



Idys[®] - TLIF 3DTi

Porous Titanium

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Surgical Technique

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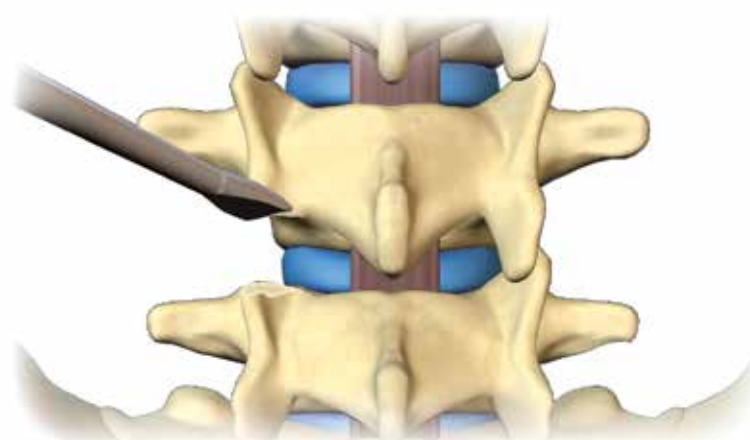
Prior to using any Clariance device, please review the instructions for use and surgical technique for a complete listing of indications, contraindications, warnings, precautions, potential adverse events, and directions for use.

In accordance with safety procedures, the patient is placed in the ventral decubitus position on the operating table. The surgical approach is based on the usual techniques used by the surgeon.

Disc Exposure

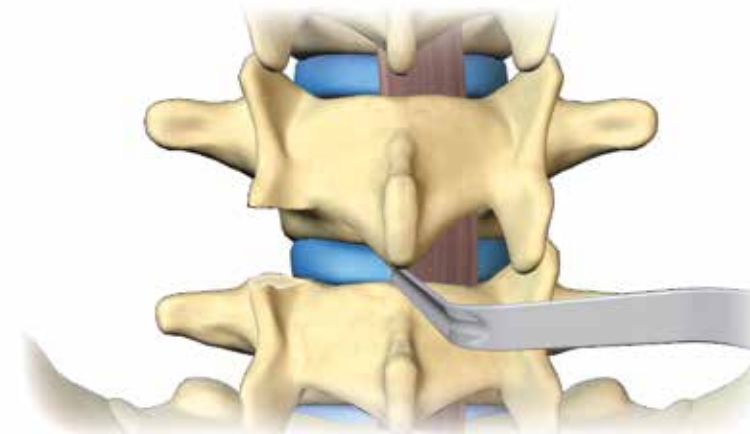
Using the **Osteotome**, perform a unilateral facetectomy on the appropriate side to obtain transforaminal access to the disc space.

Resection must be sufficient to allow access of the instruments and insertion of the **Cage** into the disc space.



04705010
OSTEOTOME

Use the **Nerve Root Retractor** to protect the surrounding nerve structures throughout the surgical procedure.



04781006
NERVE ROOT
RETRACTOR
(6mm)

Segment Distraction

To temporarily open the posterior disc space and increase exposure, apply progressive distraction tension in accordance with the surgeon's preferences.

Discectomy

Use a scalpel to cut a window in the intervertebral disc.





99781001
CANNULATED
T-HANDLE



047070xx
SHAVER



06708002
CURVED DISC
RONGEUR

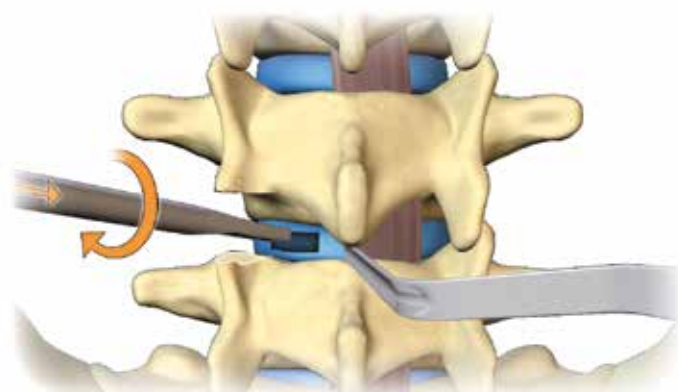


06708003
DISC RONGEUR 45°



06708001
STRAIGHT DISC
RONGEUR

- Connect the **Shaver** to the **T-Handle**
- Rotate the **Shaver** to begin the discectomy.
- **Shavers** are available in heights ranging from 6 - 16mm in 1mm increments.



- Use the **Straight Disc Rongeur** or **Disc Rongeur 45°** to remove the disc material.
- Use the **Curved Disc Rongeur** to complete the discectomy on the other side of the intervertebral disc.



