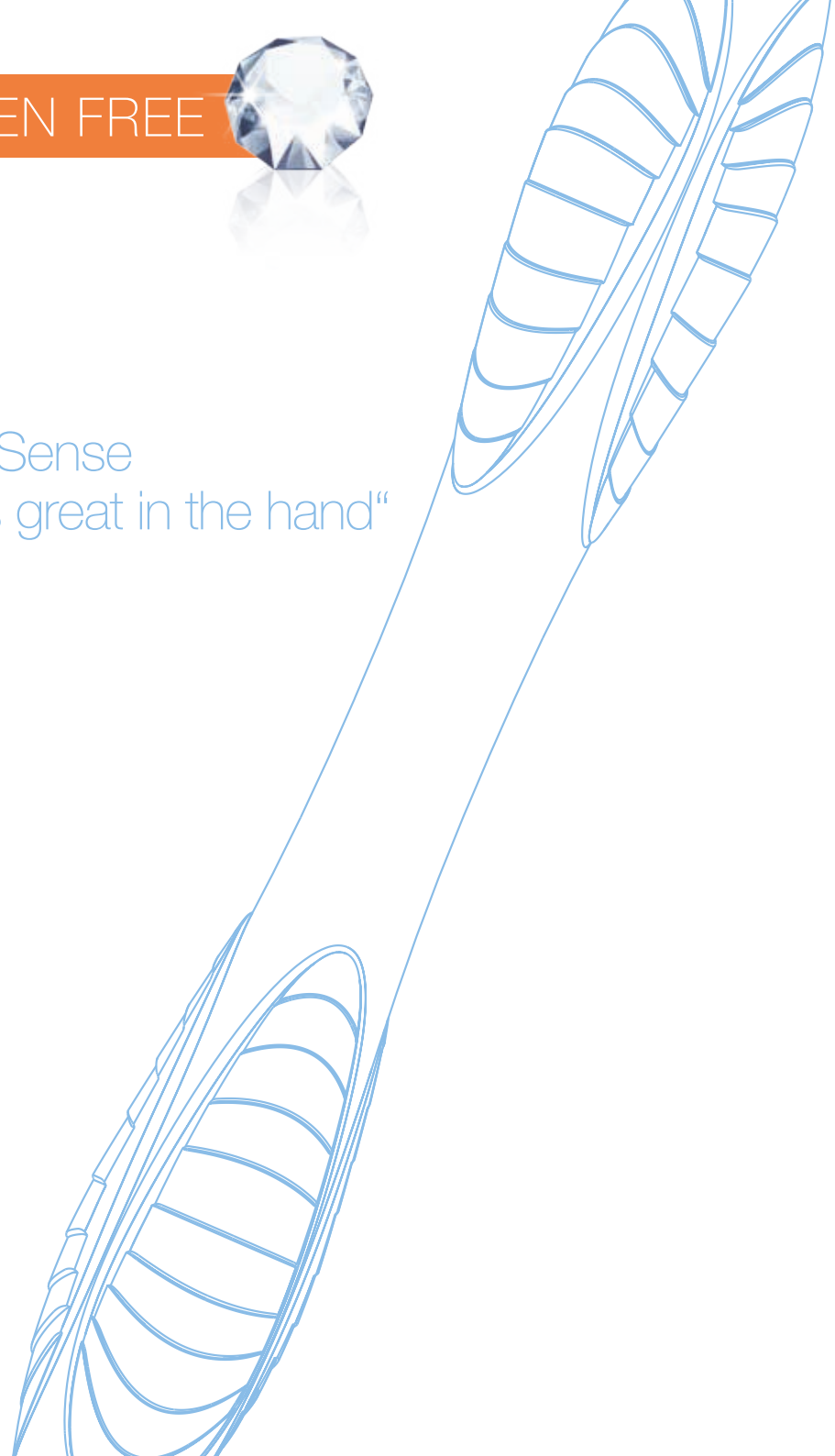


Mini Gracey 17/18 SD

**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

”LM-ErgoSense  
– Feels great in the hand“



## 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:



LM ErgoSense



LM ErgoMax



LM ErgoNorm



### Micro Sickle

- LM ErgoSense LM 301-302 ES
- LM ErgoMax LM 301-302 XSI
- LM ErgoNorm LM 301-302 SI

- 204SD design
- Delicate working end
- Elongated shank



Delicate working end. Especially for tight interdental spaces.



### Sickle LM204S

- LM ErgoSense LM 303-304 ES
- LM ErgoMax LM 303-304 XSI
- LM ErgoNorm LM 303-304 SI

- Sharply angulated shank and very fine working end



For all tooth surfaces, especially proximal surfaces.

### Mini Sickle

- LM ErgoSense LM 311-312 ES
- LM ErgoMax LM 311-312 XSI
- LM ErgoNorm LM 311-312 SI

- Fine, slightly angled blade
- For all tooth surfaces



### Sickle LM23

- LM ErgoSense LM 313-314 ES
- LM ErgoMax LM 313-314 XSI
- LM ErgoNorm LM 313-314 SI

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



Crane-Kaplan

- LMErgoSense** LM 322-323 ES
- LMErgoMax** LM 322-323 XSI
- LMErgoNorm** LM 322-323 SI

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



Mini Kaplan

- LMErgoSense** LM 333-334 ES
- LMErgoMax** LM 333-334 XSI
- LMErgoNorm** LM 333-334 SI

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



McCall 11A-12A

- LMErgoSense** LM 324-325 ES
- LMErgoMax** LM 324-325 XSI
- LMErgoNorm** LM 324-325 SI



Sickle Scaler

- LMErgoSense** LM 141 ES
- LMErgoMax** LM 141 XSI
- LMErgoNorm** LM 141 SI

- Single-ended



Scaler U15 Towner

- LMErgoSense** LM 150 ES
- LMErgoMax** LM 150 XSI
- LMErgoNorm** LM 150 SI

- Single-ended



Push Scaler H4-H5

- LMErgoSense** LM 144-145 ES
- LMErgoMax** LM 144-145 XSI
- LMErgoNorm** 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



## UNIVERSAL CURETTES

Designed for the removal of moderate and 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



Sharpening

### Handle options:



LM ErgoSense



LM ErgoMax



LM ErgoNorm

## McCALL



### McCall 13S-14S

- LM ErgoSense LM 222-223 ES
- LM ErgoMax LM 222-223 XSI
- LM ErgoNorm LM 222-223 SI

- For incisors and premolars



Strong blade with rigid shank.



### Mini McCall 13S-14S

- LM ErgoSense LM 222-223M ES
- LM ErgoMax LM 222-223M XSI
- LM ErgoNorm LM 222-223M SI

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



Clinical use



### Curette LM 15-16

- LM ErgoSense LM 225-226 ES
- LM ErgoMax LM 225-226 XSI
- LM ErgoNorm LM 225-226 SI



### McCall 17-18

- LM ErgoSense LM 277-278 ES
- LM ErgoMax LM 277-278 XSI
- LM ErgoNorm LM 277-278 SI

- Especially for broad molar surfaces
- Strong, uniform-width working end



### McCall 17S-18S

- LM ErgoSense LM 279-280 ES
- LM ErgoMax LM 279-280 XSI
- LM ErgoNorm LM 279-280 SI

- Excellent in tight interdental spaces
- 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.



Langer 1/2

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

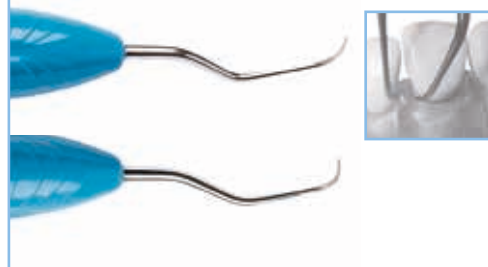
- For premolars and molars in the lower jaw



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

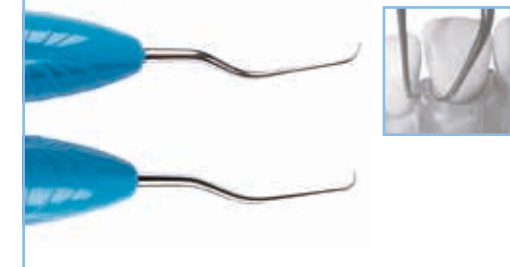
- For premolars and molars in the lower jaw



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

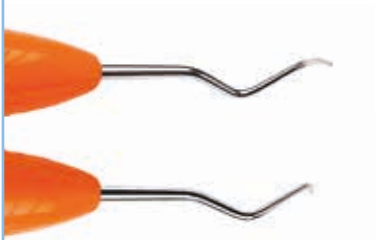
## GOLDMAN FOX



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

**DIAMOND FILES**

Diamond coated files are designed for cleaning deep concave root surfaces in anatomically difficult areas.  
 Can be used with multidirectional strokes.



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



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 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



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



Handle options:

- LMErgoSense**
- LMErgoMax**
- LMErgoNorm**



**LM-SYNTETTE**

**LM INNOVATION**

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 tip. Suitable for both vertical and horizontal techniques.



