Spinal Technology

Custom Scoliosis Orthoses Overview

Custom Flex Foam® Spinal Orthoses Overview

Custom Spinal Orthoses Overview

Specialists in Custom Scoliosis & Spinal Orthotic Fabrication

Have your tried the new stWear® Compliance Monitoring System?

Features

- Sleek design
- Extended battery life
- Web based Clinician interface
- Share data between physicians, parents and orthotists
- Parent access through stWear® smartphone app

Get the NEW stWear® today!

The new and improved compliance monitor will replace our stTracker compliance system.

Please ask our Customer Service team to add a new compliance monitor to your next order.

The new stWear® Compliance Monitoring System can be added to any custom orthotic devices and can be purchased with or without your custom scoliosis orthosis from Spinal Technology.

Once we set you up with a new account, it is easy to see your patient's data in between follow-up appointments.

Parents get their own login, and can help monitor their child's success through the app.

Download the stWear® app today

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Providence® + stWear® = Positive Outcomes

Compliance is critical to success in scoliosis bracing

Providence Nocturnal Scoliosis® Othosis

- Nighttime 10-12 hours wear time
- Worn in supine position only
- Hypercorrective forces

See the full picture between visits Spinal.Tech/Success

Product Overview

The Providence Nocturnal Scoliosis® System has been successful in treating all curve types: lumbar, thoracic, double major, and thoracolumbar. This orthosis is suited for neurologically involved patients, idiopathic adolescents and juvenile scoliosis patients as well as obese patients. The Providence® brace has demonstrated greater compliance rates in scoliosis bracing.

Spinal Technology is the exclusive manufacturer of the Providence Nocturnal Scoliosis® Orthosis.

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Custom Scoliosis Orthoses
Overview

ST Infant™ Scoliosis Orthosis Brace

Product Overview

The ST Infant™ Scoliosis Orthosis System has been successful in treating all curve types: lumbar, thoracic, double major, and thoracolumbar.

Boston (Style) Scoliosis Brace

Product Overview

The Boston (Style) scoliosis orthosis is a TLSO designed to slow the progression of scoliosis in growing spines. The brace has been clinically proven to control curve progression in Lumbar, Thoracic and Thoracolumbar spinal curves.
This orthosis is effective for treatment of Adolescent Idiopathic Scoliosis (AIS).

SCT 3D Boston (Style) Scoliosis Brace

Product Overview

Our SCT 3D Boston (Style) orthosis is designed using CAD/CAM technology. This orthosis provides a brace design that corrects the spine based on three body planes, the Sagittal, Coronal and Transverse (SCT) and provides a precise combination of lateral and rotational forces that move the spine into a corrected position.

SCT 3D Chêneau (Style) Scoliosis Brace

Product Overview

The SCT 3D Chêneau (Style) brace is a corrective TLSO uniquely constructed to bring the body and spine into the best possible postural and morphological 3D corrected alignment by using a combination of forces applied to the body surface by specifically designed pads, facilitated by expansion or relief spaces. The brace is open in front and can be considered rigid and dynamic at the same time.

Kyphologic Brace

Product Overview

The Kyphologic style w/ Anterior opening & "Cow Horns" that attach laterally and allows for a corrective force at the apex of kyphosis. The brace is used to correct Kyphosis and stabilize adult patients.

Kyphosis Brace

Product Overview

In a healthy spine, its natural curve should be at an angle around 20-45 degrees. Those who have kyphosis, however, their abnormal curvature in their spine sits at an angle of over 50 degrees.

Custom Flex Foam® Spinal Orthoses Overview

TLSO Flex Foam®1 – Bivalve

(Thoracic Lumbar Sacral Orthosis)
Smooth Overlap

Product Overview

The anterior and posterior sections of the high profile TLSO Flex Foam® 1 - Bivalve opening are connected by a set of three heavy-duty hook and loop straps on each side, allowing compression, expansion and adjustability, with good lateral control. The original design is lined with soft foam, available in several thicknesses, to maximize comfort.

