

LM

feel the difference

No More Sharpening!



Enjoy Sharpen Free Perio with Sharp Diamond Instruments

LM-Dental has launched Sharp Diamond, a micro coated periodontal hand instrument, which is completely sharpen free. The Sharp Diamond tip is made from exceptionally durable special metal alloy, and its wear resistance is enhanced by a protective micro membrane coating. Sharp Diamond instruments are especially suitable for clinicians who use hand instruments frequently and want to minimize the time spent maintaining dental instruments, and for those who want to work with a controlled but relaxed grip. The LM-ErgoSense handle, found to have the highest rated ergonomics in studies by the Finnish Institute of Occupational Health, prevents unnecessary clenching of the hand and makes working pleasant.

PROVEN BEST WEAR RESISTANCE

Whether it comes to the design or the manufacturing of products, LM-Dental, the pioneer in instrument ergonomics focuses on the specific needs of the dental experts. Since sharpening instruments is generally perceived as difficult and time-consuming, LM developed its sharpen free Sharp Diamond instruments.

A new, modern micro membrane coating gives Sharp Diamond instruments maximal wear resistance and excellent hardness.

According to a comparative study by Aalto University, the combination of the optimised base material and the micro membrane coating reduces wear on the tip by 82%.

Sharp Diamond is the hardest sharpen free instrument on the market: its hardness is over 63 (HRC) on the Rockwell scale. The ultra-modern PVD (Physical Vapour Deposition) coating process does not dull the cutting edge, and the Sharp Diamond retains its full factory sharpness during the coating process.

"The long-lasting sharpness really makes a difference"
Anna, Registered Dental Hygienist, USA

"This is the ultimate periodontal instrument"
Lauri, Periodontist, Finland



REMOVES CALCULUS PRECISELY AND EFFECTIVELY
Instruments with Sharp Diamond coating can be used like normal instruments and are suitable for all forms of depuration.

With this sharp instrument, calculus is removed in a controlled but effective way. The instrument can be handled and maintained completely normally, and does not need any care other than cleaning and sterilization. The time saved from sharpening can be used for productive work and promotion of health. The Sharp Diamond instrument retains its functionality just as long as the equivalent normal instrument.

SHARPEN FREE SELECTION

The sharpen free feature is most significant for instruments that have a small and narrow working end, such as mini curettes and fine sickles. The effect of sharpening is relatively higher for these instruments, and without sharpening and with Sharp Diamond coating, they retain their size and structural characteristics throughout their lifetime.

The Sharp Diamond periodontal instrument combines the optimal characteristics of superior sharpness, tactile sensitivity and comfort. Choose sharp and work efficiently.

Micro Sickle SD
LM ErgoSense
LM 301-302SD ES



Mini Sickle SD
LM ErgoSense
LM 311-312SD ES



Mini Syntette SD
LM ErgoSense
LM 215-216MSD ES



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



Mini Gracey 7/8 SD
LM ErgoSense
LM 207-208MSD ES



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



Mini Gracey 13/14 SD
LM ErgoSense
LM 213-214MSD ES



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



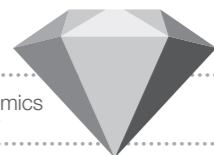
Mini Gracey 17/18 SD
LM ErgoSense
LM 247-248MSD ES



CHOOSE SHARP.

SHARPEN FREE MICRO COATING

Savings of time & money



Long-lasting superior sharpness

Highest rated ergonomics with sensational grip*

Improved productivity & clinical results

HARDNESS

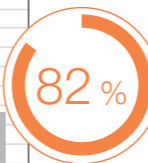
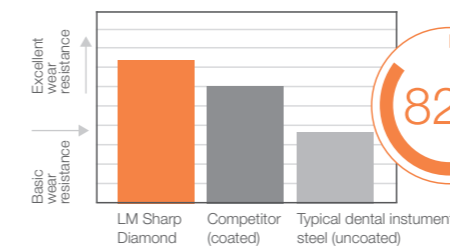
Hardness contributes to the durability of the instrument. Sharp Diamond reach hardness of over 63 on Rockwell scale.



DIAMOND-LIKE FEATURES

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

WEAR RESISTANCE**



decrease in wear compared to typical dental hand instrument material.



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

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

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