- Design:
- Two elliptical cutting edges
  - Rounded toe



LM-Syntette story of the original Dual-Gracey





LM-Syntette

- LMErgoSense** LM 215-216 ES
- LMErgoMax** LM 215-216 XSI
- LMErgoNorm** LM 215-216 SI

- LM Dual-Gracey



Mini Syntette

- LMErgoSense** LM 215-216M ES
- LMErgoMax** LM 215-216M XSI
- LMErgoNorm** LM 215-216M SI

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

### 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



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



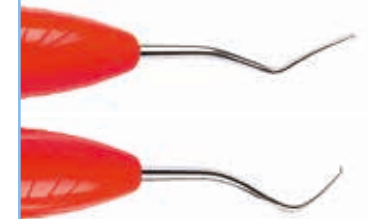
Hoe Scaler, lateral

- 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



Clinical use



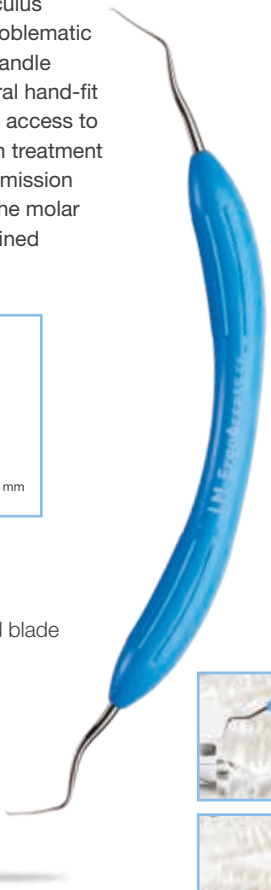
**LM-ERGOACCESS INSTRUMENTS**

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.



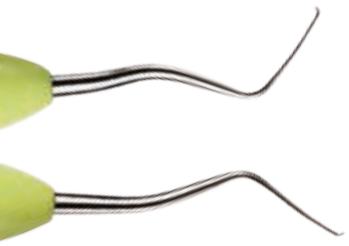
**H-Scaler I**

Pat. Pend.

**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



Pat. Pend.

**H-Scaler II**

**LMErgoAccess**

LM 156-157 EASI

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



Pat. Pend.

**Micro Sickle EASI**

**LMErgoAccess**

LM 301-302 EASI

- Fits well into the approximal surfaces in the front area

**FURCATION INSTRUMENTS**

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



**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 concavations and grooves in them



**LM-ERGOHOLD 3 SURGICAL HANDLE**



**LM-ErgoHold 3**

**LMErgoHold**

LM 9003

- Excellent grip with elastic silicone coating
- Precise blade control
- Controlled rotation
- Blade position responsiveness maintained
- Controlled movement through tissue
- Fits all blades with fitment No. 3 (blades 10, 10A, 11, 11K, 11P, 12, 12D, 15, 15C and 15S)

## GRACEY FINISHING CURETTES

Area specific cures 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:



LM ErgoSense



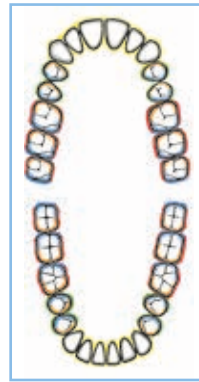
LM ErgoMax



LM ErgoNorm



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

Gracey 11/12

Gracey 15/16

- Distal



Gracey 13/14

Gracey 17/18

## STANDARD AND MINI GRACEY

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



Gracey 1/2

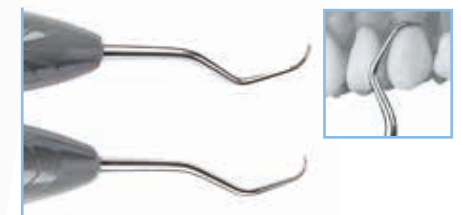
- LM ErgoSense LM 201-202 ES
- LM ErgoMax LM 201-202 XSI
- LM ErgoNorm LM 201-202 SI

- For incisors and premolars



Mini Gracey 1/2

- LM ErgoSense LM 201-202M ES
- LM ErgoMax LM 201-202M XSI
- LM ErgoNorm LM 201-202M SI



Gracey 3/4

- LM ErgoSense LM 203-204 ES
- LM ErgoMax LM 203-204 XSI
- LM ErgoNorm LM 203-204 SI

- For incisors and premolars



Gracey P3-P4

- LM ErgoSense LM 266-267 ES
- LM ErgoMax LM 266-267 XSI
- LM ErgoNorm 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 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

TOP FAVORITE



Gracey 11/12

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

- For premolars' and molars' mesial surfaces



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



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



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



Gracey 13/14

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

- For premolars' and molars' distal surfaces



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



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



Mini Gracey 15/16

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

- Blade shank more sharply angulated than in Mini 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 17/18

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

- 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 interdental 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

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

- For premolars' and molars' mesial surfaces

Macro Gracey 13/14

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

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

- For incisors and premolars

Rigid Gracey 7/8

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

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

Rigid Gracey 11/12

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

- For premolars' and molars' mesial surfaces

Rigid Gracey 13/14

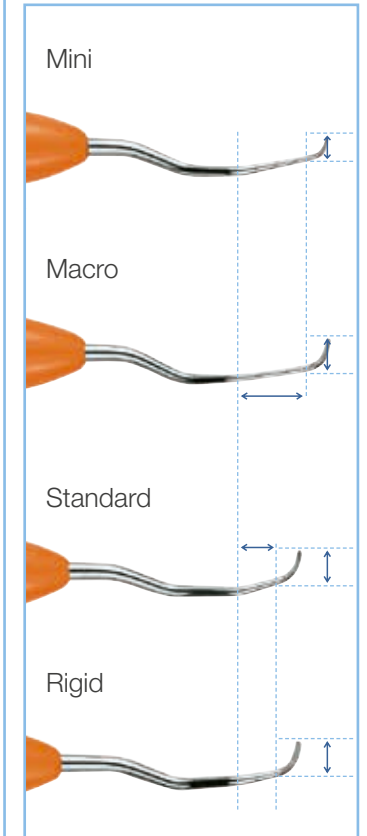
- LMErgoSense** LM 213-214R ES
- LMErgoMax** LM 213-214R XSI
- LMErgoNorm** LM 213-214R SI

- For premolars' and molars' distal surfaces

Rigid Gracey 15/16

- LMErgoSense** LM 245-246R ES
- LMErgoMax** LM 245-246R XSI
- LMErgoNorm** 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 Gracesys have code rings that make it easy to identify which working end is mesial and which distal.

Mesial



#### Gracey 11/14

- LM**ErgoSense LM 211-214 ES
- LM**ErgoMax LM 211-214 XSI
- LM**ErgoNorm LM 211-214 SI

#### Gracey 12/13

- LM**ErgoSense LM 212-213 ES
- LM**ErgoMax LM 212-213 XSI
- LM**ErgoNorm LM 212-213 SI

#### Gracey 15/18

- LM**ErgoSense LM 245-248 ES
- LM**ErgoMax LM 245-248 XSI
- LM**ErgoNorm LM 245-248 SI

#### Gracey 16/17

- LM**ErgoSense LM 246-247 ES
- LM**ErgoMax LM 246-247 XSI
- LM**ErgoNorm LM 246-247 SI

### MINI MESIAL-DISTAL GRACEY

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

#### Mini Gracey 11/14

- LM**ErgoSense LM 211-214M ES
- LM**ErgoMax LM 211-214M XSI
- LM**ErgoNorm LM 211-214M SI

#### Mini Gracey 12/13

- LM**ErgoSense LM 212-213M ES
- LM**ErgoMax LM 212-213M XSI
- LM**ErgoNorm LM 212-213M SI

#### Mini Gracey 15/18

- LM**ErgoSense LM 245-248M ES
- LM**ErgoMax LM 245-248M XSI
- LM**ErgoNorm LM 245-248M SI

#### Mini Gracey 16/17

- LM**ErgoSense LM 246-247M ES
- LM**ErgoMax LM 246-247M XSI
- LM**ErgoNorm LM 246-247M SI

### MACRO MESIAL-DISTAL GRACEY

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

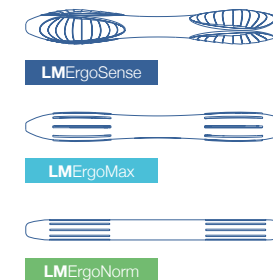
#### Macro Gracey 11/14

- LM**ErgoSense LM 211-214AF ES
- LM**ErgoMax LM 211-214AF XSI
- LM**ErgoNorm LM 211-214AF SI

#### Macro Gracey 12/13

- LM**ErgoSense LM 212-213AF ES
- LM**ErgoMax LM 212-213AF XSI
- LM**ErgoNorm LM 212-213AF SI

Handle options:





## EXCHANGEABLE TIPS

### LM-ErgoMix

LM-ErgoMix hand instrument series offers the dental team a specially economical, ecological and ergonomic alternative.

Whenever 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
- Minimizes waste
- Enables personalized tip combinations.



Pat. Pend.

## LM-ERGOMIX WITH LM-DURAGRADEMAX STEEL TIPS



### Micro Sickle

LMErgoMix LM 301-302 EM

- Delicate working end
- Especially for tight interdental spaces



### Sickle LM204S

LMErgoMix LM 303-304 EM

- Sharply angulated shank and very fine working end



### Scaler H6-H7

LMErgoMix LM 146-147 EM



### Laplander

LMErgoMix LM 148-149 EM

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



### McCall 13S-14S

LMErgoMix LM 222-223 EM

- For incisors and premolars



### Columbia 4L-4R

LMErgoMix LM 219-220 EM

- For incisors, canines and premolars



### Mini Syntette

LMErgoMix 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

LMErgoMix LM 201-202 EM

- For incisors and premolars



### Gracey 11/12

LMErgoMix LM 211-212 EM

- For premolars' and molars' mesial surfaces



### Gracey 13/14

LMErgoMix 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.



