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LM

feel the difference



ENJOY PERIO.

LMDental

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Your skills are worth LM

Whether it comes to the design or the production of the LM-Dental instruments, we focus on the specific needs of the dental experts. We are in a constant communication with the end users of our products to keep our product development on the cutting edge. We are the innovation leader that others copy. Our radical product theses of the 1980s – a thicker handle, optimized shape, elastic surface, lightness and color coding – have become industry wide standards in the 21st century.

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

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

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

PLANMECA

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

www.planmeca.com

4 LM-DENTAL
LM basics and unique features
Sharpen free LM Sharp Diamond™
LM-ErgoSense® handle
Choosing the handle & coating
Warranty terms

10 DIAGNOSTICS
Mirror handles
Explorers
Periodontal probes
Furcation probes
Diagnostic instrument set

18 PERIODONTICS
LM Sharp Diamond™ instruments
Sickle scalers
Universal curettes
Dual Graceys
Special instruments
Gracey curettes
LM-ErgoMix™ implant instruments
Periodontal instrument sets

41 MAINTENANCE
LM Dental Tracking System™
LM-Servo™ E cassettes
LM-ServoMax™ tray system
LM-Servo™ cassettes
Coding products
LM-RondoPlus™ sharpening machine
Instructions for hand instrument maintenance

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The pioneer in INSTRUMENT ERGONOMICS

How to define the ergonomics of a hand instrument? Firstly a non-slip and natural grip on an instrument are essential. Secondly a lightweight and optimized design prevent effectively occupational diseases. Thirdly a good tactile sensitivity and easy handling of the instrument guarantee the best clinical results. Reliability, wear resistance and comfort are the features that will be evident for both, the dentist and the patient. These are the guiding principals how Pekka Kangasniemi, DDS, one of the founders of LM, defined instrument ergonomics already in the 1980s.

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

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

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

Optimal rigidity
- excellent sensitivity and efficiency
- outstanding corrosion resistance

Hand-finishing
- sharp cutting edge

Precision formed tips
-extremely sharp, smooth cutting edge

To sharpen or not to sharpen?

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

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

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

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

UNCOATED

LMDuraGradeMax®
supersteel
- High wear resistance
- Immune to corrosion
- Can be resharpened



High-tech production technology

Like every true professional we also aim for the ultimate perfection in our work. LM-Dental devotes its entire product development and production process to achieve the best possible quality in all our products for you to have the very best tools to work with. We deliver the highest of quality to guarantee your success in the treatment results. All our products are produced in Finland.

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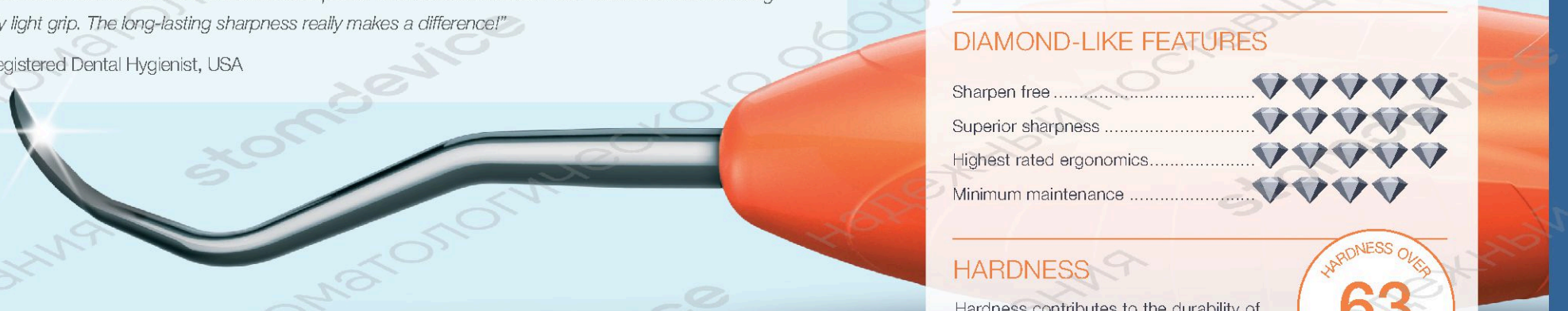
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Enjoy sharpen free prophy and perio

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

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

Anna, Registered Dental Hygienist, USA



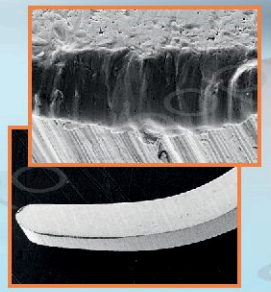
COATED

Ultimate **LM**SharpDiamond™ SHARPEN FREE coating

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



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



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

CHOOSE SHARP.

SHARPEN FREE MICRO COATING

You will enjoy full control and improved tactile sense, while effectively removing the calculus.

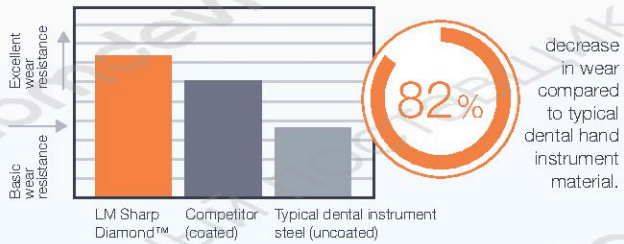


DIAMOND-LIKE FEATURES

HARDNESS

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

WEAR RESISTANCE**



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

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LM-ErgoSense® instrument handle
UNIQUE COMBINATION OF SENSATIONAL ERGONOMICS AND NEW RFID TECHNOLOGY

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

Rated as the best hand instrument

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

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

The story of LM-ErgoSense®



"Feels great in the hand."

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

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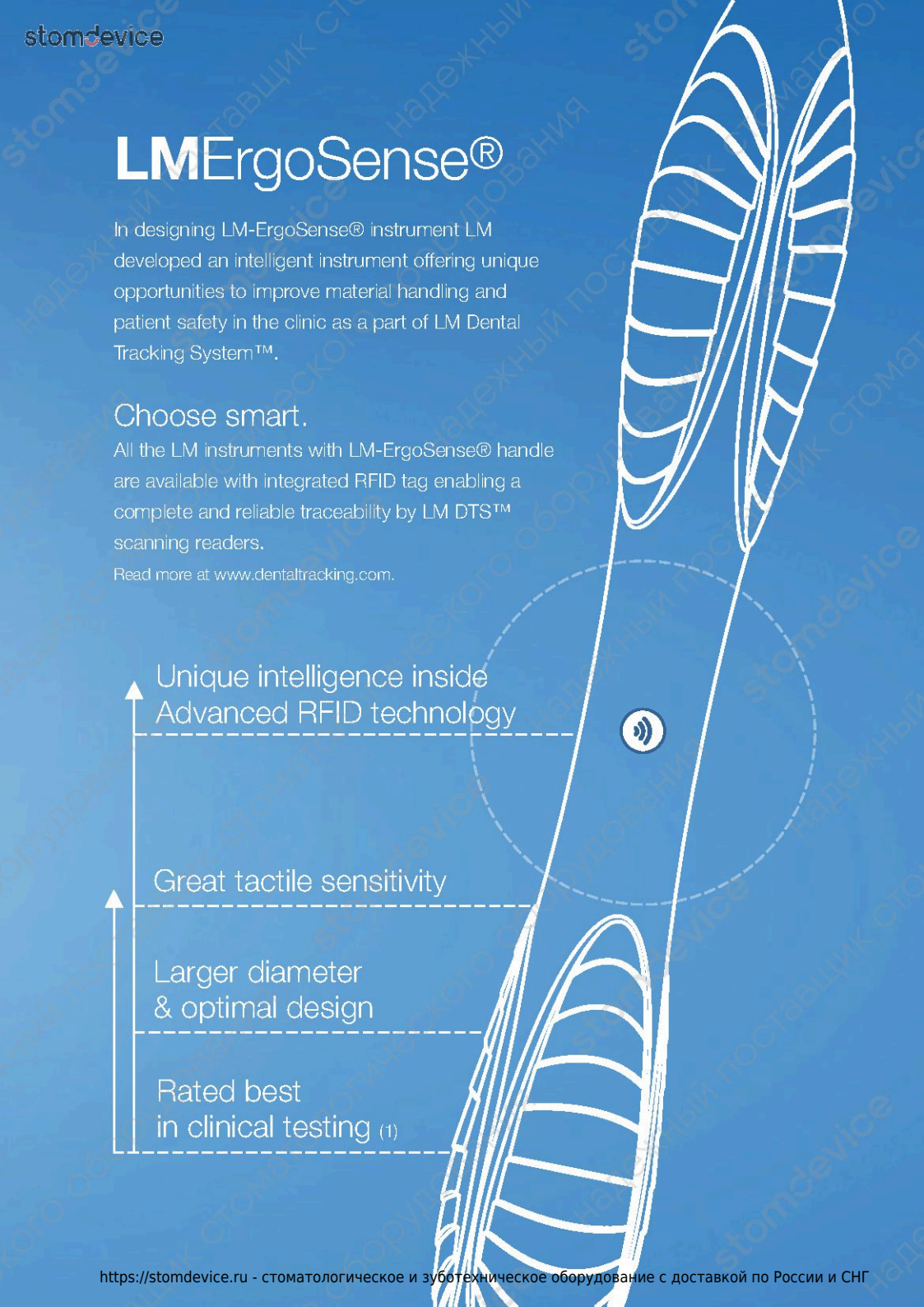
LMErgoSense®

In designing LM-ErgoSense® instrument LM developed an intelligent instrument offering unique opportunities to improve material handling and patient safety in the clinic as a part of LM Dental Tracking System™.

