

The National Scoliosis Center's Rigo Chêneau Brace

A Custom Brace Addressing the 3-D Nature of Scoliosis



Principles of the Rigo Chêneau Brace

- Our custom TLSO is designed to treat scoliosis by addressing the curvature, rotation, alignment and balance of the spine
- Our design utilizes the time-tested concepts of Rigo Chêneau principles with modern innovations
 - Uses pressure and relief points to correct the position of the spine
 - Utilizes CAD/CAM Technology
 - Made with copolymer plastic because of its durable, lightweight (≈ 21 oz) and slimline (≈ 4 mm) characteristics



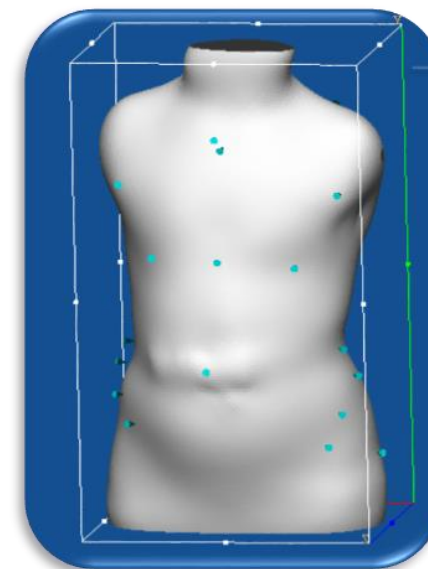
Dr. Manuel Rigo and Dr. Jacques Chêneau

- The concept of our Rigo Chêneau brace originated in 1979 with the work of Dr. Chêneau, who focused on the rotation of the spine
 - Studies show that the Chêneau brace significantly decreases lateral deviation and rotation of the spine
- Dr. Rigo improved on Dr. Chêneau's work in the 1990s
 - Expanded Dr. Chêneau's 2 basic designs to create 9 design configurations
 - Each design is specific to an x-ray classification

National Scoliosis Center's Custom TLSO, Rigo Chêneau Brace

Our braces are cast, designed and fabricated in-house

- Step 1: Digital Scan of Torso
 - We utilize computer-aided design, or CAD/CAM technology, to digitally scan the torso of the patient
- Step 2: Design of Brace
 - The brace is then designed by modifying the digital shape of the patient's torso to maximize correction of the curvature of the spine
- Step 3: Patient Model Created
 - A plaster mold of the design is created to use as the basis for the brace fabrication



National Scoliosis Center's Custom TLSO, Rigo Chêneau Brace (cont'd)

- Step 4: Outer Pattern/Color of Brace Applied
 - The brace is wrapped with the design selected by the patient
 - Our patients enjoy choosing the design of their choice. This helps the patient not only personalize the brace, but take ownership of it:
<http://nationalscoliosiscenter.com/services/custom-scoliosis-bracing/personalize-your-brace/>
- Step 5: The heated shell is then applied to the plaster mold and formed for the prescribed corrective pressure/expanse points



National Scoliosis Center's Custom TLSO, Rigo Chêneau Brace (cont'd)

- Step 6: Delivery
 - The brace is now ready to be fitted to the patient
 - Using the patient's input, we make minor tweaks to ensure the brace is as comfortable as possible
 - Patients return as often as they desire for adjustments due to growth or weight gain



A Few NSC Patients In Their Braces

