

### LM-DENTAL™

## You can feel the different

We are LM-Dental<sup>™</sup>, a dental instrument manufacturer located in Parainen, a town in southwest Finland.

Ever since founded in 1973 - more than 50 years ago - we have focused on developing, manufacturing, and marketing high-tech dental hand instruments. We apply the same high standards also to all other LM™ product groups: dental instrument tracking system, ultrasonic devices, and orthodontic appliances.

Our goal at LM™ is to create genuine value for dental care professionals by making instruments that are safe, efficient, and pleasant to use. We aim to make a difference where it counts: by helping people in all aspects of dentistry.

At  $LM^{\mathbb{M}}$  we are truly dedicated to manufacturing excellence, allowing us to serve our customers with products that are precise, durable, and reliable. All our products are manufactured in Finland.

Continuous improvement in services and standards has always been our guiding principle, and by following that we've grown from a small garage workshop in the Finnish archipelago to a distinguished player in the global dental industry. Today we are the market leader in Nordic countries exporting 80% of our products globally.

#### WITH US YOU CAN FEEL THE DIFFERENCE.

Read more at www.lm-dental.com/About us/Who we are





- 2 LM-DENTAL™
  Feel the difference | LM™ product key features | Instrument handles and tip coatings
- DIAGNOSTICS

  Mirror handles | Explorers | Periodontal probes | Furcation probe
- PERIODONTICS

  Sickle scalers | Dual Gracey instruments | Universal curettes | Gracey curettes |

  Sharpen-free LM Sharp Diamond™ coated instruments | Diamond files |

  Hoe scalers | LM-ErgoMix™ implant instruments
- A1 RESTORATION

  Cavity preparation instruments | Instruments for contouring and sculpting |

  Non-stick LM Dark Diamond<sup>™</sup> coated instruments | LM-Arte<sup>™</sup> instruments

  for esthetic restorations | LM-MultiHolder<sup>™</sup> system
- ENDODONTICS
  Endodontic hand instruments
- 55 EXTRACTION

  Elevators | Luxating instruments | Root tip instruments
- 58 ORTHODONTICS
  Orthodontic hand instruments
- INSTRUMENT HANDLING & MAINTENANCE

  LM Dental Tracking System™ | LM-Servo™ instrument cassettes |

  LM-ServoMax™ tray system | Coding products | LM-RondoPlus™ sharpening machine
- ORTHODONTIC APPLIANCES

  LM-Activator™ | LM-Activator™ 2 | LM-OrthoSizer™ | LM-Trainer™





### PIONEERING SINCE 1973

## Instrument ergonomics

## HOW TO DEFINE AN ERGONOMIC 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-Dental™, defined instrument ergonomics already in the 1980s.

## PIONEERING INNOVATIONS IN DENTAL INSTRUMENT ERGONOMICS

As ergonomics being one of the first key concepts for LM™ product line, were the oversized handles the first step on that path and introduced already in 1974. In the end of 1980s ergonomics were further enhanced by the first silicone handles and the year 1995 marked the year for our first oversized silicone handle LM-ErgoMax™.

The greatest outcome of intense research and cooperation with dental clinicians was the launch of LM-ErgoSense® instruments in 2015 with even more ergonomic grip and with possibility to integrate a trackable LM DTS™ RFID tag into the handle making it the first "smart instrument" on the market.

What LM™ brand is widely known and recognized is the innovation introduced already in 1980: the color-coded handles to ease the identification of the instrument. These radical product theses at the time - a thicker handle, optimized shape, elastic surface, lightness and color-coding - have become industry wide standards in the 21st century. We are the innovation leader that others copy.



50 YEARS OF MAKING THE DIFFERENCE

Read more at www.lm-dental.com





#### Fresh color-coding

- ease the identification during clinical procedures and maintenance Elastic, ergonomic silicone surface and optimal contouring

- comfortable and non-slip grip

#### Optimal rigidity

 excellent sensitivity and efficiency
 outstanding corrosion resistance

#### LM-ErgoSense® handle \*)

- oversized large diameter
- available with integrated LM DTS™ RFID tag

- available with sharpen free or non-stick coated tips

## Precision formed tips and high-quality finishing

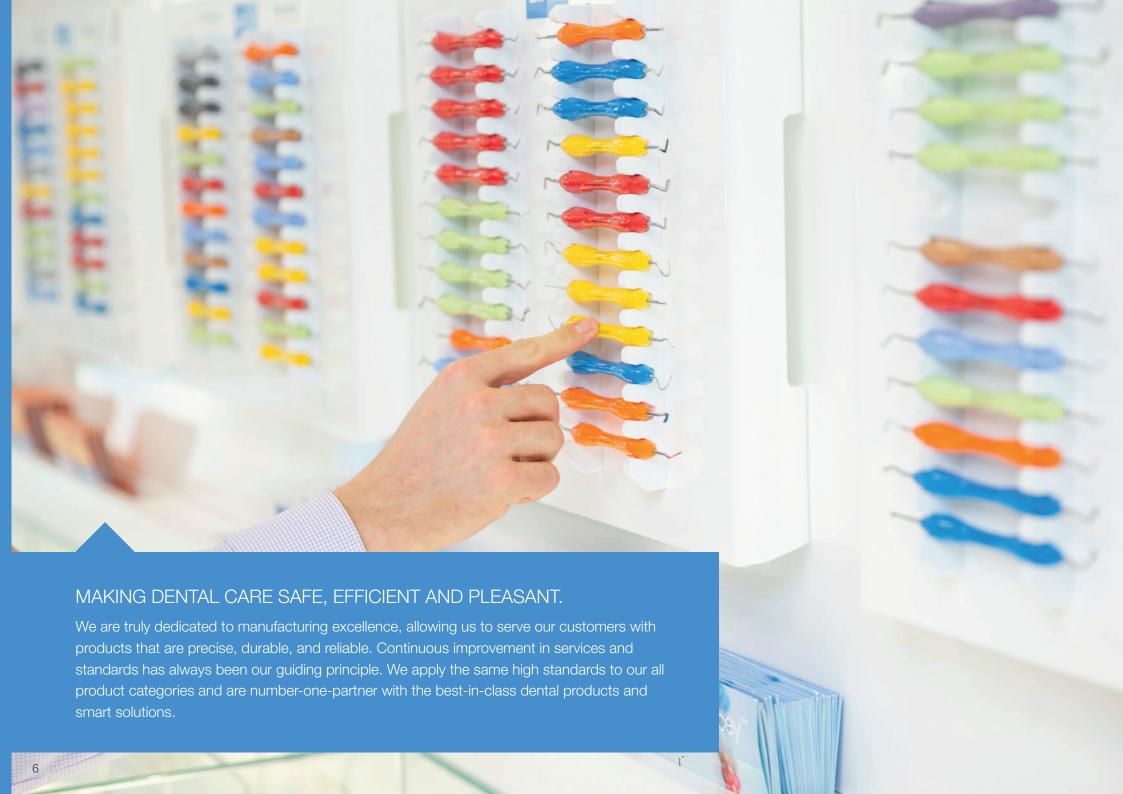
- extremely sharp and smooth cutting edge

#### Special alloyed metal core

- lightweight structure
- metal-to-metal connection for enhanced tactile sensitivity

## LM-DuraGradeMax™ stainless steel tips

- high wear resistance
- immune to corrosion
- uncoated: can be resharpened



LM-ErgoSense® instrument handle

ENHANCING COMFORT AND PERFORMANCE

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. An ergonomic, high quality hand instrument naturally feels good in the hand.

The LM-ErgoSense® instrument handle is outcome of intense research and product development in close cooperation with dental clinical experts. It is truly a unique combination of ergonomic, functional design and high-tech in form of integrated RFID technology.

#### OVERSIZED Ø 13.7 MM SILICONE HANDLE

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).

#### RATED AS BEST HAND INSTRUMENT

LM-ErgoSense® was rated as the best in 10 out of 14 specified usability features compared with the other tested instruments in a dental scaling simulation (1).

#### "FEELS GREAT IN THE HAND"

In study focusing on ergonomics, usability characteristics and work productivity of different hand instruments the thick, silicone coated LM™ instruments were the most preferred choice in regard to all 18 usability criteria used in the test (2).

#### UNIQUE INTELLIGENCE INSIDE

Integrated LM DTS™ RFID tag offers unique opportunities to improve material handling and patient safety. Read more on page 60.



### LM SHARP DIAMOND™

## Sharpen-free instruments

Sharpen free LM Sharp Diamond™ coated instruments are ideal choice for clinicians who frequently use hand instruments and want to minimize the time spent on instrument maintenance. These instruments present optimal characteristics of superior sharpness, tactile sensitivity and comfort while combined with premium ergonomics of LM-ErgoSense® handle.

LM Sharp Diamond™ instrument tip is made from exceptionally durable special metal alloy, and its wear resistance is enhanced by a protective micro membrane coating providing excellent sharpness and control. LM Sharp Diamond™ instruments are well-suited for all forms of scaling and tips retain their original functionality, size and shape throughout their lifetime. The time saved from sharpening can be used for productive work and patient care.

What do the dental hygiene experts say? Scan the QR for the video.





66

doing my job - I'm perfecting it. I choose to work smart. I choose to work efficiently. I choose LM Sharp Diamond™."

Dr. Joy Void-Holmes

RHD, BSDH, DHSc, CEO and founder of Dr. Jov

### CHOOSE SHARP.

#### SHARPEN FREE MICRO COATING

Savings of time & money

Impro

Long-lasting superior sharpness

Highest rated ergonomics with sensational grip \*

mproved productivity & clinical results

#### DIAMOND-LIKE FEATURES

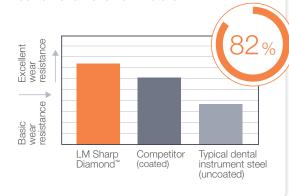


#### **HARDNESS**

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

#### WEAR RESISTANCE \*\*

82% decrease in wear compared to typical dental hand instrument material.



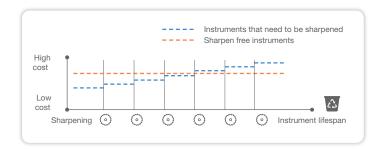
# About SHARPNESS of dental hygiene instruments

The typical lifespan of a dental instrument varies between 6 to 18 months, depending on usage frequency and handling techniques. For optimal performance, most hygienists recommend sharpening instruments at least every two weeks. Prolonged usage without regular sharpening can result in bluntness, reducing the effectiveness of your work and ultimately diminishing patient comfort and satisfaction.

A significant number of instruments are often used beyond the recommended time frame, leading to decreased performance due to dullness. While sharpening is vital for maintaining sharpness, excessive sharpening can alter the original cutting shape and angularity, potentially decreasing instrument durability and increasing the risk of breakage.

It is of utmost importance for hygienists to utilize sharp instruments. Sharp scalers not only reduce fatigue and ergonomic strain for hygienists but also contribute to enhanced patient comfort.

## COMPARISON of sharpen free instruments and instruments to be sharpened



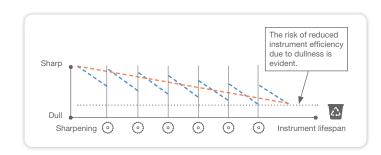
#### COST PERSPECTIVE

Switching from conventional to sharpen free instruments a small clinic allows to reduce costs significantly, even 10 000 €, in one year.

The purchase price of sharpen free instruments is ~25% higher compared to instruments that can be resharpened. However, the cost of sharpening services or doing it yourself, counting time, amounts

to easily 5-10 € per sharpening. As a result, the price difference between sharpen free hand instruments and those that require sharpening becomes negligible already after approximately 3-4 sharpening sessions.

By choosing sharpen free hand instruments, the need for sharpening is eliminated. This not only saves valuable time but also reduces expenses, which can then be redirected towards more productive work.



## SHARPNESS AND EFFECTIVENESS PERSPECTIVE

Sharpen free instruments can retain their sharpness for 82% longer compared to instruments that are resharpened, which tend to lose their sharpness more quickly.

Additionally, resharpening instruments display greater fluctuations in sharpness over time.



#### SHAPE AND SAFETY PERSPECTIVE

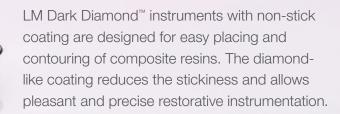
Sharpen free instruments maintain their original design, shape, and angulation consistently throughout their entire lifespan.

Excessive sharpening of instruments can alter the original cutting shape and angularity, which may lead to reduced instrument durability and increased risk of breakage.

### LM DARK DIAMOND™

## Non-stick coated instruments





- Contemporary diamond-like carbon (DLC) coating reduces stickiness for smooth composite placement
- Hard surface protecting the tip from scratches
- Smooth surface for easy cleaning
- Dark coating color for minimal reflections, and maximal contrast against filling
- Ergonomic LM-ErgoSense® handle for excellent precision and feel

### LM-Arte<sup>™</sup> Dark Diamond edition

### PLEASANT AND PRECISE SCULPTING OF COMPOSITE

Non-stick coated LM-Arte<sup>™</sup> Dark Diamond instruments are the latest outcome of StyleItaliano™ and LM-Dental™ collaboration featuring exclusive coating for smooth and precise non-stick placement and sculpting of composite resins.

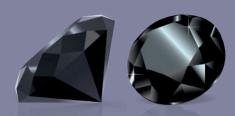
What do the StyleItaliano™ experts say? Scan the QR for the video.

See LM-Arte<sup>™</sup> product range on pages 45-48.



The sensitivity, flexibility and precision are the same as with conventional LM-Arte™ instruments, but the LM Dark Diamond™ coating eliminates the issue of resin sticking to spatulas, even for the most delicate resins."