Choose smart.

All the LM instruments with LM-ErgoSense® handle are available with integrated RFID tag enabling a complete and reliable traceability by LM DTS™ scanning readers.

Read more at www.dentaltracking.com.



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TERMS OF WARRANTY

Limited Warranty

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

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

This warranty shall not apply to Products or parts thereof;

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

End-user is entitled to install RFID tags to dental instruments manufactured by Third Party. When installing RFID tags to the dental instruments manufactured by Third Party (hereinafter "Instruments"), end-user is liable to check warranty terms and product information of the Instruments to ensure that instalment does not have adverse effect to Instruments or to the terms and conditions applied between end-user and its suppliers. End-user shall install RFID tags to Instruments or get those installed by LM or other party at its own risk. LM shall not be liable for any damages accrued due to the instalment of RFID tags to Instruments. This limitation of liability does not apply in respect of damage caused by

a) negligence of LM when installing the RFID tags to Instruments, or
b) RFID tags defective at the time of delivery to end-user

to personal private property, or personal injury or death.

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

The end customer must contact the Authorized Dealer from whom the Products were purchased to request repair or replacement under this warranty and a written claim of the defects and send the original Product to the Authorized Dealer. This warranty is void if service or repair is performed by persons not authorized by LM.

Any products not manufactured by LM, carries only such warranty, if any, as given by any manufacturer thereof.

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

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

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Choosing the handle

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

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



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



LMErgoSense®

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.

More information about unique LM Dental Tracking System™ at www.dentaltracking.com.



LMErgoMax™

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

Codes and diameters

LMErgoSense®

ES = LM-ErgoSense® handle (Ø 13.7 mm)

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

LMErgoMax™

XSI = LM-ErgoMax™ handle (Ø 11.5 mm)

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Special handles







LMErgoNorm™

The thinner handle that functions best in light clinical procedures.

LMErgoMix™

The LM-ErgoMix™ handle for exchangeable tips offers all the economical and ecological benefits of retipping. See page 40.

LMErgoSingle™

Well balanced mirror handle with better reachability. See page 12.

LMErgoNorm™

SI = LM-ErgoNorm™handle (Ø 8.5 mm)

LMErgoMix™

EM = LM-ErgoMix™ handle (Ø 12.5 mm)

LMErgoSingle™

ESI = LM-ErgoSingle™ handle (Ø 11.5 mm)

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Choosing the instrument with special coated tips

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. LM Sharp Diamond™ instruments with LM-ErgoSense® handle combine optimal characteristics of superior sharpness, tactile sensitivity and comfort.

LM Sharp Diamond™ instruments, like all LM hand instruments with LM-ErgoSense® handle, are available with integrated LM DTS™ RFID tag for the compatibility with unique LM Dental Tracking System™.

Choose sharp and work efficiently.



No more sharpening!

Codes and features

LMErgoSense®

SD ES = LM-ErgoSense® handle with sharpen free LM Sharp Diamond™ coating

SD EST = LM-ErgoSense® handle with sharpen free LM Sharp Diamond™ coating and integrated LM DTS™ RFID tag

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DIAGNOSTICS

DIAGNOSTICS

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



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MIRROR HANDLES

Simple stem

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

MIRRORS ARE SOLD SEPARATELY.
Mirror #4 simple stem, product no 10P12, box of 12 pcs.

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.



Unique intelligence with **LM** DTS™ RFID tag inside

To order add letter **T** to LM-ErgoSense® product code. E.g.
LM 301-302 **ES** → **EST**

LM-ErgoSingle™ Mirror Handle

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

LMErgoSingle™
- LM 25 ESI RED
- LM 25 ESI GREY
- LM 25 ESI BLUE

LMErgoSingle™
- LM 28 ESI RED
- LM 28 ESI GREY
- LM 28 ESI BLUE

Mirror Handle 25

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

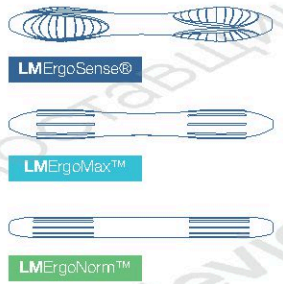
LMErgoSense®
- LM 25 ES RED
- LM 25 ES GREY
- LM 25 ES BLUE

- LM 25 ES REDT
- LM 25 ES GREYT
- LM 25 ES BLUET

LMErgoMax™
- LM 25 XSI RED
- LM 25 XSI GREY
- LM 25 XSI BLUE

LMErgoNorm™
- LM 25 SI RED
- LM 25 SI GREY
- LM 25 SI BLUE

Handle options:

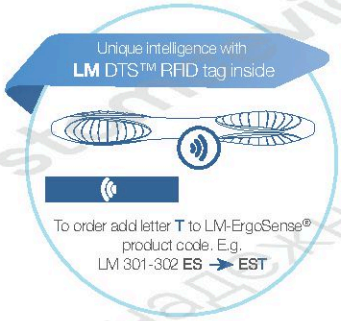


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Mirror Handle 28

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

LMErgoSense®
- LM 28 ES RED
- LM 28 ES GREY
- LM 28 ES BLUE

LMErgoMax™
- LM 28 XSI RED
- LM 28 XSI GREY
- LM 28 XSI BLUE

- LM 28 ES REDT
- LM 28 ES GREYT
- LM 28 ES BLUET

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

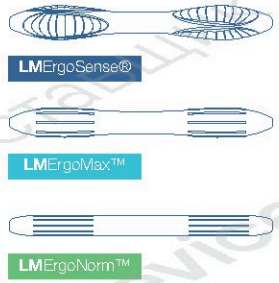
LMErgoSense® LM 28-26 ES
LM 28-26 EST
LMErgoMax™ LM 28-26 XSI

Mirror Handle JM

- For implant installation

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

Handle options:



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EXPLORERS

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





Explorer 5-9

- Standard explorer for diagnostic and operative procedures

LMErgoSense® LM 5-9 ES
LM 5-9 EST
LMErgoMax™ LM 5-9 XSI
LMErgoNorm™ LM 5-9 SI





Especially for probing distal surfaces of posterior teeth.

Explorer 5-8

- Standard explorer for diagnostic and operative procedures

LMErgoSense® LM 5-8 ES
LM 5-8 EST
LMErgoMax™ LM 5-8 XSI
LMErgoNorm™ LM 5-8 SI

Explorer, centered 9-17C

- Standard explorer for diagnostic and operative procedures

LMErgoSense® LM 9-17C ES
LM 9-17C EST
LMErgoMax™ LM 9-17C XSI
LMErgoNorm™ LM 9-17C SI

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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® LM 17-23 ES
LM 17-23 EST
LMErgoMax™ LM 17-23 XSI
LMErgoNorm™ LM 17-23 SI





Especially for probing distal surfaces.

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® LM 17C-23 ES
LM 17C-23 EST
LMErgoMax™ LM 17C-23 XSI
LMErgoNorm™ LM 17C-23 SI



Explorer 3-6

- Standard explorer for diagnostic and operative procedures

LMErgoSense® LM 3-6 ES
LM 3-6 EST
LMErgoMax™ LM 3-6 XSI
LMErgoNorm™ LM 3-6 SI





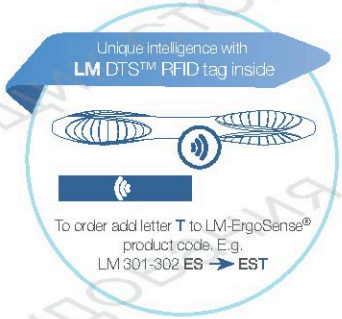
For subgingival root examination.

Explorer 11-12

- Angles similar to Gracey 11/12
- For probing proximal and cervical caries

LMErgoSense® LM 11-12 ES
LM 11-12 EST
LMErgoMax™ LM 11-12 XSI
LMErgoNorm™ LM 11-12 SI

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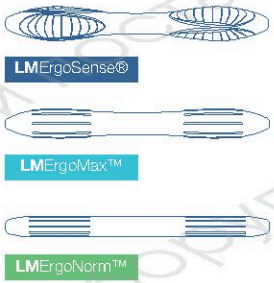




High sensitivity at seams.



Handle options:



Flexplorer 11F-12F

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

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

Explorer 18-19

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

LMErgoSense® LM 18-19 ES
LM 18-19 EST
LMErgoMax™ LM 18-19 XSI
LMErgoNorm™ LM 18-19 SI

Explorer 29

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

LMErgoSense® LM 29 ES
LM 29 EST
LMErgoMax™ LM 29 XSI
LMErgoNorm™ LM 29 SI

Explorer 9

- Single-ended

LMErgoSense® LM 9 ES
LM 9 EST
LMErgoMax™ LM 9 XSI
LMErgoNorm™ LM 9 SI

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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





Explorer - Periodontal Probe 23-52B

LMErgoSense®	LM 23-52B ES
	LM 23-52B EST
LMErgoMax™	LM 23-52B XSI
LMErgoNorm™	LM 23-52B SI

Explorer - Periodontal Probe 8-520B

LMErgoSense®	LM 8-520B ES
	LM 8-520B EST
LMErgoMax™	LM 8-520B XSI
LMErgoNorm™	LM 8-520B SI

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Ball end ø 0,5 mm

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

Explorer - Periodontal Probe 23-520B

LMErgoSense®	LM 23-520B ES
	LM 23-520B EST
LMErgoMax™	LM 23-520B XSI
LMErgoNorm™	LM 23-520B SI

Explorer - Periodontal Probe 23-530B

LMErgoSense®	LM 23-530B ES
	LM 23-530B EST
LMErgoMax™	LM 23-530B XSI
LMErgoNorm™	LM 23-530B SI

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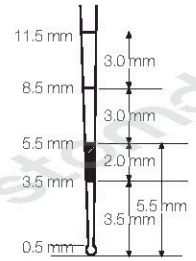


Scale
1-2-3-5-7-8-9-10









WHO probe
was developed
for CPITN method.

