

LMSharpDiamond™

LM

feel the  
difference

LMSharpDiamond™  
SHARPEN FREE COATING



CHOOSE SHARP.

# LMSharpDiamond™ - Enjoy sharpen free prophylaxis and perio



WE CREATE GENUINE VALUE FOR DENTAL CARE PROFESSIONALS

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.



Scan the QR for  
more info & video at  
[www.lm-dental.com/sharpdiamond](http://www.lm-dental.com/sharpdiamond)





## EXCELLENT SHARPNESS AND 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 BRING 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.

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

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

Optimal rigidity  
- excellent sensitivity and efficiency  
- outstanding corrosion resistance

Precision formed tips and high-quality finishing  
- extremely sharp and smooth cutting edge

### Ultimate LMSharpDiamond™ 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



Sharpen free instruments – finished design and usability



## Sickle Scalers

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

“ LMSharpJack™ - 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*



### LM-SharpJack™ SD

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

LMErgoSense®

LM 315-316SD ES



Scan the QR for more info & video at [www.lm-dental.com/SharpJack](http://www.lm-dental.com/SharpJack)



### Scaler LM Nebraska 128 SD

- Instrument for the anterior interproximals

LMErgoSense®

LM 128-128SD ES



### Micro Sickle SD

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

LMErgoSense®

LM 301-302SD ES



### Mini Sickle SD

- Universal scaler
- For all tooth surfaces
- Fine, slightly angled blade

LMErgoSense®

LM 311-312SD ES

NEW



### Sickle LM204S SD

- Sharply angulated shank and very fine working end

LMErgoSense®

LM 303-304SD ES



### Sickle LM23 SD

- Posterior scaler
- Shorter blades and longer lower shank than in Mini Sickle

LMErgoSense®

LM 313-314SD ES



### Scaler H6-H7 SD

- For all tooth surfaces
- Longer shank and smaller lateral bending than in LM-SharpJack™

LMErgoSense®

LM 146-147SD ES

## Universal Curettes



### Columbia 4L-4R SD

- For incisors, canines and premolars
- For heavier calculus

LMErgoSense®

LM 219-220SD ES



### Barnhart 5-6 SD

- For molars
- Shorter lower shank

LMErgoSense®

LM 227-228SD ES

“

*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*





# LM Dual Gracey™ for EASY INSTRUMENTATION

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. The LM Dual Gracey™ concept, combining Gracey curettes and universal curettes, enables fewer instruments to be used. The traditional set of four Graceys may be replaced with only two LM Dual Gracey™ instruments: Syntette™ and Syntette™ Anterior.

## SIMPLY CLEVER TIP DESIGN

Each LM Dual Gracey™ tip has two elliptical cutting edges - a mesial and a distal edge. This design allows for treatment of both mesial and distal tooth surfaces. The lower shank is kept parallel to the tooth surface while scaling, of particular convenience when accessing subgingivally. LM Dual Graceys™ are suitable for vertical, horizontal and oblique scaling techniques.



LM Dual Gracey™ instruments have rounded tip with two cutting edges.



# LMDualGraceys™

- The original LM Dual Gracey™ curette, 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
- Mini model is excellent in narrow and deep pockets



Syntette™ SD

LMErgoSense®  
LM 215-216SD ES



Mini Syntette™ SD

LMErgoSense®  
LM 215-216MSD ES

## NEW

- New Syntette™ Anterior is completing the set of LM Dual Graceys™
- 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
- Mini model is excellent in narrow and deep pockets