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

## INSTRUMENT SETS



### LM-PerioSet 1

- LM**ErgoSense LM 6652 ES
- LM**ErgoMax LM 6652 XSI
- LM**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



### LMPerioKit

Powered by  
*Exclusively selected  
by Dr. Giano Ricci*



### LM-PerioKit

- LM**ErgoSense LM 6842 ES

Includes:  
Implant Mini Universal curette, Concavity File SV 5-6,  
Mini Gracey 13-14, Mini Gracey 11-12, Mini Gracey  
7-8, McCall 17S-18S, North Carolina Probe, Furcation  
Probe, LM-Servo 8 cassette

**EXCAVATORS**

For the removal of softened carious dentin and temporary fillings.



**Design:**

- Spoon-shaped working end
- Rounded tip
- Long cutting edge, which can easily treat broader areas

**Handle options:**



LM ErgoSense



LM ErgoMax



LM ErgoNorm

**SPOON EXCAVATORS**



Spoon Excavator, 1.0 mm

- LM ErgoSense LM 522-523 ES
- LM ErgoMax LM 522-523 XSI
- LM ErgoNorm LM 522-523 SI

Spoon Excavator, 1.5 mm

- LM ErgoSense LM 533-534 ES
- LM ErgoMax LM 533-534 XSI
- LM ErgoNorm LM 533-534 SI

**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 ErgoSense LM 61-62 ES
- LM ErgoMax LM 61-62 XSI
- LM ErgoNorm LM 61-62 SI



Round Excavator, 1.5 mm

- LM ErgoSense LM 63-64 ES
- LM ErgoMax LM 63-64 XSI
- LM ErgoNorm LM 63-64 SI



Round Excavator, 2.0 mm

- LM ErgoSense LM 65-66 ES
- LM ErgoMax LM 65-66 XSI
- LM ErgoNorm LM 65-66 SI

**TRIPLE-ANGLED BACK ACTION EXCAVATORS**

**Cariology:**

- For removing carious dentin
- For undermining enamel during tissue-saving preparations
- For the horizontal finishing of outer cavity margins

**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

- LMErgoSense** LM 611-621 ES
- LMErgoMax** LM 611-621 XSI
- LMErgoNorm** LM 611-621 SI



Triple-angled Back Action Excavator, 1.5 mm

- LMErgoSense** LM 631-641 ES
- LMErgoMax** LM 631-641 XSI
- LMErgoNorm** LM 631-641 SI



Triple-angled Back Action Excavator, 2.0 mm

- LMErgoSense** LM 651-661 ES
- LMErgoMax** LM 651-661 XSI
- LMErgoNorm** LM 651-661 SI



Triple-angled Back Action Excavator, 3.5 mm

- LMErgoSense** LM 671-681 ES
- LMErgoMax** LM 671-681 XSI
- LMErgoNorm** LM 671-681 SI

- For the horizontal finishing of outer cavity margins

GINGIVAL MARGIN TRIMMERS



Gingival Margin Trimmer, 1.2 mm, distal

- LMErgoSense** LM 121-122 ES
- LMErgoMax** LM 121-122 XSI
- LMErgoNorm** LM 121-122 SI



Gingival Margin Trimmer, 1.2 mm, mesial

- LMErgoSense** LM 125-126 ES
- LMErgoMax** LM 125-126 XSI
- LMErgoNorm** LM 125-126 SI

SPATULA



Spatula

- LMErgoSense** LM 450-460 ES
- LMErgoMax** LM 450-460 XSI
- LMErgoNorm** LM 450-460 SI

CORD PACKERS

For packing retraction cord into the gingival pocket.



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



Cord Packer, 2.0 mm

- LMErgoSense** LM 490-491 ES
- LMErgoMax** LM 490-491 XSI
- LMErgoNorm** LM 490-491 SI



Cord Packer, 2.6 mm

- LMErgoSense** LM 492-493 ES
- LMErgoMax** LM 492-493 XSI
- LMErgoNorm** LM 492-493 SI



**BASE CARRIERS**

For carrying base or thin liner to dentin surfaces.



Base Carrier, rigid

- LMErgoSense** LM 29H-30H ES
- LMErgoMax** LM 29H-30H XSI
- LMErgoNorm** LM 29H-30H SI



Base Carrier - Condenser, malleable tip

- LMErgoSense** LM 30-34 ES
- LMErgoMax** LM 30-34 XSI
- LMErgoNorm** LM 30-34 SI

- Tip (30) can be bent into the desired form, allowing for easier access to hard to reach areas



Base Carrier - Condenser, rigid

- LMErgoSense** LM 30H-34 ES
- LMErgoMax** LM 30H-34 XSI
- LMErgoNorm** LM 30H-34 SI

**PLUGGERS**



Micro Packer 0.8 mm

- LMErgoSense** LM 330-331 ES
- LMErgoMax** LM 330-331 XSI
- LMErgoNorm** LM 330-331 SI



Plugger, cylindrical, 0.8-1.2 mm

- LMErgoSense** LM 330-350 ES
- LMErgoMax** LM 330-350 XSI
- LMErgoNorm** LM 330-350 SI



Plugger, cylindrical, 1.0-1.5 mm

- LMErgoSense** LM 340-360 ES
- LMErgoMax** LM 340-360 XSI
- LMErgoNorm** LM 340-360 SI



Plugger, cylindrical, 1.2-2.0 mm

- LMErgoSense** LM 350-380 ES
- LMErgoMax** LM 350-380 XSI
- LMErgoNorm** LM 350-380 SI



Plugger, cylindrical, 1.8-2.5 mm

- LMErgoSense** LM 370-390 ES
- LMErgoMax** LM 370-390 XSI
- LMErgoNorm** LM 370-390 SI

**BURNISHERS**



Burnisher

- LMErgoSense** LM 31-32 ES
- LMErgoMax** LM 31-32 XSI
- LMErgoNorm** LM 31-32 SI

Burnisher - Plugger,  
ball-ended, 1.5-2.5 mm

- LMErgoSense** LM 471-473 ES
- LMErgoMax** LM 471-473 XSI
- LMErgoNorm** LM 471-473 SI



Burnisher 27-29

- LMErgoSense** LM 476-477 ES
- LMErgoMax** LM 476-477 XSI
- LMErgoNorm** LM 476-477 SI



Burnisher 21

- LMErgoSense** LM 372-373 ES
- LMErgoMax** LM 372-373 XSI
- LMErgoNorm** LM 372-373 SI



Markley 2

- LMErgoSense** LM 354-355 ES
- LMErgoMax** LM 354-355 XSI
- LMErgoNorm** LM 354-355 SI

## TRIMMEX

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.



Trimmex Mesial 1  
1.0 mm

- LMErgoSense** LM 6122-6222 ES
- LMErgoMax** LM 6122-6222 XSI



Trimmex Mesial 2  
1.5 mm

- LMErgoSense** LM 6322-6422 ES
- LMErgoMax** LM 6322-6422 XSI



Trimmex Distal 1  
1.0 mm

- LMErgoSense** LM 6121-6221 ES
- LMErgoMax** LM 6121-6221 XSI



Trimmex Distal 2  
1.5 mm

- LMErgoSense** LM 6321-6421 ES
- LMErgoMax** LM 6321-6421 XSI

## CMF SHAPER

A tomahawk shaped instrument combining features of a carrier, modeller and 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 on all tooth surfaces, especially in class II restorations in interproximal surfaces.



CMF Shaper

- LMErgoSense** LM 44-45 ES
- LMErgoMax** LM 44-45 XSI

LM-Arte is a set of innovative instruments for esthetic restorations and designed especially for composite layering. Each instrument is color-coded and named by its main function to enable easy, efficient and quick restorative treatments.

LM-Arte instruments have been developed in co-operation with Style Italiano, a study group of passionate clinicians and researchers specialized in esthetic restorative dentistry. Scan the QR for more information.



LM-Arte Applica

- LMErgoSense** LM 46-49 ES
- LMErgoMax** LM 46-49 XSI

- A very thin and flexible spatula for transporting and modeling of the composite



LM-Arte Modella

- LMErgoSense** LM 464-494 ES
- LMErgoMax** LM 464-494 XSI

- Thin and narrow spatula with bended angles for modeling difficult to reach areas such as approximal walls or the marginal ridge in matrix



LM-Arte Applica Twist

- LMErgoSense** LM 488-489 ES
- LMErgoMax** LM 488-489 XSI



LM-Arte Condensa

- LMErgoSense** LM 488-489 ES
- LMErgoMax** LM 488-489 XSI

- A long and round plunger especially for modeling composite

Handle options:



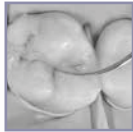
**LMErgoSense**



**LMErgoMax**



**LMErgoNorm**



### LM-Arte Fissura

- LMErgoSense** LM 481-487 ES
- LMErgoMax** LM 481-487 XSI

- Sharp pointed tips for modeling of occlusal surface structures



### LM-Arte Eccesso

- LMErgoSense** LM 307-308 ES
- LMErgoMax** LM 307-308 XSI

- For the removal of composite and bonding residue



### LM-Arte Misura

- LMErgoSense** LM 496-497 ES
- LMErgoMax** LM 496-497 XSI

- For horizontal and vertical measuring of thickness (not plural) of composite layers on the restorations



### LM-Arte Posterior Misura

- LMErgoSense** LM 498-499 ES
- LMErgoMax** LM 498-499 XSI

- For horizontal and vertical measuring of thickness of composite layers on the posterior restorations  
 - The fork shaped tip allows measuring and modeling of the composite wall with the presence of a matrix



### LM-Arte Set

- LMErgoSense** LM 6840 ES
- LMErgoMax** LM 6840 XSI

Includes:  
 LM-Arte Applica, LM-Arte Condensa, LM-Arte Fissura, LM-Arte Misura, LM-Arte Eccesso, LM-Servo 5 cassette

## LM-GENGIVA



### Gingival retracting kit

- LMErgoSense** LM 7556K ES
- LMErgoMax** LM 7556K XSI

Includes products:

LM-Gengiva / LM-MultiHolder PK III hand instrument  
 - See more on page 44

LM-Gingival Retractors (blue)  
 - For establishing optimum working conditions for procedures at the gum line.  
 - Assortment package of three sizes (ca 90 pieces, 30 pcs/size):  
 - S for incisors  
 - M for premolars  
 - XL for molars  
 - See more on page 45

LM-MultiLever  
 - For the removal of disposable gingival retractors



NEW

## RESTORATION – DARK DIAMOND COATED INSTRUMENTS

LM-ErgoSense Dark Diamond instruments with non-stick coating for easy placing and contouring of composite resins. The diamond like coating reduces the stickiness and allows for pleasant and precise restorative instrumentation.