TLSO Flex Foam®2 – Bivalve

(Thoracic Lumbar Sacral Orthosis)
Smooth Overlap

Product Overview

The anterior and posterior sections of the high profile TLSO Flex Foam® 2 – Bivalve opening are connected by a set of three heavy-duty hook and loop straps on each side, allowing compression, expansion and adjustability, with good lateral control. The Flex Foam® 2 sandwiches a plastic frame between a soft foam inner lining and a firm outer foam. Desired rigidity is achieved by fabricating the inner types frame with optional plastic and thicknesses.

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TLSO Flex Foam®1

(Thoracic Lumbar Sacral Orthosis)
Anterior Opening with Tongue

Product Overview

The TLSO Flex Foam® 1 presents a single opening with a foam® tongue for comfort and ease of donning. This orthosis allows compression, expansion, adjustability and is easily trimmed. The original design allows the external frame to be removed for easy adjustments. It is lined with soft foam, available in several thicknesses and adjustable straps- to maximize comfort.

TLSO Flex Foam®2

(Thoracic Lumbar Sacral Orthosis)
Anterior Opening with Tongue

Product Overview

The TLSO Flex Foam® 2 orthosis design is fabricated with a plastic frame sandwiched between a soft foam inner lining and a firm outer foam. Desired rigidity is achieved by fabricating the inner fame with optional plastic types and thicknesses.

Custom Flex Foam® Spinal Orthoses Overview

Flex Foam® – Frame Design Options

Standard Posterior Frame Cut-Out

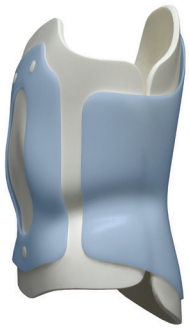
Standard Anterior Frame Cut-Out

Custom trim available allowing for boney reliefs and access to necessary ports

Figure Eight Design allows posterior conversion to LSO

Small Abdominal cut-out allows anterior conversion to LSO

Flex Foam® Bivalve – Overlap Options



Anterior into posterior trim foam

Anterior over posterior trim foam

Anterior into posterior overlapping foam

Open with tongues

Anterior over posterior foam overlapping foam

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Product Options

Recommended Plastic
Copolymer (CP) 3/32", 1/8" or 5/32" depending on patient size (Call for available color options)

Available Plastics
Polyethylene (PE) 3/32", 1/8", 5/32", 3/16" (Least Rigid) Modified Polyethylene (MPE) 1/8", 5/32", 3/16" (Semi Rigid) (if Transfer pattern is requested)

Standard Flex Foam® Liner
1/4" (soft) x 1/8" (firm)

Other Liner Thickness Available
3/16" (soft) x 1/8" (firm) 1/8" (Soft) x 1/8" (firm)

Spinal Reliefs
Surgical relief (wide and gradual) Spinous Process (narrow)

Sternal Extensions
Sternal Shield (axilla or shoulder straps)
Cow Horns C.A.S.H. Pad - Cruciform Anterior Spinal Hyperextension (articulating pectoral pads)

Loops & Chafes
Plastic Loop and Chafe
Extended Plastic Chafe*
Extended Dacron Chafe*

Fasteners
Screws and Barrel Nuts
Speedy Rivets
Aluminum Rivets

Other available options
Shoulder straps

***Only available with bivalve design**

Custom Spinal Orthoses
Overview

TLSO – Bivalve

(Thoracic Lumbar Sacral Orthosis)
Smooth Overlap

Product Overview

The TLSO - Bivalve is a high profile orthosis that allows compression, expansion, and adjustability. This brace covers the entire torso and utilizes a set of three straps on both sides.

LSO – Bivalve

(Lumbar Sacral Orthosis)
Smooth Overlap

Product Overview

The LSO with a bivalve opening allows for tightening on both sides, connecting the anterior and posterior. The low profile orthosis allows compression, expansion, adjustability and good lateral control.

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TLSO

(Thoracic Lumbar Sacral Orthosis)
Anterior Opening with Tongue

Product Overview

This TLSO utilizes a single anterior opening. One piece of plastic is measured to wrap around the patient and tighten in the front (anterior), using three straps. An additional piece of plastic (tongue) is placed behind the straps.

