

Carl Martin

Zygoma—double hook—full arch retractor

Carl Martin GmbH, based in Solingen, Germany, has collaborated with Dr Armando Lopes of the MALO CLINIC in Lisbon, Portugal, to launch a newly redesigned series of retractors. The series was unveiled at this year's EAO Congress in Milan, Italy, where it received significant attention.

"The event was a tremendous success. Our international audience experienced firsthand the advantages of these innovative instruments at our booth, with Dr Lopes' live demonstration highlighting their benefits," said Junior CEO Philip Holzknacht.

Additional presentations for professionals interested in surgical and implantological advancements were held at the 53rd International Annual Congress of DGZI in Düsseldorf, the 40th Annual Meeting of the BDO in Berlin, and will also be presented at the 38th DGI Congress in Dresden from 28–30 November.

Carl Martin GmbH

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Florian Giesen, Technical Development and Sales at Carl Martin, Dr Armando Lopes, developer of the retractors, and Philip Holzknacht, Junior Managing Director at Carl Martin (from left) during the EAO Congress in Milan.

epitome

Novel dental cleaning device removes biofilm by up to 99 per cent

The "e1" by epitome represents a significant advancement in dental hygiene technology, diverging entirely from conventional toothbrushes in both design and function. As the world's first autonomous dental cleaning device, e1 was meticulously developed by a high-tech company in Vienna between 2018 and 2024. This innovative device employs sophisticated artificial intelligence to conduct a comprehensive analysis of the teeth, subsequently executing a thorough cleaning in under 60 seconds. Utilising 50 advanced sensors and 14 nano-cameras, e1 accurately detects biofilm accumulation and effectively targets its removal in a sequential process. The efficacy of this "intelligent cleaning" protocol has been substantiated through rigorous laboratory testing, demonstrating a remarkable cleaning efficiency and reach of up to 99 per cent¹ within a mere 30 seconds² for both the maxillary and mandibular arches.

Upon completion of the cleaning cycle, users receive an indepth analysis detailing critical health metrics, including body temperature, heart rate, blood pressure, cortisol levels, and oxygen



saturation, thus promoting an integrated approach to oral and overall health.

The research and development of e1 involved collaboration with esteemed experts in the field of biofilm research, including Prof. Georgios Belibasakis, Dr Reinhard Gruber (Professor of Oral Biology at the University Dental Clinic of Vienna), and Prof. Barbara Cvikl (Sigmund Freud Private University Vienna).

e1 is available for order through the company's online shop, and interested individuals are cordially invited to experience this groundbreaking product at the pop-up store located at Kohlmarkt 10 in Vienna, Austria.

¹ Referring to the detected tooth surface.

² The cleaning time depends on the jaw structure, tooth alignment, and the amount of biofilm/plaque.

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