### Dark Diamond features:

- Exclusive diamond like coating
- Hard surface
- Smooth surface
- Dark color coating
- LM-ErgoSense handle

### Benefits:

- Non-stick placement and sculpting of the composite resin
- Not sensitive to scratches
- Easy to clean
- Maximum contrast against the filling & minimal reflections
- Extreme precision and feel

Dark Diamond instruments can be cleaned and sterilized similarly to all other LM instruments.

Dark Diamond coating makes the surface of the tip extremely smooth and hard and allows for non-stick application and modeling of composite.

**LM**ErgoSense  
DARK DIAMOND



Burnisher

**LM**ErgoSense LM 31-32DD ES

- Dark Diamond non-stick coating
- For packing and modeling composite





Burnisher - Plugger, ball-ended, 1.5-2.5 mm

**LM**ErgoSense LM 471-473DD ES

- Dark Diamond non-stick coating
- For modeling composite



Modeller MH

**LM**ErgoSense LM 708-709DD ES

- Dark Diamond non-stick coating
- For packing large approximal fillings
- Cylinder shaped working end will not get stuck into the composite while light curing



Modeller MH Mini

**LM**ErgoSense LM 707-708DD ES

- Dark Diamond non-stick coating
- For packing small and medium approximal fillings
- Cylinder shaped working end will not get stuck into the composite while light curing



Packer-Modeller IO

**LM**ErgoSense LM 482-483DD ES

- Dark Diamond non-stick coating
- For packing and modeling composite
- Conical working ends optimal for shaping occlusal surfaces



Plastic instrument, anterior

**LM**ErgoSense LM 43-47DD ES

- Dark Diamond non-stick coating
- For placing, packing and contouring composite



Plastic instrument, posterior

**LM**ErgoSense LM 48-702DD ES

- Dark Diamond non-stick coating
- For placing, packing and contouring composite



Mini Spatula

**LM**ErgoSense LM 444-445DD ES

- Dark Diamond non-stick coating
- For placing and contouring composite

Handle options:



**LM**ErgoSense



**LM**ErgoMax



**LM**ErgoNorm

**FOR COMPOSITES**



**Flow Instrument IO**

**LMErgoSense** LM 484-485 ES

**LMErgoMax** LM 484-485 XSI

- For easy handling and shaping of flowable composites



**Modeller MH**

**LMErgoSense** LM 708-709 ES

**LMErgoMax** LM 708-709 XSI

- For packing large, approximal fillings in several layers
- Cylinder shaped working ends won't get stuck into the composite while light curing
- For pressing the matrix band in place while curing



**Modeller MH Mini**

**LMErgoSense** LM 707-708 ES

**LMErgoMax** LM 707-708 XSI

- For packing small or medium approximal fillings in several layers
- Cylinder shaped working ends won't get stuck into the composite while light curing
- For pressing the matrix band in place while curing



**Packer-Modeller IO p**

**LMErgoSense** LM 482-702 ES

**LMErgoMax** LM 482-702 XSI

- **LMErgoNorm** LM 482-702 SI
- Combination instrument for premolars

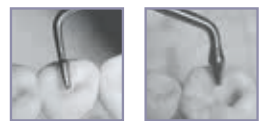


**Packer-Modeller IO**

**LMErgoSense** LM 482-483 ES

**LMErgoMax** LM 482-483 XSI

- **LMErgoNorm** LM 482-483 SI
- 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 m**

**LMErgoSense** LM 483-703 ES

**LMErgoMax** LM 483-703 XSI

- **LMErgoNorm** LM 483-703 SI
- Combination instrument for molars



**Plastic Instrument, anterior**

**LMErgoSense** LM 43-47 ES

**LMErgoMax** LM 43-47 XSI

- **LMErgoNorm** LM 43-47 SI
- For placing, packing and contouring composite



**Plastic Instrument, posterior**

**LMErgoSense** LM 48-702 ES

**LMErgoMax** LM 48-702 XSI

- **LMErgoNorm** LM 48-702 SI
- For placing, packing and contouring composite



**Form Condenser, 1.5-2.5 mm**

**LMErgoSense** LM 702-703 ES

**LMErgoMax** LM 702-703 XSI

- **LMErgoNorm** LM 702-703 SI



**Composite Spatula 6**

**LMErgoSense** LM 446-447 ES

**LMErgoMax** LM 446-447 XSI

- **LMErgoNorm** LM 446-447 SI
- For placing and contouring composite



**Mini Spatula**

**LMErgoSense** LM 444-445 ES

**LMErgoMax** LM 444-445 XSI

- **LMErgoNorm** LM 444-445 SI
- For placing and contouring composite

**CARVERS**



**1/2 Hollenback**

**LMErgoSense** LM 741-751 ES

**LMErgoMax** LM 741-751 XSI

- **LMErgoNorm** LM 741-751 SI



**Nyström I**

**LMErgoSense** LM 74-75 ES

**LMErgoMax** LM 74-75 XSI

- **LMErgoNorm** LM 74-75 SI



**Nyström III**

**LMErgoSense** LM 76-77 ES

**LMErgoMax** LM 76-77 XSI

- **LMErgoNorm** LM 76-77 SI



### Maehlum

- LMErgoSense** LM 71-73 ES
- LMErgoMax** LM 71-73 XSI
- LMErgoNorm** LM 71-73 SI



### Universal Carver, occlusal-proximal

- LMErgoSense** LM 71-72 ES
- LMErgoMax** LM 71-72 XSI
- LMErgoNorm** LM 71-72 SI



### Cleoid-Discoïd

- LMErgoSense** LM 731-732 ES
- LMErgoMax** LM 731-732 XSI
- LMErgoNorm** LM 731-732 SI

## EXCESS SCALERS



### Excess Scaler

- LMErgoSense** LM 785-795 ES
  - LMErgoMax** LM 785-795 XSI
  - LMErgoNorm** LM 785-795 SI
- For the removal of adhesive, cement, and composite excesses



### Mini Excess Scaler

- LMErgoSense** LM 784-794 ES
  - LMErgoMax** LM 784-794 XSI
  - LMErgoNorm** LM 784-794 SI
- An effective excess remover in extremely tight interdental spaces

## FILLING REMOVER



### Filling Remover

- LMErgoSense** LM 764-766 ES
- LMErgoMax** LM 764-766 XSI
- LMErgoNorm** LM 764-766 SI

- For the removal of temporary fillings and crowns
- For bridge removal during fitting

## CROWN OFF



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.



### Crown Off

- LMErgoSense** LM 767-768 ES
- LMErgoMax** LM 767-768 XSI

- Blade double angled with a 45° twist
- Can be used for all types of levering and removing in the mouth

## INSTRUMENT SET



### LM-CompoSet

- LMErgoSense** LM 6657 ES
- LMErgoMax** LM 6657 XSI
- LMErgoNorm** LM 6657 SI

Includes:  
LM-Servo 5 cassette, Mini Spatula, Plastic instrument, ant., Form Condenser, Packer-Modeller IO, Mini Excess Scaler

**LM-CELLO STRIPHOLDER**

**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:**

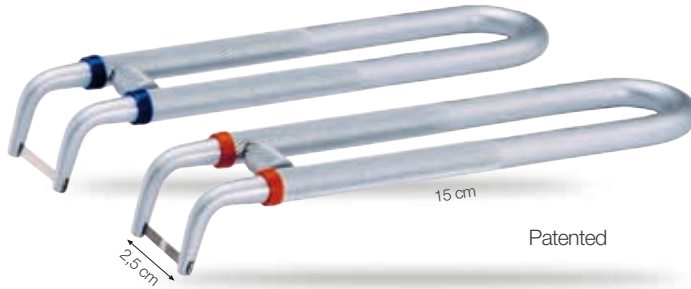
- The finishing of proximal and contact surfaces
- Preparation for both rubber dam and matrix techniques

**Esthetic and prosthetic care:**

- The finishing of cement seams on laminates, cast fillings, and crowns

**Orthodontics:**

- Enamel stripping



LM-Cello stripholder  
LM 2010 C

- Includes a sample for each strip (6 pcs).