LSO

(Lumbar Sacral Orthosis)
Anterior Opening with Tongue

Product Overview

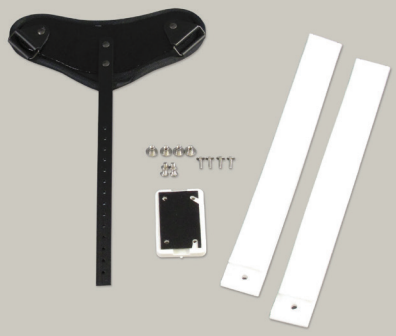
This LSO utilizes a single opening. One piece of plastic is measured to wrap around the patient and tighten in the front (anterior), using three straps. An additional piece of plastic (tongue) is placed behind the straps. This brace is a good solution for patients that need total circumferential control.

Accessories

Elastic Abdominal Binder

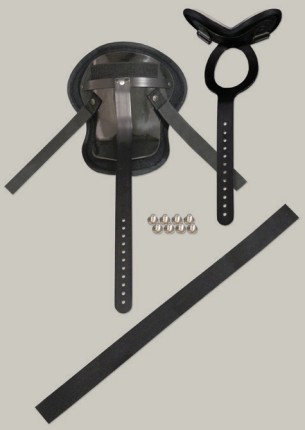
Spinous Process Relief

Removeable Relief Pad



Sternal Shield Attachment*
(Available with Shoulder or Axilla Straps)

Cowhorns Extension



Lerman Style Cervical Attachment*

Send your orders to: **orders@spinaltech.com**

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Product Options

Recommended Plastic
Polyethylene (PE) 3/32″, 1/8″, 5/32″, 3/16″ (Least Rigid) Modified Polyethylene (MPE) 1/8″, 5/32″, 3/16″ (Semi Rigid) (if Transfer pattern is requested)

Available Plastics
Copolymer (CP) 1/8″ or 5/32″ depending on patient size (Call for available color options)

Standard Liner
3/16″ Aliplast

Other Liner Thickness Available
1/8″, 1/4″ Aliplast
Note: This orthosis can also be unlined.

Spinal Reliefs
Surgical relief (wide and gradual) Spinous Process (narrow)

Sternal Extensions
Sternal Shield (axilla or shoulder straps)
Cow Horns C.A.S.H. Pad - Cruciform Anterior Spinal Hyperextension (articulating pectoral pads)

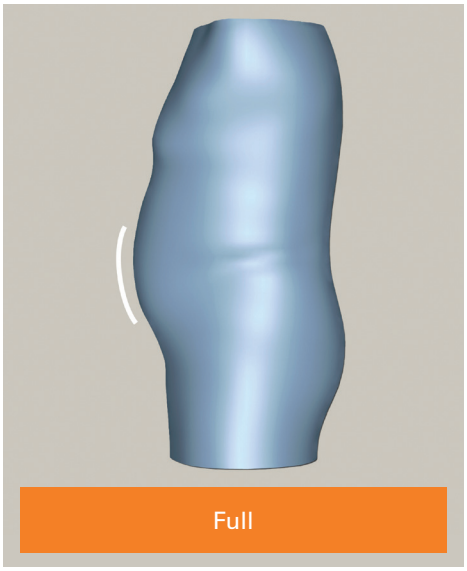
Loops & Chafes
Plastic Loop and Chafe
Extended Plastic Chafe*
Extended Dacron Chafe*

Fasteners
Screws and Barrel Nuts
Speedy Rivets
Aluminum Rivets

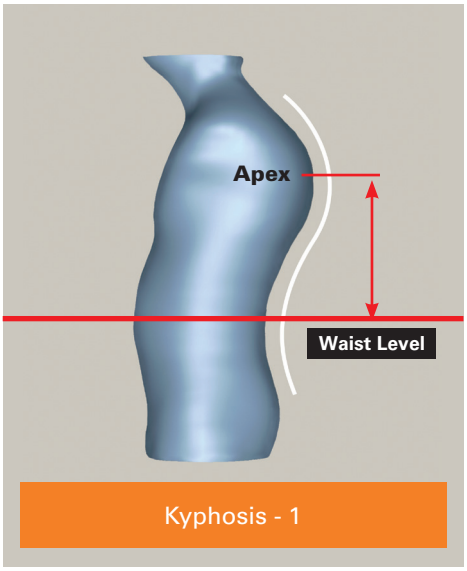
Other available options
Shoulder straps
Paraspinal reinforcements