Diagnosis:

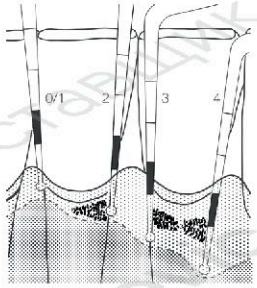
0 = healthy

1 = bleeding during probing

2 = supra- and/or subgingival calculus, filling or crown excesses

3 = gingival pockets to 5 mm

4 = pockets deeper than 6 mm



Williams Probe

- Single-ended

LMErgoSense® LM 51 ES
LM 51 EST
LMErgoMax™ LM 51 XSI
LMErgoNorm™ LM 51 SI

Explorer - WHO Probe 8-550B

LMErgoSense® LM 8-550B ES
LM 8-550B EST
LMErgoMax™ LM 8-550B XSI
LMErgoNorm™ LM 8-550B SI

Explorer - WHO Probe 23-550B

LMErgoSense® LM 23-550B ES
LM 23-550B EST
LMErgoMax™ LM 23-550B XSI
LMErgoNorm™ LM 23-550B SI

WHO Probe 550B

- Single-ended

LMErgoSense® LM 550B ES
LM 550B EST
LMErgoMax™ LM 550B XSI
LMErgoNorm™ LM 550B SI

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North Carolina Probe 54B

- Single-ended

LMErgoSense® LM 54B ES
LM 54B EST
LMErgoMax™ LM 54B XSI



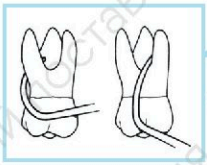
Marquis 12 Probe 53B

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

LMErgoSense® LM 53B ES
LM 53B ES
LMErgoMax™ LM 53B XSI

FURCATION PROBES

For probing the extent and depth of furcation lesions.



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



Nabers Probe

LMErgoSense® LM 20-21 ES
LM 20-21 EST
LMErgoMax™ LM 20-21 XSI
LMErgoNorm™ LM 20-21 SI

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Furcation Probe

LMErgoSense® LM 20B-21B ES
LM 20B-21B EST
LMErgoMax™ LM 20B-21B XSI
LMErgoNorm™ LM 20B-21B SI

INSTRUMENT SET



LM-DiagnoSet

Includes:
LM-Servo™ 5 cassette, Mirror Handle 25 & mirror,
Explorer LM 5-8, WHO Probe LM 550B,
Round Excavator 1.5 mm, tweezers

LMErgoSense® LM 6651 ES
LMErgoMax™ LM 6651 XSI

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PERIODONTICS



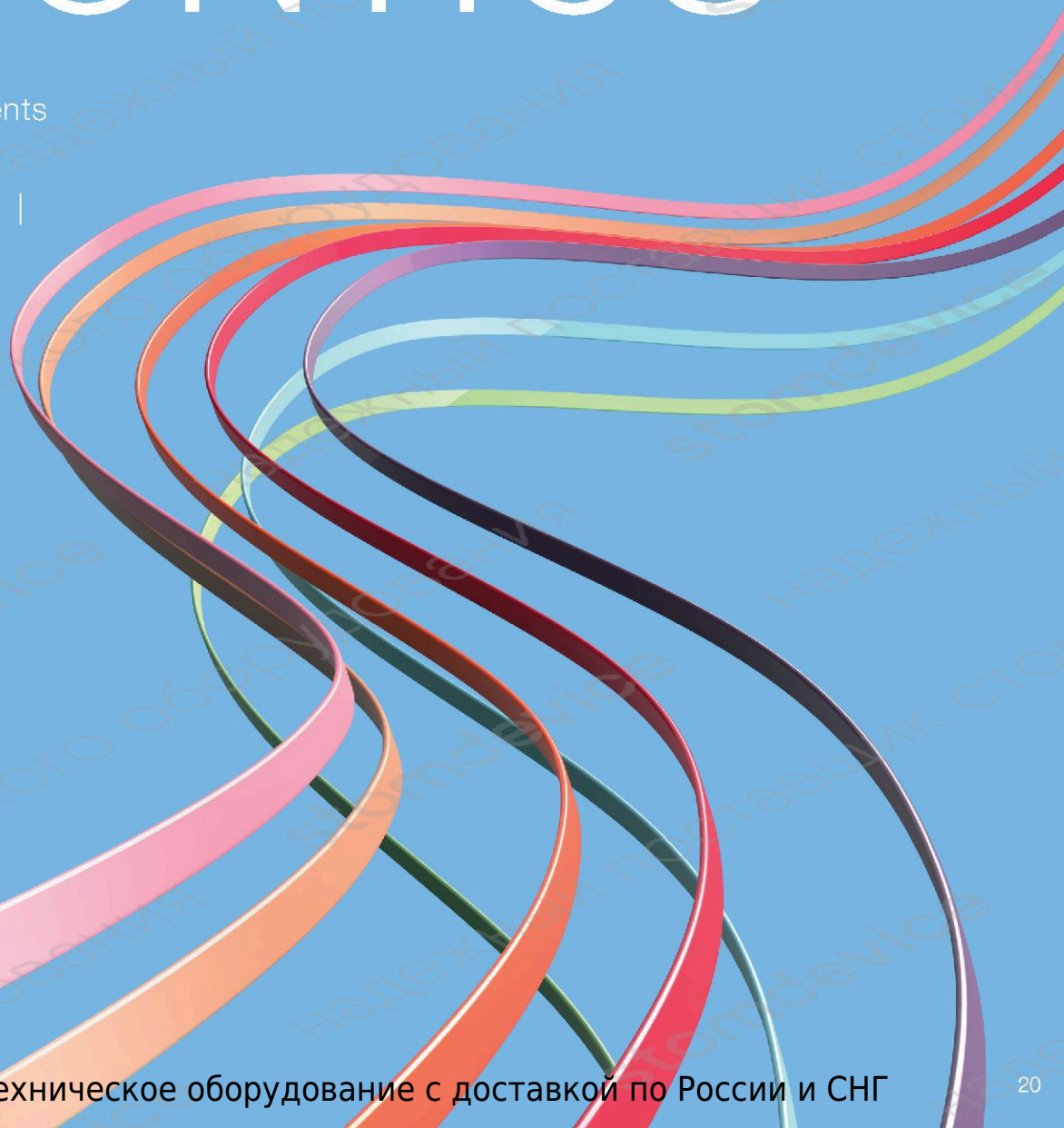
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PERIODONTICS

Sharpen free LM Sharp Diamond™ coated instruments

Sickle scalers | Universal curettes | Dual Graceys |
Special instruments | Gracey curettes |
LM-ErgoMix™ implant instruments |
Periodontal hand instrument sets



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PERIODONTAL INSTRUMENTS WITH SHARPEN FREE COATING

LMSharpDiamond™ - Enjoy sharpen free prophylaxis and perio

LM Sharp Diamond™ instruments are completely sharpen free. These instruments are made from exceptionally durable special metal alloy, and its wear resistance is enhanced by a protective micro membrane coating.