## LM-Dental<sup>™</sup> and StyleItaliano<sup>™</sup>

## LM-Arte<sup>™</sup> restorative instruments

#### SIMPLIFYING ESTHETIC RESTORATIONS

LM-Arte<sup>™</sup> is a range of innovative instruments for esthetic restorations that is designed especially for composite layering. Each instrument is color-coded and named after its main function, enabling you to administer easy, efficient and quick restorative treatments. The lightweight and ergonomic LM<sup>™</sup> handle design, together with high-quality tip materials, provides excellent tactile sensitivity and easy handling or the best clinical results.

#### CO-OPERATION MAKING THE DIFFERENCE

LM-Arte™ instrument series has been developed in collaboration with StyleItaliano™, a group of skilled dentists who share our passion for improving dentistry.

The StyleItaliano™ movement emerged from a simple idea of two friends - Dr. Walter Devoto and Dr. Angelo Putignano. The renowned experts in conservative and esthetic dentistry had noticed that although materials suitable for creating beautiful direct restorations were available, appropriate instruments for employing these successfully



were lacking. With LM-Dental™'s dedication to manufacturing excellence the unique concept of LM-Arte™ instruments was developed, and it has been a breakthrough in esthetic dentistry.



### BE PART OF THE SUCCESS!

Visit StyleItaliano™ website at www.styleitaliano.org for restorative clinical cases with LM-Arte™ instruments.





Follow and join the social media channels!











## 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 is the diameter or material of the grip surfece of the hand instrument handle. LM™ hand instruments are available with a selection of different handles all of them 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.



#### COLORS, NAMING AND CODING

To facilitate color coding and brighten up working practices all the LM™ 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.

LM-ErgoSense® handle is available with integrated LM DTS™ RFID tag. The compatibility with the LM Dental Tracking System™ offers many opportunities to improve asset management and patient safety.



#### LM-ErgoMax™

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



#### Codes, symbols and diameters

#### **LM**ErgoSense®

ES = LM-ErgoSense® handle (Ø 13.7 mm)

EST = LM-ErgoSense® handle with integrated LM DTS™ RFID tag

**XSI** = LM-ErgoMax<sup>™</sup> handle (Ø 11.5 mm)

## Special handles



#### LM-ErgoNorm™

The thinner handle that functions best in light clinical procedures.



#### LM-ErgoMix™

The LM-ErgoMix™ handle for exchangeable tips offers all the economical and ecological benefits of retipping. See page 39.

#### LM-ErgoSingle™

Well balanced mirror handle with better reachability. See page 15.

#### **LM**ErgoNorm™

**SI** = LM-ErgoNorm<sup>™</sup> handle (Ø 8.5 mm)

#### L**M**FraoMix™

**EM** = LM-ErgoMix<sup>™</sup> handle (Ø 12.5 mm)

#### **LM**ErgoSingle™

**ESI** = LM-ErgoSingle<sup>™</sup> handle (Ø 11.5 mm)

# Choosing instruments with special coated tips

#### SHARPEN FREE PROPHY AND PERIO

Sharpen free LM Sharp Diamond™ instrument tips are made from exceptionally durable special metal alloy, and their wear resistance is enhanced by a protective micro membrane coating made using the most advanced PVD (Physical Vapor Deposition) technology. Choose sharp and work efficiently.



#### **LM**ErgoSense®

**SDES** = LM-ErgoSense® (ES) handle with sharpen free LM Sharp Diamond™ (SD) coating

#### NON-STICK RESTORATIVE INSTRUMENTS

LM Dark Diamond™ instruments with non-stick coating allow easy placing and contouring of composite resins. Dark colored tips provide maximum contrast against the filling and reduce the reflections.





#### **LM**ErgoSense®

**DDES** = LM-ErgoSense® (ES) handle with non-stick LM Dark Diamond™ (DD) coating

#### PATIENT SAFETY AND TRACEABILITY

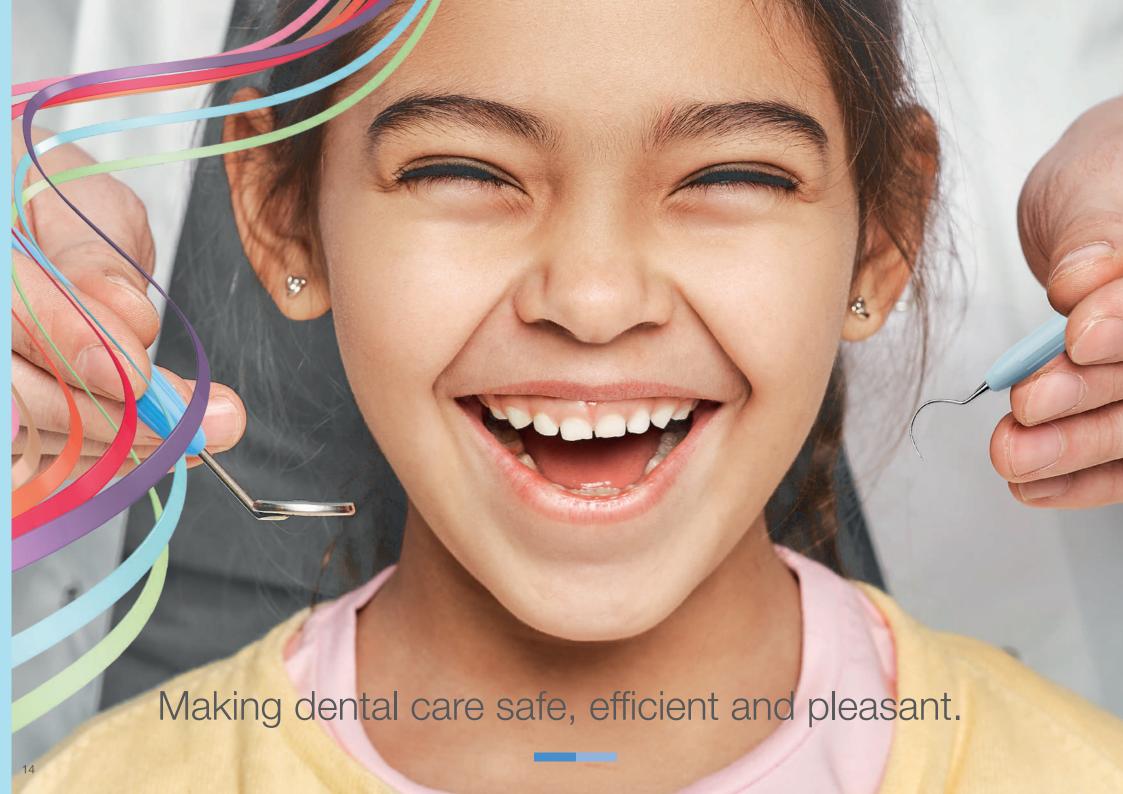
Coated instruments, like all LM<sup>™</sup> hand instruments with LM-ErgoSense<sup>®</sup> handle, are available with integrated LM DTS<sup>™</sup> RFID tag for the compatibility with unique LM Dental Tracking System<sup>™</sup>.







SDEST / DDEST = LM-ErgoSense® (ES) handle with sharpen free (SD) or non-stick (DD) coating and integrated LM DTS™ RFID tag (T)



#### MIRROR HANDLES

#### Simple stem

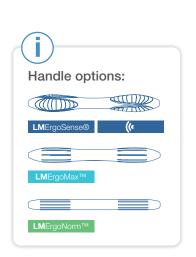
LM 25 mirror handle threads are in accordance with international standard M2.5. The mirror shank must have a diameter of 2.5 mm.

#### 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.









### LM-ErgoSingle<sup>™</sup> Mirror Handle

- · Well balanced, better reachability
- · Color options: red, grey and blue

- 25ESIRED
- 25ESIGREY
- 25ESIBLUE

- 28ESIRED
- 28ESIGREY
- 28ESIBLUE

#### Mirror Handle 25

- Simple stem design, single-ended
- · Color options: red, grey and blue

#### **LM**ErgoSense®

- 25ESRED
- 25ESGREY
- 25ESBLUE

- 25ESREDT
- 25ESGREYT
- 25ESBLUET

- 25XSIRED
- 25XSIGREY
- 25XSIBLUE

#### **LM**ErgoNorm™

- 25SIRED
- 25SIGREY
- 25SIBLUE





- Cone socket design, UNF4-48 threads, single-ended
- · Color options: red, grey and blue

#### **LM**ErgoSense®

- 28ESRED
- 28ESGREY
- 28ESBLUE

- 28ESREDT 28ESGREYT
- 28ESBLUET

28XSIRED 28XSIGREY

28XSIBLUE

#### Mirror Handle, ortho

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

LMErgoSense® 25-26ES 25-26EST LMErgoMax™ 25-26XSI

LMErgoSense® 28-26ES

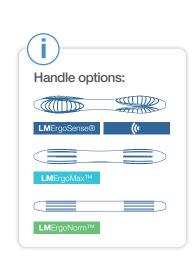
28-26EST LMErgoMax™ 28-26XSI



#### Mirror Handle JM

• For implant installation

LMErgoSense® 25-473ES 25-473EST LMErgoMax™ 25-473XSI



#### **EXPLORERS**

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







#### Explorer 5-8

• Standard explorer for diagnostic and operative procedures

LMErgoSense® 5-8ES

5-8EST

**LM**ErgoMax™

5-8XSI

LMErgoNorm™ 5-8SI



#### Explorer 5-9

• Standard explorer for diagnostic and operative procedures

**LM**ErgoSense®

5-9ES

5-9EST

**LM**ErgoNorm™





#### Explorer, centered 9-17C

- Standard explorer for diagnostic and operative
- Especially for probing distal surfaces of posterior teeth

9-17CES 9-17CEST

9-17CSI

9-17CXSI

**LM**ErgoNorm™





#### Explorer 17-23

- For distal surfaces (17)
- Elongated lower shank and "back-action" blade (17)
- For areas in the vicinity of proximal contact surfaces (17)
- Also for probing occlusal surface grooves (23)
- For detecting subgingival calculus (23)

LMErgoSense® 17-23ES

17-23EST

17-23XSI

LMErgoNorm™ 17-23SI



#### Explorer 17C-23

- For distal surfaces, centered tip (17C)
- For areas in the vicinity of proximal contact surfaces (17C)
- Also for probing occlusal surface grooves (23)
- For detecting subgingival calculus (23)

LMErgoSense® 17C-23ES

17C-23EST 17C-23XSI

**LM**ErgoNorm™ 17C-23SI





#### Explorer 3-6

· Standard explorer for diagnostic and operative procedures

LMErgoSense® 3-6ES

3-6EST

3-6XSI

LMErgoNorm™ 3-6SI



#### Explorer 11-12

- Angles similar to Gracey 11/12 (211-212)
- For probing proximal and cervical caries
- · For subgingival root examination

LMErgoSense® 11-12ES 11-12EST LMErgoMax™ 11-12XSI

LMErgoNorm™ 11-12SI

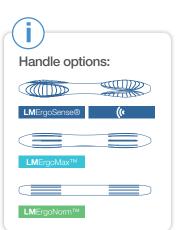












#### Flexplorer 11F-12F

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

 LMErgoSense®
 11F-12FES

 (€
 11F-12FEST

 LMErgoMax™
 11F-12FXSI

#### Explorer 18-19

- For prosthetic crowns, bridges and inlay-/onlay fillings
- Excellent sensitivity at seams

 LMErgoSense®
 18-19ES

 (€
 18-19EST

 LMErgoMax™
 18-19XSI

 LMErgoNorm™
 18-19SI

#### Explorer 29

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

 LMErgoSense®
 29EST

 (€
 29EST

 LMErgoMax™
 29XSI

 LMErgoNorm™
 29SI

#### Explorer 9

• Single-ended

 LMErgoSense®
 9ES

 (€
 9EST

 LMErgoMax™
 9XSI

 LMErgoNorm™
 9SI

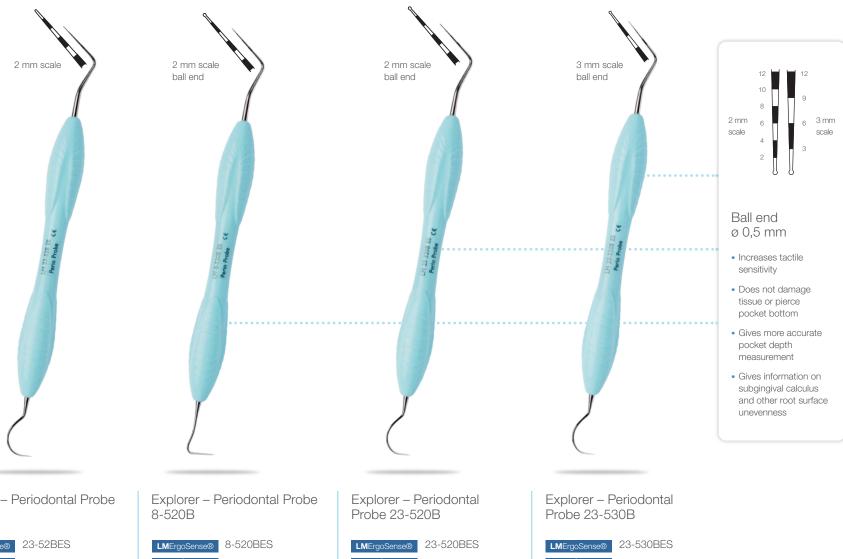
#### PERIODONTAL PROBES

Combination instruments for probing caries and parodontium.