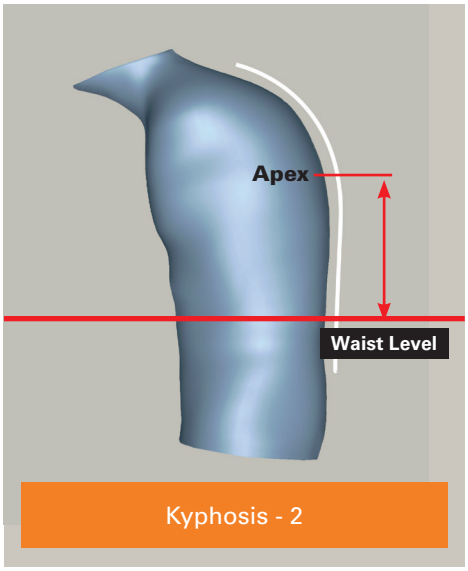
***Only available with bivalve design**

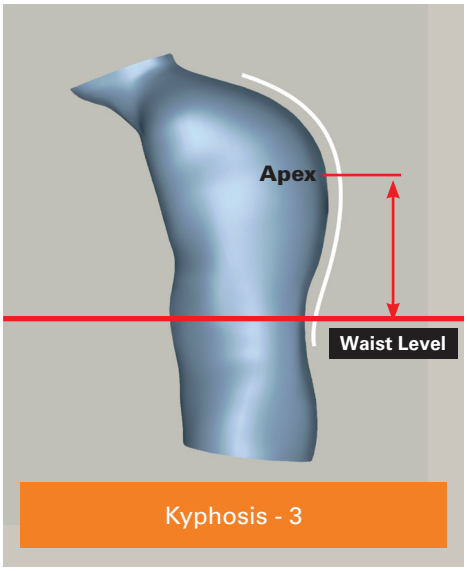
Abdominal Shape / Relief



Kyphotic Shapes

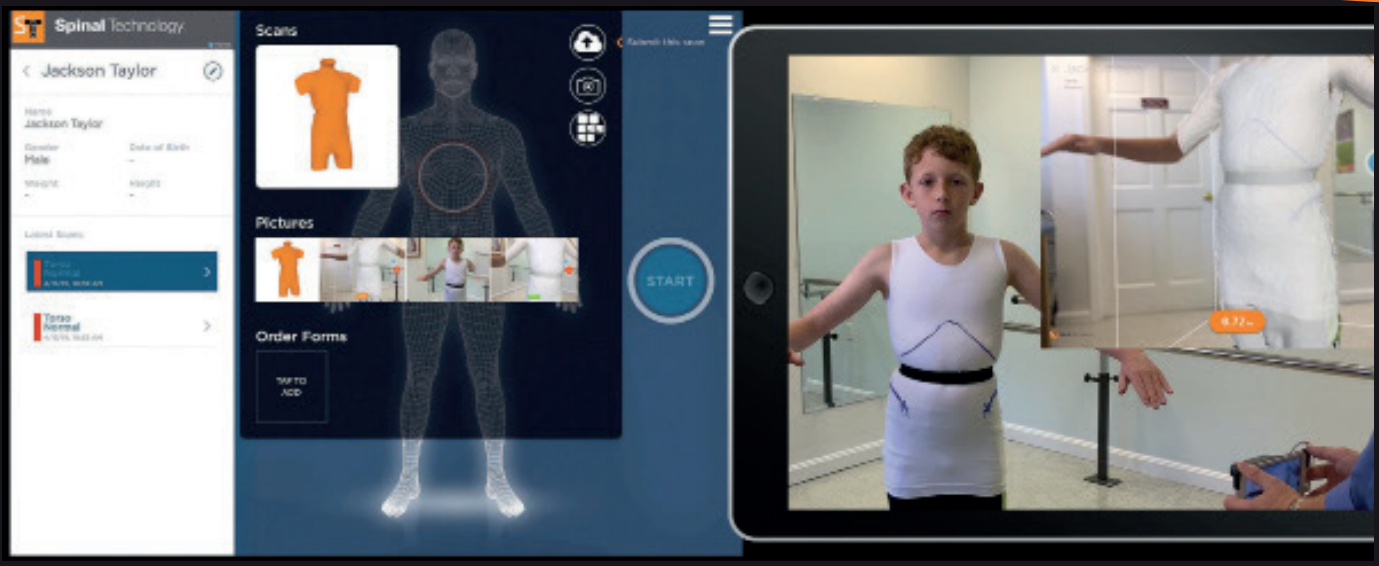






Note: When measuring kyphosis please provide a length from waist level to the apex of the kyphosis and the degree of kyphosis.

