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LM feel the difference

LMSharpDiamond

SHARPEN FREE
MICRO COATING





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Enjoy Sharpen Free Prophy & Perio

LM feel the difference

LMSharpDiamond

LM Sharp Diamond™ instruments with multi layered micro membrane coating offer unique benefits:





LM-ErgoSense instruments can be integrated with an advanced RFID chip that can be scanned and registered with the unique LM Dental Tracking System™. Complete traceability improves patient safety and enhances material management

* (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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Sharpen Free Micro Coating

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LMSharpDiamond

- Multi layered micro membrane coating made using the most advanced PVD (Physical Vapor Deposition) technology
- The coating gives LM Sharp Diamond™ instruments maximal wear resistance and excellent hardness
- The coating process does not dull the cutting edge
- Completely nickel free
- Researched by Aalto University, Department of Materials Science and Engineering in Finland



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Hardness

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LMSharpDiamond

HARDNESS

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

HARDNESS OVER 63 HRC

- A hard instrument is highly resistant to wear
- LM Sharp Diamond™ has the highest hardness of all coated hand instruments on the market today



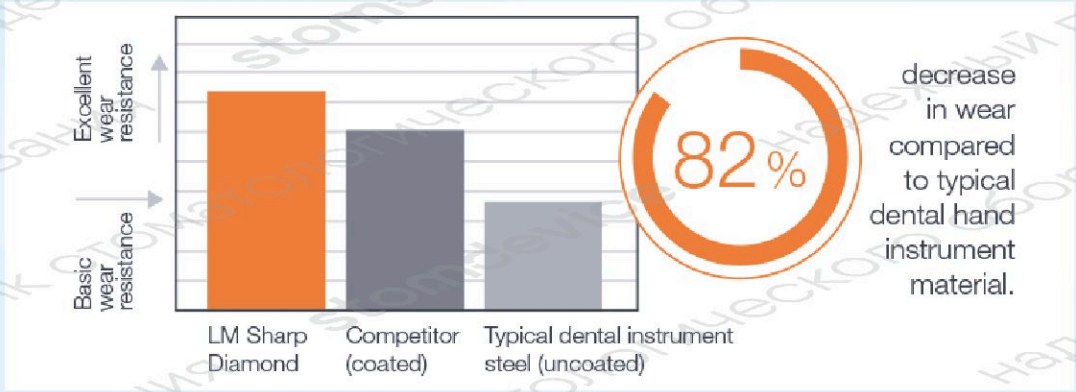
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Wear Resistance

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According to a comparative study made by Aalto university** the LM Sharp Diamond™ had the best wear resistance.

** 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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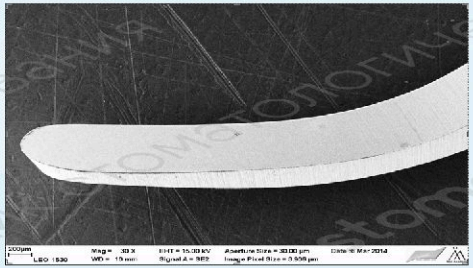
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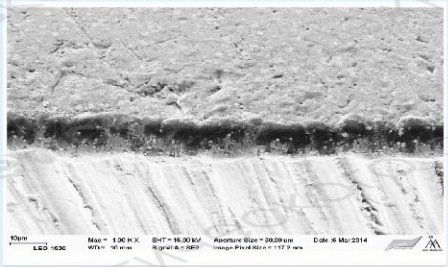
Wear Resistance

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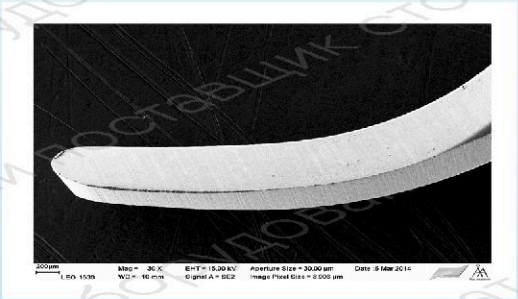
LMSharpDiamond

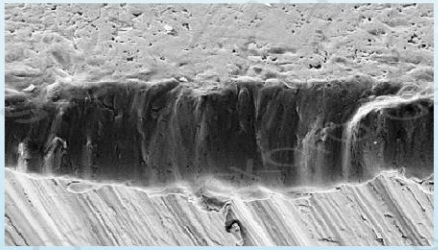
Cutting edge of the LM Sharp Diamond™ curette and the magnification of the edge after the test.





