

# PHANTOM LS™ SERIES

## SURE-LOCK

## LUMBAR

## RETRACTOR SET

LS-1700 & LS-1701



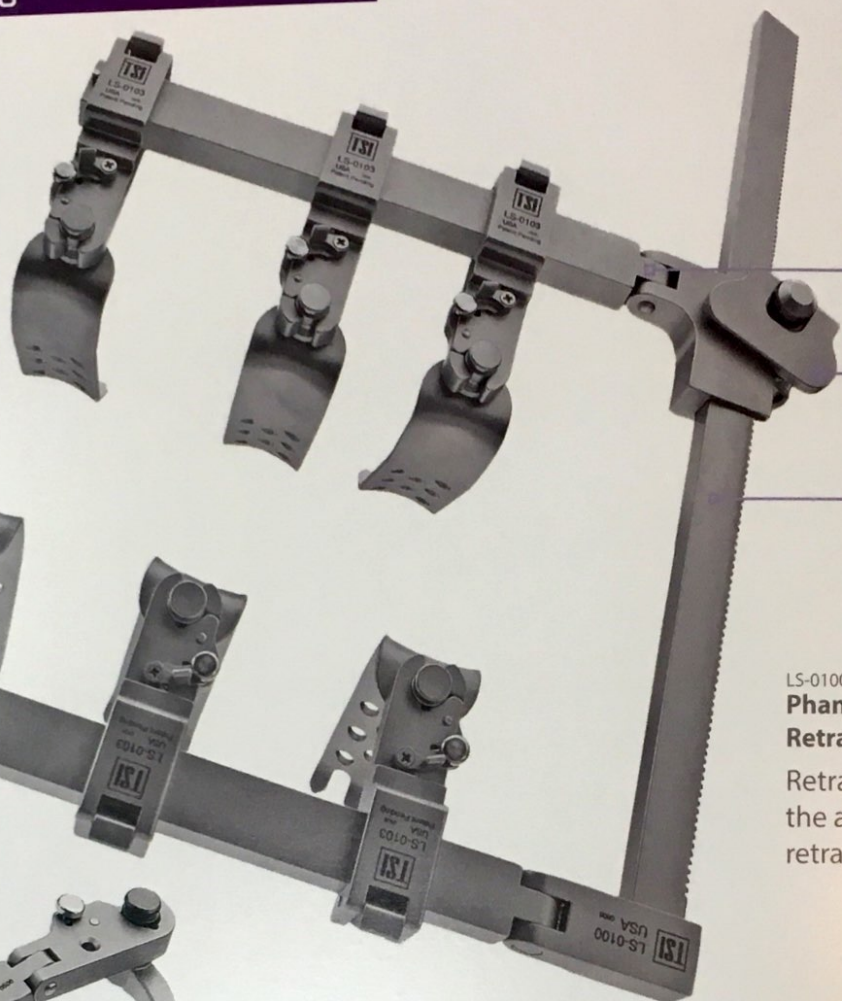
**TeDan Surgical  
Innovations**

# Phantom<sup>LS</sup><sup>TM</sup> LUMBAR SET

LS-1700 & LS-1701

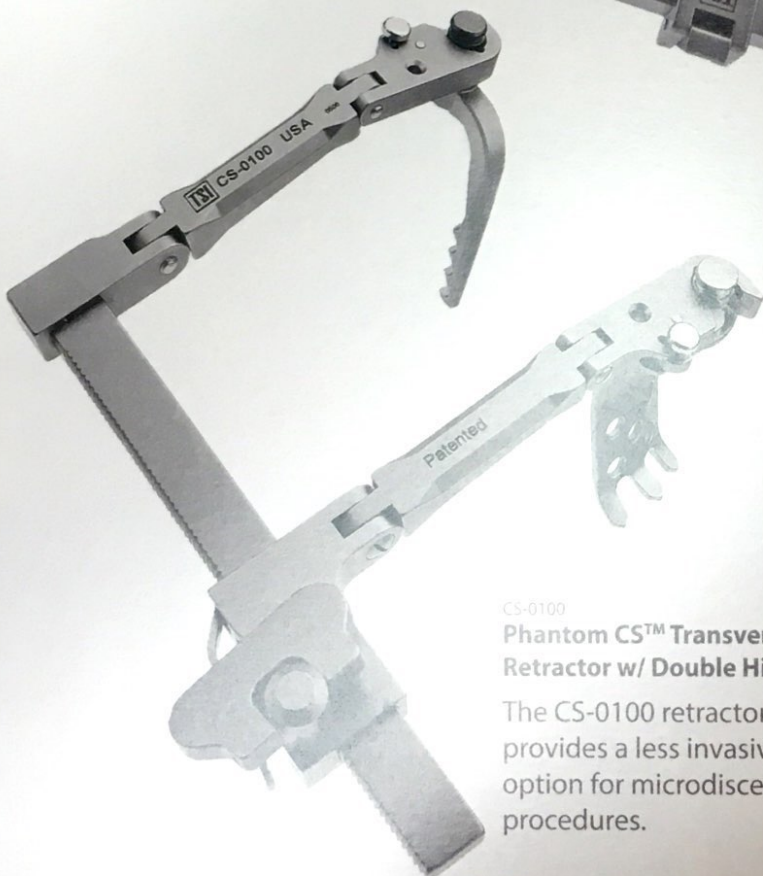
## RETRACTOR FRAMES

The Phantom LS-1700 retractor set includes two retractor bodies capable of facilitating micro and macro lumbar procedures.



Hinged arms conform to patient's anatomy  
Low profile fold down key  
Longer and wider rack increases strength and wound exposure

LS-0100  
**Phantom LS<sup>TM</sup> Lumbar Retractor Body**  
Retractor arms allow for the attachment of multiple retractor blades.



CS-0100  
**Phantom CS<sup>TM</sup> Transverse Retractor w/ Double Hinge**  
The CS-0100 retractor frame provides a less invasive option for microdiscectomy procedures.

CS-0108  
**Phantom CS<sup>TM</sup> Transverse Retractor w/ Pivoting Arms**  
The pivoting feature of the CS-0108 retractor frame increases exposure of surgical sight without increasing incision size.  
\*CS-0108 not included in set, optional item

# EXPERIENCE THE DIFFERENCE. EXPERIENCE INNOVATION.

Phantom LS™ Sure-Lock Lumbar Retractor Sets come with a variety of semi-radiolucent retractor blades to meet the demands associated with surgical tissue and muscle retraction. TSI's patented Sure-Lock front