Spinal Technology Offers an App for Practitioners



With this app, practitioners can take 3D scans, include images to denote anatomical landmarks, then write comments and instructions on the images.

The SpinalTech3D™ Scan app is designed to work seamlessly with an Apple iPad® and Structure Sensor

Our **SpinalTech3D™ Scan app** refines the process of ordering custom spinal orthoses from SpinalTechnology by electronically integrating scans, orthometry forms.

Powered byTechMed 3D software, our app combines all images and documentation into emailed directly to SpinalTechnology.

When the file is received in-house, we use our proprietary software to modify the scan based on the patient's information and the brace design selected. The modified 3D model is fine-tuned and uploaded into one of our six carvers to produce a positive mold of the patient's torso: used to fabricate a precise custom orthosis.

Key Advantages:

- **Cuts out the time and mess of casting**
- **Improves and streamlines the patients experience**
- **Creates precise models and measurements**
- **Eliminates the costs and time required for shipping casts**
- **EasyTo Use!!!**
- **There is no cost for the SpinalTech3D ™ Scan app**
- **Available on the Apple iPad® App Store**

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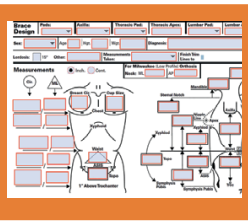
Do you have our Scan App yet?

What are you waiting for? It's as easy as 1-2-3.

1.

2. **Fill Out Order Form**



3. **Send File**

You do all this directly within the SpinalTech3D™ Scan app

Apple iPad®

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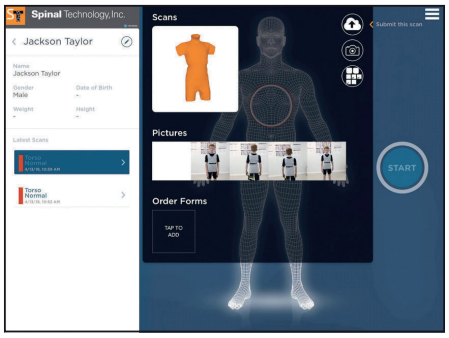
SpinalTech3D™ Scan App

Download the SpinalTech3D™ Scan app (FREE) from Apple's iPad® App Store.



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Both the Structure Sensor (Mark II)

The Structure Sensor is the first 3D sensor (used to scan) for iPad®.

Scan QR code to visit our website and get your quick start guide and the app.

Spinal Technology

Spinal.Tech/ScanApp

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At Spinal Technology, we believe that sharing our knowledge, absorbing that of others, and working together as a team, is the most effective way to advance the treatment and care for all patients.

Adolescent Idiopathic Scoliosis (AIS) is recognized as the most common type of spinal deformity and estimated to affect anywhere from 2% to 5% of all children. The course of treatment can vary depending on the severity and can include observation, physical therapy, orthotic bracing, surgery, or various combinations thereof. For most patients with scoliosis, this means that they will likely have interactions with multiple practitioners of varying expertise throughout their youth. Communication, continuity, and collaboration among all disciplines involved, including support of the patient's family, are paramount to successful outcomes and quality of life for each patient.

As part of the clinical team, we are driven to go beyond the physical products that we provide, and offer our expertise and support with all the resources we have. With a passion for treating scoliosis, we make it our priority to share our knowledge, teach what we know best, and create the tools and materials for improving patient care.

The introduction of varying brace designs can often present conflicting perspectives on the appropriateness of any particular method of treatment. As extensive research is presented on a broad scope of new concepts, the basic principles and understandings of effective bracing tend to become less clear. We believe a concise foundation of knowledge is critical to successful scoliosis management.

At Spinal Technology, we recognize the importance of continuous education and are pleased to provide informational material and support to those who share our commitment to advancing the care of patients challenged with scoliosis.

The Clinical Development & Education Team at Spinal Technology.

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