**Strip selection**

package 50 pcs, coarseness 60µm

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

**Strips with blanks**

- The smooth part of the strip is used when the contact is exceptionally tight



LM 5502  
- One-sided, width 2 mm, thickness 0,12 mm



LM 5503  
- One-sided, width 3 mm, thickness 0,12 mm



LM 5503D  
- Double-sided, width 3 mm, thickness 0,18 mm

**Strips without blanks**



LM 5512  
- One-sided, width 2 mm, thickness 0,12 mm



LM 5513  
- One-sided, width 3 mm, thickness 0,12 mm



LM 5513D  
- Double-sided, width 3 mm, thickness 0,18 mm



**LM-MULTIHOLDER SYSTEM**

LM-MultiHolder 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

- LMErgoSense LM 750-756 ES
- LMErgoMax LM 750-756 XSI
- LMErgoNorm LM 750-756 SI



LM-MultiHolder PK II

- LMErgoSense LM 752-754 ES
- LMErgoMax LM 752-754 XSI
- LMErgoNorm LM 752-754 SI



LM-MultiHolder PK III

- LMErgoSense LM 752-756 ES
- LMErgoMax LM 752-756 XSI

- Part of the Gengiva concept by Style Italiano, see page 38

Handle options:

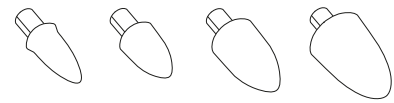
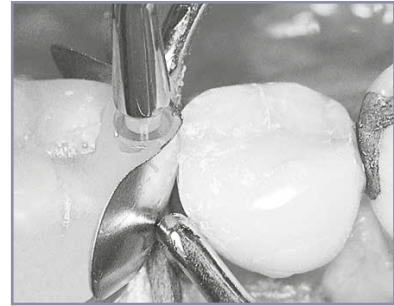
- LMErgoSense
- LMErgoMax
- LMErgoNorm

WORKING ENDS FOR LM-MULTIHOLDER



LM-MultiLever

LM 7550  
- For the removal of plastic working end



LM-Contact Formers

Transparent tip for making correctly formed and tight approximal contact.

- Suitable for use with all matrices
- Will not stick to composite fillings
- Disposable

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)

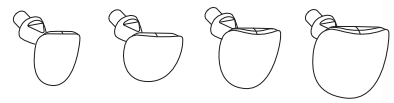


LM-Gingival Retractors (blue)

For establishing optimum working conditions for procedures at the gum line.

- Disposable

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)



LM-Cervical Matrices

For making anatomically correct fillings at the gum line.

- Protects from moisture
- Prevents air bubbles
- Disposable

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 / size)



LM-MultiHolder IntroKit

Introkit contains LM-MultiHolder instruments PK I and PK II (XSI or ES), MultiLever and samples of all available working ends.

There are a total of 44 working ends, 4 for each size of each working end.

LM 7555K ES  
 LM 7555K XSI

- You may order LM-MultiHolder IntroKit sample package also separately: LM 7555

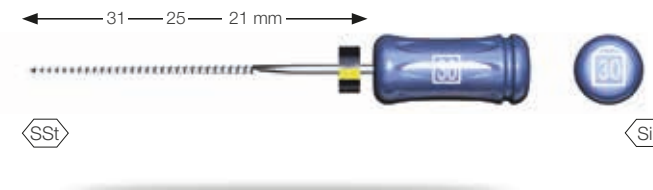
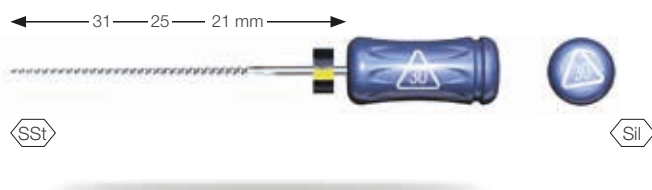


**LM-ENDOMAX**

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 labels
- Color 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.

	Lenght	21 mm	25 mm	31 mm	Individual packages (pcs/pack.)
	ø ISO	Code	Code	Code	
	008	300821	300825	300831	6
	010	301021	301025		6
	015	301521	301525		6
	020	302021	302025	302031	6
	025	302521	302525	302531	6
	030	303021	303025	303031	6
	035	303521	303525	303531	6
	040	304021	304025	304031	6
	045	304521	304525	304531	6
	050	305021	305025	305031	6
	055	305521	305525	305531	6
	060	306021	306025	306031	6
	070	307021	307025	307031	6
	080	308021	308025	308031	6
	015-040	3015-04021	3015-04025	3015-04031	6*
	045-080	3045-08021	3045-08025	3045-08031	6**

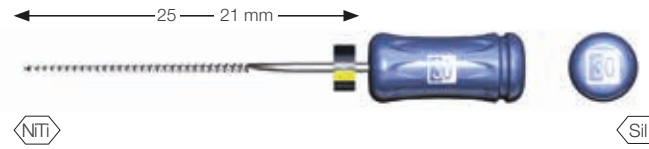
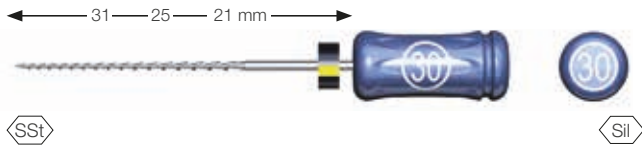
\*Assortment 015-040 includes: 015, 020, 025, 030, 035, 040  
 \*\*Assortment 045-080 includes: 045, 050, 055, 060, 070, 080

**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.

	Lenght	21 mm	25 mm	31 mm	Individual packages (pcs/pack.)
	ø ISO	Code	Code	Code	
	006	200621	200625	200631	6
	008	200821	200825	200831	6
	010	201021	201025	201031	6
	015	201521	201525	201531	6
	020	202021	202025	202031	6
	025	202521	202525	202531	6
	030	203021	203025	203031	6
	035	203521	203525	203531	6
	040	204021	204025	204031	6
	045	204521	204525	204531	6
	050	205021	205025	205031	6
	055	205521	205525	205531	6
	060	206021	206025	206031	6
	070	207021	207025	207031	6
	080	208021	208025	208031	6
	015 - 040	2015-04021	2015-04025	2015-04031	6*
	045 - 080	2045-08021	2045-08025	2045-08031	6**

\*Assortment 015-040 includes: 015, 020, 025, 030, 035, 040  
 \*\*Assortment 045-080 includes: 045, 050, 055, 060, 070, 080



### 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.

	Lenght	21 mm	25 mm	31 mm	Individual packages (pcs/pack.)
	α ISO	Code	Code	Code	
	008	400821	400825		6
	010	401021	401025	401031	6
	015	401521	401525	401531	6
	020	402021	402025	402031	6
	025	402521	402525	402531	6
	030	403021	403025	403031	6
	035	403521	403525	403531	6
	040	404021	404025	404031	6
	045	404521	404525	404531	6
	050	405021	405025	405031	6
	055	405521	405525	405531	6
	060	406021	406025	406031	6
	070	407021	407025	407031	6
	080	408021	408025	408031	6
015 - 040		4015-04021	4015-04025	4015-04031	6*
045 - 080		4045-08021	4045-08025	4045-08031	6**

\*Assortiment 015-040 includes: 015, 020, 025, 030, 035, 040  
 \*\*Assortiment 045-080 includes: 045, 050, 055, 060, 070, 080

### 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.

	Lenght	21 mm	25 mm	Individual packages (pcs/pack.)
	α ISO	Code	Code	
	015	501521	501525	6
	020	502021	502025	6
	025	502521	502525	6
	030	503021	503025	6
	035	503521	503525	6
	040	504021	504025	6
	045	504521	504525	6
	050	505021	505025	6
	055	505521	505525	6
	060	506021	506025	6
015-040		5015-04021	5015-04025	6*

\*Assortiment 015-040 includes: 015, 020, 025, 030, 035, 040

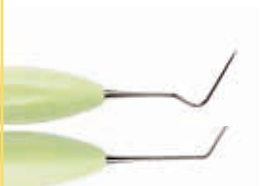
### ROOT CANAL EXPLORER



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 Explorer

- LMErgoSense LM 27-28 ES
- LMErgoMax LM 27-28 XSI
- LMErgoNorm LM 27-28 SI

Handle options:



LMErgoSense



LMErgoMax



LMErgoNorm

### ROOT CANAL EXCAVATORS

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

- 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



Root Canal Excavator, 1.0 mm

- LMErgoSense LM 612-622 ES
- LMErgoMax LM 612-622 XSI
- LMErgoNorm LM 612-622 SI



Root Canal Excavator, 1.5 mm

- LMErgoSense LM 632-642 ES
- LMErgoMax LM 632-642 XSI
- LMErgoNorm LM 632-642 SI



Root Canal Excavator, 2.0 mm

- LMErgoSense LM 652-662 ES
- LMErgoMax LM 652-662 XSI
- LMErgoNorm LM 652-662 SI

### ENDO SPREADERS

For the compacting of root canal filling materials during lateral condensation.



Endo Spreader 0.4 mm

- LMErgoSense LM 24 ES
- LMErgoMax LM 24 XSI



Endo Spreader 0.23 mm

- LMErgoSense LM 22 ES
- LMErgoMax LM 22 XSI

### ENDO PLUGGER

For the vertical plugging of root canal fillings.



Endo Plugger, 0.5 - 1.0 mm

- LMErgoSense LM 41-42 ES
- LMErgoMax LM 41-42 XSI
- LMErgoNorm LM 41-42 SI

### ENDODONTIC SURGERY

For retrograde cavities.