- Most periodontal probes are available also in single-ended designs.
- Color-coded scales facilitate measurement of the gingival pocket







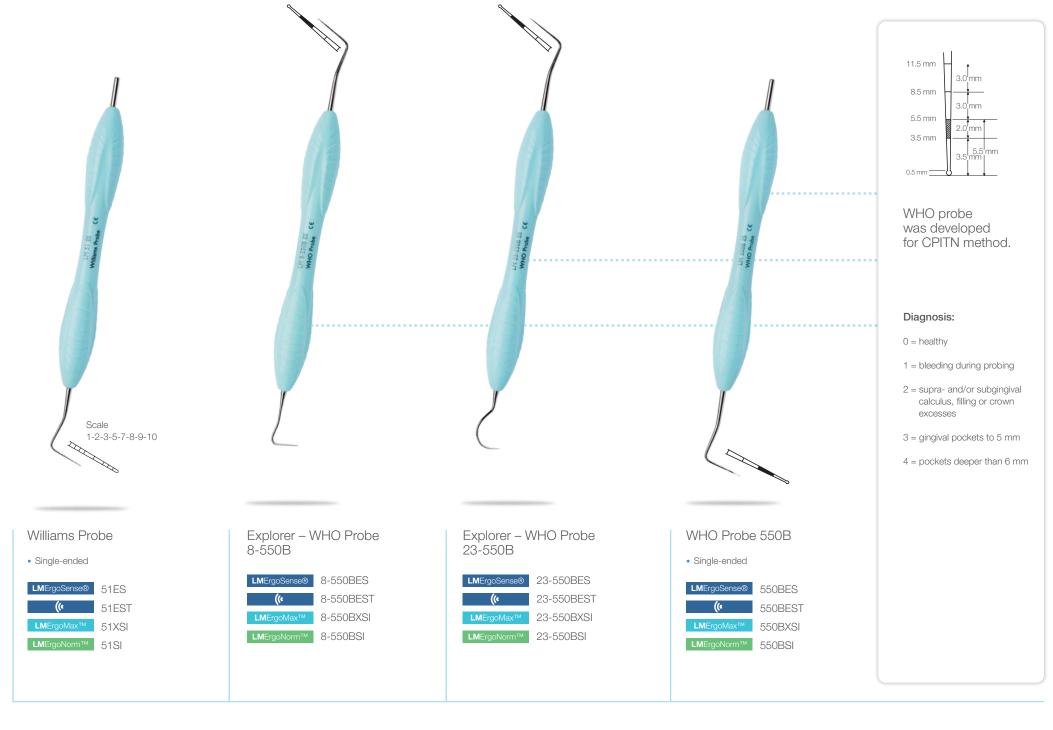


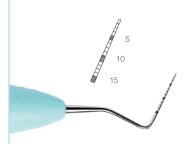
23-52BEST 23-52BXSI LMErgoNorm™ 23-52BSI

8-520BEST LMErgoMax™ 8-520BXSI LMErgoNorm™ 8-520BSI

23-520BEST **LM**ErgoMax™ 23-520BXSI LMErgoNorm™ 23-520BSI

23-530BEST **LM**ErgoMax™ 23-530BXSI LMErgoNorm™ 23-530BSI





#### North Carolina Probe 54B

• Single-ended

LMErgoSense® 54BES

54BEST

LMErgoMax™ 54BXSI



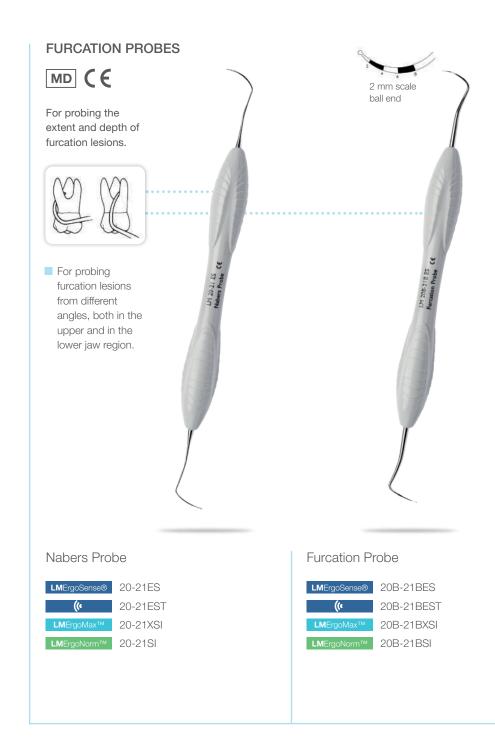
#### Marquis 12 Probe 53B

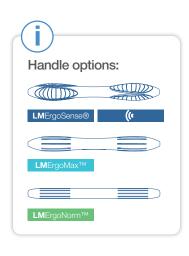
- Single-ended
- Similar to 530B but without ball end

LMErgoSense® 53BES

53BEST

LMErgoMax™ 53BXSI





#### SICKLE SCALERS



For the removal of supragingival calculus.

#### Instrumentation:

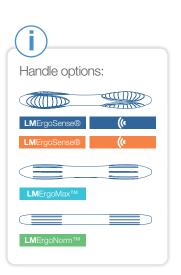
For calculus removal place the tip third of the scaler's cutting edge against the tooth. Tilt the instrument toward the tooth to achieve 70° to 80° angle between the tooth and the blade. Apply lateral pressure and activate the scaler by using vertical, diagonal or horizontal pull strokes. To maintain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







#### LM-SharpJack<sup>™</sup> SD

- Anterior/posterior scaler
- Thin dual-edged blades for easy and efficient interproximal access
- With sharpen free LM Sharp Diamond<sup>™</sup> coated tips



315-316SDES

315-316SDEST



#### Sickle LM23 Slim SD

- Universal scaler for anterior and posterior areas
- Thin version of popular LM23 scaler (313-314)
- Better access to interproximal areas
- With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

**LM**ErgoSense®

343-344SDES

((\*

343-344SDEST





Delicate working end. Especially for tight interdental spaces.





Mini Sickle

Universal scaler

LMErgoNorm™

For all tooth surfaces

• Fine, slightly angled blade

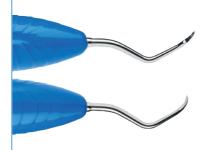
LMErgoSense® 311-312ES

311-312EST 311-312XSI

311-312SI



For all tooth surfaces, especially proximal surfaces.



- Posterior scaler
- in the Mini Sickle (311-312)



#### Sickle LM23

- Shorter blade and longer lower shank than

<b>LM</b> ErgoSense®	313-314ES
(6	313-314EST
<b>LM</b> ErgoMax™	313-314XSI
LMErgoNorm™	313-314SI

#### Micro Sickle

- Anterior/posterior scaler
- Delicate working end, elongated shank
- Ideal for tight interproximal surfaces

**LM**ErgoSense®

301-302ES

301-302EST 301-302XSI

LMErgoNorm™

301-302SI



#### Micro Sickle SD

 With sharpen free LM Sharp Diamond<sup>™</sup> coated tips



301-302SDES



301-302SDEST



#### Mini Sickle SD

 With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

311-312SDES 311-312SDEST



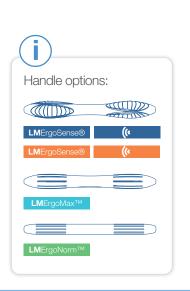
#### Sickle LM23 SD

 With sharpen free LM Sharp Diamond<sup>™</sup> coated tips



313-314SDES 313-314SDEST







#### Sickle NV1 SD

- Anterior scaler
- Sickle end for removing interproximal calculus and stain
- Disc end for lingual surfaces of incisors
- With sharpen free LM Sharp Diamond™ coated tips

317-318SDES 317-318SDEST



#### Sickle NV2 SD

- Posterior scaler
- Heavily angled long shank allows for posterior access
- Thin and long blades provide easy access to interproximals
- $\bullet$  With sharpen free LM Sharp Diamond  $^{\text{TM}}$  coated tips

319-320SDES



319-320SDEST



#### Scaler LM Nebraska 128

• Instrument for the anterior interproximals



128-128ES

128-128EST 128-128XSI





#### Scaler LM Nebraska 128 SD

 With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

128-128SDES

128-128SDEST



#### Sickle LM204S

• Sharply angulated shank and very fine working end

**LM**ErgoSense®

303-304ES 303-304EST

LMErgoNorm™

303-304XSI 303-304SI









#### Sickle LM204S SD

 With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

303-304SDES

303-304SDEST



#### Scaler H6-H7

- · For all tooth surfaces
- Longer shank and smaller lateral bending than in LM-SharpJack™ (315-316)

**LM**ErgoSense®

146-147ES

146-147EST

146-147XSI

**LM**ErgoNorm™

146-147SI



#### Scaler H6-H7 SD

 With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

146-147SDES

146-147SDEST



#### Push Scaler H4-H5

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

144-145ES

144-145EST

144-145XSI

LMErgoNorm™ 144-145SI



#### Laplander

- Similar to H6-H7 (146-147) but with a lateral bending
- Easy access to molar area and proximal surfaces

148-149ES

148-149EST

148-149XSI



#### Crane-Kaplan

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

**LM**ErgoSense®

322-323ES

322-323EST 322-323XSI

LMErgoNorm™

322-323SI



#### Mini Kaplan

 Same angle but with a more delicate blade than in the Crane-Kaplan (322-323)

**LM**ErgoSense®

333-334ES 333-334EST

333-334XSI

**LM**ErgoNorm™ 333-334SI



#### DUAL GRACEYS



LM Dual Gracey™ combines the benefits of a universal curette and a Gracey curette in one. These instruments are designed for the removal of supra and subgingival calculus from all tooth surfaces.

#### LM™ INNOVATION

Each LM Dual Gracey™ tip has two elliptical cutting edges – a mesial and a distal edge. This design allows for treatment both mesial and distal tooth surfaces. LM Dual Graceys™ are suitable for vertical, horizontal and oblique scaling techniques.



#### Design:

- Two elliptical cutting edges
- Rounded tip





#### Syntette™

- A combination of universal curette and Gracey 11/12 and Gracey 13/14 curettes
- For removal of supra and subgingival calculus in premolar and molar areas
- · For all tooth surfaces

 LMErgoSense®
 215-216ES

 (I\*
 215-216EST

 LMErgoMax™
 215-216XSI

 LMErgoNorm™
 215-216SI



#### Syntette<sup>™</sup> SD

With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

LMErgoSense® 215-216SDES (t 215-216SDEST



#### Mini Syntette™

- Excellent in tight, deep pockets
- Particularly well adapted for use on premolars' and incisors' palatinal and lingual surfaces

 LMErgoSense®
 215-216MES

 (€
 215-216MEST

 LMErgoMax™
 215-216MXSI

 LMErgoNorm™
 215-216MSI



#### Mini Syntette™ SD

With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

LMErgoSense® 215-216MSDES ((c 215-216MSDEST



#### Syntette<sup>™</sup> Anterior SD

- A combination of universal curette and Gracey 1/2 and Gracey 7/8 curettes
- For removal of supra and subgingival calculus in premolar and anterior areas
- For all tooth surfaces
- With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

LMErgoSense® 275-276SDES 275-276SDEST



#### Mini Syntette™ Anterior SD

- Excellent in narrow, deep pockets
- With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

275-276MSDES 275-276MSDEST

#### 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



with steel tips

#### McCALL



#### McCall 13S-14S

- For incisors and premolars
- Strong blade with rigid shank



222-223ES 222-223EST



222-223XSI









#### Mini McCall 13S-14S

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

**LM**ErgoSense®

222-223MES

((:

222-223MEST

**LM**ErgoMax™

222-223MXSI

**LM**ErgoNorm™

222-223MSI



#### McCall 17-18

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



LMErgoSense® 277-278ES

((:

227-278EST 277-278XSI

277-278SI

LMErgoNorm™





#### Curette LM 15-16

- Alternative for the McCall 13S-14S (222-223)
- For removal of heavy calculus

**LM**ErgoSense®

225-226ES

((\*

225-226EST 225-226XSI

**LM**ErgoNorm

225-226SI



#### Mini McCall 13S-14S SD

 With sharpen free LM Sharp Diamond<sup>™</sup> coated tips



222-223MSDES

((\*

222-223MSDEST

How to use



#### McCall 17S-18S

- Excellent in tight interdental spaces
- More delicate blade, working end narrower than in 17–18

**LM**ErgoSense®

279-280ES

((¢

279-280EST

**LM**ErgoMax™

279-280XSI

**LM**ErgoNorm™

279-280SI

#### **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.







285-286EST

285-286XSI

How to use

285-286SI

**LM**ErgoNorm™

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. How to use Mini Langers

#### Mini Langer 1/2

• For premolars and molars in the lower jaw

281-282MES

(€ 281-282MEST

MErgoMax™ 281-282MXSI

1ErgoNorm™ 281-282MSI



#### Mini Langer 3/4

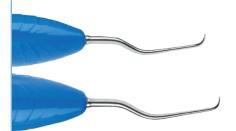
LMErgoNorm™

• For premolars and molars in the upper jaw

283-284MSI

LMErgoSense® 283-284MES
(€ 283-284MEST
LMErgoMax™ 283-284MXSI





#### Mini Langer 5/6

• For incisors in the upper and lower jaw

 LMErgoSense®
 285-286MES

 (€
 285-286MEST

 LMErgoMax™
 285-286MXSI

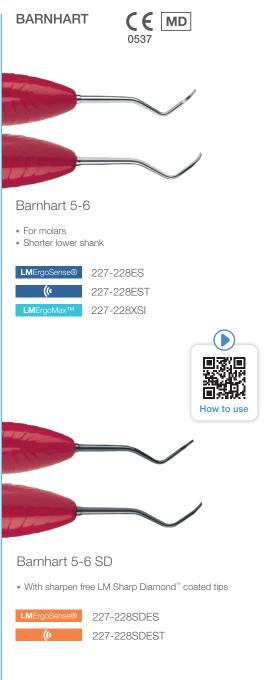
 LMErgoNorm™
 285-286MSI











#### **DIAMOND FILES**

( E MD 0537

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

- Diamond coated round curved toe
- · For acute furcation lesions

**LM**ErgoSense®

255-256DES

255-256DEST 255-256DXSI

**LM**ErgoNorm™ 255-256DSI





How to use





Diamond File mes-dist

definitive scaling of the root surface · Easy access with a fine, flexible blade in

• Extremely delicate diamond coated instrument for

mesial-distal line angles and developmental grooves

263-264DES

263-264DEST

263-264DXSI





#### **Furcation Diamond** File SV 7-8

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



**LM**ErgoNorm™

257-258DEST

257-258DXSI

257-258DSI





How to use

261-262DES

depressions

261-262DEST **LM**ErgoMax™

Furcation Diamond File

261-262DXSI

Extremely delicate diamond coated instrument

• Easy access with a fine, flexible blade design

for definitive calculus removal in furcations and root

#### **FURCATION INSTRUMENT**

(€ MD 0537

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



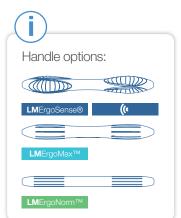
#### Furcator KS

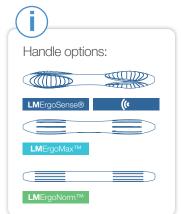
259-260ES

259-260EST 259-260XSI



- 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







For the removal of supraand 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





How to use hoe scalers



#### Hoe Scaler, anterior

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

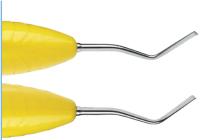
LMErgoSense® 112-113ES

112-113EST

112-113XSI

LMErgoNorm™ 112-113SI





#### Hoe Scaler, lateral

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

**LM**ErgoSense®

134-135ES 134-135EST

134-135XSI

LMErgoNorm™ 134-135SI





#### Hoe Scaler, posterior

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

156-157ES

156-157EST 156-157XSI

LMErgoNorm™ 156-157SI



#### SURGICAL HANDLE







#### LM-ErgoHold™ 3

- 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)



9003



9003T

# **J**J

#### CHOOSE TO WORK SMART.

Hove LM Sharp Diamond™ instruments. As a regular user, their superior sharpness, tactile sensitivity, and comfort have truly made a difference in my practice.