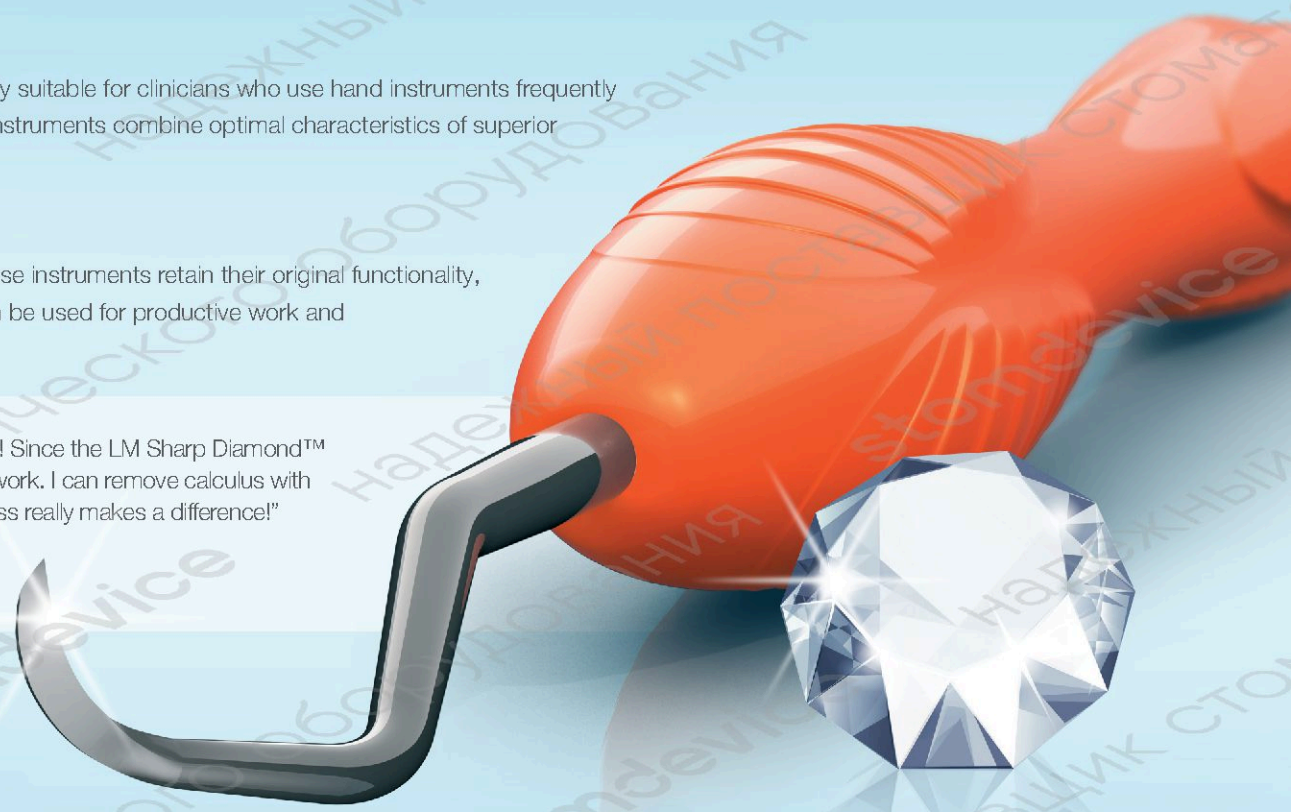
Sharpness & comfort

LM Sharp Diamond™ instruments with LM-ErgoSense® handle are especially suitable for clinicians who use hand instruments frequently and want to minimize the time spent maintaining dental instruments. These instruments combine optimal characteristics of superior sharpness, tactile sensitivity and comfort.

Better instruments, better outcomes

LM Sharp Diamond™ instruments are well-suited for all forms of scaling. These instruments retain their original functionality, size and shape throughout their lifetime. The time saved from sharpening can be used for productive work and promotion of health. Choose sharp and work efficiently.

> “It’s great that I don’t need to waste my time on sharpening any longer! Since the LM Sharp Diamond™ instruments are totally sharpen free, I can concentrate on the clinical work. I can remove calculus with controlled strokes using extremely light grip. The long-lasting sharpness really makes a difference!”
>
> *Anna, Registered Dental Hygienist, USA*



Unique benefits for you and your patient

- Savings of time & money
- Long-lasting superior sharpness
- Highest rated ergonomics with sensational grip*
- Improved productivity & clinical results

You will enjoy full control and improved tactile sense, while effectively removing the calculus.

For more information scan the QR code or visit www.lm-dental.com /sharpdiamond

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SICKLE SCALERS

> **LM**SharpJack™ - what a great instrument!
>
> It has the best features you could wish for. It's very narrow and thin which allows you to enter everywhere, even in the smallest areas. Perfect that the tip is so long so you can get in between molars. My favorite without competition, I'm in love!"
>
> *Malin, Registered Dental Hygienist, Sweden*

The new LM-SharpJack™ instrument features extra long, thin blades for convenient interproximal access presenting the most popular scaler design in the US. The shank is optimally angled to universally adapt in anterior and posterior regions.



NEW

LM-SharpJack™ SD

- LM Sharp Diamond™ sharpen free coating
- Anterior/posterior scaler
- Thin dual-edged blades for easy and efficient interproximal access

LMErgoSense® LM 315-316SD ES

LM 315-316SD EST

Scan the QR for more info & video at www.lm-dental.com/SharpJack



NEW

Scaler LM Nebraska 128 SD

- LM Sharp Diamond™ sharpen free coating
- Instrument for the anterior interproximals

LMErgoSense® LM 128-128SD ES

LM 128-128SD EST



Micro Sickle SD

- LM Sharp Diamond™ sharpen free coating
- Anterior/posterior scaler
- Delicate working end, elongated shank
- Ideal for interproximal surfaces

LMErgoSense® LM 301-302SD ES

LM 301-302SD EST



Mini Sickle SD

- LM Sharp Diamond™ sharpen free coating
- Universal scaler for all tooth surfaces
- Fine, slightly angled blade

LMErgoSense® LM 311-312SD ES

LM 311-312SD EST



Sickle LM23 SD

- LM Sharp Diamond™ sharpen free coating
- Posterior scaler
- Shorter blades and longer lower shank than in Mini Sickle (LM 311-312SD ES)

LMErgoSense® LM 313-314SD ES

LM 313-314SD EST



Scaler H6-H7 SD

- LM Sharp Diamond™ sharpen free coating
- Longer shank and smaller lateral bending than in LM-SharpJack™ (LM 315-316SD ES)
- For all tooth surfaces

LMErgoSense® LM 146-147SD ES

LM 146-147SD EST

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PERIODONTAL INSTRUMENTS WITH SHARPEN FREE COATING

UNIVERSAL CURETTES



Columbia 4L-4R SD

- LM Sharp Diamond™ sharpen free coating
- For incisors, canines and premolars
- For heavier calculus

LMErgoSense® LM 219-220SD ES
LM 219-220SD EST



Barnhart 5-6 SD

- LM Sharp Diamond™ sharpen free coating
- For molars
- Shorter lower shank

LMErgoSense® LM 227-228SD ES
LM 227-228SD EST

DUAL GRACEYS

- The original LM Dual Gracey™ combining the benefits of universal curette and a Gracey curette in one
- More information on page 31



Syntette™ SD

- LM Sharp Diamond™ sharpen free coating
- For removal of supra and subgingival calculus in premolar and molar areas
- For all tooth surfaces

LMErgoSense® LM 215-216SD ES
LM 215-216SD EST



Mini Syntette™ SD

- LM Sharp Diamond™ sharpen free coating
- For removal of supra and subgingival calculus in premolar and molar areas
- For all tooth surfaces

LMErgoSense® LM 215-216MSD ES
LM 215-216MSD EST



NEW

Syntette™ Anterior SD

- LM Sharp Diamond™ sharpen free coating
- For removal of supra and subgingival calculus in premolar and anterior areas
- For all tooth surfaces

LMErgoSense® LM 275-276SD ES
LM 275-276SD EST

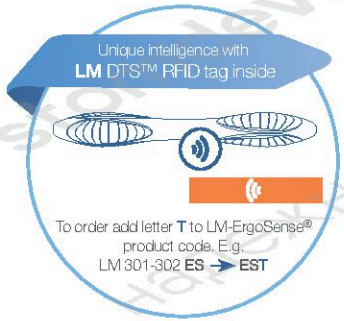


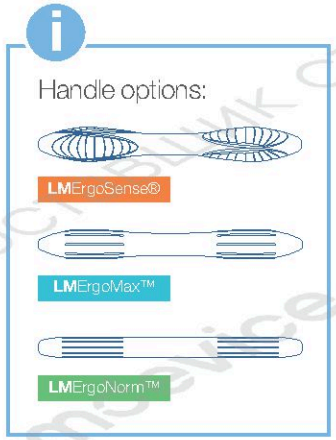
NEW

Mini Syntette™ Anterior SD

- LM Sharp Diamond™ sharpen free coating
- For removal of supra and subgingival calculus in premolar and anterior areas
- For all tooth surfaces

LMErgoSense® LM 275-276MSD ES
LM 275-276MSD EST





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LMSharpDiamond™



Gracey 11/12 SD

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

LMErgoSense® LM 211-212SD ES

LM 211-212SD EST



Gracey 13/14 SD

- LM Sharp Diamondv sharpen free coating
- For premolars and molars
- For distal surfaces

LMErgoSense® LM 213-214SD ES

LM 213-214SD EST



Mini Gracey 11/12 SD

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

LMErgoSense® LM 211-212MSD ES

LM 211-212MSD EST



Mini Gracey 13/14 SD

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

LMErgoSense® LM 213-214MSD ES

LM 213-214MSD EST

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GRACEY CURETTES



Gracey 1/2 SD

- LM Sharp Diamond™ sharpen free coating
- For incisors and premolars

LMErgoSense® LM 201-202SD ES
LM 201-202SD EST



Gracey 7/8 SD

- LM Sharp Diamond™ sharpen free coating
- For premolars and molars
- For buccal and lingual surfaces

LMErgoSense® LM 207-208SD ES
LM 207-208SD EST



Mini Gracey 1/2 SD

- LM Sharp Diamond™ sharpen free coating
- For incisors and premolars

LMErgoSense® LM 201-202MSD ES
LM 201-202MSD EST



Mini Gracey 7/8 SD

- LM Sharp Diamond™ sharpen free coating
- For premolars and molars
- For buccal and lingual surfaces

LMErgoSense® LM 207-208MSD ES
LM 207-208MSD EST

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Mini Gracey 15/16 SD

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

LMErgoSense® LM 245-246MSD ES
LM 245-246MSD EST



Mini Gracey 17/18 SD

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

LMErgoSense® LM 247-248MSD ES
LM 247-248MSD EST

CHOOSE SHARP.

SHARPEN FREE MICRO COATING

You will enjoy full control and improved tactile sense while easily effectively removing the calculus.

Savings of time & money
Long-lasting superior sharpness
Highest rated ergonomics with sensational grip*
Improved productivity & clinical results

DIAMOND-LIKE FEATURES

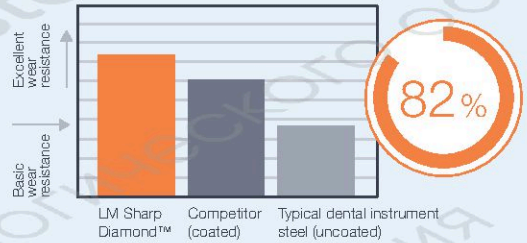
Sharpen free .....
Superior sharpness .....
Highest rated ergonomics.....
Minimum maintenance .....