For the removal of demineralized dentin, guttapercha and cement from the tip of the root.



Apexlocator GFV 1.0 mm

- LMErgoSense LM 613-614 ES
- LMErgoMax LM 613-614 XSI
- LMErgoNorm LM 613-614 SI

- For mesial, distal and lingual surfaces

BEST PRODUCT

# Extract with confidence & luxate atraumatically

Familiar LM ergonomics and tactile sensitivity also in extracting instruments

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

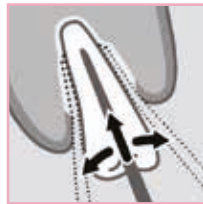


Best Product 2014, Dental Product Shopper

## LM-LIFTOUT

Luxating instruments for atraumatic extraction.

LM-LiftOut instruments allow tooth extraction to be done as atraumatically 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 space 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.



## STRAIGHT BLADE



LM-LiftOut S2  
LM 812220



LM-LiftOut S3  
LM 812230



LM-LiftOut S4  
LM 812240



LM-LiftOut S5  
LM 812250

## CURVED BLADE



LM-LiftOut C3  
LM 812430



LM-LiftOut C4  
LM 812440



LM-LiftOut C5  
LM 812450

**LM-SLIMLIFT**

Luxating instruments designed for extremely narrow places.

LM-SlimLift instruments are especially designed to reach places you cannot go with traditional luxating instruments. It allows tooth extraction to be done as atraumatically as possible. This is important in order to enable rapid healing. The extremely fine tip of the instrument is introduced into the very narrow periodontal space. The instrument is slowly advanced towards the apex of the root while turning the instrument gently back and forth. The LM-SlimLift is not suitable for use as an elevator.

**STRAIGHT BLADE**

LM-SlimLift S3  
LM 812630



LM-SlimLift S4  
LM 812640



LM-SlimLift S5  
LM 812650



The extremely slim design of blade allows for the most atraumatic extractions.

**CURVED BLADE**

LM-SlimLift C3  
LM 812830



LM-SlimLift C4  
LM 812840



LM-SlimLift C5  
LM 812850

**MAINTENANCE****Cassette**

LM 810001

LM extraction 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
- The cassette is compatible with LM-ServoMax tray

**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.

- Suitable for LM-SlimLift, LM-LiftOut, LM-TwistOut and LM-RootOut instruments



## LM-TWISTOUT

Elevators for forceful extraction.

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



### STRAIGHT BLADE



LM-TwistOut S3  
LM 814230



LM-TwistOut S4  
LM 814240



LM-TwistOut S5  
LM 814250

### CURVED BLADE



LM-TwistOut C3  
LM 814430



LM-TwistOut C4  
LM 814440



LM-TwistOut C5  
LM 814450

## ROOT TIP INSTRUMENTS



Root Tip Pick

**LM**ErgoSense LM 769-771 ES

**LM**ErgoMax LM 769-771 XSI

- For the removal of root tip
- Suits well in all difficult to reach areas



LM-RootOut  
LM 812210

- Designed for delicate root teasing procedures
- Not recommended for more substantial root tip removal
- Similar to Heidbrink root tip picks
- Ergonomically designed handle for a good grip

NEW

IMPLANT SURGERY  
- INSTRUMENTS FOR IMPLANT POSITIONING

# Optimal implant insertion

Guiding for correct mesio-distal implant insertion

LM Implant Misura MR instruments help positioning the first spiral drill at a correct distance from the pillar i.e. implant or natural element adjacent to the implant and respecting the bone biology.

This results in correct amount of bone between the implant and the tooth, so that the bone crest remains stable over time. Once the biology is respected and the case is spaced correctly, a long lasting esthetic result is established.



Implant adjacement to a natural element



Implant adjacent to another implant in edentulous arch



LM Implant Misura MR by **STYLEITALIANO**

The instruments are designed by Marco Redemagni MD, DDS. Style Italiano is a study group of passionate clinicians and researchers specialized in aesthetic restorative dentistry.



*"These instruments are really essential when it comes to positioning the first drill"*

Marco Redemagni MD, DDS

More information at [www.styleitaliano.org](http://www.styleitaliano.org) and [www.facebook.com/styleitaliano](http://www.facebook.com/styleitaliano).

For more details and clinical information about LM Implant Misura MR, please scan the QR.



Markings on the tip facilitate checking bucco-lingual position of the implant drilling.



## Choosing the correct size

The instruments are available in different diameters. Each instrument has a larger tip for insertion of adjacent implants and and a smaller tip for spacing an implant from a natural element.

Choose the right instrument size based on the implant diameter:

Instrument color	Initial drill Ø		Distance in mm	
	1.5 mm Implant Ø	2.0 mm Implant Ø	Tooth - Implant	Implant - Implant
Gray	3.4-3.5	4.0	3.0	5.0
Green	3.75	4.25	3.1	5.3
Yellow	4.0-4.1-4.15	4.6	3.3	5.6
Orange	4.3	4.8	3.4	5.8
Blue	4.8-4.85	5.35	3.7	6.3



LM Implant Misura MR  
3.0-5.0

**LM**ErgoSense LM 400-401 ES



LM Implant Misura MR  
3.1-5.3

**LM**ErgoSense LM 402-403 ES



LM Implant Misura MR  
3.3-5.6

**LM**ErgoSense LM 404-405 ES



LM Implant Misura MR  
3.4-5.8

**LM**ErgoSense LM 406-407 ES



LM Implant Misura MR  
3.7-6.3

**LM**ErgoSense LM 408-409 ES



LM Implant Misura MR Kit

**LM**ErgoSense LM 6843 ES

Five LM Implant Misura MR instruments  
(3.0-5.0, 3.1-5.3, 3.3-5.6, 3.4-5.8,  
3.7-6.3) and LM-Servo 5 instrument  
cassette



# LMActivator

LM-Activator aligns teeth, activates mandibular growth and expands the arch perimeter in mixed dentition.

### Advantages

- Aligns and corrects sagittal and vertical relationships simultaneously.
- Anatomically designed slots for aligning individual teeth.
- Possibility to treat in mixed dentition:
  - Intercept interferences and early signs of malocclusions when the roots and ligaments are still developing
  - Support healthy growth and development of the face and jaw

### Patient friendly

- Made of comfortable and flexible medical grade silicone.
- Biocompatible (ISO 10993 permanent contact). No coloring agents, PVC, phthalates, softeners, latex, bisphenol-A or fragrance agents.
- Simultaneous alignment, leveling and anteroposterior correction instead of separate stages.
- Myofunctional research show a correlation between malocclusions and orofacial dysfunctions.



### OVERJET\*



Before



After 1 year

### DEEP BITE WITH PALATAL IMPINGEMENT\*



Before



After 1 year

### SINGLE TOOTH ANTERIOR CROSSBITE\*\*



Before



After 15 days

### CROWDING\*\*\*



Before



After 10 months

\* Clinical pictures courtesy of Dr Rita Myrland and Dr Mari Dubland, University of Tromsø, Norway. \*\* Pellegrino Gioacchino, Management of eruption problems with preformed silicone orthodontic devices Poster presented at: 21. Jahrestagung der Deutsche Gesellschaft für Kinderzahnheilkunde 25.09 - 27.09 2014; Freiburg, Germany \*\*\* Pellegrino Gioacchino, Deep bite correction with a preformed appliance, Poster with oral presentation presented at: 12th Congress of European Academy of Paediatric Dentistry; 5th - 8th June 2014; Sopot, Poland

## INDICATIONS

		Deciduous dentition	Early mixed dentition	Late mixed dentition	Early permanent dentition
Excess overjet, excess overbite, deep bite	Severe		■	■	
	Moderate		■	■	■
	Mild		■	■	■
Anterior crowding (incisors and canines)	Severe		■	■	
	Moderate		■	■	■
	Mild		■	■	■
Dentoalveolar anterior crossbite of 1-2 teeth	Severe		■		
	Moderate		■		
	Mild		■		
Rotated anterior teeth	Severe		■		
	Moderate		■	■	
	Mild		■	■	■
Class II	Severe		■	■	
	Moderate		■	■	
	Mild		■	■	
Scissorsbite / Complete mandibular posterior lingual crossbite (i.e. mandibular posterior teeth completely on the lingual side of the maxillary posterior teeth)	Severe	■			
	Moderate	■			
	Mild	■			
Gummy Smile (Treatment start before the eruption of permanent maxillary central incisors)	Severe		■		
	Moderate		■		
	Mild		■		
Open bite (High-model of LM-Activator)	Severe		■		
	Moderate		■	■	
	Mild		■	■	

### Contraindications:

- Skeletal Class III
- Midline discrepancy > 3mm\*
- Very narrow upper arch\*
- Palatally impacted teeth\*
- Fully erupted anterior teeth that require torquing\*
- Teeth requiring intrusion

\* May be treated with combination treatment (LM-Activator together with other appliances such as quad helix)

The treating doctor is solely responsible and liable for diagnosis, treatment, and evaluating whether treatment with LM-Activator, LM-Trainer or any other LM-Dental product is appropriate for a specific patient, and for the outcome of any treatment with LM-Activator, LM-Trainer or any other LM-Dental product. Product used, and use of products shall be determined solely by doctor and evaluated for use with each individual patient where appropriate. Please refer to manufacturer's Instructions for use.



“Our results showed distinct improvements in overjet, overbite, sagittal molar relationship, and crowding in the treated subjects.”