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







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

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LMErgoSense
Best in Clinical Test

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Comparative study made by the Finnish Institute of the Occupational Health

- 5 curettes (GRA 11-12) and 5 restorative instruments were tested by dental clinicians at the University of Helsinki
- Handle types by different manufacturers: LM-ErgoSense (prototype), LM-ErgoMax, Hu-Friedy (both thin and thicker handle in metal), American Eagle (handle in plastic)
- Ergonomy of the instruments was evaluated by measuring the musculoskeletal strain and postures of the upper limbs
- Also the work productivity was measured
- Subjective analysis of the usability, personal preferences and sensations of musculoskeletal strai

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LMErgoSense Measurements in Clinical Test

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- Scientific comparative study by FIOH (Finnish Institute of Occupational Health)
- Ergonomy of the instruments was evaluated by measuring the musculoskeletal strain and postures of the upper limbs







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LMErgoSense Rated Best By Clinicians

LM feel the difference

Results

- Thick, silicone coated instruments (LM-ErgoSense ja LM-ErgoMax) were rated as best periodontal instruments based on the usability characteristics and work productivity. They were the most preffered choice in regard to all 18 usability criteria used in the test.

Conclusions

- Thick, silicone coated hand instruments (diameter 12-14 mm) were best in regard to usability and work productivity. They caused lowest perceived strain in both the fingers and palm and the thumb than those with thinner instruments in plastic or metal.

Published in Ergonomics Open Journal 6/2013

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LMSharpDiamond



https://vimeo.com/171557666

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LMDual Gracey™

New in Sharp Diamond range



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LM Dual Gracey™

Combining the benefits of universal curette and Gracey curette in one

LM feel the difference



SIMPLY CLEVER

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LMDualGraceys™

LM feel the difference

- 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



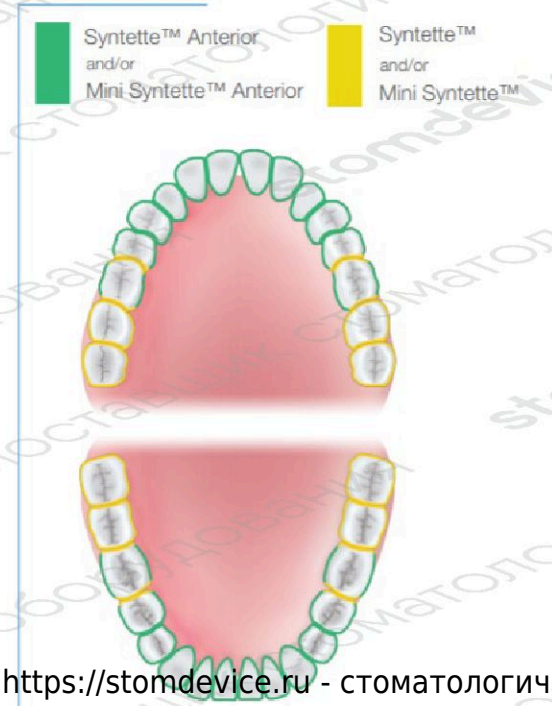
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LMDual Gracey™

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Recommendation for optimal treatment





See the video on clinical use

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Sharpen free instruments

LM feel the difference

Sickle Scalers

NEW

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.

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



NEW



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



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

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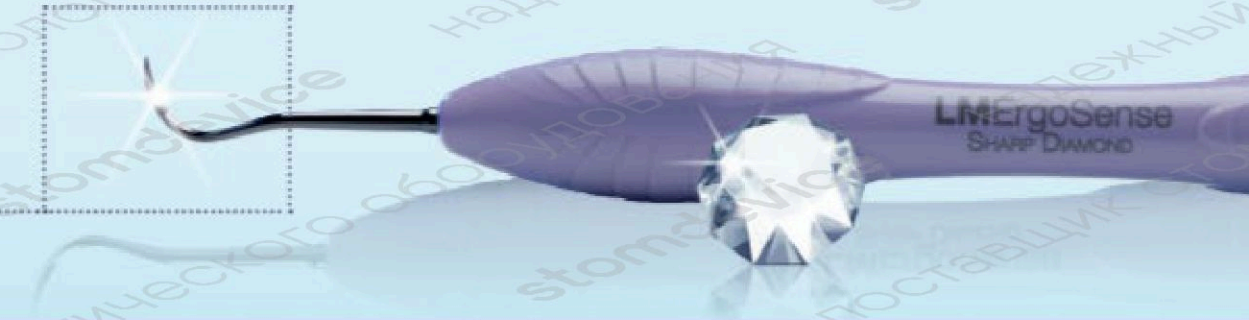
LM-SharpJack - Purple Prophy & Perio

LM feel the difference

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



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Gracey Curettes

LM feel the difference

- For incisors and premolars



Gracey 1/2 SD — LMErgoSense — LM 201-202SD ES



Mini Gracey 1/2 SD — LMErgoSense — LM 201-202MSD ES

- For premolars and molars
- For mesial surfaces



Gracey 11/12 SD — LMErgoSense — LM 211-212SD ES



Mini Gracey 11/12 SD — LMErgoSense — LM 211-212MSD ES



Mini Gracey 15/16 SD — LMErgoSense — LM 245-246MSD ES

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



Mini Gracey 17/18 SD — LMErgoSense — LM 247-248MSD ES

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

- For premolars and molars
- For buccal and lingual surfaces



Gracey 7/8 SD — LMErgoSense — LM 207-208SD ES



Mini Gracey 7/8 SD — LMErgoSense — LM 207-208MSD 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



"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

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