HARDNESS

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

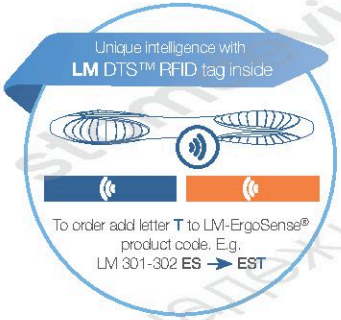
HARDNESS OVER 63 HRC

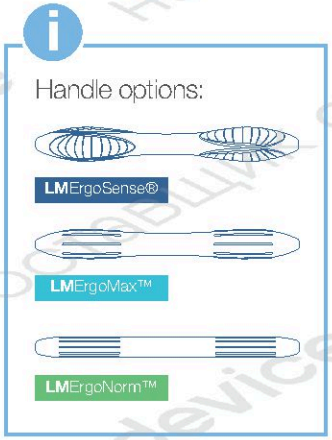
WEAR RESISTANCE**



decrease in wear compared to typical dental hand instrument material.

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





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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

Sharpening of LM-DuraGradeMAX® steel tips

NEW



Scaler LM Nebraska 128

- Instrument for the anterior interproximals

LMErgoSense® LM 128-128 ES

LM 128-128 EST

LMErgoMax™ LM 128-128 XSI

NEW



With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 128-128SD ES

LM 128-128SD EST

NEW



LM-SharpJack™

- Anterior/posterior scaler
- Thin dual-edged blades for easy and efficient interproximal access

With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 315-316SD ES

LM 315-316SD EST

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Delicate working end. Especially for tight interdental spaces.



For all tooth surfaces, especially proximal surfaces.



Micro Sickle

- Anterior/posterior scaler
- Delicate working end, elongated shank

LMErgoSense® LM 301-302 ES
LM 301-302 EST
LMErgoMax™ LM 301-302 XSI
LMErgoNorm™ LM 301-302 SI

Clinical use



With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 301-302SD ES
LM 301-302SD EST



Mini Sickle

- Fine, slightly angled blade
- For all tooth surfaces

LMErgoSense® LM 311-312 ES
LM 311-312 EST
LMErgoMax™ LM 311-312 XSI
LMErgoNorm™ LM 311-312 SI

Clinical use



With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 311-312SD ES
LM 311-312SD EST



Sickle LM204S

- Sharply angulated shank and very fine working end

LMErgoSense® LM 303-304 ES
LM 303-304 EST
LMErgoMax™ LM 303-304 XSI
LMErgoNorm™ LM 303-304 SI

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Sickle LM23

- Posterior scaler
- Shorter blade and longer lower shank than in the Mini Sickle (LM 311-312)

LMErgoSense® LM 313-314 ES
LM 313-314 EST
LMErgoMax™ LM 313-314 XSI
LMErgoNorm™ LM 313-314 SI



With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 313-314SD ES
LM 313-314SD EST



Crane-Kaplan

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

LMErgoSense® LM 322-323 ES
LM 322-323 EST
LMErgoMax™ LM 322-323 XSI
LMErgoNorm™ LM 322-323 SI



Mini Kaplan

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

LMErgoSense® LM 333-334 ES
LM 333-334 EST
LMErgoMax™ LM 333-334 XSI
LMErgoNorm™ LM 333-334 SI

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Scaler H6-H7

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

Clinical use

LMErgoSense® LM 146-147 ES
LM 146-147 EST
LMErgoMax™ LM 146-147 XSI
LMErgoNorm™ LM 146-147 SI



With sharpen free LM Sharp Diamond™ coated tips:

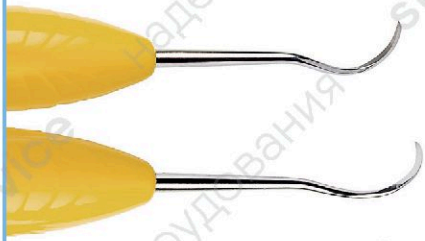
LMErgoSense® LM 146-147SD ES
LM 146-147SD EST



Push Scaler H4-H5

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

LMErgoSense® LM 144-145 ES
LM 144-145 EST
LMErgoMax™ LM 144-145 XSI
LMErgoNorm™ LM 144-145 SI



Laplander

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

LMErgoSense® LM 148-149 ES
LM 148-149 EST
LMErgoMax™ LM 148-149 XSI

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UNIVERSAL CURETTES

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

Instrumentation:

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



Design:

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

Sharpening

McCALL





Strong blade with rigid shank.

McCall 13S-14S

- For incisors and premolars

LMErgoSense®	LM 222-223 ES
	LM 222-223 EST
LMErgoMax™	LM 222-223 XSI
LMErgoNorm™	LM 222-223 SI

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Mini McCall 13S-14S

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

LMErgoSense®	LM 222-223M ES
	LM 222-223M EST
LMErgoMax™	LM 222-223M XSI
LMErgoNorm™	LM 222-223M SI

Clinical use



Curette LM 15-16

- Alternative for the McCall 13S-14S
- For removal of heavy calculus

LMErgoSense®	LM 225-226 ES
	LM 225-226 EST
LMErgoMax™	LM 225-226 XSI
LMErgoNorm™	LM 225-226 SI



McCall 17-18

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

LMErgoSense®	LM 277-278 ES
	LM 227-278 EST
LMErgoMax™	LM 277-278 XSI
LMErgoNorm™	LM 277-278 SI



McCall 17S-18S

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

LMErgoSense®	LM 279-280 ES
	LM 279-280 EST
LMErgoMax™	LM 279-280 XSI
LMErgoNorm™	LM 279-280 SI

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LANGER

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





Langer 1/2

- For premolars and molars in the lower jaw

LMErgoSense®	LM 281-282 ES
	LM 281-282 EST
LMErgoMax™	LM 281-282 XSI
LMErgoNorm™	LM 281-282 SI





Langer 3/4

- For premolars and molars in the upper jaw

LMErgoSense®	LM 283-284 ES
	LM 283-284 EST
LMErgoMax™	LM 283-284 XSI
LMErgoNorm™	LM 283-284 SI





Langer 5/6

- For incisors in the upper and lower jaw

LMErgoSense®	LM 285-286 ES
	LM 285-286 EST
LMErgoMax™	LM 285-286 XSI
LMErgoNorm™	LM 285-286 SI

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MINI LANGER

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





Mini Langer 1/2

- For premolars and molars in the lower jaw

LMErgoSense®	LM 281-282M ES
	LM 2841-282M EST
LMErgoMax™	LM 281-282M XSI
LMErgoNorm™	LM 281-282M SI





Mini Langer 3/4

- For premolars and molars in the upper jaw

LMErgoSense®	LM 283-284M ES
	LM 283-284M EST
LMErgoMax™	LM 283-284M XSI
LMErgoNorm™	LM 283-284M SI





Mini Langer 5/6

- For incisors in the upper and lower jaw

LMErgoSense®	LM 285-286M ES
	LM 285-286M EST
LMErgoMax™	LM 285-286M XSI
LMErgoNorm™	LM 285-286M SI

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GOLDMAN FOX



Goldman-Fox 3

- For premolars and molars

LMErgoSense®	LM 233-234 ES
	LM 233-234 EST
LMErgoMax™	LM 233-234 XSI
LMErgoNorm™	LM 233-234 SI

COLUMBIA



Columbia 4L-4R

- For incisors, canines and premolars
- For heavier calculus

Clinical use

LMErgoSense®	LM 219-220 ES
	LM 219-220 EST
LMErgoMax™	LM 219-220 XSI
LMErgoNorm™	LM 219-220 SI



With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense®	LM 219-220SD ES
	LM 219-220SD EST

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Columbia 2L-2R

- For incisors and premolars

Clinical use

LMErgoSense® LM 217-218 ES
LM 217-218 EST
LMErgoMax™ LM 217-218 XSI
LMErgoNorm™ LM 217-218 SI



Columbia 13-14

- For molars

LMErgoSense® LM 237-238 ES
LM 237-238 EST
LMErgoMax™ LM 237-238 XSI
LMErgoNorm™ LM 237-238 SI

BARNHART



Barnhart 5-6

- For molars
- Shorter lower shank

LMErgoSense® LM 227-228 ES
LM 227-228 EST
LMErgoMax™ LM 227-228 XSI



With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 227-228SD ES
LM 227-228SD EST

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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.

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



Introduction video for use of LM Dual Gracey™ instruments

Design:

- Two elliptical cutting edges
- Rounded tip

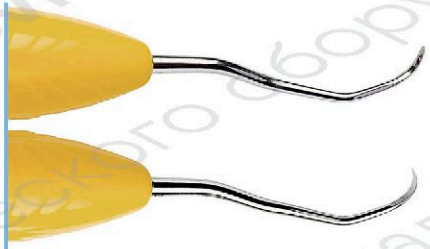
LM INNOVATION

LMSyntette™, the Story of ORIGINAL Dual Gracey

In the late '70s Swedish dentist Leif Ericsson, the head of the Perio Department in Västervik Hospital in Sweden, was challenged by the complexity and number of instruments used during periodontal treatments. *Couldn't there be an easier choice and more versatile instument?*, he thought.

Ericsson analyzed the design and function of the two most popular Graceys - 11/12 and 13/14 - and came up with the innovative idea: a synthesis of two curettes - a Syntette™!