Syntette™ Anterior SD

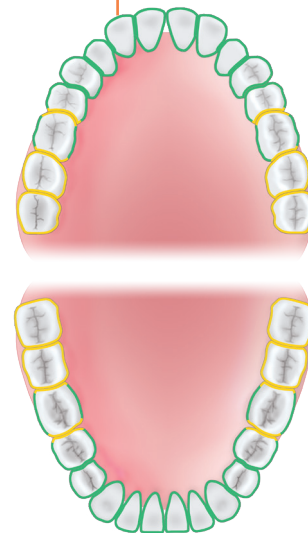
LMErgoSense®  
LM 275-276SD ES



Mini Syntette™ Anterior SD

LMErgoSense®  
LM 275-276MSD ES

Recommendation for optimal treatments



Scan the QR for more info & video at [www.lm-dental.com/DualGracey](http://www.lm-dental.com/DualGracey)



## Gracey Curettes

- For incisors and premolars



Gracey 1/2 SD

**LM**ErgoSense®  
LM 201-202SD ES



Mini Gracey 1/2 SD

**LM**ErgoSense®  
LM 201-202MSD ES

- For premolars and molars  
- For buccal and lingual surfaces



Gracey 7/8 SD

**LM**ErgoSense®  
LM 207-208SD ES



Mini Gracey 7/8 SD

**LM**ErgoSense®  
LM 207-208MSD ES



Gracey 9/10 SD

- For molars' buccal and lingual surfaces  
using horizontal technique

**LM**ErgoSense®  
LM 209-210SD ES

- For premolars and molars  
- For mesial surfaces



Gracey 11/12 SD

**LM**ErgoSense®  
LM 211-212SD ES



Mini Gracey 11/12 SD

**LM**ErgoSense®  
LM 211-212MSD ES



- For premolars and molars
- For distal surfaces



Gracey 13/14 SD

LMErgoSense®

LM 213-214SD ES



Mini Gracey 13/14 SD

LMErgoSense®

LM 213-214MSD ES

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

NEW



Gracey 15/16 SD

LMErgoSense®

LM 245-246SD ES



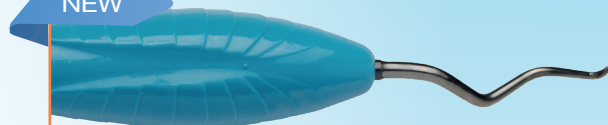
Mini Gracey 15/16 SD

LMErgoSense®

LM 245-246MSD ES

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

NEW



Gracey 17/18 SD

LMErgoSense®

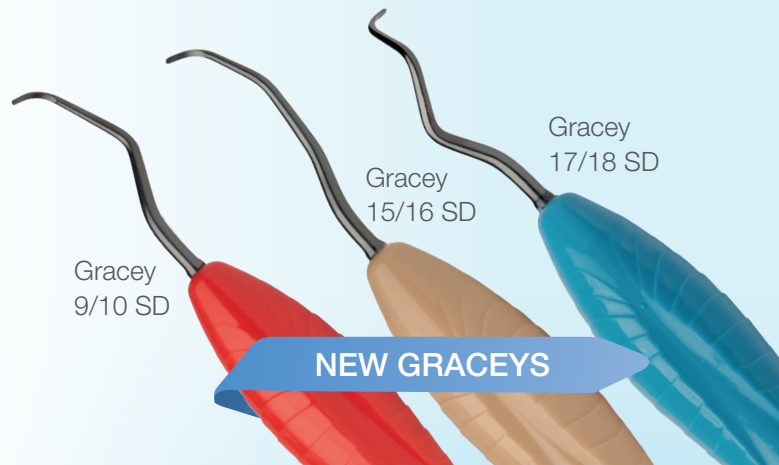
LM 247-248SD ES



Mini Gracey 17/18 SD

LMErgoSense®

LM 247-248MSD ES



Gracey 9/10 SD

Gracey 15/16 SD

Gracey 17/18 SD

NEW GRACEYS



# CHOOSE SHARP.

Opposites attract. This holds true with high-quality periodontal instruments. Optimally they are razor sharp, extremely hard, yet smooth and light. A new micro coating made using modern Physical Vapor Deposition (PVD) technology enables LM™ to create LM Sharp Diamond™ instruments combining these features optimally: they are completely sharpen free, tough but refined.

No more sharpening.