With the ergonomic LM-ErgoSense® handle, these instruments feel like natural extensions of my hands, perfectly designed for all forms of scaling. What's truly impressive is their durability. These instruments maintain their original functionality, size, and shape throughout their lifetime, freeing me from frequent maintenance. This saved time is better spent promoting health and crafting beautiful smiles.

The standout feature? Their sharpen free design. Crafted from a durable special metal alloy and enhanced with a protective micro membrane coating, these tools are built to last, enabling me to work efficiently effortlessly. My personal favorite is the LM Dual



Gracey<sup>™</sup>. It's more than just an instrument; it's my partner in delivering exceptional oral health care.

With LM Sharp Diamond™, I'm not just doing my job - I'm perfecting it. I choose to work smart. I choose to work efficiently. I choose LM Sharp Diamond™.

Dr. Joy Void-Holmes

#### **GRACEY CURETTES**



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



#### Design:

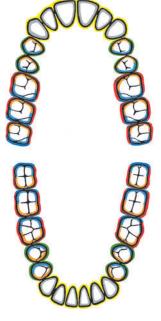
- Working surface inclined 20° to the lower shank
- One curved cutting edge (red line)
- Rounded cutting tip



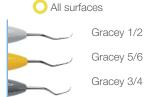
#### Instrumentation:

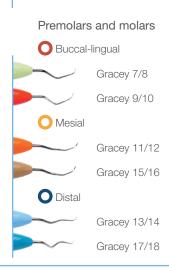
Place the tip third or half of the cutting edge of a Gracey curette against the tooth surface. The larger outer curve is always the cutting edge. Make sure that the lower shank is parallel with the tooth surface. For calculus removal apply moderate and for root planing light lateral pressure and activate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

#### Area specific indications for Gracey curettes



#### Incisors





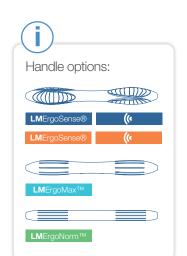


## with Gracey curettes

- Mini Gracey 11/12
- Macro Gracey 13/14 Mini Sickle

RDH Tatiana Brandt





#### STANDARD AND MINI GRACEY



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



#### Gracey 1/2

• For incisors and premolars

201-202ES 201-202EST

**LM**ErgoNorm™

201-202XSI







#### Gracey 1/2 SD

With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

201-202SDES 201-202SDEST



#### Mini Gracey 1/2

• For incisors and premolars

LMErgoSense® 201-202MES

201-202MEST 201-202MXSI

LMErgoNorm™

201-202MSI





#### Mini Gracey 1/2 SD

With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

201-202MSDES 201-202MSDEST



#### Gracey 3/4

• For incisors and premolars

**LM**ErgoSense®

203-204ES 203-204EST

203-204XSI

203-204SI



#### Gracey P3-P4

· Short shank makes the instrument more rigid

266-267ES

266-267EST 266-267XSI

LMEraoNorm™

266-267SI





#### Gracey 7/8

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

<b>LM</b> ErgoSense®	
((*	
I MErgoMayIM	

207-208ES 207-208EST









#### Gracey 7/8 SD

 With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

LMErgoSense(

207-208SDES

(¢ 207-208SDEST



#### Mini Gracey 7/8

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

**LM**ErgoSense®

207-208MES

((•

207-208MEST

**LM**ErgoNorm™

207-208MXSI 207-208MSI



#### Gracey 9/10

• For molars' buccal and lingual surfaces using horizontal technique

**LM**ErgoSense®

209-210ES

((¢

209-210EST

**LM**ErgoNorm™

209-210XSI 209-210SI







#### Mini Gracey 7/8 SD

With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

**LM**ErgoSense®

207-208MSDES

((\*

207-208MSDEST



With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

LMErgoSense®

209-210SDES

((\*

209-210SDEST



#### Gracey 11/12

• For premolars' and molars' mesial surfaces

LMErgoSense® 211-212ES

211-212EST 211-212XSI

LMErgoNorm™ 211-212SI





#### Gracey 11/12 SD

 With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

211-212SDES

211-212SDEST



#### Mini Gracey 11/12

• For premolars' and molars' mesial surfaces

211-212MES

211-212MEST

211-212MXSI

LMErgoNorm™ 211-212MSI





#### Mini Gracey 11/12 SD

 With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

211-212MSDES

211-212MSDEST



#### Gracey 13/14

• For premolars' and molars' distal surfaces

LMErgoSense® 213-214ES

213-214EST 213-214XSI

LMErgoNorm™ 213-214SI





#### Gracey 13/14 SD

 With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

213-214SDES

213-214SDEST



#### Mini Gracey 13/14

• For premolars' and molars' distal surfaces

LMErgoSense® 213-214MES

LMErgoNorm™

213-214MEST

213-214MXSI 213-214MSI





#### Mini Gracey 13/14 SD

 With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

213-214MSDES

213-214MSDEST



#### Gracey 15/16

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

245-246ES 245-246EST

245-246XSI

**LM**ErgoNorm™

245-246SI





#### Mini Gracey 15/16

• Blade shank more sharply angulated than in Mini Gracey 11/12 for better access

**LM**ErgoSense®

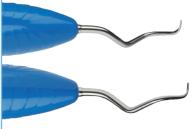
245-246MES

245-246MEST

**LM**EraoNorm™

245-246MXSI 245-246MSI





#### Gracey 17/18

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

**LM**ErgoSense®

247-248EST 247-248XSI 247-248SI

247-248ES

LMErgoNorm™



How to use



#### Mini Gracey 17/18

• Blade shank more sharply angulated than in Mini Gracey 13/14 for better access

**LM**ErgoSense®

247-248MES

247-248MEST

247-248MXSI 247-248MSI

**LM**ErgoNorm™

How to use



#### Gracey 15/16 SD

 With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

245-246SDES

245-246SDEST



#### Mini Gracey 15/16 SD

 With sharpen free LMSharp Diamond<sup>™</sup> coated tips

245-246MSDES



245-246MSDEST



#### Gracey 17/18 SD

 With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

247-248SDES

247-248SDEST



#### Mini Gracey 17/18 SD

 With sharpen free LM Sharp Diamond<sup>™</sup> coated tips

247-248MSDES

247-248MSDEST

#### MACRO GRACEY

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

#### Macro Gracev 5/6

- · For incisors and premolars
- Especially useful in proximal surfaces

**LM**ErgoSense®

205-206AFES

205-206AFEST

205-206AFXSI

LMErgoNorm™

205-206AFSI

#### Macro Gracey 7/8

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

**LM**ErgoSense®

207-208AFES

207-208AFEST

**LM**ErgoMax™

207-208AFXSI

LMErgoNorm™ 207-208AFSI

#### Macro Gracey 11/12

• For premolars' and molars' mesial surfaces

**LM**ErgoSense®

211-212AFES

211-212AFEST

LMErgoMax™

211-212AFXSI

LMErgoNorm™ 211-212AFSI

#### Macro Gracey 13/14

• For premolars' and molars' distal surfaces

213-214AFES

213-214AFEST

213-214AFXSI

LMErgoNorm™ 213-214AFSI

#### RIGID GRACEY 0537

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

#### Rigid Gracev 1/2

· For incisors and premolars

LMErgoSense® 201-202RES

201-202REST

201-202RXSI

**LM**ErgoNorm™

201-202RSI

#### Rigid Gracey 7/8

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

**LM**ErgoSense®

207-208RES

207-208REST

207-208RXSI

**LM**ErgoNorm™

207-208RSI

#### Rigid Gracey 11/12

• For premolars' and molars' mesial surfaces

211-212RES

211-212REST

LMErgoMax™ 211-212RXSI

LMErgoNorm™ 211-212RSI

#### Rigid Gracey 13/14

· For premolars' and molars' distal surfaces

213-214RES

213-214REST 213-214RXSI

LMErgoNorm™ 213-214RSI

#### Rigid Gracev 15/16

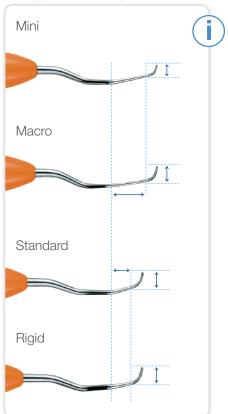
- · For molars' mesial surfaces
- Blade shank more sharply angulated than in Gracey 11/12 for better access

LMErgoSense® 245-246RES

245-246REST

245-246RXSI LMErgoNorm™ 245-246RSI

The types of Gracey curettes:



# MESIAL-DISTAL GRACEY

**(€** MD

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



#### Gracey 11/14

<b>LM</b> ErgoSense®	211-214ES
((*	211-214ES7
<b>LM</b> ErgoMax™	211-214XSI
<b>LM</b> ErgoNorm™	211-214SI

#### Gracey 12/13

<b>LM</b> ErgoSense®	212-213ES
((*	212-213EST
LMErgoMax™	212-213XSI
<b>LM</b> ErgoNorm™	212-213SI

#### Gracey 15/18

<b>LM</b> ErgoSense®	245-248ES
((*	245-248EST
<b>LM</b> ErgoMax™	245-248XSI
LMErgoNorm™	245-248SI

#### Gracey 16/17

<b>LM</b> ErgoSense®	246-247ES
((*	246-247EST
<b>LM</b> ErgoMax™	246-247XSI
LMErgoNorm™	246-247SI

#### 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

<b>LM</b> ErgoSense®	211-214MES
((*	211-214MEST
LMErgoMax™	211-214MXSI
<b>LM</b> ErgoNorm™	211-214MSI

#### Mini Gracey 12/13

<b>LM</b> ErgoSense®	212-213MES
((*	212-213MEST
<b>LM</b> ErgoMax™	212-213MXSI
<b>LM</b> ErgoNorm™	212-213MSI

#### Mini Gracey 15/18

<b>LM</b> ErgoSense®	245-248MES
((0	245-248MEST
LMErgoMax™	245-248MXSI
<b>LM</b> ErgoNorm™	245-248MSI

#### Mini Gracey 16/17

<b>LM</b> ErgoSense®	246-247MES
((0	246-247MEST
<b>LM</b> ErgoMax™	246-247MXSI
LMErgoNorm™	246-247MSI

#### MACRO MESIAL-DISTAL GRACEY

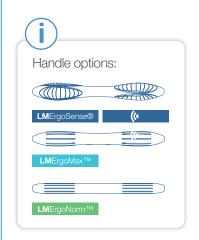
Macro models have standard model's long working end combined with mini model's longer lower shank. Excellent reach interdentally in deep pockets.

#### Macro Gracey 11/14

<b>LM</b> ErgoSense®	211-214AFES
((¢	211-214AFEST
<b>LM</b> ErgoMax™	211-214AFXSI
LMErgoNorm™	211-214AFSI

#### Macro Gracey 12/13

<b>LM</b> ErgoSense®	212-213AFES
((c	212-213AFEST
LMErgoMax™	212-213AFXSI
LMErgoNorm™	212-213AFSI



#### **EXCHANGEABLE TITANIUM TIPS FOR IMPLANTS**



#### **LM**ErgoMix<sup>™</sup>

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

LM-ErgoMix<sup>™</sup> 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<sup>™</sup> 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.





sensitive but still effective implant maintenance.