A meeting on the train with founder of LM, Finnish dentist Pekka Kangasniemi in '80s, restarted the discussions about the idea for a double-sided Gracey, and a truly universal instrument, the Syntette™ was conceived.



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® LM 215-216 ES
LM 215-216 EST
LMErgoMax™ LM 215-216 XSI
LMErgoNorm™ LM 215-216 SI



With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 215-216SD ES
LM 215-216SD EST



Mini Syntette™

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

LMErgoSense® LM 215-216M ES
LM 215-216M EST
LMErgoMax™ LM 215-216M XSI
LMErgoNorm™ LM 215-216M SI



With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 215-216MSD ES
LM 215-216MSD EST

NEW



Syntette™ Anterior SD

- LM Sharp Diamond™ sharpen free coating
- 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

LMErgoSense® LM 275-276SD ES
LM 275-276SD EST



NEW

Mini Syntette™ Anterior SD

- LM Sharp Diamond™ sharpen free coating
- A combination of universal curette and Mini Gracey 1/2 and Gracey 7/8 curettes
- For removal of supra and subgingival calculus in premolar and anterior areas
- For all tooth surfaces, excellent in narrow, deep pockets

LMErgoSense® LM 275-276MSD ES
LM 275-276MSD EST

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DIAMOND FILES

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

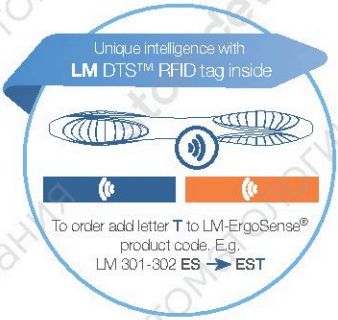
Can be used with multidirectional strokes.

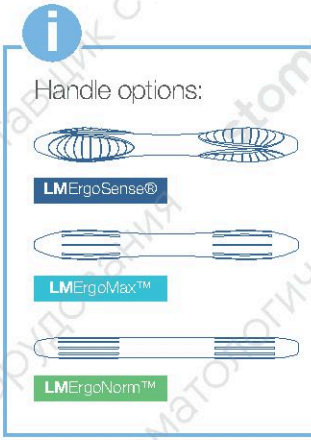


Concavity Diamond File SV 5-6

- Diamond coated round curved toe
- For acute furcation lesions

LMErgoSense®	LM 255-256D ES
	LM 255-256D EST
LMErgoMax™	LM 255-256D XSI
LMErgoNorm™	LM 255-256D SI







Furcation Diamond File SV 7-8

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

LMErgoSense®	LM 257-258D ES
	LM 257-258D EST
LMErgoMax™	LM 257-258D XSI
LMErgoNorm™	LM 257-258D SI

Clinical use

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Diamond File mes-dist

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

LMErgoSense® LM 263-264D ES
LM 263-264D EST
LMErgoMax™ LM 263-264D XSI



Furcation Diamond File

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

LMErgoSense® LM 261-262D ES
LM 261-262D EST
LMErgoMax™ LM 261-262D XSI

FURCATION INSTRUMENT

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



Clinical use



Furcator KS

- 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

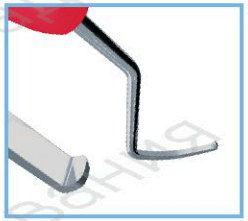
LMErgoSense® LM 259-260 ES
LM 259-260 EST
LMErgoMax™ LM 259-260 XSI

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HOE SCALERS

For the removal of supra- and subgingival calculus.

Suitable for deep, narrow pockets and concave root surfaces. For both vertical and horizontal techniques.



Design:

- Fine hoe-shaped blade with rounded corners
- Elliptical cutting edge

Sharpening



Hoe Scaler, anterior

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



LMErgoSense®	LM 112-113 ES
	LM 112-113 EST
LMErgoMax™	LM 112-113 XSI
LMErgoNorm™	LM 112-113 SI

Clinical use



Hoe Scaler, lateral

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



LMErgoSense®	LM 134-135 ES
	LM 134-135 EST
LMErgoMax™	LM 134-135 XSI
LMErgoNorm™	LM 134-135 SI

Clinical use



Hoe Scaler, posterior

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



LMErgoSense®	LM 156-157 ES
	LM 156-157 EST
LMErgoMax™	LM 156-157 XSI
LMErgoNorm™	LM 156-157 SI

Clinical use

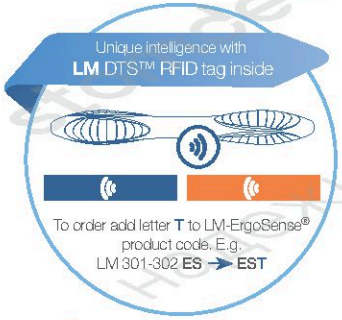
SURGICAL HANDLE



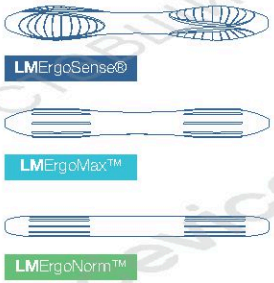
LM-ErgoHold™ 3

- 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)

LMErgoHold™	LM 9003
	LM 9003T



Handle options:



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GRACEY CURETTES

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



Design:

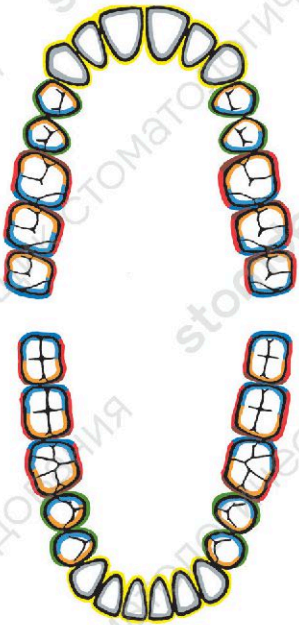
- Working surface inclined 20° to the lower shank
- One curved cutting edge (red line)
- Rounded cutting tip

Sharpening of LM-DuraGradeMAX® steel tips

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

All surfaces

- Gracey 1/2
- Gracey 5/6
- Gracey 3/4

Premolars and molars

Buccal-lingual

- Gracey 7/8
- Gracey 9/10

Mesial

- Gracey 11/12
- Gracey 15/16

Distal

- Gracey 13/14
- Gracey 17/18

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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

LMErgoSense® LM 201-202 ES
LM 201-202 EST
LMErgoMax™ LM 201-202 XSI
LMErgoNorm™ LM 201-202 SI





Mini Gracey 1/2

- For incisors and premolars

LMErgoSense® LM 201-202M ES
LM 201-202M EST
LMErgoMax™ LM 201-202M XSI
LMErgoNorm™ LM 201-202M SI



With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 201-202SD ES
LM 201-202SD EST



With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 201-202MSD ES
LM 201-202MSD EST

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Gracey 3/4

- For incisors and premolars

LMErgoSense®	LM 203-204 ES
	LM 203-204 EST
LMErgoMax™	LM 203-204 XSI
LMErgoNorm™	LM 203-204 SI





Gracey P3-P4

- Short shank makes the instrument more rigid

LMErgoSense®	LM 266-267 ES
	LM 266-267 EST
LMErgoMax™	LM 266-267 XSI
LMErgoNorm™	LM 266-267 SI



Gracey 5/6

- For incisors and premolars
- Especially useful in proximal surfaces

LMErgoSense®	LM 205-206 ES
	LM 205-206 EST
LMErgoMax™	LM 205-206 XSI
LMErgoNorm™	LM 205-206 SI





Gracey 9/10

- For molars' buccal and lingual surfaces using horizontal technique

LMErgoSense®	LM 209-210 ES
	LM 209-210 EST
LMErgoMax™	LM 209-210 XSI
LMErgoNorm™	LM 209-210 SI



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Gracey 7/8

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



LMErgoSense® LM 207-208 ES

LM 207-208 EST

LMErgoMax™ LM 207-208 XSI

LMErgoNorm™ LM 207-208 SI

Clinical use



Mini Gracey 7/8

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

LMErgoSense® LM 207-208M ES

LM 207-208M EST

LMErgoMax™ LM 207-208M XSI

LMErgoNorm™ LM 207-208M SI



With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 207-208SD ES

LM 207-208SD EST



With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 207-208MSD ES

LM 207-208MSD EST

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Gracey 11/12

- For premolars' and molars' mesial surfaces'





Mini Gracey 11/12

- For premolars' and molars'mesial surfaces'

LMErgoSense® LM 211-212 ES
LM 211-212 EST
LMErgoMax™ LM 211-212 XSI
LMErgoNorm™ LM 211-212 SI

Clinical use

LMErgoSense® LM 211-212M ES
LM 211-212M EST
LMErgoMax™ LM 211-212M XSI
LMErgoNorm™ LM 211-212M SI

TOP FAVORITE



With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 211-212SD ES
LM 211-212SD EST



With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 211-212MSD ES
LM 211-212MSD EST

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Gracey 13/14

- For premolars' and molars' distal surfaces

LMErgoSense® LM 213-214 ES
LM 213-214 EST
LMErgoMax™ LM 213-214 XSI
LMErgoNorm™ LM 213-214 SI

Clinical use

Mini Gracey 13/14

- For premolars' and molars' distal surfaces

LMErgoSense® LM 213-214M ES
LM 213-214M EST
LMErgoMax™ LM 213-214M XSI
LMErgoNorm™ LM 213-214M SI

TOP FAVORITE





With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 213-214SD ES
LM 213-214SD EST

With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 213-214MSD ES
LM 213-214MSD EST



