

# Custom Spinal Orthoses Overview



**TLSO – Bivalve  
Spinal Brace**

(Thoracic Lumbar Sacral Orthosis)  
Smooth Overlap



**LSO – Bivalve  
Spinal Brace**

(Lumbar Sacral Orthosis)  
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**TLSO  
Spinal Brace**

(Thoracic Lumbar Sacral Orthosis)  
Anterior Opening with Tongue

# 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.

## Spinal Indications

- Post-Operative Fusion
- Kyphosis
- Compression Fracture
- Osteoporosis
- Burst Fracture
- Spinal Stenosis
- Spinal Muscular Atrophy
- Laminectomy

## Features

- Bivalve design maximizes anterior and posterior control.
- Multiple adjustable straps accommodate volume changes.

# 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.

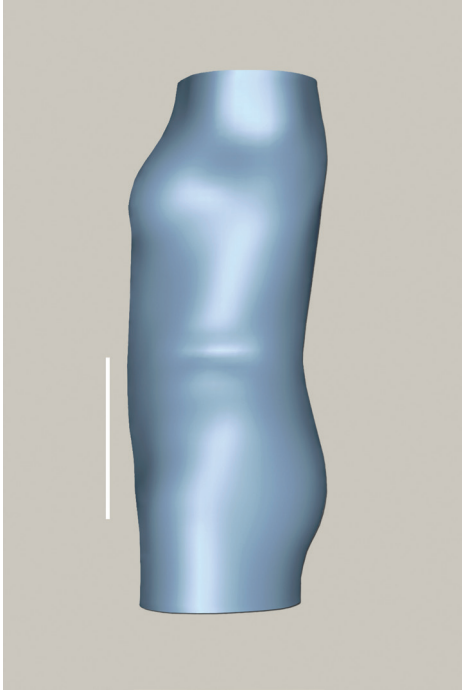
## Spinal Indications

- Post-Operative Lumbar Surgery
- Degenerative Disc Disease
- Spondylolysis
- Spinal Stenosis
- Compression Fracture
- Herniated Disc
- Low Back Pain

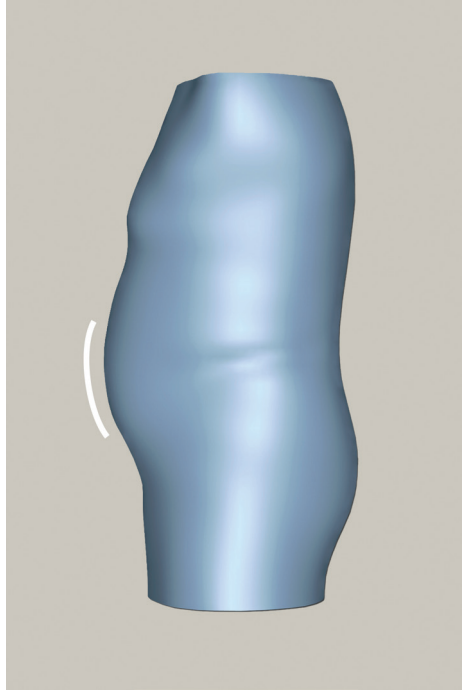
## Features

- Bivalve design allows for maximum anterior and posterior control.
- Accommodates volume changes.
- Sternal shield can be added to control flexion or enhance an extension force.