loading design provides ease of retractor blade placement. Multiple lengths and widths of retractor blades are available, including 23 to 60 mm blades, with the transverse side-loading retractor and toothed hooks for micro lumbar discectomies.



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## BLADES & HOOKS

Titanium blades are offered in a variety of sizes from 23 mm to 40 mm. The retractor set also includes toothed hooks for microdissectomies.



LS-0053  
**Phantom LS™ Lumbar  
Blade 15° w/ Teeth, 45 x 80 mm**



LS-0073  
**Phantom LS™ Sacral Cutout, Left,  
w/ Teeth, 60 x 45 mm**



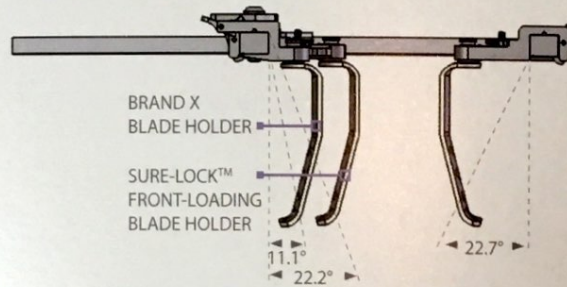
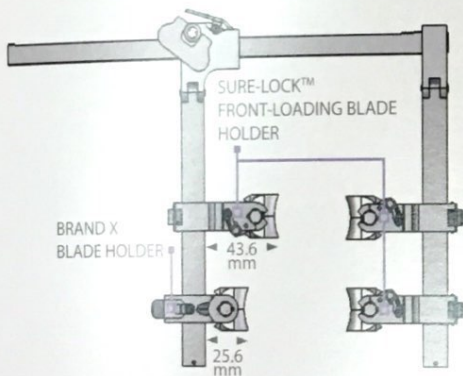
LS-0033  
**Phantom LS™ Lumbar  
Blade 15° w/ Teeth, 23 x 65 mm**

50% stronger than slotted blades  
50% more openings to improve  
visualization during fluoroscopy



LS-0082  
**Phantom LS™ Micro Lumbar  
Discectomy Hook w/ Teeth, 60 mm**

## BLADE HOLDERS



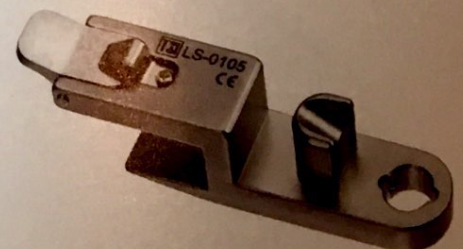
LS-0102  
**Phantom LS™ Adjustable  
Retractor Blade Holder**

Adjustable retractor blade  
holder allows for precise  
placement on the  
retractor body arms.



LS-0103  
**Phantom LS™ Front-Loading  
Retractor Blade Holder**

Patented Phantom  
LS™ Sure-Lock™ front-  
loading retractor blade  
holder provides a secure  
connection and better  
access to the pedicles.