#### Implant Mini Universal curette

- · Delicate working end
- · Especially for tight interdental spaces

LMErgoMix™ 283-284MTIEM

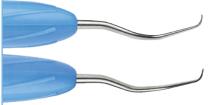




#### Implant Mini Gracey 11/12

• For premolars' and molars' mesial surfaces

LMErgoMix™ 211-212MTIEM



#### Implant Mini Gracey 13/14

• For premolars' and molars' distal surfaces

LMErgoMix™ 213-214MTIEM

#### LM-ErgoMix<sup>™</sup> spare parts

Spare handle	
LM-ErgoMix™ handle dark grey	9011EM
Spare lock grips	
Orange	9020EM
Light blue	9021EM
Grey	9022EM
Yellow	9023EM
Dark grey	9024EM
Red	9025EM
Spare titanium tips	
Spare titanium tips  Implant Mini Universal Curette L	283MTIEM
	283MTIEM 284MTIEM
Implant Mini Universal Curette L	
Implant Mini Universal Curette L Implant Mini Universal Curette R	284MTIEM
Implant Mini Universal Curette L Implant Mini Universal Curette R Implant Mini Gracey 1	284MTIEM 201MTIEM
Implant Mini Universal Curette L Implant Mini Universal Curette R Implant Mini Gracey 1 Implant Mini Gracey 2	284MTIEM 201MTIEM 202MTIEM
Implant Mini Universal Curette L Implant Mini Universal Curette R Implant Mini Gracey 1 Implant Mini Gracey 2 Implant Mini Gracey 11	284MTIEM 201MTIEM 202MTIEM 211MTIEM

#### PERIODONTAL INSTRUMENT SETS









LM-PerioSet 1

**LM**ErgoSense®

6652ES

**LM**ErgoMax™

6652XSI

#### Includes:

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

#### LM-PerioSet 2

**LM**ErgoSense®

6682ES

**LM**ErgoMax™

6682XSI

#### Includes:

- 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-Servo™ 8 cassette

#### LM-PerioKit

**LM**ErgoSense®

6842ES

#### 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

99

The LM-PerioKit by StyleItaliano™ contains the essentials for the best possible therapy.

Instruments have been selected in the spirit of StyleItaliano" whose philosophy is to make treatment feasible, teachable, repeatable. Periodontal therapy too can follow this approach. It's my feeling that, in the best interest of his patients, every practitioner should be able to properly execute non surgical therapy, crown lengthening procedures, free gingival grafts, simpler surgical root coverages."

**Dr. Giano Ricci**MD, DDS, MScD



#### **SPOON EXCAVATORS**

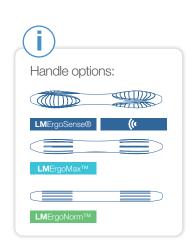


For the removal of softened carious dentin and temporary fillings.



#### Design:

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





#### Spoon Excavator, 1.0 mm

LMErgoSense®	522-523ES
LIMIEI GOSEI ISE®	522-523ES

(¢ 522-523EST

.MErgoMax™ 522-523XSI

LMErgoNorm™ 522-523SI



Spoon Excavator, 1.5 mm

LMErgoSense® 533-534ES

(¢ 533-534EST

LMErgoMax™ 533-534XSI

LMErgoNorm™ 533-534SI

#### **ROUND EXCAVATORS**



#### 0537

#### 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® 61-62ES 61-62EST

LMErgoMax™ 61-62XSI

LMErgoNorm™ 61-62SI

#### Round Excavator, 2.0 mm

 LMErgoSense®
 65-66EST

 (v
 65-66EST

 LMErgoMax™
 65-66XSI

 LMErgoNorm™
 65-66SI

# 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



# Triple-angled Back Action Excavator, 1.0 mm

<b>LM</b> ErgoSense®	611-621ES
((¢	611-621EST
<b>LM</b> ErgoMax™	611-621XSI
LMErgoNorm™	611-621SI



Triple-angled Back Action Excavator, 1.5 mm

<b>LM</b> ErgoSense®	631-641ES
((	631-641EST
LMErgoMax™	631-641XSI
<b>LM</b> ErgoNorm™	631-641SI



Triple-angled Back Action Excavator, 2.0 mm

<b>LM</b> ErgoSense®	651-661ES
((e	651-661EST
<b>LM</b> ErgoMax™	651-661XSI
<b>LM</b> ErgoNorm™	651-661SI



Triple-angled Back Action Excavator, 3.5 mm

• For the horizontal finishing of outer cavity margins

<b>LM</b> ErgoSense®	671-681ES
((0	671-681EST
<b>LM</b> ErgoMax™	671-681XSI
LMErgoNorm™	671-681SI

# GINGIVAL MARGIN TRIMMERS



For finishing enamel margins in the proximal area as well as for making plastic, amalgam and ceramic fillings.



Gingival Margin Trimmer, 1.2 mm, distal

<b>LM</b> ErgoSense®	121-122ES
((*	121-122EST
<b>LM</b> ErgoMax™	121-122XSI
<b>LM</b> ErgoNorm™	121-122SI



Gingival Margin Trimmer, 1.2 mm, mesial

<b>LM</b> ErgoSense®	125-126ES
((¢	125-126EST
LMErgoMax™	125-126XSI
<b>LM</b> ErgoNorm™	125-126SI

# SPATULA MD ( €



#### Spatula

LMErgoNorm™

LMErgoSense® 450-460ES

((c 450-460EST

LMErgoMax™ 450-460XSI

450-460SI

#### **CORD PACKERS**

MD (E

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®
 490-491ES

 (r
 490-491EST

 LMErgoMax™
 490-491XSI

 LMErgoNorm™
 490-491SI



#### Cord Packer, 2.6 mm

LMErgoSense® 492-493ES

(( 492-493EST

LMErgoMax™ 492-493XSI

LMErgoNorm™ 492-493SI

#### **BASE CARRIERS**

MD ( E



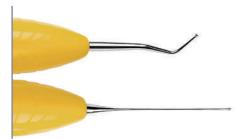
#### Base Carrier, rigid

 LMErgoSense®
 29H-30HEST

 (€
 29H-30HEST

 LMErgoMax™
 29H-30HXSI

 LMErgoNorm™
 29H-30HSI



# Base Carrier – Condenser, malleable tip

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

LMErgoSense® 30-34ES

((c 30-34EST

LMErgoMax™ 30-34XSI

LMErgoNorm™ 30-34SI



#### Base Carrier - Condenser, rigid

 LMErgoSense®
 30H-34EST

 (€
 30H-34EST

 LMErgoMax™
 30H-34XSI

 LMErgoNorm™
 30H-34SI

#### **PLUGGERS**

For packing all types of filling materials.







#### Plugger, cylindrical, 1.0-1.5 mm

**LM**ErgoSense® 340-360ES

340-360EST

340-360XSI

LMErgoNorm™ 340-360SI

#### **BURNISHERS**

For burnishing, modelling and finishing of fillings.







#### Burnisher

350-380ES

350-380EST

350-380XSI

350-380SI

Plugger, cylindrical,

LMErgoSense® 370-390ES

370-390EST

370-390XSI

370-390SI

1.8-2.5 mm

**LM**ErgoNorm™

- For burnishing fillings at cavity margins
- · For packing and shaping of composite fillings
- For packing of inlay-/onlay fillings

LMErgoSense® 31-32ES

31-32EST

LMErgoMax™ 31-32XSI

LMErgoNorm™ 31-32SI

**LM**ErgoNorm™



#### Burnisher DD

 With LM Dark Diamond<sup>™</sup> non-stick coated tips

31-32DDES

31-32DDEST



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

- · For plugging filling into cavity
- For polishing
- For plugging and shaping of composite fillings

LMErgoSense® 471-473ES

471-473FST

471-473XSI 471-473SI

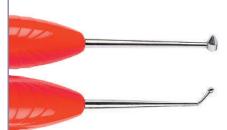


#### Burnisher – Plugger DD, ball-ended, 1.5-2.5 mm

 With LM Dark Diamond<sup>™</sup> non-stick coated tips

471-473DDES

471-473DDEST



#### Burnisher 27–29

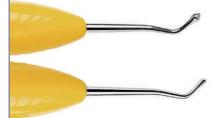
- For shaping of occlusal surfaces
- · For burnishing of fillings at cavity margins

LMErgoSense® 476-477ES

476-477EST

476-477XSI

LMErgoNorm™ 476-477SI



#### Burnisher 21

- For shaping and packing of composite
- For shaping occlusal surfaces before hardening
- Pits, grooves, lateral ridges

LMErgoSense® 476-477ES

476-477EST

476-477XSI

**LM**ErgoNorm™ 476-477SI



#### LM-ARTE™ FOR ESTHETIC RESTORATIONS



LM-Arte<sup>™</sup> is a set of innovative instruments for esthetic restorations and it is designed especially for composite layering.



CO-OPERATION WITH STYLEITALIANO™ LM-Arte™ instruments have been developed in collaboration with StyleItaliano™, a group of passionate clinicians and researchers specialized in esthetic restorative dentistry.

The unique concept of LM-Arte™ instruments has been a breakthrough in esthetic dentistry.

Read more on pages 10-11.



#### REPLICATE EASILY

I can make modeling within seconds with simple steps by using LM-Arte™ Replica Posterior instrument and technique.

*Dr. Osama Shaalan* Member of StyleItaliano™



#### LM-Arte™ Replica Posterior

- For easy occlusal modeling of posterior teeth in direct composite restorations
- Occlusal anatomy of single tooth is guided by buccal cusps using replica technique: adapt, shape, replicate
- · Concave and convex tip profiles

**LM**ErgoSense®

448-449ES

**LM**ErgoMax™

448-449XSI

LM-Arte™ Solo instruments are ideal for simplifying your daily cases: with just two instruments, you can perform most of your high-end anterior and posterior restorations.





#### LM-Arte™ Solo Anterior

- For high-end esthetic anterior restorations
- Rounded and straight spatulas are designed for modeling anterior teeth, especially labial surfaces

**LM**ErgoSense®

431-433ES

((\*

431-433EST

**LM**ErgoMax™

431-433XSI

#### LM-Arte<sup>™</sup> Solo Posterior

- For high-end posterior composite restorations
- The plugger end is designed for bulk filling and composite material modeling
- The sharp end enables contouring of the occlusal surface anatomy

.**M**ErgoSense®

434-438ES

((\*

434-438EST

**LM**ErgoMax™

434-438XSI



#### LM-Arte<sup>™</sup> Applica

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



46-49ES 46-49EST

46-49XSI



How to use

# LM-Arte<sup>™</sup> Modella

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



442-443ES 442-443EST

442-443XSI





# LM-Arte<sup>™</sup> Condensa

• A long and round plugger especially for modeling composite



488-489ES 488-489EST

NEW!

488-489XSI



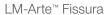
How to use

NEW!

481-487EST

LMErgoMax™ 481-487XSI





· Sharp pointed tips for modeling of occlusal surface structures



481-487ES







With LM Dark Diamond<sup>™</sup> non-stick coated tips

46-49DDES

442-443DDEST

#### LM-Arte™ Condensa DD

With LM Dark Diamond<sup>™</sup> non-stick coated tips

488-489DDEST

488-489DDES



With LM Dark Diamond<sup>™</sup> non-stick coated tips

481-487DDES

481-487DDEST

#### LM-Arte<sup>™</sup> Applica DD

46-49DDEST

With LM Dark Diamond<sup>™</sup> non-stick coated tips

442-443DDES



#### I M-Arte<sup>™</sup> Eccesso

· For the removal of composite and bonding residue

307-308ES

**LM**ErgoMax™

307-308EST 307-308XSI





• For horizontal and vertical measuring of thickness of composite layers on the restorations

496-497ES

496-497XSI

LM-Arte<sup>™</sup> Misura

**LM**ErgoSense@

496-497EST





#### LM-Arte™ Cusp Misura

· Unique instrument for estimating cusp thickness and height for evaluating the need for cusp preparation when performing adhesive restorations.

**LM**ErgoSense®

468-469ES 468-469EST

468-469XSI





#### LM-Arte<sup>™</sup> Applica Twist

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

**LM**ErgoSense®

464-494ES

464-494EST 464-494XSI



How to use





#### LM-Arte™ Posterior Misura

- 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**ErgoSense@

498-499ES 498-499EST

498-499XSI







#### LM-Gengiva™ gingival retracting kit

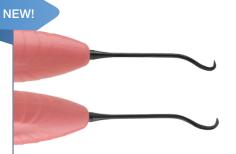
#### Includes:

- LM-Gengiva<sup>™</sup> / LM-MultiHolder<sup>™</sup> PK III hand instrument (see also page 53)
- LM-Gingival Retractors (blue) for establishing optimum working conditions for procedures at the gum line. Assortment package of three sizes include circa 90 pieces, 30 pcs/size):
- S for incisors, M for premolars and XL for molars
- LM-MultiLever<sup>™</sup> for the removal of disposable gingival retractors

**LM**ErgoSense®

7556KES 7556KXSI





#### LM-Arte™ Eccesso DD

With LM Dark Diamond<sup>™</sup> non-stick coated tips

307-308DDES 307-308DDEST

#### LM-ARTE™ INSTRUMENT SETS

MD (E







The non-stick LM Dark Diamond™ coated LM-Arte™ instruments feature exclusive coating for smooth and precise non-stick placement and sculpting of composite resins.

What do the StyleItaliano™ experts think? Watch the video!