Scan the QR for  
more info & video at  
[www.lm-dental.com/sharpdiamond](http://www.lm-dental.com/sharpdiamond)

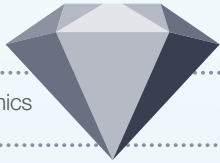


## SHARPEN FREE MICRO COATING

Savings of time & money

Highest rated ergonomics with sensational grip\*

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



Long-lasting superior sharpness

Improved productivity & clinical results

## DIAMOND-LIKE FEATURES

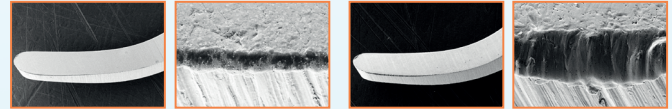
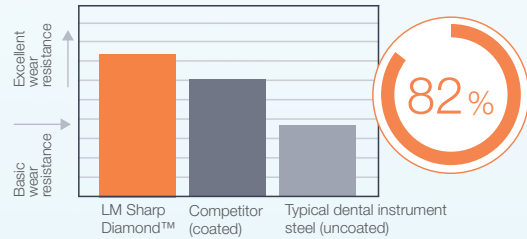
- Sharpen free ..... 
- Superior sharpness ..... 
- Highest rated ergonomics..... 
- Minimum maintenance ..... 

## HARDNESS

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



## WEAR RESISTANCE\*\*



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

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

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

LMDualGracey™

LM

feel the  
difference

SIMPLY CLEVER



LMSharpDiamond™  
SHARPEN FREE COATING

# LM Dual Gracey™ for EASY INSTRUMENTATION

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. The LM Dual Gracey™ concept, combining Gracey curettes and universal curettes, enables fewer instruments to be used. The traditional set of four Graceys may be replaced with only two LM Dual Gracey™ instruments: Syntette™ and Syntette™ Anterior.

## SIMPLY CLEVER TIP DESIGN

Each LM Dual Gracey™ tip has two elliptical cutting edges - a mesial and a distal edge. This design allows for treatment of both mesial and distal tooth surfaces. The lower shank is kept parallel to the tooth surface while scaling, of particular convenience when accessing subgingivally. LM Dual Graceys™ are suitable for vertical, horizontal and oblique scaling techniques.

## COMBINED BENEFITS; UNIQUE TIP, ERGONOMIC GRIP AND SHARPEN FREE COATING

Double-sided Gracey tips provide universal adaptation, quick and easy transitions from tooth to tooth during clinical appointment. LM-ErgoSense® medical-grade silicone handles deliver the highest rated ergonomics, a secure and comfortable grip, and enhanced tactile sensitivity. LM Sharp Diamond™ technology creates completely sharpen free instruments.

“

Feels great  
in the hand.”

LM-ErgoSense® found to have the highest rated ergonomics in studies by the Finnish Institute of Occupational Health.



“

LM-ErgoSense®

## LM Sharp Diamond™ SHARPEN FREE

*It's great that I don't need to waste my time on sharpening any longer! Since the LM SharpDiamond™ instruments are totally sharpen free, I can concentrate on the clinical work. The long-lasting sharpness really makes a difference!"*

Anna, Registered Dental Hygienist, USA



Scan the QR for more information at [www.lm-dental.com/SharpDiamond](http://www.lm-dental.com/SharpDiamond)

# LM Syntette™, the Story of ORIGINAL Dual Gracey

## LM™ INNOVATION

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 instrument?* he thought.

Gracey 11/12 for mesial surfaces and Gracey 13/14 for distal surfaces were very popular instruments, however practitioners were required to switch back and forth between the two while treating an interproximal space. Dr. Ericsson analyzed the design and function of these two Graceys and came up with the innovative idea to combine them in one instrument: a synthesis of two curettes—a Syntette!

This idea turned into a sketch on paper, which ended up in a drawer, its promise unfulfilled for a few years.