Myrlund, Rita, et al. “One year treatment effects of the eruption guidance appliance in 7- to 8-year-old children: a randomized clinical trial.” The European Journal of Orthodontics (2014): cju014. <http://dx.doi.org/10.1093/ejo/cju014>

“An advantage of the eruption guidance appliance is that it not only guides the eruption of the teeth but also simultaneously acts on the transversal, sagittal, and vertical relationships of both dental arches.”

Keski-Nisula, Katri, et al. “Orthodontic intervention in the early mixed dentition: A prospective, controlled study on the effects of the eruption guidance appliance.” American Journal of Orthodontics and Dentofacial Orthopedics 133.2 (2008): 254-260. <http://dx.doi.org/10.1016/j.ajodo.2006.05.039>



## LMActivator 2

New features: Incisal reinforcement for deep bite | Narrow and wide versions for different arch forms | Highest surface quality (A-1, SPI AR-106)



Reinforcement with hard incisal surfaces.



LM-Activator 2 Low Short

Model with a shorter molar section for patients whose second molars have not yet erupted. Delivered in a yellow box.

Size	Narrow	Narrow Reinforced	Wide	Wide Reinforced
35	94235LSN	94235LSNR	94235LSW	94235LSWR
40	94240LSN	94240LSNR	94240LSW	94240LSWR
45	94245LSN	94245LSNR	94245LSW	94245LSWR
50	94250LSN	94250LSNR	94250LSW	94250LSWR
55	94255LSN	94255LSNR	94255LSW	94255LSWR
60	94260LSN	94260LSNR	94260LSW	94260LSWR
65	94265LSN	94265LSNR	94265LSW	94265LSWR
70	94270LSN	94270LSNR	94270LSW	94270LSWR



LM-Activator 2 Low Long

Model with a longer molar section for patients whose second molars have erupted. Delivered in a blue box.

Size	Narrow	Narrow Reinforced	Wide	Wide Reinforced
35	94235LLN	94235LLNR	94235LLW	94235LLWR
40	94240LLN	94240LLNR	94240LLW	94240LLWR
45	94245LLN	94245LLNR	94245LLW	94245LLWR
50	94250LLN	94250LLNR	94250LLW	94250LLWR
55	94255LLN	94255LLNR	94255LLW	94255LLWR
60	94260LLN	94260LLNR	94260LLW	94260LLWR
65	94265LLN	94265LLNR	94265LLW	94265LLWR
70	94270LLN	94270LLNR	94270LLW	94270LLWR



LM-Activator 2 High Short

Model with a shorter molar section for patients whose second molars have not yet erupted. Delivered in an orange box. 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.

Size	Narrow	Narrow Reinforced	Wide	Wide Reinforced
35	94235HSN	94235HSNR	94235HSW	94235HSWR
40	94240HSN	94240HSNR	94240HSW	94240HSWR
45	94245HSN	94245HSNR	94245HSW	94245HSWR
50	94250HSN	94250HSNR	94250HSW	94250HSWR
55	94255HSN	94255HSNR	94255HSW	94255HSWR
60	94260HSN	94260HSNR	94260HSW	94260HSWR
65	94265HSN	94265HSNR	94265HSW	94265HSWR
70	94270HSN	94270HSNR	94270HSW	94270HSWR



LM-Activator 2 High Long

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

Size	Narrow	Narrow Reinforced	Wide	Wide Reinforced
35	94235HLN	94235HLNR	94235HLW	94235HLWR
40	94240HLN	94240HLNR	94240HLW	94240HLWR
45	94245HLN	94245HLNR	94245HLW	94245HLWR
50	94250HLN	94250HLNR	94250HLW	94250HLWR
55	94255HLN	94255HLNR	94255HLW	94255HLWR
60	94260HLN	94260HLNR	94260HLW	94260HLWR
65	94265HLN	94265HLNR	94265HLW	94265HLWR
70	94270HLN	94270HLNR	94270HLW	94270HLWR

# LMActivator

Used by hundreds of thousands of patients around the world | Clinically and scientifically proven | Evidence from cohort controlled and RCT research results



LM-Activator Low Short

Model with a shorter molar section for patients whose second molars have not yet erupted. Delivered in a yellow box.

Size	Narrow
10	94010LS
15	94015LS
20	94020LS
25	94025LS
30	94030LS
35	94035LS
40	94040LS
45	94045LS
50	94050LS
55	94055LS
60	94060LS
65	94065LS
70	94070LS



LM-Activator Low Long

Model with a longer molar section for patients whose second molars have erupted. Delivered in a blue box.

Size	Narrow
40	94040L
45	94045L
50	94050L
55	94055L
60	94060L
65	94065L
70	94070L



LM-Activator High Short

Model with a shorter molar section for patients whose second molars have not yet erupted. Delivered in an orange box. 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.

Size	Narrow
20	94020HS
25	94025HS
30	94030HS
35	94035HS
40	94040HS
45	94045HS
50	94050HS
55	94055HS
60	94060HS
65	94065HS
70	94070HS



LM-Activator High Long

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

Size	Narrow
45	94045H
50	94050H
55	94055H
60	94060H
65	94065H
70	94070H

## LM-ACTIVATOR STARTER KIT

The Starter Kit contains everything necessary to get started with LM-Activator. All Starter Kits include LM-Activator in different sizes.



LM-Activator 2 Starter Kit  
- Low Short Narrow  
94500LSNR

LM-Activator 2 Starter Kit  
- Low Short Wide  
94500LSWR

LM-Activator 2 Starter Kit  
- Low Long Narrow  
94500LLNR

LM-Activator 2 Starter Kit  
- Low Long Wide  
94500LLWR

LM-Activator 2 Starter Kit  
- High Short Narrow  
94500HSNR

LM-Activator 2 Starter Kit  
- High Short Wide  
94500HSWR

LM-Activator 2 Starter Kit  
- High Long Narrow  
94500HLNR

LM-Activator 2 Starter Kit  
- High Long Wide  
94500HLWR

## LM-ACTIVATOR 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.



LM-Activator clinic marketing brochure  
M1061EN

Instructions for patients in English  
LM 94533 15 pcs



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



Patient motivational material  
LM 94531 poster & stickers 15 pcs  
  
- 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-ORTHO SIZER

LM-OrthoSizer is a measure for aiding the selection of the appropriate LM-Activator size. It can be used with or without its handle.

The measured size is indicative and LM-Activator should always be fitted to ensure the correct size.



### LM-OrthoSizer

- LM 9400 LM-OrthoSizer without handle
- LM 942526 LM-OrthoSizer with handle (simple stem)
- LM 942826 LM-OrthoSizer with handle (cone socket)

- 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
- Orthosizer is also compatible with mirror handles:
  - LM 25 ES
  - LM 25 XSI
  - LM 25 SI
  - LM 28 ES
  - LM 28 XSI

NEW



### LM-Activator 2 OrthoSizer

LM 9402 LM-Activator 2 OrthoSizer without a handle

- A further improved scale with measures for both mandible and maxilla.
- Measures the distance across the incisors from the distal surface of the left lateral incisor to the right lateral incisor both for the mandible and for the maxilla.

## LMTrainer



LM-Trainer Medium  
LM 94100T

- Slots for incisors and cuspids
- Lip bumper

NEW



LM-Trainer 2 M  
LM 94100T2



LM-Trainer Small  
LM 94100S

- Slots for incisors, lip bumper
- Smaller and softer than LM-Trainer Medium

NEW



LM-Trainer Braces 2 M  
94100TB2M



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

NEW



LM-Trainer Braces 2 S  
94100TB2S

ORTHODONTIC HAND INSTRUMENTS



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.



Bending the end of an arch wire can be problematic. Working space is limited and the wire is 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.



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

- For measuring overjet and overbite
- Millimeter scale, total length 25 mm

Ligature On-Off SL

- LM**ErgoSense LM 414-17CL ES
- LM**ErgoMax LM 414-17CL XSI

Plastic Ligature Applicator

- LM**ErgoSense LM 416-417 ES
- LM**ErgoMax LM 416-417 XSI
- LM**ErgoNorm LM 416-417 SI

Arch Wire Tucker

- LM**ErgoSense LM 412-413 ES
- LM**ErgoMax LM 412-413 XSI

Ligature Tucker

- LM**ErgoSense LM 414-415 ES
- LM**ErgoMax LM 414-415 XSI
- LM**ErgoNorm LM 414-415 SI

Ligature Tucker - Scaler U15

- LM**ErgoSense LM 414-150 ES
- LM**ErgoMax LM 414-150 XSI
- LM**ErgoNorm LM 414-150 SI



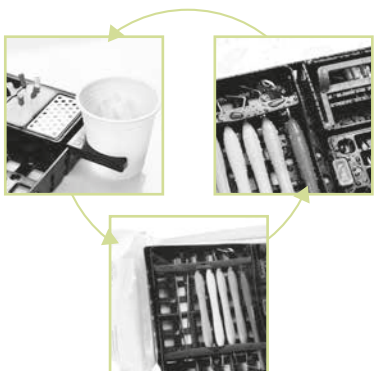
### LM-SERVOMAX TRAY

LM-ServoMax – optimal work flow & rational maintenance.

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



### LM-SERVOMAX MODULES

■ 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.