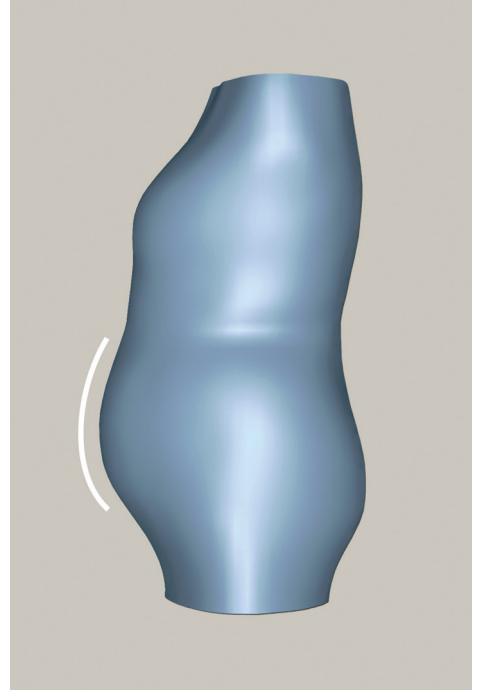
## Abdominal Shape / Relief



Neutral

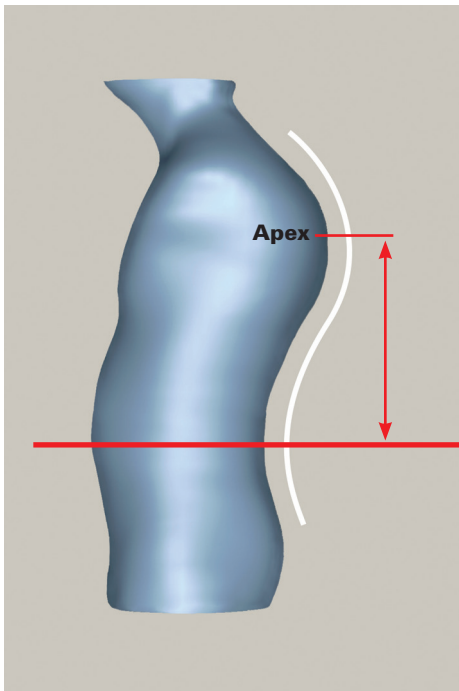


Full

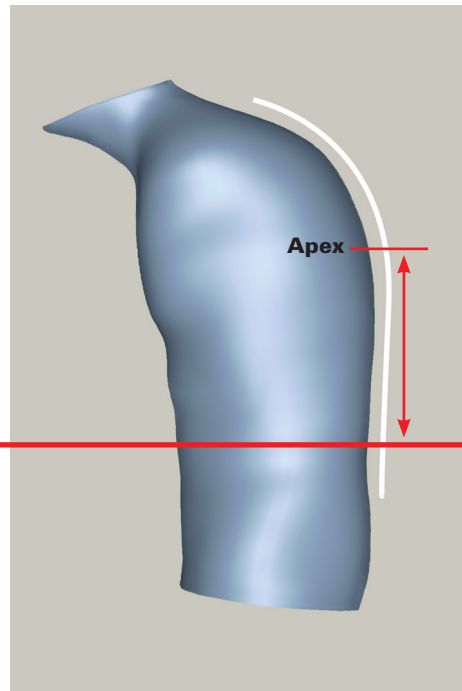


Pendulous

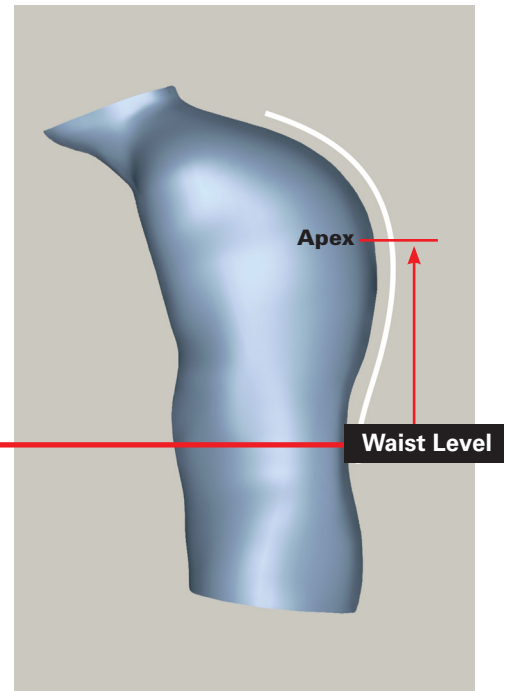
## Kyphotic Shapes



Kyphosis - 1



Kyphosis - 2



Kyphosis - 3

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

# 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.

## Spinal Indications

- Post-Operative Lumbar Surgery
- Degenerative Disc Disease
- Spondylolysis
- Spondylolisthesis
- Spinal Stenosis
- Compression Fracture
- Herniated Disc
- Low Back Pain

## Features

- More total circumferential control.
- Ease of donning and doffing.

## Opening Options

Anterior Opening with Tongue (Pictured), Posterior, Lateral (Right or Left)

# 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.

## Spinal Indications

- Post-Operative Lumbar Surgery
- Degenerative Disc Disease
- Spondylolysis
- Spinal Stenosis
- Compression Fracture
- Herniated Disc
- Low Back Pain

## Features

- More total circumferential control.
- More total circumferential control.

## Opening Available

Anterior Opening with Tongue (Pictured),  
Posterior Opening, Lateral Opening (Right or Left)

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## Accessories



Elastic Abdominal Binder



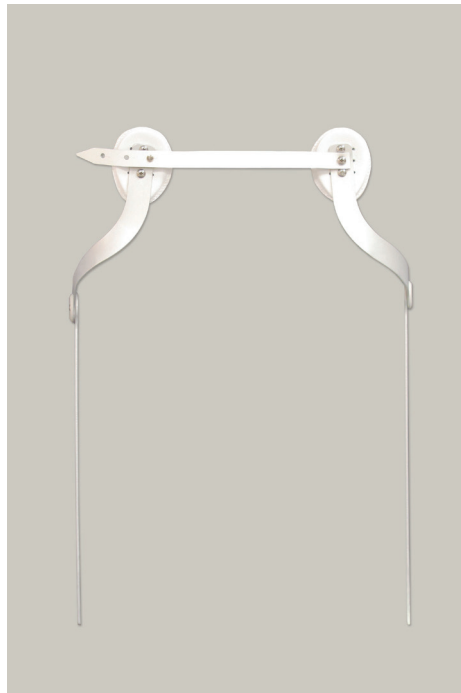
Spinous Process Relief



Removeable Relief Pad



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



Sub Clavicular Extension



Lerman Style Cervical Attachment\*

\* Only available with bivalve design

Send your orders to:  
[orders@spinaltech.com](mailto:orders@spinaltech.com)

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**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)

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**Available Plastics**

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

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**Recommended Aliplast Liner**

3/16" Aliplast

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**Other Liner Thickness Available**

1/8", 1/4" Aliplast

Note: This orthosis can also be unlined.

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**Spinal Reliefs**

Surgical relief (wide and gradual)

Spinous Process (narrow)

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**Sternal Extensions**

Sternal Shield (axilla or shoulder straps)\*

Cow Horns

C.A.S.H. Pad - Cruciform Anterior Spinal Hyperextension (articulating pectoral pads)\*

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**Loops & Chafes**

Plastic Loop and Chafe

Extended Plastic Chafe\*

Extended Dacron Chafe\*

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**Fasteners**

Screws and Barrel Nuts

Speedy Rivets

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**Other available options**

Shoulder straps

Paraspinal reinforcements

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\* Only available with bivalve design

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