

Press Release

The Signo Z300: Rethinking Efficiency and Comfort – Perfect for Orthodontics and Pediatric Dentistry

Dietzenbach, February 2025. Since its market launch, its fan base has continued to grow: The Signo Z300 from MORITA will be one of the central highlights at IDS 2025 in Cologne, accompanied by an attractive promotional offer. This treatment unit impresses with its minimalist aesthetics and provides real added value through a selection of key functions. Designed for the 12 o'clock treatment position, it promotes a healthy posture for every practitioner while maximizing efficiency. Additionally, the Z300 offers specific advantages for orthodontics and pediatric dentistry.

A Treatment Concept for Healthy Posture

During conventional treatments, practitioners and assistants often bend and twist to gain access and visibility to the treatment field. This can lead to poor posture and musculoskeletal problems, as numerous studies have shown over the years.¹ The innovative Signo Z300 treatment unit follows the "Zero Concept," where the unit's design and essential functions are aligned with the practitioner's natural workflow – rather than the other way around.

Advantages for Orthodontics and Pediatric Dentistry

The Signo Z300 has earned a following among dentists from various specialties, all of whom share high expectations for timeless, minimalist design, comprehensive work efficiency, and optimal ergonomics. The unit offers exceptional support for workflows in pediatric dentistry and orthodontics. Practitioners working in the 12 o'clock position benefit from enhanced efficiency and a natural posture. This concept allows for optimal visibility and easy access to the entire treatment field. The headrest provides optimal patient support, even under anesthesia, and can be

¹ Sultana, Nihar & Mian, Md & Rubby, Md & Banik, Palash. (2018). Musculoskeletal Disorders in Dentists: A Systematic Review. Update Dental College Journal. 7. 38. 10.3329/updcj.v7i2.36213.

adjusted to three positions at the fourth cervical vertebra level. For young patients, getting into the unit is simple, as the chair height can be easily adjusted between 61 and 88 cm. All control elements for the Signo Z300 and its instruments are conveniently operated via a foot switch. Another advantage for treating anxious or very young patients is that the instruments are stored out of the patient's line of sight on the underside of the treatment chair.

Pure Flexibility: Ideal for Two- or Four-Handed Treatments, for Right- and Left-Handed Practitioners

The Signo Z300's chair surface allows for two- or four-handed treatments in the 12 o'clock position. Practitioners can achieve optimal visibility of the entire treatment field using a dental mirror and easily access the back molars without unnatural twisting or bending. Trays and hose guides can be quickly and easily repositioned without tools, making the unit suitable for both right- and left-handed practitioners. The unit is also easy to maintain and hygienic. Both the practitioner and assistant can work in their natural and healthy postures without additional effort, increasing treatment efficiency and reducing physical strain for both the practitioner and patient.

The Art of Simplicity for Safe Diagnosis and Treatment

At the core of the Signo Z300 is a focus on people. The unit's design is inspired by the traditional Japanese *Kanso* philosophy, which embodies the art of simplicity and emphasizes focusing on essentials. By reducing functions to what is truly necessary, workflows are streamlined, and treatment processes are optimized, creating real value for both dentist and patient. The design consciously avoids anything that could disrupt treatment or overwhelm patients. Sharp edges and unnecessary surfaces were minimized to enhance hygiene. The unit foregoes a traditional spittoon to prevent cross-infections, with suction technology replacing the cumbersome rinsing process that requires patients to sit up repeatedly. With its clean lines, reduced forms, and neutral color palette, the Signo Z300 creates a calming environment in any dental practice.

Visit the MORITA booth at IDS in Cologne: Hall 10.2, P040-R049.

For more information about the Signo Z300, visit www.morita.de/SignoZ300

Figures



Fig. 1: Timeless, minimalist, and graceful – the Signo Z300 from MORITA.



Fig. 2: Ideal and flexible for two- or four-handed treatment.

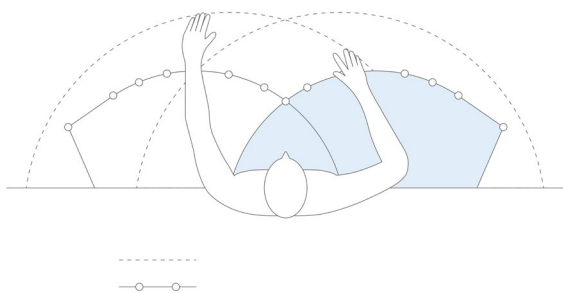


Fig. 3: Reach paths of the ergonomic Zero Concept



Fig. 4: The simple height adjustment makes the Signo Z300 ideal for pediatric treatment.

Contact:

J. MORITA EUROPE GMBH
Carmen Schwarz
Justus-von-Liebig-Straße 27b
63128 Dietzenbach
Germany
T +49. 6074. 836 0
F +49. 6074. 836 299
info@morita.de
www.morita.de



About MORITA:

The MORITA Group is one of the leading manufacturers of medical technical products. The traditional Japanese company, with sales companies in Europe, USA, Brazil, Australia and Africa, provides a wide range of products. Leading the way in X-ray diagnosis and endodontics, the product portfolio offers high-performance imaging systems, including 3D volume tomography, treatment units, turbines, straight and contra-angle handpieces, instruments, and endodontic measuring and preparation systems. With a great emphasis on quality and continuous research, over 2,000 employees worldwide focus on the needs of users and dentists. In this way the spirit of Junichi Morita, who founded the company in 1916, lives on. MORITA, now in its third generation of family ownership, is under the management of Haruo Morita