

LM

feel the
difference

A new genuinely ergonomic hand instrument:

LM ErgoSense

Unique intelligence with advanced RFID tracking



The thicker handle, ergonomic grip and fresh colors receive praises. LM-ErgoSense feels sensational and looks refreshingly good.

Today the focus is on ergonomics – without losing sight of efficiency. The new **LM-ErgoSense** hand instrument from LM-Dental, one of the leading manufacturers of dental instruments, meets both of these requirements and is truly a unique combination of ergonomic design and integrated new 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 new, smart LM-ErgoSense has been described.

Holding hand instruments nearly 2,000 hours each year can cause strain and expose to upper-limb disorders.

The best way to avoid these is to focus on ergonomics when choosing the daily hand instruments. Choosing LM-ErgoSense with its forefront qualities and well-trying design is an investment both to practitioner's health and the dental clinic's success.

Rated as the best in clinical testing

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 clinical 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.

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

Intelligence inside the handle

Working together with dental clinics has revealed many challenges in material handling and traceability. How to control and improve the logistics or the increasing requirements for patient safety and

Tested by clinicians:

"I love the larger design"

"Feels great in the hand"

"Good grip,
easy to fulcrum"

The Hygienist School of Copenhagen University (SKT) tested the Dental Tracking System for four months, afterwards **Bo Danielsen** commented:

"The Dental Tracking System provided us with valuable information that we did not have before, not only allowing to

follow the instruments flow in the clinic but also their status at all times. Based on knowledge of the instruments flow we easily get an overview on the number of instruments we need and from the data we are able to trace any instrument in the cycle from autoclaving through to the individual patient the instrument

has been used on. Thereby we acquire important documentation of data for our quality assurance of our clinical hygiene. We see many other purposes for the Dental Tracking System here at our clinic in the school."



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

documentation? LM has developed the idea of a smart instrument that with its intelligence helps to tackle these challenges.

An advanced RFID chip can now be integrated into the LM-ErgoSense instruments, enabling complete and reliable traceability of the instrument simply by scanning the chip with a reader that together with software creates a unique Dental Tracking System. The scanned and documented information will improve and ease asset management and increase cost efficiency. The Dental Tracking System helps to ensure that only safe and clean instruments are used elevating patient safety to a whole new level. ■

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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The Finnish instrument manufacturer LM-Dental develops, produces and markets dental hand instruments, ultrasonic and air polishing devices. With the innovative product design the company is the fastest growing manufacturer of hand instruments in Europe and the market leader in the Nordic countries. All LM-Dental products are produced in Scandinavia, combining high-tech production technology with handmade craftsmanship to gain a top-quality end result and highest functionality. LM is part of the Planmeca Group.