## MEETING ON THE TRAIN

In the '80s, Dr. Ericsson was standing in a crowded commuter train in Stockholm, on his way back from a dental conference. The man standing next to him happened to be Finnish dentist Pekka Kangasniemi, founder of LM-Dental™. They started discussing the idea for a doubled-sided Gracey, a truly universal instrument, thus Syntette™ was conceived.



## SIMPLY CLEVER!

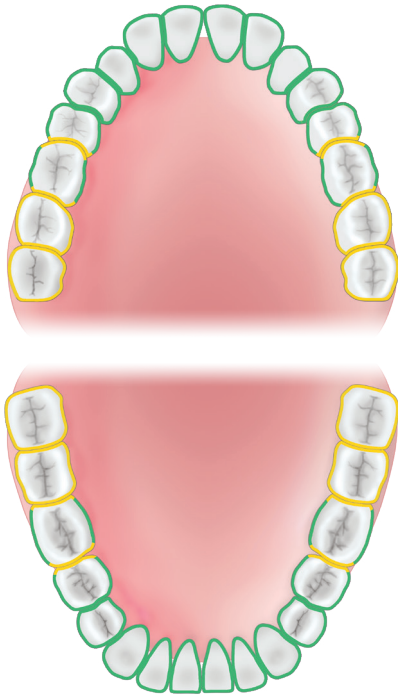
Now the story continues with Syntette™ Anterior, completing the set of LM Dual Graceys™.





## Recommendations for optimal treatment

- |  |  |
|--|--|
| <p> Syntette™ Anterior<br/>and/or<br/>Mini Syntette™ Anterior</p> | <p> Syntette™<br/>and/or<br/>Mini Syntette™</p> |
|--|--|



## LMDualGracey™ instruments

- The original LM Dual Gracey™ curette, 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
- Mini model is excellent in narrow and deep pockets



### Syntette™



LMSharpDiamond™ SHARPEN FREE

Uncoated / can be resharpened

 LMErgoSense® LM 215-216SD ES

 LMErgoSense® LM 215-216 ES

 LMErgoMax™ LM 215-216 XSI

 LMErgoNorm™ LM 215-216 SI



### Mini Syntette™



LMSharpDiamond™ SHARPEN FREE

Uncoated / can be resharpened

 LMErgoSense® LM 215-216MSD ES

 LMErgoSense® LM 215-216M ES

 LMErgoMax™ LM 215-216M XSI

 LMErgoNorm™ LM 215-216M SI

NEW

- LM Dual Gracey™ curette, a combination of universal curette and Gracey 1/2 and Gracey 7/8 curettes
- For removal of supra and subgingival calculus in anterior and premolar areas
- For all tooth surfaces
- Mini model is excellent in narrow and deep pockets



### Syntette™ Anterior

 LMSharpDiamond™ SHARPEN FREE

**LMErgoSense®** LM 275-276SD ES



### Mini Syntette™ Anterior

 LMSharpDiamond™ SHARPEN FREE

**LMErgoSense®** LM 275-276MSD ES



LM Dual Gracey™ instruments have rounded tip with two cutting edges.

Scan the QR for more info & video at [www.lm-dental.com/DualGracey](http://www.lm-dental.com/DualGracey)



### Handle options

**LMErgoSense®**



The larger diameter and design provide sensational grip that has been proven to be ergonomic and efficient in scientific clinical testing. Uniquely intelligent handle with the option for RFID tagging - see more on [www.dentaltracking.com](http://www.dentaltracking.com). Ø 13.7 mm

**LMErgoMax™**



Classic ergonomic design that functions well in all clinical procedures and guarantees excellent tactile sensitivity. Ø 11.5 mm

**LMErgoNorm™**



The thinner handle that functions best in light clinical procedures. Ø 8.5 mm

# LM Dental™

 LM-Instruments Oy

Norrbyn rantatie 8 | FI-21600 Parainen | Finland

Tel. +358 2 4546 400

info@lm-dental.com | www.lm-dental.com