LS-0105  
**Phantom LS™ Top-Loading  
Retractor Blade Holder**

Top-loading retractor blade  
holder can be used in  
place of TSI's front-loading  
retractor blade holder.

\*LS-0105 not included in set, optional item

## RETRACTOR SET



LS-1700  
**Phantom LS™ Lumbar  
Retractor Set**

TSI's lumbar retractor set includes 23 mm to 60 mm retractor blades, a retractor body and blade holders.

## ACCESSORIES

Side-loading retractor blade handle allows for precise placement and easy attachment of blades to the retractor body. T-Handle crank provides ease of motion when adjusting retraction distance.



1000  
**Phantom CST™ Side-Loading  
Retractor Blade Handle**

1001  
**Phantom LS™ T-Handle Crank**



# PHANTOM LS™ SURE-LOCK LUMBAR RETRACTOR SET

## LS-1700

CAT. NO.	DESCRIPTION	QTY.
CS-0100	PHANTOM CS TRANSVERSE RETRACTOR W/DOUBLE HINGE, 120MM RACK	1
CS-0105	PHANTOM CS SIDE-LOADING RETRACTOR BLADE HANDLE	2
LS-0030	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 23X35MM, TITANIUM	4
LS-0031	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 23X45MM, TITANIUM	4
LS-0032	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 23X55MM, TITANIUM	4
LS-0033	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 23X65MM, TITANIUM	4
LS-0034	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 23X75MM, TITANIUM	4
LS-0035	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 23X85MM, TITANIUM	4
LS-0036	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 23X100MM, TITANIUM	4
LS-0037	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 23X120MM, TITANIUM	4
LS-0050	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 45X50MM, TITANIUM	2
LS-0051	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 45X60MM, TITANIUM	2
LS-0052	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 45X70MM, TITANIUM	2
LS-0053	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 45X80MM, TITANIUM	2
LS-0054	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 45X100MM, TITANIUM	2
LS-0055	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 45X120MM, TITANIUM	2
LS-0070	PHANTOM LS SACRAL CUTOUT, RIGHT, W/TEETH, 30X40MM, TITANIUM	1
LS-0071	PHANTOM LS SACRAL CUTOUT, LEFT, W/TEETH, 30X40MM, TITANIUM	1
LS-0072	PHANTOM LS SACRAL CUTOUT, RIGHT, W/TEETH, 60X45MM, TITANIUM	1
LS-0073	PHANTOM LS SACRAL CUTOUT, LEFT, W/TEETH, 60X45MM, TITANIUM	1
LS-0080	PHANTOM LS MICRO LUMBAR DISCECTOMY HOOK WITH TEETH, 40MM	1
LS-0081	PHANTOM LS MICRO LUMBAR DISCECTOMY HOOK WITH TEETH, 50MM	1
LS-0082	PHANTOM LS MICRO LUMBAR DISCECTOMY HOOK WITH TEETH, 60MM	1
LS-0083	PHANTOM LS MICRO LUMBAR DISCECTOMY HOOK WITH TEETH, 70MM	1
LS-0100	PHANTOM LS LUMBAR RETRACTOR BODY	1
LS-0101	PHANTOM LS T-HANDLE CRANK	1
LS-0102	PHANTOM LS ADJUSTABLE BLADE HOLDER	4
LS-0103	PHANTOM LS FRONT-LOADING RETRACTOR BLADE HOLDER FOR LS-0100	6
LS-0700	PHANTOM LS STERILIZATION TRAY (FOR LS-1700 & 1701 SETS)	1

# PHANTOM LS™ BASIC SURE-LOCK LUMBAR RETRACTOR SET

## LS-1701

CAT. NO.	DESCRIPTION	QTY.
CS-0105	PHANTOM CS SIDE-LOADING RETRACTOR BLADE HANDLE	2
LS-0030	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 23X35MM, TITANIUM	4
LS-0031	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 23X45MM, TITANIUM	4
LS-0032	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 23X55MM, TITANIUM	4
LS-0033	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 23X65MM, TITANIUM	4
LS-0034	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 23X75MM, TITANIUM	4
LS-0035	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 23X85MM, TITANIUM	4
LS-0036	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 23X100MM, TITANIUM	4
LS-0037	PHANTOM LS LUMBAR BLADE 15° W/TEETH, 23X120MM, TITANIUM	4
LS-0100	PHANTOM LS LUMBAR RETRACTOR BODY	1
LS-0101	PHANTOM LS T-HANDLE CRANK	1
LS-0102	PHANTOM LS ADJUSTABLE BLADE HOLDER	4
LS-0103	PHANTOM LS FRONT-LOADING RETRACTOR BLADE HOLDER FOR LS-0100	6
LS-0700	PHANTOM LS STERILIZATION TRAY (FOR LS-1700 & 1701 SETS)	1



LS-1700



LS-1701