LM-ServoMax tray set  
LM 6410

- Includes: 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 locking LM-Servo 5 or LM-Servo 8 instrument cassette on the tray

### FOR ACCESSORIES



LM-ServoMax standard case  
LM 6420



LM-ServoMax restoration / 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



LM-ServoMax bur endofile case  
LM 6450

- For eight burs and fourteen files
- Includes adjustment and measuring scales for files



LM-ServoMax syringe holder  
LM 6495

- A stand attachable to the LM-ServoMax tray to place the anaesthetic syringe safely in the needle guard










LM-ServoMax  
waste cup holder  
LM 6490



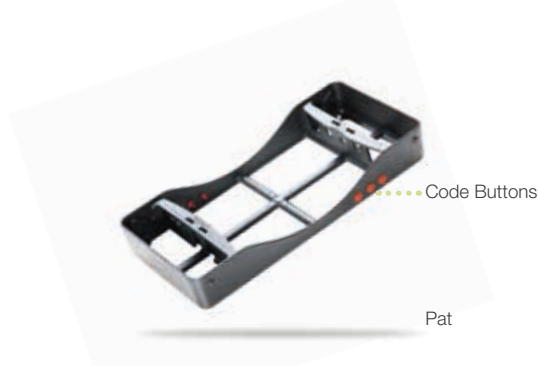
LM-ServoMax  
instrument rack

-  LM 6471 black
-  LM 6472 orange
-  LM 6473 blue
-  LM 6474 red
-  LM 6475 green

- Colour coded rails for attaching instruments to the LM-ServoMax tray
- Length adjustable according to the size of instruments
- Package 2 pcs / color

## LM-SERVO CASSETTES

In LM-Servo cassettes hand 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





## LM-SERVO E CASSETTES

The LM-Servo evolution series is designed to improve safety and traceability. The cassettes are equipped with safety shields preventing sharp injuries and protecting the blades. The option for RFID tagging enables complete and reliable traceability with unique LM Dental Tracking System™.

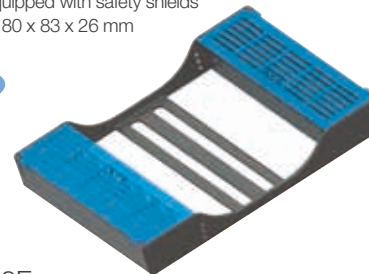
The cassettes can be coded with silicone code buttons and attached to the LM-ServoMax with a special lock (LM 6417).







LM-Servo 5E

-  LM 6551 grey
-  LM 6552 blue
-  LM 6553 green
-  LM 6554 yellow

- For five instruments
- Cassette is equipped with safety shields
- Dimensions: 180 x 83 x 26 mm



LM-Servo 8E

-  LM 6581 grey
-  LM 6582 blue
-  LM 6583 green
-  LM 6584 yellow

- For eight instruments
- Cassette is equipped with safety shields
- Dimensions: 180 x 133 x 26 mm

## CODING PRODUCTS













### Code buttons

-  LM 6000 blue
-  LM 6001 green
-  LM 6002 orange
-  LM 6003 red
-  LM 6004 yellow
-  LM 6005 brown

- On all of the Servo cassettes' there are holes for code buttons
- Package 20 pcs / color



### Code rings

-  LM 5000 blue
-  LM 5001 green
-  LM 5002 orange
-  LM 5003 red
-  LM 5004 yellow
-  LM 5005 black
-  LM 5006 white
-  LM 5007 brown
-  LM 5008 lavender
-  LM 5009 pink
-  LM 5010 dark grey
-  LM 5011 lime

- For coding hand instruments
- Package 50 pcs / color

NEW!

## INSTRUMENT HANDLING & MAINTENANCE – LM DENTAL TRACKING SYSTEM™

# Dental Tracking System™

## Unique intelligence with RFID technology

LM has long been the pioneer in dental instrumentation. Working together with dental clinics has revealed many challenges in material handling and traceability. The logistics and instrument maintenance could be managed better and more effectively and there are increasing requirements for patient safety and documentation.

In designing the new LM-ErgoSense instrument LM developed the idea of an intelligent instrument. In addition to ergonomic comfort it offers unique opportunities to improve material handling and patient safety in the clinic. An advanced RFID chip can be integrated into all LM-ErgoSense instrument handles enabling complete and reliable traceability of the instrument simply by scanning the tiny RFID chip.

The built-in RFID technology together with scanning readers and software create a unique LM Dental Tracking System™ (DTS) which improves asset management and accelerate and document material flows.

DTS effectively allows you to monitor, track and log materials and instruments reducing the time and costs throughout the process. It helps to schedule the material purchases, keeps track of the instruments' circulation and provides valuable information regarding maintenance needs and instrument history. Traceability helps to ensure the use of only safe and clean instruments and takes the patient safety to a whole new level.

Knowing  
is power.



More about the system on [www.dentaltracking.com](http://www.dentaltracking.com)

## INSTRUMENT HANDLING & MAINTENANCE – 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.

## LM-RONDOPLUS SHARPENING MACHINE



■ Interactive demonstration and instruction CD and handy quick guide included!

Pat

### 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



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.

### Spare Parts

Grinding stone

■ LM 8660 600 grit (white)

■ LM 8640 400 grit, coarser (grey)

■ LM 8632 320 grit, coarsest (black)

LM 8630 Foot pedal

LM 8550 Emery tapes, 5 pcs

LM 8602 LM-Fingo, 2 pcs

LM 8606 LM-Fingo, 6 pcs

## INSTRUCTIONS FOR INSTRUMENT MAINTENANCE

### 1. Pre-disinfection

Do not leave dirty instruments dry - put them into disinfecting solvent as soon as possible. Pay close attention to the correct dosages and exposure times. If you are using a thermoisinfectant, skip service cycle steps 1-2.

### 2. Rinsing

Rinse instruments thoroughly under warm running water.

### 3. Cleaning

Washing machine / Thermoisinfectant

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.

**Note!** Do not sharpen LM Sharp Diamond instruments.

### 7. Packing

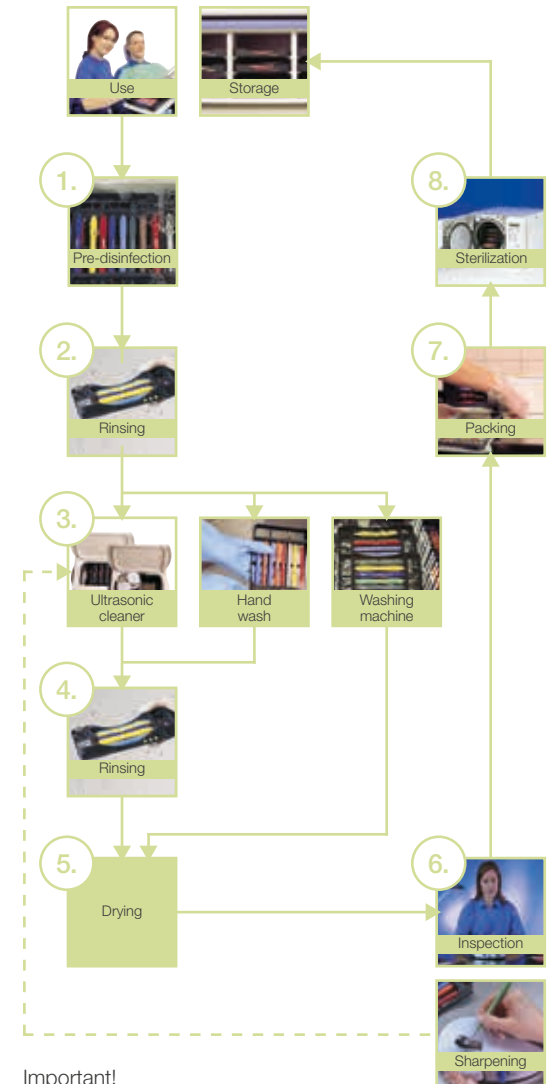
Pack serviced and cleaned instruments for sterilization.

### 8. Sterilization

Autoclave: place clean, dry and properly packed instruments into the autoclave.

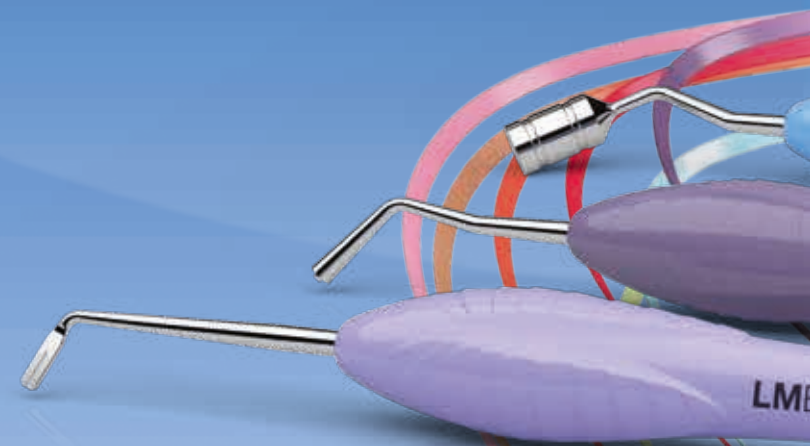
Hot-air sterilization: place clean, dry and properly packed instruments into the hot-air sterilizer; do not fit them in too tightly; ensure that temperature is correct (max. 180 °C/355 °F).

**Note!** LM extraction instruments max 134 °C/273 °F.



Important!

- Regularly service the machines
- Follow all user instructions
- Pay special attention to correct dosage and exposure
- Use LM-Servo cassettes to protect the instruments and avoid sharp injuries



# LM Dental

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For catalogue language versions and other LM marketing materials please go to [materialbank.lm-dental.com](http://materialbank.lm-dental.com) or scan the QR code for LM Material Kit App



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