

3D Custom-Made Spinal Braces

EDSER Labs' custom-made spinal braces are orthopedic devices tailored to fit each patient's unique anatomy and clinical needs. Designed with advanced biomechanical principles and high-performance materials, these braces provide support, stabilization, and correction for a range of spinal conditions, enhancing both comfort and function.

CLINICAL INDICATED FOR

- Idiopathic and degenerative scoliosis
- Scheuermann's kyphosis
- Spinal instability or alignment correction

FEATURES

Our Spinal Brace is individually crafted for a precise fit, custom-molded using 3D scans, casts, or detailed measurements to ensure optimal comfort and support. Constructed from high-quality, lightweight, and durable thermoplastics with breathable padding, it offers strength and all-day wearability. Adjustable components, including precision strapping systems and modular panels, allow personalized adjustments and progressive correction. Low-profile designs are also available, providing discreet and comfortable wear under clothing.



Available Options

Type	Primary Use	Material
TLSO	Mid-Back Support (T6-L3)	3D Print CPP+
LSO	Lower Back Support (L1-L5)	3D Print CPP+

DESIGN PHILOSOPHY

Our spinal braces are crafted following internationally recognized biomechanical correction systems, ensuring optimal outcomes for a variety of spinal deformities:

- Chêneau Principles – Employs asymmetric 3D correction and expansion zones to address spinal rotation and improve posture dynamically.
- Boston Principles – Symmetric design using targeted pressure and relief areas for curve stabilization – ideal for treating idiopathic scoliosis.
- Rigo Principles – Builds on Chêneau concepts with a classification-based approach and precise corrective force vectors for enhanced scoliosis management

CARE INSTRUCTIONS

- Wipe with damp cloth; avoid submersion.
- Air dry completely before use.
- Inspect regularly for wear or discomfort.

ORDERING PROCESS

Please check our [Scoliosis Prescription Form](#) to find out how to order your Spinal Brace