

# Custom Flex Foam® Spinal Orthoses Overview



**TLISO Flex Foam® 1–  
Bivalve Spinal Brace**

(Thoracic Lumbar Sacral Orthosis)  
Smooth Overlap



**TLISO Flex Foam® 2–  
Bivalve Spinal Brace**

(Thoracic Lumbar Sacral Orthosis)  
Smooth Overlap



**TLISO Flex Foam® 1  
Spinal Brace**

(Thoracic Lumbar Sacral Orthosis)  
Anterior Opening with Tongue

# 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 patented frame is lined with soft foam, available in several thicknesses, to maximize comfort. Multiple opening and frame designs are available to accommodate medical needs.

## Spinal Indications

- Cerebral Palsy
- Osteoporosis
- Myelomeningocele
- Scoliotic Deformities
- Muscular Dystrophy
- Cancer Patients

## Features

- Patented Flex Foam® design.
- Lightweight.
- The Flex Foam® design works well with both the geriatric and pediatric population.
- Increased comfort for patients.

# 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 patented design of 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 frame with optional plastic types and thicknesses. Multiple opening and frame designs are available to accommodate medical needs.

## Spinal Indications

- Cerebral Palsy
- Osteoporosis
- Myelomeningocele
- Scoliotic Deformities
- Muscular Dystrophy
- Cancer Patients

## Features

- Patented Flex Foam® design.
- Lightweight.
- The Flex Foam® design works well with both the geriatric and pediatric population.
- Increased comfort for patients.

## Flex Foam® 1 – Frame Design Options

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Standard Posterior  
Frame Cut-Out



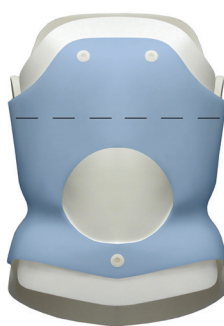
Standard Anterior  
Frame Cut-Out



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® 1 – Overlap Options

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Anterior into posterior  
trim foam



Anterior over posterior  
trim foam



Anterior into posterior  
overlapping foam



Open with tongues



Anterior over  
posterior foam  
overlapping foam

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

# TLSO Flex Foam® 1

(Thoracic Lumbar Sacral Orthosis)  
Anterior Opening with Tongue



## Product Overview

This particular 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. It's comprised of our patented foam and plastic frame structure with adjustable straps. Great comfort for all ages.

There are multiple opening and frame designs available.

## Spinal Indications

- Cerebral Palsy
- Osteoporosis
- Myelomeningocele
- Scoliotic Deformities
- Muscular Dystrophy
- Cancer Patients

## Features

- Removable external frame allows for easy adjustment.
- Ease of donning and doffing.
- Patented Flex Foam design maximizes comfort for all patients, especially geriatric and pediatric patients.
- Lightweight.

# TLSO Flex Foam® 2&3

(Thoracic Lumbar Sacral Orthosis)  
Anterior Opening with Tongue



## Product Overview

The Flex Foam® 2 TLSO orthosis has the plastic frame internally, within the foam, instead of externally. This orthosis design is fabricated with the frame sandwiched between a soft foam inner liner and firm foam outer liner. The inner frame can be fabricated with any desired plastic type and thickness for desired rigidity.

There are multiple opening and frame designs available.

The Flex Foam® 3 TLSO design, is a soft but firm foam construction with no frame, for a lightweight less rigid support orthosis.

## Spinal Indications

- Cerebral Palsy
- Osteoporosis
- Myelomeningocele
- Scoliotic Deformities
- Muscular Dystrophy
- Cancer Patients
- Spinal Muscle Atrophy

## Features

- Frame covered by foam.
- Lightweight.
- Increased comfort for patients.
- The Flex Foam® design works well with both the geriatric and pediatric population.