Gracey 15/16

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

LMErgoSense® LM 245-246 ES
LM 245-246 EST
LMErgoMax™ LM 245-246 XSI
LMErgoNorm™ LM 245-246 SI

Clinical use





Mini Gracey 15/16

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

LMErgoSense® LM 245-246M ES
LM 245-246M EST
LMErgoMax™ LM 245-246M XSI
LMErgoNorm™ LM 245-246M SI



With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 245-246MSD ES
LM 245-246MSD EST

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Gracey 17/18

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

LMErgoSense® LM 247-248 ES
LM 247-248 EST
LMErgoMax™ LM 247-248 XSI
LMErgoNorm™ LM 247-248 SI

Clinical use





Mini Gracey 17/18

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

LMErgoSense® LM 247-248M ES
LM 247-248M EST
LMErgoMax™ LM 247-248M XSI
LMErgoNorm™ LM 247-248M SI



With sharpen free LM Sharp Diamond™ coated tips:

LMErgoSense® LM 247-248MSD ES
LM 247-248MSD EST

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MACRO GRACEY

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

Macro Gracey 5/6

- For incisors and premolars
- Especially useful in proximal surfaces

LMErgoSense® LM 205-206AF ES
LM 205-206AF EST
LMErgoMax™ LM 205-206AF XSI
LMErgoNorm™ LM 205-206AF SI

Macro Gracey 7/8

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

LMErgoSense® LM 207-208AF ES
LM 207-208AF EST
LMErgoMax™ LM 207-208AF XSI
LMErgoNorm™ LM 207-208AF SI

Macro Gracey 11/12

- For premolars' and molars' mesial surfaces

LMErgoSense® LM 211-212AF ES
LM 211-212AF EST
LMErgoMax™ LM 211-212AF XSI
LMErgoNorm™ LM 211-212AF SI

Macro Gracey 13/14

- For premolars' and molars' distal surfaces

LMErgoSense® LM 213-214AF ES
LM 213-214AF EST
LMErgoMax™ LM 213-214AF XSI
LMErgoNorm™ LM 213-214AF SI

RIGID GRACEY

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

Rigid Gracey 1/2

- For incisors and premolars

LMErgoSense® LM 201-202R ES
LM 201-202R EST
LMErgoMax™ LM 201-202R XSI
LMErgoNorm™ LM 201-202R SI

Rigid Gracey 7/8

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

LMErgoSense® LM 207-208R ES
LM 207-208R EST
LMErgoMax™ LM 207-208R XSI
LMErgoNorm™ LM 207-208R SI

Rigid Gracey 11/12

- For premolars' and molars' mesial surfaces

LMErgoSense® LM 211-212R ES
LM 211-212R EST
LMErgoMax™ LM 211-212R XSI
LMErgoNorm™ LM 211-212R SI

Rigid Gracey 13/14

- For premolars' and molars' distal surfaces

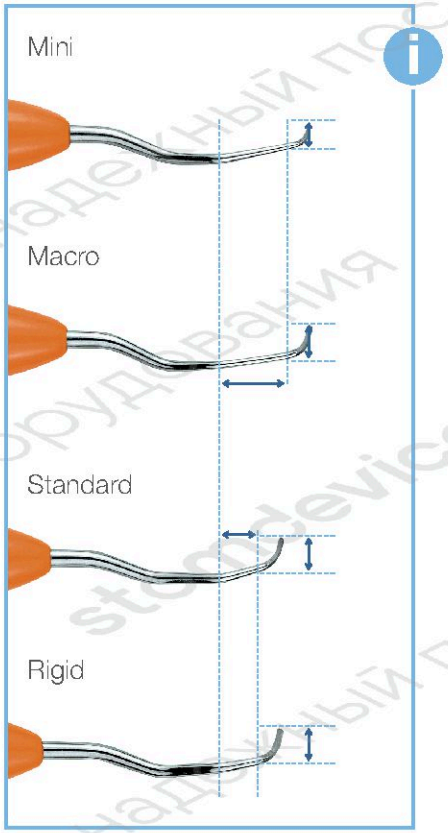
LMErgoSense® LM 213-214R ES
LM 213-214R EST
LMErgoMax™ LM 213-214R XSI
LMErgoNorm™ LM 213-214R SI

Rigid Gracey 15/16

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

LMErgoSense® LM 245-246R ES
LM 245-246R EST
LMErgoMax™ LM 245-246R XSI
LMErgoNorm™ LM 245-246R SI

The types of Gracey curettes:



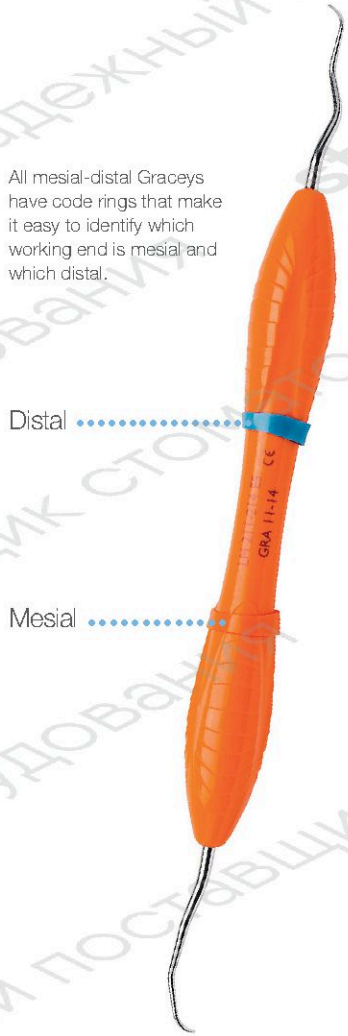
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MESIAL-DISTAL GRACEY

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

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



Gracey 11/14

- LMErgoSense® LM 211-214 ES
- LM 211-214 EST
- LMErgoMax™ LM 211-214 XSI
- LMErgoNorm™ LM 211-214 SI

Gracey 12/13

- LMErgoSense® LM 212-213 ES
- LM 212-213 EST
- LMErgoMax™ LM 212-213 XSI
- LMErgoNorm™ LM 212-213 SI

Gracey 15/18

- LMErgoSense® LM 245-248 ES
- LM 245-248 EST
- LMErgoMax™ LM 245-248 XSI
- LMErgoNorm™ LM 245-248 SI

Gracey 16/17

- LMErgoSense® LM 246-247 ES
- LM 246-247 EST
- LMErgoMax™ LM 246-247 XSI
- LMErgoNorm™ LM 246-247 SI

MINI MESIAL-DISTAL GRACEY

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

Mini Gracey 11/14

- LMErgoSense® LM 211-214M ES
- LM 211-214M EST
- LMErgoMax™ LM 211-214M XSI
- LMErgoNorm™ LM 211-214M SI

Mini Gracey 12/13

- LMErgoSense® LM 212-213M ES
- LM 212-213M EST
- LMErgoMax™ LM 212-213M XSI
- LMErgoNorm™ LM 212-213M SI

Mini Gracey 15/18

- LMErgoSense® LM 245-248M ES
- LM 245-248M EST
- LMErgoMax™ LM 245-248M XSI
- LMErgoNorm™ LM 245-248M SI

Mini Gracey 16/17

- LMErgoSense® LM 246-247M ES
- LM 246-247M EST
- LMErgoMax™ LM 246-247M XSI
- LMErgoNorm™ LM 246-247M SI

MACRO MESIAL-DISTAL GRACEY

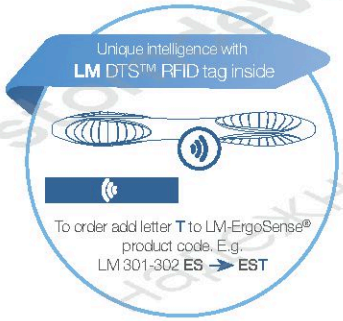
Macro models have standard model's long working end combined with mini model's longer lower shank. Excellent reach interdentally in deep pockets.

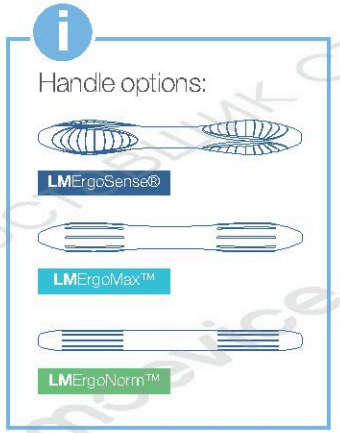
Macro Gracey 11/14

- LMErgoSense® LM 211-214AF ES
- LM 211-214AF EST
- LMErgoMax™ LM 211-214AF XSI
- LMErgoNorm™ LM 211-214AF SI

Macro Gracey 12/13

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





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EXCHANGEABLE TITANIUM TIPS FOR IMPLANTS

LMErgoMix™

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

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

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



Benefits of retipping:

- Always sharp instruments
- Minimizes waste
- Enables personalized tip combinations.