RECOMMENDATION:

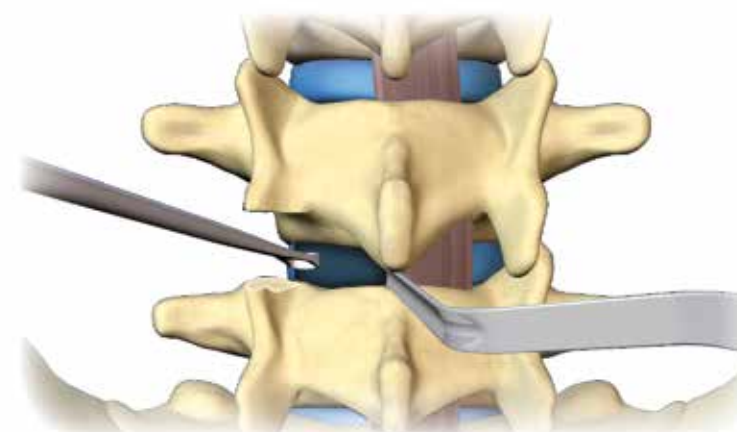
It is recommended to retain as much of the anterolateral walls of the annulus as possible to provide additional stability for the **Cage**.



Endplate Preparation

4

- Use the **Curette** to prepare the endplates, further excising the disc material and removing the cartilaginous layer from the endplates.
- Use the **Curette** to facilitate the removal of material in the distant lateral disc space.



Endplate preparation is performed to improve vascularization of the implanted bone graft. The structural integrity of the endplates must be preserved to provide structural support of the **Cage**.



99782003
CYLINDRICAL HANDLE



04704005
CUP CURETTE



04704015
CURETTE



06704015
CURVED CURETTE



06704105
RIGHT CUP CURETTE



06704205
LEFT CUP CURETTE

Implant Sizing

5

- Connect the TLIF Trial to the TLIF Trial Inserter by rotating the knob clockwise.

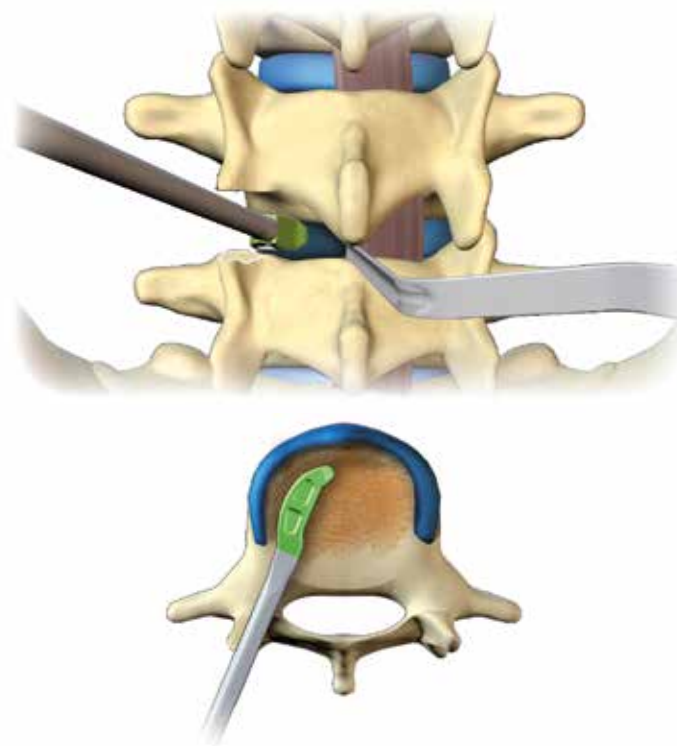
IMPORTANT:

The height of the final implant is determined by selecting the TLIF Trial that restores the desired disc height and lumbar lordosis of the treated segment.



Insert the TLIF Trial into the intervertebral space as close to the final position as possible.

Do not detach the TLIF Trial from the TLIF Trial Inserter.



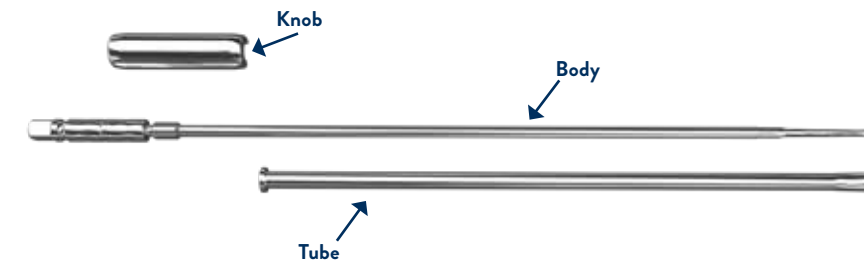
Momentarily releasing traction, verify the position of the TLIF Trial and confirm the desired disc height via X-Ray.