LM-Arte<sup>™</sup> Set

LMErgoSense® 6840ES

LMErgoMax™ 6840XSI

#### Includes:

- LM-Arte™ Eccesso
- LM-Arte™ Misura
- LM-Arte™ Fissura
- LM-Arte<sup>™</sup> Applica
- LM-Arte™ Condensa
- LM-Servo<sup>™</sup> 5 cassette

#### LM-Arte<sup>™</sup> Posterior Set

LMErgoSense® 6844ES

LMErgoMax™ 6844XSI

#### Includes:

- LM-Arte™ Posterior Misura
- LM-Arte™ Cusp Misura
- LM-Arte™ Fissura
- LM-Arte™ Modella
- LM-Arte™ Condensa
- LM-Servo<sup>™</sup> 5 cassette

#### LM-Arte™ Complete Set

LMErgoSense® 6848ES

**LM**ErgoMax<sup>™</sup> 6848XSI

#### Includes:

- LM-Arte™ Eccesso
- LM-Arte™ Misura
- LM-Arte™ Applica
- LM-Arte™ Posterior Misura
- LM-Arte™ Cusp Misura
- LM-Arte™ Fissura
- LM-Arte™ Modella
- LM-Arte™ Condensa
- LM-Servo™ 8 cassette

#### LM-Arte<sup>™</sup> Dark Diamond set NEW!

LMErgoSense® 6845ES

 Instruments with LM Dark Diamond<sup>™</sup> non-stick coated tips

#### Includes:

- LM-Arte™ Eccesso DD
- LM-Arte™ Modella DD
- LM-Arte™ Fissura DD
- LM-Arte™ Applica DD
- LM-Arte™ Condensa DD
- LM-Servo<sup>™</sup> 5 cassette

#### FOR COMPOSITES MD ( €



#### Modeller MH

- 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

LMErgoSense® 708-709ES

708-709EST



708-709XSI



#### Modeller MH DD

With LM Dark Diamond<sup>™</sup> non-stick coated tips

LMErgoSense® 708-709DDES

708-709DDEST



#### Modeller MH Mini

- 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

707-708ES

707-708EST

707-708XSI

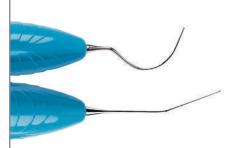


#### Modeller MH Mini DD

With LM Dark Diamond<sup>™</sup> non-stick coated tips

LMErgoSense® 707-708DDES

707-708DDEST



#### Flow Instrument IO

• For easy handling and shaping of flowable composites

LMErgoSense® 484-485ES

484-485EST

484-485XSI



#### Composite Spatula 6

• For placing and contouring composite

LMErgoSense® 446-447ES

446-447EST 446-447XSI

446-447SI



#### Form Condenser, 1.5-2.5 mm

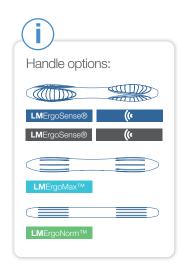
• For shaping and packing of large filling surfaces

702-703ES

702-703EST 702-703XSI

**LM**ErgoNorm™

702-703SI





#### Packer-Modeller IO p

• Combination instrument for premolars

**LM**ErgoSense®

482-702ES

482-702EST

482-702XSI

LMErgoNorm™

482-702SI



#### Packer-Modeller IO m

• Combination instrument for molars

**LM**ErgoSense®

483-703ES

483-703EST

**LM**ErgoMax™

483-703XSI

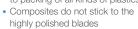
LMErgoNorm™

483-703SI



#### Packer-Modeller IO

· Conical working ends, which are exceptionally well-suited e.g. to shaping of occlusal surfaces and to packing of all kinds of plastics





482-483ES 482-483EST

482-483XSI







#### Packer-Modeller IO DD

With LM Dark Diamond<sup>™</sup> non-stick coated tips

LMErgoSense® 482-483DDES

482-483DDEST



#### Plastic Instrument, anterior

• For placing, packing and contouring composite

43-47ES

43-47EST 43-47XSI

43-47SI



#### Plastic Instrument, posterior

• For placing, packing and contouring composite

LMErgoSense® 48-702ES

48-702EST

**LM**ErgoNorm™

48-702XSI 48-702SI



#### Plastic instrument, anterior DD

With LM Dark Diamond<sup>™</sup> non-stick coated tips

LMErgoSense® 43-47DDES

43-47DDEST



#### Plastic instrument, posterior DD

With LM Dark Diamond<sup>™</sup> non-stick coated tips

LMErgoSense® 48-702DDES

48-702DDEST

**CARVERS** 



For shaping of filling material to fit the anatomy of tooth, and for removal of soft excess.



#### Mini Spatula

• For placing and contouring composite

**LM**ErgoSense®

444-445ES

444-445EST

444-445XSI

444-445SI



#### Mini Spatula DD

With LM Dark Diamond<sup>™</sup> non-stick coated tips

LMErgoSense® 444-445DDES

444-445DDEST



#### 1/2 Hollenback

• For proximal and cervical surfaces

LMErgoSense® 741-751ES

741-751EST

741-751XSI

LMErgoNorm™ 741-751SI



#### Carver Maehlum

- For removal of soft excess from gingival margins (71)
- For anatomical shaping of occlusal surfaces (73)

LMErgoSense® 71-73ES

71-73EST

LMErgoMax™ 71-73XSI

LMErgoNorm™ 71-73SI





#### Carver Nyström I

• For proximal and occlusal surfaces

LMErgoSense® 74-75ES

74-75EST

74-75XSI

LMErgoNorm™ 74-75SI



• For anatomical shaping of occlusal surfaces (72)

LMErgoSense® 71-72ES

71-72EST

71-72XSI

LMErgoNorm™ 71-72S



#### Carver Nyström III

• For interdental spaces, contact surfaces

LMErgoSense® 76-77ES

76-77EST

76-77XSI

**LM**ErgoNorm™ 76-77SI



#### Cleoid-Discoid

· For anatomical shaping of occlusal surfaces of small fillings

731-732ES

731-732EST

731-732XSI

LMErgoNorm™

731-732SI

#### **EXCESS SCALERS**





#### **Excess Scaler**

· For the removal of adhesive, cement, and composite excesses

**LM**ErgoSense®

785-795ES

785-795EST 785-795XSI

LMErgoNorm™ 785-795SI



#### Mini Excess Scaler

· An effective excess remover in extremely tight interdental spaces

**LM**ErgoSense®

784-794ES

784-794EST

**LM**ErgoMax™

784-794XSI

LMErgoNorm™ 784-794SI

#### FILLING REMOVER







#### Filling Remover

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

LMErgoSense® 764-766ES

764-766EST

**LM**ErgoMax™

764-766XSI **LM**ErgoNorm™

764-766SI

#### **CROWN OFF**

MD (E



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

- Blade double angled with a 45° twist
- Crown removal instrument

LMErgoSense® 767-768ES

767-768EST

LMErgoMax™ 767-768XSI

#### **INSTRUMENT SET**

MD (E



#### LM-CompoSet

**LM**ErgoSense®

6657ES

**LM**ErgoMax™

6657XSI

#### Includes:

- Mini Spatula
- · Plastic instrument, anterior
- Form Condenser
- Packer-Modeller IO
- Mini Excess Scaler
- LM-Servo<sup>™</sup> 5 cassette

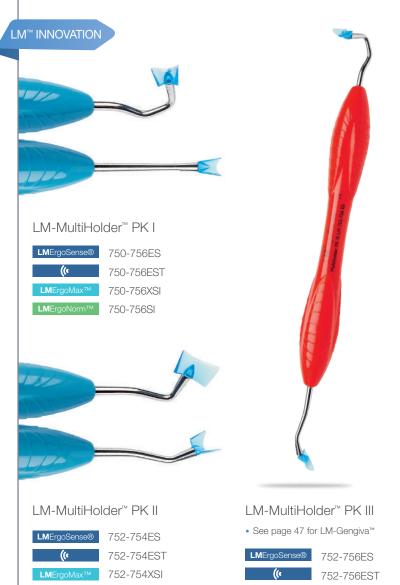
#### LM-MULTIHOLDER™ SYSTEM

LMErgoNorm™ 752-754SI



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.













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:

7622 XS 7624 S 7626 M 7628 L

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:

7502 S for incisors 7504 M for premolars 7506 XL for molars

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:

7602 for incisors

7604 for canines and premolars

7606 for small molars7608 for large molars

7600 Assortment package circa

120 pcs (30 pcs/size)

#### LM-MultiHolder™ IntroKit

Introkit contains LM-MultiHolder<sup>™</sup> instruments PK I and PK II, LM-MultiLever<sup>™</sup> and working end sample package.

(Incl 44 working ends; 4 for each size of each working end type)

7555KES 7555KXSI

752-756XSI

Separate working end sample package 7555



LM-MultiLever<sup>™</sup> 7550

· For the removal of plastic working end



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® 27-28ES 27-28EST

27-28XSI

LMErgoNorm™ 27-28SI

#### **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® 612-622ES

612-622EST

LMErgoMax™ 612-622XSI LMErgoNorm™ 612-622SI





632-642ES **LM**ErgoSense®

632-642EST

632-642XSI **LM**ErgoMax™

632-642SI LMErgoNorm™



Root Canal Excavator, 2.0 mm

LMErgoSense® 652-662ES

652-662EST

652-662XSI

LMErgoNorm™ 652-662SI



Endo Spreader 0.4 mm

**ENDO SPREADERS** 

during lateral condensation.

For the compacting of root canal filling materials

MD (E

**LM**ErgoSense® 24ES

24EST

24XSI



LMErgoSense® 22ES

22EST

LMErgoMax™ 22XSI

#### **ENDO PLUGGER**

For the vertical plugging of root canal fillings.



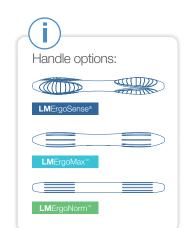
Endo Plugger, 0.5-1.0 mm

41-42ES

41-42EST

41-42XSI

LMErgoNorm™ 41-42SI



# Extract with confidence & luxate atraumatically

Familiar LM<sup>™</sup> 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<sup>™</sup> supersteel
  - strong and sharp blades
- Tight seam at blade juncture
  - hygienic

#### 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.









#### LM-SLIMLIFT™



Luxating instruments designed for extremely narrow places.

LM-SlimLift<sup>™</sup> 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<sup>™</sup> is not



suitable for use as an

elevator.





#### MAINTENANCE



#### Cassette 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<sup>™</sup> tray

#### Sharpening stone

#### 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<sup>™</sup>, LM-LiftOut<sup>™</sup>, LM-TwistOut<sup>™</sup> and LM-RootOut<sup>™</sup> instruments

#### LM-TWISTOUT™





Elevators for forceful extraction.

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







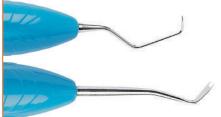


# **ROOT TIP INSTRUMENTS** MD ( **E** LM-RootOut™ • Designed for delicate root Root Tip Pick teasing procedures Not recommended for more • For the removal of root tip substantial root tip removal Suits well in all difficult to reach • Similar to Heidbrink root tip picks areas • Ergonomically designed handle for a good grip 769-771ES **LM**ErgoSense® 769-771EST 812210 769-771XSI (¢ 812210T

#### ORTHODONTIC HAND INSTRUMENTS







#### Ligature On-Off SL

- The explorer-like end (17CL) for both application and removal of ligatures. Ligatures can be lined up on the lower shank.
- The forked end (414) is particularly suitable for guiding a ligature ring over e.g. the fourth wing of a bracket.

414-17CLES



414-17CLEST 414-17CLXSI







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

25-26ES

25-26EST

LMErgoMax™ 25-26XSI

**LM**ErgoSense® 28-26ES

28-26EST LMErgoMax™ 28-26XSI

#### Plastic Ligature Applicator

• For placement of orthodontic rubber ligatures

416-417ES

416-417EST 416-417XSI

**LM**ErgoNorm™ 416-417SI





#### Archwire Tucker

- For bending the end of an arch wire
- The flattened ball-ends have 1 mm holes, where the wire can easily be placed and turned.
- · Long blade fits well even in tight places.

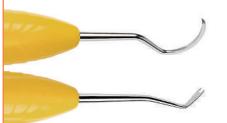
412-413ES

412-413EST

**LM**ErgoMax<sup>™</sup> 412-413XSI



How to use



#### Ligature Tucker – Scaler U15

- For tucking of ligatures and arch wires (414)
- For removing of cement excesses following the removal of orthodontic appliance (150)

414-150ES 414-150EST

**LM**ErgoMax™

414-150XSI



How to use



#### Ligature Director

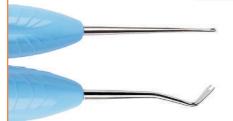
- For tucking ligatures and arch wires and for placement of
- The forked end is particularly suitable for guiding a ligature ring over e.g. the fourth wing of a bracket
- The forked end tip is rotated 90°

411-415ES

411-415EST

411-415XSI





#### Ligature Tucker

- · For tucking of ligatures and arch wires and for placement of arch wire
- The forked end is particularly suitable for guiding a ligature ring over e.g. the fourth wing of a bracket.

**LM**ErgoSense®

414-415ES

414-415EST

414-415XSI

414-415SI





# Ingononia, Ingononia,



#### LM™ REPROCESSING RECOMMENDATIONS

To take best care of your premium quality products

#### DENTAL HAND INSTRUMENT MAINTENANCE WITH CARE

By following LM™ reprocessing recommendations, you can ensure your dental instruments to have both long life and high level performance. To take best care of your high-quality instruments pay attention to the recommendations and ensure that only validated procedures are used for cleaning and sterilization. For the hand instrument maintenance use LM-ServoMax™ tray system and LM-Servo™ cassettes in order to protect the instruments and avoid sharp injuries.

Always follow the regulations by local authorities.

LESS ADMINISTRATIVE CHORES AND MORE TIME FOR PATIENT CARE

LM Dental Tracking System™ automates traceability, logistics, and aids dental
proferssionals in infection control documentation, streamlining processes and
eliminating the necessity for labor-intensive manual tasks.

Implementation of LM Dental Tracking System  $^{\scriptscriptstyle{\mathrm{TM}}}$  enhances clinician and clinic



manager knowledge that the essential reprocessing of materials and instruments has been done correctly, contributing to the safety of both clinicians and patients.

Scan the QR to read and download LM™ Reprocessing recommendations for hand instruments and accessories



# LM Dental Tracking System™

FOR ENHANCED EFFICIENCY, SAFETY AND SAVINGS

LM Dental Tracking System<sup>™</sup> (LM DTS<sup>™</sup>) is developed to address everyday clinic challenges associated with dental material handling and traceability, including controlling clinic processes, instrument rotation, reuse, as well as inventory materials and consumables handling.

The unique system is created by combining scanning readers, proprietary server software and dental instruments and materials with built-in or external tags. Assets such as instruments, hand pieces, filling materials, implants, and more from various manufacturers can be wirelessly read in just a few seconds.

