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 3,000 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-tired 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 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


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.