Reestablish distraction and remove the TLIF Trial using the Slap Hammer.

Cage Holder Assembly

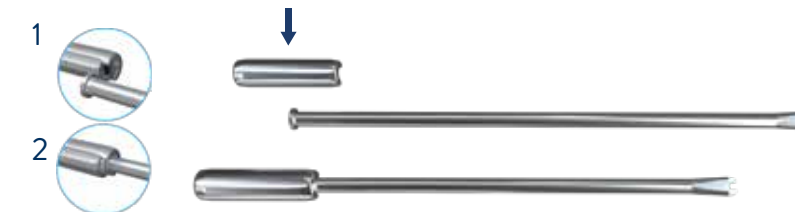
6

The TLIF Cage Holder is composed of the Knob, Body and Tube.

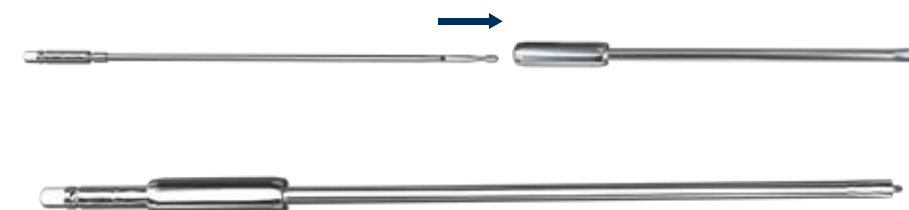


- Lubricate the Body with a surgical lubricant after each sterilization.

- Slide the Knob over the shoulder of the Tube.



- Insert the Body into the Knob and through the Tube.



Ensure that the Body is fully inserted in the Tube, exposing the clamp at the distal end.



Rotate the Knob counterclockwise to fully open the clamp.



Implant Preparation

7

Connect the selected **Cage** to the **TLIF Cage Holder** by rotating the knob clockwise. Place the **Cage** in the **TLIF Filling Support**.

RECOMMENDATION:

Completely fill the implant cavity with bone graft in order to ensure optimal contact between the graft material and the vertebral endplates.



Firmly pack the graft material in the implant cavity using the **TLIF Graft Impactor**.



Implant Insertion

8

Begin insertion by inserting the **Cage** straight into the intervertebral space.



Turn the knob of the **TLIF Cage Holder** counterclockwise to rotate the **Cage** in the disc space. Lightly impact the **Cage** for oblique orientation. The **Cage** can also be pushed sideways to center its position.

Verify the position of the **Cage** via X-Ray and detach the **TLIF Cage Holder**.

TIPS & TRICKS: TLIF CAGE HOLDER

Before connecting the **Cage**, rotate the knob on the **TLIF Cage Holder** counterclockwise to open the clamp on the distal end. Connect the **Cage** to the clamp and rotate the knob clockwise to secure the connection. Once the **Cage** is in a straight position on the **TLIF Cage Holder**, it can be inserted in the intervertebral space.

To rotate the **Cage** in the intervertebral space, turn the knob two rotations counterclockwise. Once the **Cage** is appropriately positioned, continue rotating the knob counterclockwise to release the **Cage** from the **TLIF Cage Holder**.

Do not release the **Cage** until the appropriate position has been verified.