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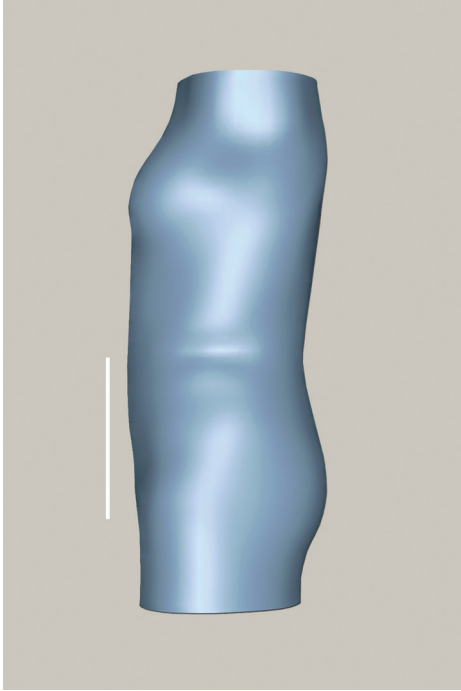
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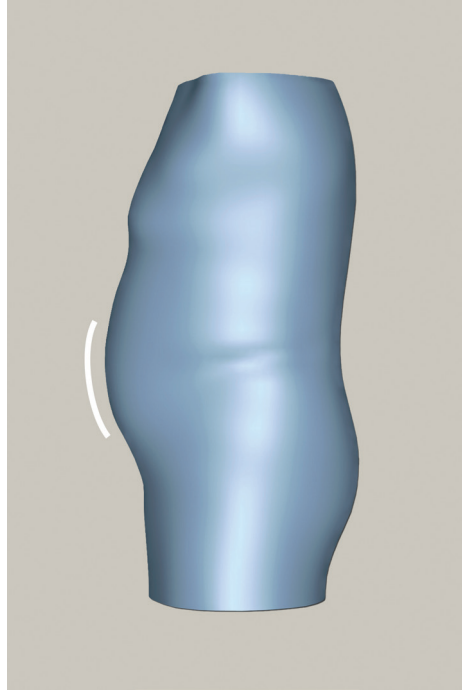
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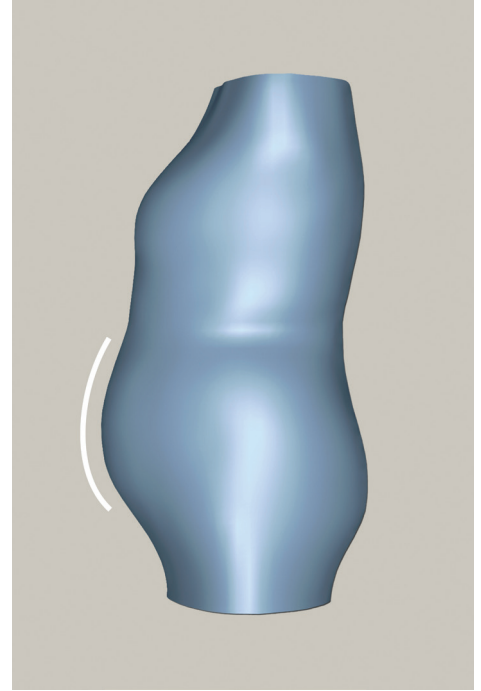
## Abdominal Shape / Relief



Neutral

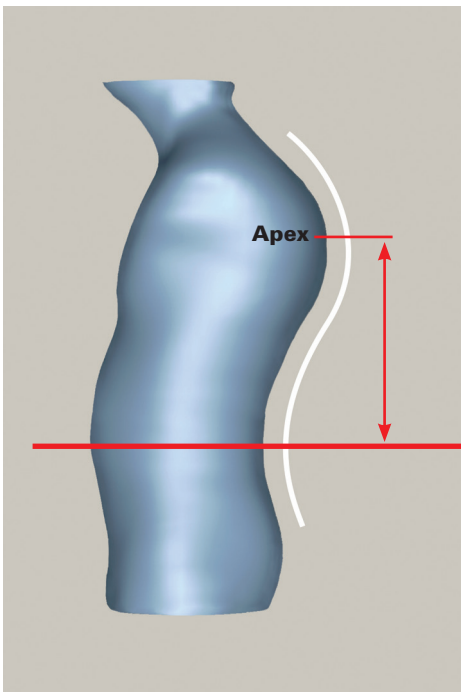


Full

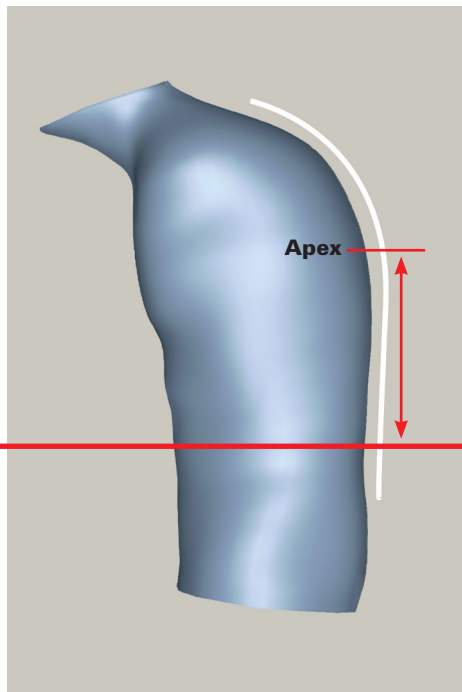


Pendulous

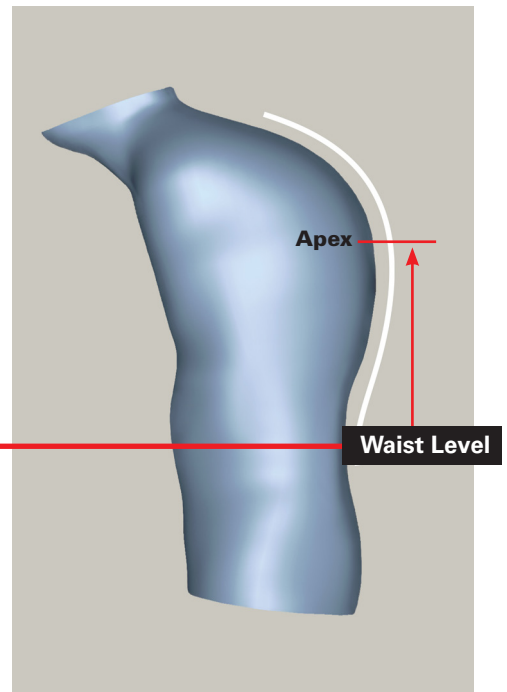
## Kyphotic Shapes



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.

**Recommended Plastic**

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

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**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)

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**Standard Flex Foam® Liner**

1/4" (soft) x 1/8" (firm)

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**Other Liner Thickness Available**

3/16" (soft) x 1/8" (firm)

1/8" (Soft) x 1/8" (firm)

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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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