LM DTS<sup>™</sup> automates traceability and dental asset handling processes, supports dental professionals in infection control documentation, and efficiently manages inventory materials and consumables handling. This streamlining of processes eliminates the need for labor-intensive manual tasks. The system allows you to turn vital information into action that makes a difference.



# ENHANCED EFFICIENCY AND TIME SAVINGS

Automating instrument and material tracking, including documentation, significantly saves staff time previously spent on manual checks.

LM™ INNOVATION

- Allocate additional time to patient care by minimizing administrative duties
- Assurance of instrument and material availability
- Paperless clinic

#### INFORMED DECISION-MAKING

Consistently improve practices by continually analyzing performance and monitoring real-time status.

- Ongoing performance improvement
- Instant dental inventory access
- Accessing cloud-based server from anywhere

#### ASSURED SAFETY CONFIDENCE

Enhances knowledge that the essential reprocessing of materials and instruments has been done correctly, contributing to the safety of both clinicians and patients.

- Automated checks and alerts
- Material traceability
- Maintenance and sterilization records
- Reprocessing procedure documentation



Scan the QR for more information at dentaltracking.com



#### LM-SERVO™ E INSTRUMENT CASSETTES



In LM-Servo™ E cassettes the instrument handles are clearly visible providing RFID tag readability and identification of individual instruments, though the tips are securely covered with safety shields preventing sharp injuries and protecting the blades.

The LM-Servo™ E cassette series is available with built-in LM DTS™ RFID tagging. This option makes E cassettes excellent tool for improving traceability by enabling easy handling and tracking of instruments as sets. Below you find the product codes for RFID tagged cassettes marked with RFID symbol.

The cassettes can be coded with silicone code buttons (6000 – 6005) and attached to the LM-ServoMax™ with a special lock (6417).

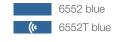
#### LM-Servo<sup>™</sup> 5E

- For five hand instruments
- · Cassette is equipped with safety shields of different colors: grey, blue, green and
- Outer dimensions: 180 x 83 x 26 mm
- Inner dimensions: 174.8 x 78.6 x 21.4 mm

















#### LM-Servo™ 8E

- · For eight hand instruments
- · Cassette is equipped with safety shields of different colors: grey, blue, green and
- Outer dimensions: 180 x 133 x 26 mm
- Inner dimensions: 174,8 x 128,9 x 21,4 mm

















#### LM-SERVOMAX™ TRAY SYSTEM





#### LMServoMax™

#### 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.



#### LM™ INNOVATION

Rational maintenance with minimal handling.





#### LM-ServoMax™ tray set 6410

- Includes: 1 set of universal trappers and 2 metal clips
- Dimensions: 288 x 185 x 29 mm



LM-ServoMax™ universal trapper, 2 pcs 6416



LM-ServoMax™ metal clips, 2 pcs 6415

• For locking LM-Servo<sup>™</sup> 5 or LM-Servo™ 8 instrument cassette on the tray



LM-ServoMax™ standard case 6420



LM-ServoMax™ restoration / endo case 6430

LM-ServoMax<sup>™</sup> foam. 20 pcs 6435

For cleaning the endo files



LM-ServoMax™ ultrasonic tip case 6460

• For six ultrasonic tips



LM-ServoMax™ bur endofile case 6450

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



LM-ServoMax™ syringe holder 6495

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

■ LM-ServoMax™ tray system modules have a universal design that complies the standard for dental tray dimensions. 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™ waste cup holder 6490



#### LM-ServoMax™ instrument rack

- 6471 black 6472 orange 6473 blue 6474 red 6475 green
- Color-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.

The cassettes can be attached to the LM-ServoMax<sup>™</sup> tray with metal clips (6415).

#### LM™ INNOVATION



# LM-Servo<sup>™</sup> 5

- For five hand instruments
- Dimensions: 180 x 86 x 28 mm



#### LM-Servo<sup>™</sup> 8 6680

- For eight hand instruments
- Dimensions: 180 x 136 x 28 mm

#### CODING PRODUCTS

#### Code buttons

- 6000 blue
- 6001 green
- 6002 orange
- 6003 red
- 6004 yellow
- 6005 brown
- For color-coding the LM-Servo™ and LM-Servo™ E cassettes
- Package 20 pcs / color



#### Code rings

- 5000 blue
- **O** 5001 green
- O 5002 orange
- 0 5003 red
- 0 5004 yellow
- **O** 5005 black
- 5006 white
- **O** 5007 brown
- 5008 lavender
- 0 5009 pink
- 5010 dark grey
- 0 5011 lime
- For color-coding hand instruments
- Package 50 pcs / color

# Regular maintenance of dental hand instruments s the foundation of safe and high quality treatments.

In addition to cleanliness, instrument condition has a significant impact on the end result of a treatment as well as your and your patient's safety. When discussing hand instruments, a critical factor is the instrument blade. Only working with sharp instruments will ensure an optimal treatment result.

LM-RondoPlus™ is a simple and reliable sharpening machine, which is suitable for use with all hand instruments that can be resharpened. LM-RondoPlus™ sharpens all hand instruments easily, quickly and precisely.

Regular sharpening allows you to work with a sharp instrument, which reduces the amount of strain on your hand and enhances safety from one treatment to the next. The service life of a regularly sharpened instrument is also longer than one that is not maintained well.



Scan the QR for videos and more information.

LM™ INNOVATION

# **LM**RondoPlus<sup>™</sup> sharpening machine

#### Foot pedal connection

Use of the foot pedal is optional. When the foot pedal is connected, the sharpening stone will only rotate when you press down on the pedal. The rotational direction is still selected with the rocker switch.



LM-RondoPlus comes equipped with a ceramic 400 grit sharpening stone. A finer (600 grit) and a coarser (320 grit) stone are available as spare parts. The stone rotates in two directions. When the stone rotates away from the instrument, the sharpening effect is more delicate. For more sharpening power use a coarser stone that rotates toward the instrument. The direction of rotation is chosen from the rocker switch.

#### Instrument rest

The instrument rest has two positions. The lower position is for periodontal instruments and the upper position is for preparation instruments. The position is changed by lifting the rest slightly away from the sharpening stone and then up or down. The instrument rest must be as close as possible to the sharpening stone without actually touching it. Screw the control to adjust the distance between the rest and the stone.

#### **Testing sharpness**

LM-RondoPlus™ is equipped with LM-Fingo™ sharpness test sticks, which can be mounted on either side of the machine or worn on the finger. Sharpness is easy to test by drawing the instrument lightly in its working position along LM-Fingo™. Sharp instrument will bite into the stick.

# EASY SHARPENING

LM-RondoPlus™ is suitable for use with all hand instruments that can be resharpened. Thanks to its simple operation method, learning how to use the machine takes only a few moments.

The ceramic sharpening stone is mounted in a casing, which can rotate 360°. The instrument being sharpened is placed on the instrument rest next to the sharpening stone. The lower rest position is for periodontal instruments while the upper position is for preparation instruments. The hand holding the instrument remains still – the instrument is sharpened by rotating the casing.

With LM-RondoPlus™ the same basic technique is used, whether the instruments to be resharpened are periodontal or preparation instruments, or have convex or straight cutting edges.

LM-RondoPlus™ 8600

#### Package includes:

- Sharpening machine
- Foot pedal
- 400 grit sharpening stone
- 2 LM-Fingos™
- 5 emery tapes

#### Spare Parts

#### **Grinding stone**

- 8660 600 grit (white)
- 8640 400 grit, coarser (grey)
- 8632 320 grit, coarsest (black)

8630 Foot pedal

8550 Emery tapes, 5 pcs

8602 LM-Fingo™, 2 pcs

8606 LM-Fingo™, 6 pcs



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



#### Easy to use

- 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.





LM™ INNOVATION

# GROWING HAPPY SMILES

### LM-Activator™ - Early orthodontic treatment

LM-Activator™ is a prefabricated appliance for supporting healthy growth and development of the face and jaw. The ideal time for treatment with LM-Activator™ is in early mixed dentition when the first teeth are changing. By intervening early, the need for further treatment can be significantly reduced and even eliminated. Research indicates that malocclusions in deciduous dentition persist and tend to become more severe as the dentition develops. LM-Activator™ provides soft guidance to teeth and jaws when needed.

#### How does LM-Activator<sup>™</sup> work?

- LM-Activator™ acts as a guide towards the correct position and place. Teeth and jaws are guided into correct positions and relation while teeth are changing in early mixed dentition.
- The forces of erupting teeth and the growth are utilized. The light and interceptive treatment supports the natural growth and development of teeth and jaws, and malocclusions are corrected.
- LM-Activator<sup>™</sup> can be used at different ages. When the first milk tooth falls out, the opportunities for guiding both the teeth and jaws are wide.
- LM-Activator™ corrects and aligns sagittal and vertical relationships simultaneously no separate phases are needed. The occlusion can be controlled in a 3-dimensional way.

Scan the QR and watch the video: How does LM-Activator™ work





Gently guiding the growth of erupting teeth and growing jaws can be compared to trimming and supporting a young plant. Guiding to a healthy growth path early and along the growth is more gentle and the outcome will be more natural.





"The appliance has many advantages. Most importantly, early treatment with LM-Activator™ will stop the development of the malocclusions, thereby preventing the malocclusion to become more severe. For children, LM-Activator™ is easy to use. The treatment is easy and straightforward, and the treatment outcome more natural."

Professor Emeritus Juha Varrela, DDS, PhD, Specialist in Orthodontics, Institute of Dentistry, University of Turku, Finland

#### Benefits for A DENTIST

#### Corrects malocclusions effectively

Corrects typical malocclusions like excess Overjet, excess Overbite, Deep bite, Open bite, Class II and dental anterior Crossbite. Sagittal and vertical relationships can be corrected simultaneously.

- √ Preventive. Prevents the malocclusion from developing further.
- √ Reduced need for treatment. Can significantly reduce the need for further treatment.
- √ Clinically and scientifically proven. LM-Activator™ has been on the market since 2004 and the method is supported by evidence from cohort controlled and RCT research results.

#### Benefits for A YOUNG PATIENT

#### Comfortable to use

- √ Made of medical-grade silicone. Flexible by nature and comfortable for the patient.
- √ Hygienic. Daily rinse with water is enough.

  Can be immersed in boiling water.
- √ Removable and used while sleeping. Patient can eat any food normally, exercise and do any sport. No metal wire adjustments or emergency visits are needed due to broken metal parts.
- √ Feels comfortable. Anatomically designed and rounded slots.
- √ Gentle on teeth. Soft silicone is gentle on teeth
  and comfortable for the patient.
- √ Simple and easy treatment. No separate treatment phases but simultaneous alignment, leveling and anteroposterior correction.

#### Cost-effective treatment method

Reduced treatment complexity enabling increased savings and time saved for treating more patients.

- √ Diverse. Convenient assortment of models.
- √ Cost-effective. Appliance is affordable.
- √ Prompt. Treatment can be started immediately.
- √ Efficient. Light on chair-times as check-ups are short and not that frequent.
- √ Collaborative. The clinical work does not require full involvement by orthodontists.

#### Safe for young patients

- √ No additives. No coloring agents, phtalates, softeners, latex, bisphenol-A or fragrance agents.
- √ Fully biocompatible. The use is safe for the patient. The silicone material is tested in accordance with ISO 10993 requirement of 30 days permanent contact with mucous membranes.
- √ No need for emergency visits because of the soft silicone material.
- ✓ Evidence based treatment method. The treatment method is proven by research results, and the appliance has been used by a million of patients around the world.





#### INDICATIONS - when to use LM-Activator™?

LM-Activator™ has proven to be effective in treatment of different malocclusions at different dental stages. Evaluating the dentoalveolar, skeletal and functional characteristics is an essential part of selecting patients for LM-Activator™ treatment. A thorough case-by-case analysis of the patient's malocclusion and its severity as well as of the patients motivation is needed.

The ideal time for treatment with LM-Activator™ is in early mixed dentition when the first teeth are changing. Use of LM-Activator™ is recommended to align teeth, activate mandibular growth and expand the arch perimeter. The chart below provides a demonstrative guideline for case selection.

		Deciduous dentition	Early mixed dentition 5–8 years old	Late mixed dentition 9–13 years old	Early permanent dentition 13- years old
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	Severe				
crossbite (i.e. mandibular posterior teeth completely	Moderate				İ
on the lingual side of the maxillary posterior teeth)	Mild				
Gummy Smile (Treatment start before the eruption	Severe				
of permanent maxillary central incisors)	Moderate				
	Mild				
0	Severe				
Open bite	Moderate				
	Mild				

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™'s product is appropriate for a specific patient, and for the outcome of any treatment with LM-Activator™, LM-Trainer™ or any other LM-Dental™'s 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.

Use of LM-Activator™ recommendedUse of LM-Activator™ can be considered

#### Effect not proven for:

- Skeletal Class III
- Midline discrepancy > 3mm \*)
- Very narrow upper arch \*)
- Palatally impacted teeth \*)
- Fully erupted anterior teeth that require torqueing \*)
- Teeth requiring intrusion
- \*) May be treated with combination treatment (LM-Activator™ together with other appliances such as quad helix)

#### Proven by research | References

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#### TYPICAL MALOCCLUSIONS treated with LM-Activator™

#### Overjet 1)



Before



After 1 year

#### Deep bite with palatal impingement 1)



Before



After 1 year

#### Single tooth anterior crossbite 2)



Before



After 15 days

#### Crowding 3)



Before



After 1 year

Clinical pictures courtesy of 1) and 3) Dr. Rita Myrlund and Dr. Mari Dubland, University of Tromsø, Norway. 3) Dr. Gioacchino Pellegrino, 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





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

Myrlund R., et al. One year treatment effects of the eruption guidance appliance in 7- to 8-year -old children: a randomized dilinical trial. European Journal of Orthodontics, 2015;37(2):128-134. https://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, K., et al. J. Orthodontic intervention in the early mixed dentition: A prospective, controlled study on the effects of the eruption guidance appliance. AM J of Orthodontics and Dentolacial Orthopedics, 2008:133(2), 254-260. https://doi.org/10.1016/j.ajodo.2006.05.039



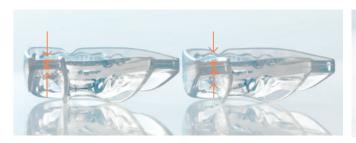
"As a result of the EGA treatment, the sagittal relationship was corrected from Class II to Class I in 86% of the cases during the active treatment, and it showed further improvement post-treatment. At the age of 16.7 years, 98% of the treatment children, who all had a Class II relationship at the onset of the early mixed dentition, had a Class I relationship."