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

Implant Mini Universal curette

LMErgoMix™ LM 283-284MTI EM

- Delicate working end
- Especially for tight interdental spaces

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Implant Mini Gracey 1/2

LMErgoMix™ LM 201-202MTI EM

- For incisors and premolars



Implant Mini Gracey 11/12

LMErgoMix™ LM 211-212MTI EM

- For premolars' and molars' mesial surfaces



Implant Mini Gracey 13/14

LMErgoMix™ LM 213-214MTI EM

- For premolars' and molars' distal surfaces

LM-ErgoMix™ spare parts

Spare handle	
LM-ErgoMix™ handle dark grey	LM 9011 EM
Spare lock grips	
Orange	LM 9020 EM
Light blue	LM 9021 EM
Grey	LM 9022 EM
Yellow	LM 9023 EM
Dark grey	LM 9024 EM
Red	LM 9025 EM
Spare titanium tips	
Implant Mini Universal Curettel L	LM 283MTi EM
Implant Mini Universal Curette R	LM 284MTI EM
Implant Mini Gracey 1	LM 201MTI EM
Implant Mini Gracey 2	LM 202MTI EM
Implant Mini Gracey 11	LM 211MTI EM
Implant Mini Gracey 12	LM 212MTI EM
Implant Mini Gracey 13	LM 213MTI EM
Implant Mini Gracey 14	LM 214MTI EM

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PERIODONTAL INSTRUMENT SETS





LM-PerioSet 1

LMErgoSense® LM 6652 ES

LMErgoMax™ LM 6652 XSI

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

LM-PerioSet 2

LMErgoSense® LM 6682 ES

LMErgoMax™ LM 6682 XSI

Includes:
LM-Servo™ 8 cassette, Mini Sickle, Curette McCall 17-18, Gracey 1/2, Gracey 9/10, Gracey 11/12, Gracey 13/14, Mini Gracey 15/16, Mini Gracey 17/18

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Powered by

STYLEITALIANO

> **The LM-PerioKit by Style Italiano contains the essentials for the best possible therapy.**

Instruments have been selected in the spirit of Style Italiano 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."

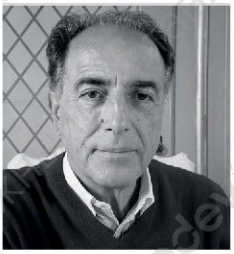
Giano Ricci
MD. DDS. MScD.

LM-PerioKit

LMErgoSense® LM 6842 ES

Exclusively selected
by Dr. Giano Ricci / Style Italiano

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



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INSTRUMENT HANDLING & MAINTENANCE

LM Dental Tracking System™ | LM-Servo™ E cassettes | LM-ServoMax™ tray system & LM-Servo™ cassettes | Coding products | LM-RondoPlus™ sharpening machine | Instructions for LM hand instrument maintenance



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LM INNOVATION

LM Dental Tracking System™

IMPROVING MATERIAL FLOWS AND PATIENT SAFETY

Unique RFID intelligence in dental clinics

What if you could know the exact location and status of every dental instrument and material in your clinic?

LM Dental Tracking System™ is the first commercially available system in dental industry to efficiently track and monitor instruments and materials using an advanced RFID technology.

The unique LM Dental Tracking System™ is created by combining scanning readers, proprietary server software and dental instruments and materials with built-in or retrotagged RFID tags. The system gives the visibility of instruments and materials from storage and maintenance to patient care.

The scanned and documented information improves patient safety, material handling and increases cost efficiency. LM DTS™ offers new possibilities within maintenance and clinical use for dental clinics.



KEY ADVANTAGES

Patient safety
- Safe materials
- Sterilized instruments
- Material traceability

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

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

Documentation & education support
- Reduce risks
- Decrease loss
- Clinical training
- Patient session planning



New intelligence in the dental clinic - know the location of all instruments and materials.

Scan the QR for more Information at www.dentaltracking.com

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LM INNOVATION

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 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 (LM 6000 - 6005) and attached to the LM-ServoMax™ with a special lock (LM 6417).

NEW

LM-Servo™ 5E

- For five hand instruments
- Cassette is equipped with safety shields of different colors: grey, blue, green and yellow.
- Outer dimensions: 180 x 83 x 26 mm
- Inner dimensions: 174,8 x 78,6 x 21,4 mm



LM 6551 grey
LM 6551T grey



LM 6552 blue
LM 6552T blue



LM 6553 green
LM 6553T green



LM 6554 yellow
LM 6554T yellow

NEW

LM-Servo™ 8E

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



LM 6581 grey
LM 6581T grey



LM 6582 blue
LM 6582T blue



LM 6583 green
LM 6583T green



LM 6584 yellow
LM 6584T yellow

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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-ServoMax™ tray set
LM 6410

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

Rational maintenance with minimal handling



Clinical use



LM-ServoMax™ universal trapper, 2 pcs
LM 6416



LM-ServoMax™ metal clips, 2 pcs
LM 6415

- For locking LM-Servo™ 5 or LM-Servo™ 8 instrument cassette on the tray



LM-ServoMax™ standard case
LM 6420



LM-ServoMax™ restoration / endo case
LM 6430

LM-ServoMax foam, 20 pcs
LM 6435

- For cleaning the endo files



LM-ServoMax™ ultrasonic tip case
LM 6460

- For six ultrasonic tips



LM-ServoMax™ bur endofile case
LM 6450

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



LM-ServoMax™ syringe holder
LM 6495

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

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



LM-ServoMax™ waste cup holder

LM 6490



LM-ServoMax™ instrument rack

- LM 6471 black
- LM 6472 orange
- LM 6473 blue
- LM 6474 red
- LM 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™ tray with metal clips (LM 6415).



LM-Servo™ 5

LM 6650

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



LM-Servo™ 8

LM 6680

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

CODING PRODUCTS

Code buttons

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

- For color-coding the LM-Servo™ and LM-Servo™ E cassettes
- Package 20 pcs / color



Code rings

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

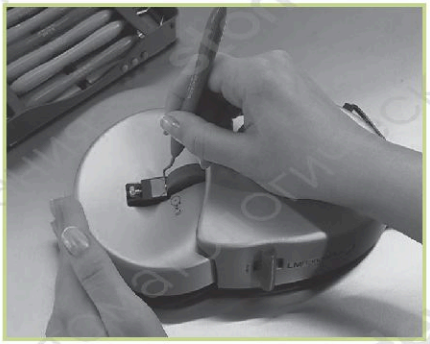
- For color-coding hand instruments
- Package 50 pcs / color

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SHARPENING MACHINE

LMRondoPlus™

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



Easy and quick

- Simple method - the blade is held in the correct sharpening position and the grinding stone rotates
- Sharpening one instrument only takes a few seconds

Versatile

- For both periodontal and preparation instruments
- For both right- or left-handed
- The direction of rotation can be selected

Accurate and safe

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

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





Interactive demonstration and instruction CD and handy quick guide included!

LM-RondoPlus™

LM 8600

Package includes:
Sharpening machine, foot pedal, 400 grit sharpening stone, 2 LM-Fingos™, 5 emery tapes, instruction CD and quick guide



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

Spare Parts

Grinding stone

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

- LM 8630 Foot pedal
- LM 8550 Emery tapes, 5 pcs
- LM 8602 LM-Fingo™ 2 pcs
- LM 8606 LM-Fingo™, 6 pcs

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INSTRUCTIONS FOR LM HAND INSTRUMENT MAINTENANCE

1. Pre-disinfection

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

2. Rinsing

Rinse instruments thoroughly under warm running water.

3. Cleaning

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

4. Rinsing

Rinse instruments thoroughly under warm running water.

5. Drying

Dry instruments before sterilization.

6. Inspection and sharpening

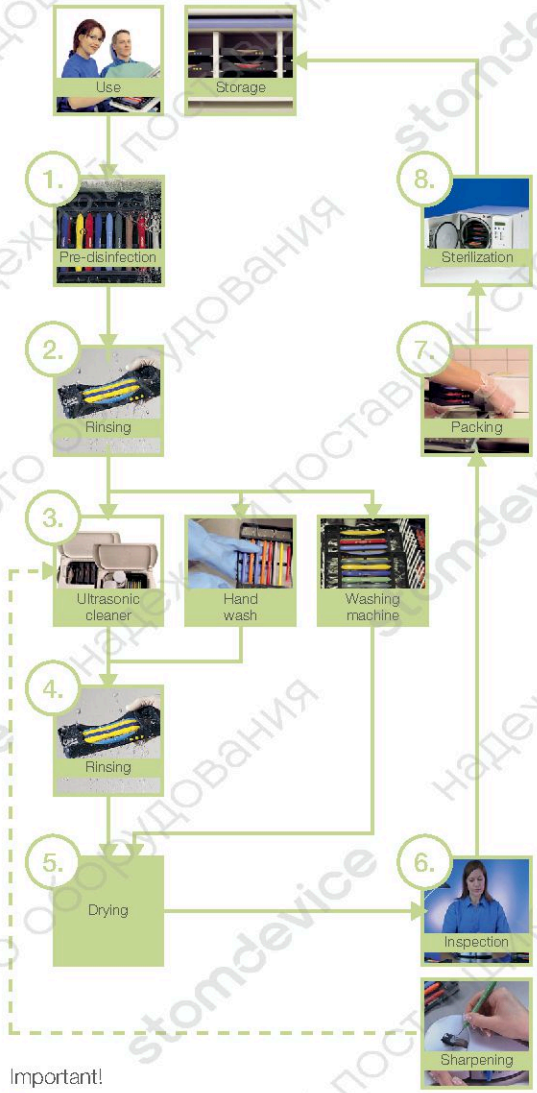
Sharpen, service or replace instruments, if necessary.
Note! Do not sharpen LM Sharp Diamond™ instruments.

7. Packing

Pack serviced and cleaned instruments for sterilization.

8. Sterilization

Autoclave: place clean, dry and properly packed instruments into the autoclave.
Hot-air sterilization: place clean, dry and properly packed instruments into the hot-air sterilizer; do not fit them in too tightly; ensure that temperature is correct (max. 180 °C/355 °F).
Note! LM extraction instruments max 134 °C/273 °F.



Important!

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

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We reserve the right to make any changes.

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