Keski-Nisula K., et al. Class II treatment in early mixed dentition with the eruption guidance appliance: effects and long-term stability. European Journal of Orthodontics, 2020;42(2):151-156. https://doi.org/10.1098/iei/o/cip02

#### I M-Activator<sup>™</sup> MODEL ASSORTMENT features

With LM-Activator™ alignment, leveling and anteroposterior correction can be done at the same time without separate phases. A large assortment of models makes it possible to select the appropriate appliance for the patient. Treatment complexity for both the clinician and the patient can be reduced.

The two basic LM-Activator™ model features are: LOW and HIGH. These are available with shorter or longer molar sections: SHORT and LONG. The appliances are combinations of these features. LM-Activator™ 2 models available also for two arch widths: NARROW or WIDE. REINFORCED model with hard insert in the incisal area is available. We recommend it for patients over 8 years of age only. The choice of model should always be based on an examination and diagnosis done by or under supervision of a specialist in orthodontic treatment.







Model with basic appliance thickness is applicable to many different cases.





Model with thicker premolar and molar area. Specifically designed for treating skeletal and dentoalveolar open bite cases.



SHORT





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



#### LONG



Model with a longer molar section for patients whose second molars have erupted.



#### **NARROW**

WIDF

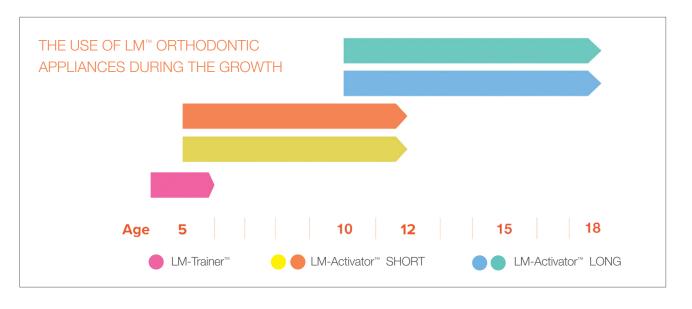
There are two different arch widths of all basic models. The most commonly used arch width is NARROW with standard or regular arch. The WIDE model has a wider and shorter arch, and is especially designed for Asian markets.





#### REINFORCED

LM-Activator<sup>™</sup> 2 models are available with incisal reinforcement. This model has a rigid reinforcement of harder material in the incisal area and is designed especially for skeletal deep bite cases. The model is also suitable for other patients who benefit from a firm surface and improved durability. Reinforced model is recommended for patients over 8 years old.



# Selecting THE SIZE with LM-OrthoSizer™ MD (€



LM-OrthoSizer™ is a tool for aiding the selection of the appropriate LM-Activator™ size. The size is indicative and LM-Activator™ should always be fitted to ensure the correct size. There are two models; one for LM-Activator™ (9400) and another for LM-Activator™ 2 (9402). Both are compatible with LM<sup>™</sup> mirror handles (25, 28).





LM-Activator™ 2 OrthoSizer™ (9402) is used with LM-Activator™ 2 models. Separate measures for mandible and maxilla improve the accuracy.



LM-OrthoSizer™ (9400) is used with LM-Activator™ models.

LM-Activator™ 2 OrthoSizer™ measures the distance across the incisors from the distal surface of the left lateral incisor to the right lateral incisor.

Place the elevated marker between the left maxillary lateral incisor and canine. Ensure that the text Maxilla is at the upper jaw and the text Mandibula at the lower jaw.

Read the scale between the right maxillary lateral incisor and canine (i.e. at the mesial surface of the canine). Sizes 10, 20, 30... are indicated with larger markers with a dot whereas sizes 15, 25, 35... are indicated with smaller markers. (In the right side photo the size indication is 55.) If you wish to get an indication of the size separately for the mandible, use the LM-Activator™ 2 OrthoSizer™ in the same way in the mandible.

In case of crowding, consider a larger appliance and in case of diastemas, consider a smaller appliance. Fit LM-Activator™ on the patient and double check that the teeth sit properly in the slots both in the maxilla and in the mandible.





#### **Fittina**

Fitting the appliance to the patient is the most important step of size selection.



#### 1. No crowding and no risk of crowding

Choose the size that matches the dentition. The canine rests at the bottom of the slot and no distalizing force is placed on the canine. If there is no crowding or risk of crowding, the size in the photo is correct. If there is crowding or crowding is expected, consider a larger size to enable expansion of the arch perimeter. In case of diastema consider choosing a smaller



This size is larger than in Figure 1.

The canine is guided by LM-Activator™ towards the bottom of its' slot and applies a force that pushes the canine distally. This size is appropriate if crowding is present or expected and arch perimeter expansion is needed.

#### 3. The size is too large

The appliance is too large. The canine is guided against a ridge between two slots and the appliance does not guide teeth properly. Choose a smaller size.

At follow-up check-ups with the patient, ensure that the size is still correct.

Re-evaluate the size of the appliance when the permanent maxillary and mandibular lateral incisors begin to erupt. It may be necessary to switch to a larger appliance.









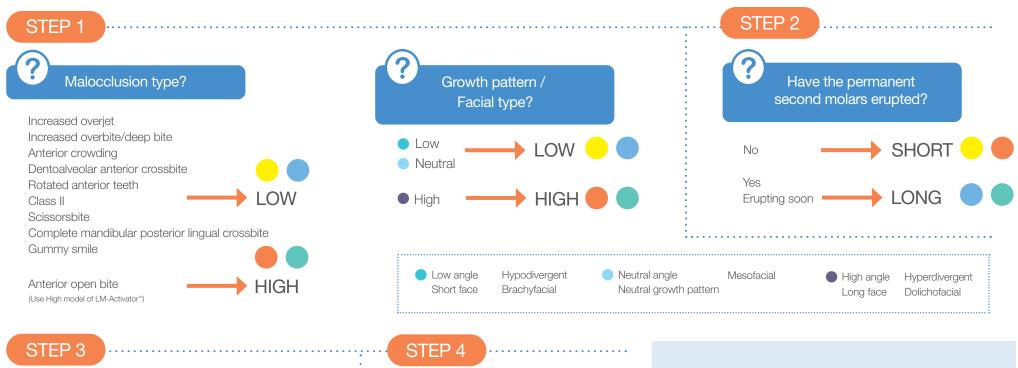
Scan the QR and watch the video: Selecting the size and fit of LM-Activator™

# General steps on HOW TO CHOOSE the LM-Activator™ MODEL

The selection chart below provides some general basic guidelines on choosing the right LM-Activator™ appliance for the patient. It is solely the responsibility of the treating doctor to evaluate and determine which model is best suitable for the individual patient.



Scan the QR and watch video:
Guidelines on how to choose
the LM-Activator™ model



Is reinforcement needed

in incisal area?

RFINFORCED

The treating doctor is solely responsible and liable for diagnosis, treatment, and evaluating whether treatment with LM-Activator<sup>™</sup>, LM-Trainer<sup>™</sup> or any other LM-Dental<sup>™</sup>'s product is appropriate for a specific patient, and for the outcome of any treatment with LM-Activator<sup>™</sup>, LM-Trainer<sup>™</sup> or any other LM-Dental<sup>™</sup> 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.

**NARROW** 

**WIDE** 

"We can control the occlusion in a three dimensional way with LM-Activator™. We are able to control overbite, overjet, the lateral contacts of the lower and upper arch and to modify the sagittal growth."





Dr. Gioacchino Pellegrino, DDS, Specialist in Orthodontics, Italy

Dental arch width?

Narrow / Regular

Wide

The LM-Activator™ model features are: LOW and HIGH. These are available with shorter or longer molar sections: SHORT and LONG. The appliances are combinations of these features. The LM-Activator™ 2 models are available with incisal reinforcement for increased durability, REINFORCED. We recommend it for patients over 8 years of age only.

LM-Activator™ 2 models have two alternative arch widths. The most commonly used arch width is NARROW with standard or regular arch. The WIDE model has a wider and shorter arch, and is especially designed for Asian markets. It is suitable also for some Latin American markets. The choice of model should always be based on an examination and diagnosis done by or under supervision of a specialist in orthodontic treatment.

#### LM-Activator™ 2 product range

PRODUCT CODES

94235LSW

94240LSW



I M-Activator™ 2 Low Short

SIZE NARROW REINFORCED

94235LSN

94240LSN

Model with a shorter molar section when the second molars have not yet erupted. Delivered in a yellow box.

94235LSNR

94240LSNR



Model with a longer molar section when the second molars have erupted. Delivered in a blue box.

#### PRODUCT CODES SIZE NARROW REINFORCED 35 94235LLN 94235LLNR 94235LLW 94235LLWR 94240LLN 94240LLNR 94240LLW 94240LLWR 94245LLN 94245LLNR 94245LLW 94245LLWR 50 94250LLN 94250LLNR 94250LLW 94250LLWR 94255LLN 94255LLNR 94255LLW 94255LLWR 60 94260LLN 94260LLNR 94260LLW 94260LLWR 94265LLN 94265LLNR 94265LLW 94265LLWR 94270LLN 94270LLNR 94270LLW 94270LLWR

#### LM-Activator™ 2 High Short

Model with a shorter molar section. The High model is thicker in the region of second premolars and molars. It is designed for treating skeletal and dentoalveolar Open bite cases. Delivered in an orange box.

PRODUCT CODES			
SIZE	NARROW	WIDE	
35	94235HSN	94235HSW	
40	94240HSN	94240HSW	
45	94245HSN	94245HSW	
50	94250HSN	94250HSW	
55	94255HSN	94255HSW	
60	94260HSN	94260HSW	
65	94265HSN	94265HSW	
70	94270HSN	94270HSW	

#### LM-Activator™ 2 High Long

Model with a longer molar section. The High model is thicker in the region of second premolars and molars. It is designed for treating skeletal and dentoalveolar Open bite cases. Delivered in a green box.

PRODUCT CODES		
SIZE	NARROW	WIDE
35	94235HLN	94235HLW
40	94240HLN	94240HLW
45	94245HLN	94245HLW
50	94250HLN	94250HLW
55	94255HLN	94255HLW
60	94260HLN	94260HLW
65	94265HLN	94265HLW
70	94270HLN	94270HLW

#### 94245LSNR 94245LSWR 94245LSN 94245LSW 94250LSWR 50 94250LSN 94250LSNR 94250LSW 94255LSN 94255LSNR 94255LSW 94255LSWR 60 94260LSN 94260LSNR 94260LSW 94260LSWR 94265LSN 94265LSNR 94265LSW 94265LSWR 94270LSN 94270LSNR 94270LSW 94270LSWR

#### LM-Activator™ product range

94235LSWR

94240LSWR

#### I M-Activator™ I ow Short

Model with a shorter molar section when the molars have not vet erupted. Delivered in a vellow 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





MD (E

Model with a longer molar section when the second molars have erupted. Delivered in a blue box.

NARROW
94040L
94045L
94050L
94055L
94060L
94065L
94070L



#### LM-Activator™ High Short

Model with a shorter molar section. The High model is thicker in the region of second premolars and molars. It is designed for treating skeletal and dentoalveolar Open bite cases. Delivered in an orange box.

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. The High model is thicker in the region of second premolars and molars. It is designed for treating skeletal and dentoalveolar Open bite cases. Delivered in a green box.

SIZE	NARROW
45	94045H
50	94050H
55	94055H
60	94060H
65	94065H
70	94070H





### LM-Trainer™ products MD (€





LM-Trainer™ can be used in deciduous dentition, e.g. before LM-Activator™ treatment. It can also be used in functional education and for habit correction, e.g. reverse swallowing and mouth breathing, when harmful oral habits risk causing malocclusions.



#### I M-Trainer<sup>™</sup> Small 94100S

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



#### LM-Trainer™ 2 Medium 94100T2

- Bigger than LM-Trainer™ Medium
- High gloss surface
- Slots for incisors and cuspids
- High labial shields and shaped lingual flanges
- Enhanced lip bumber



#### I M-Trainer<sup>™</sup> Medium

- 94100T
- Slots for incisors and cuspids
- Lip bumber



#### LM-Trainer™ Braces 94100TB

- Used in conjunction with brackets and wires
- Brings the mandible forward for Class II
- Prevents irritation and wounding of soft tissue
- Lip bumper

# orthodontics and LM-Activator"

#### I M-Activator<sup>™</sup> motivational materials

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 the family understands that irregular use may be equivalent with no treatment at all.



#### LM-Activator™ patient motivation path with stickers M1063A

- The language-independent motivation path is used to motivate the daily use of the LM-Activator™ appliance. A young patient is supposed to place a sticker on the calendar path every time she/he wears the appliance (day or night).



#### LM-Activator™ Clinic brochure "Growing happy smiles" 1061EN

- Take-away brochure for clinics to introduce and promote LM-Activator™ treatment for parents. English.



#### How to use LM-Activator™ Patient Guidance brochure M1062EN

- Cartoon styled guidance for parents and patients on how to use LM-Activator™.
- Includes also a calendar for tracking daytime and night-time use. English.



#### LM-Activator™ Clinic poster M1059EN

- For promotion Early orthodontic treatment with LM-Activator™ in a waiting room at a dental clinic. English.



# LMDental™

LM-Instruments Oy

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Making dental care safe, efficient and pleasant.