99782003
CYLINDRICAL HANDLE



06715002
TLIF CAGE HOLDER



99782003
CYLINDRICAL HANDLE



04762000
SLAP HAMMER



06715002
TLIF CAGE HOLDER



06717003
TLIF FILLING SUPPORT



31761000
TLIF GRAFT IMPACTOR



06716003
CURVED
TLIF CAGE PUSHER

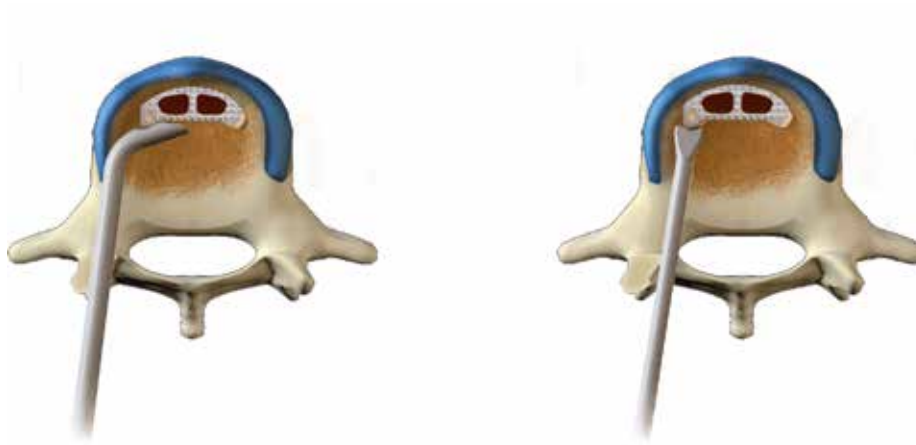


06716002
STRAIGHT
TLIF CAGE PUSHER

Final Positioning

9

Use the Straight TLIF Cage Pusher and the Curved TLIF Cage Pusher to adjust the final position of the Cage.



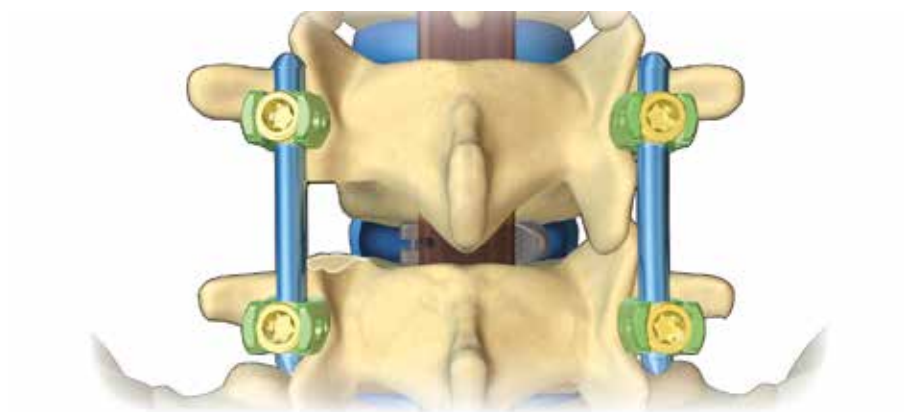
Additional bone graft can be packed against the posterior face of the Cage.

Release distraction and perform a final X-Ray check.

Supplementary Posterior Fixation

10

Posterior fixation is required to place the treated segment under compression and to enhance the stability of the Idys - TLIF 3DTi Cage.

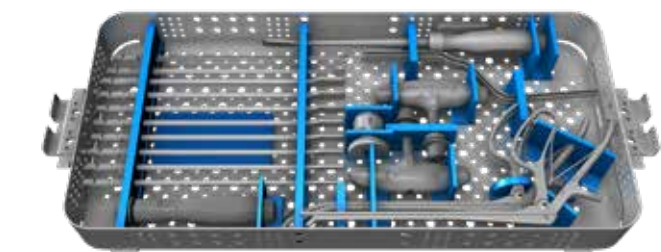


Idys - TLIF 3DTi Instruments

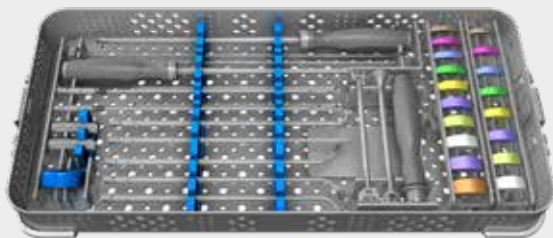
			
Osteotome 04705010	Nerve Root Retractor 04781006	Curette 04704015	Straight Curette 04704005
			
Curved Curette 06704015	Right Cup Curette 06704105	Left Cup Curette 06704205	TLIF Trial Inserter 06715003
			
TLIF Cage Holder 06715002	Straight Disc Rongeur 06708001	Disc Rongeur 45° 06708003	Curved Disc Rongeur 06708002

			
Slap Hammer 0476200	TLIF Filling Support 06717003	TLIF Graft Impactor 31761000	TLIF Cage Pusher Straight Curved 06716002 06716003
			
Cannulated T-Handle 99781001	Cylindrical Handle Large 99782003	Shaver H06mm H07mm H08mm H09mm H10mm H11mm H12mm H13mm H14mm H15mm H16mm 04707006 04707007 04707008 04707009 04707010 04707011 04707012 04707013 04707014 04707015 04707016	

Idys - TLIF 3DTi Containers



Idys-LIF Common Instruments Tray 04990030
Idys-LIF Common Instruments Lid 04990047



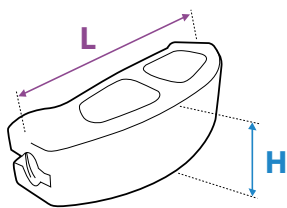
Idys - TLIF Instrument Tray Lid 04990037
Idys - TLIF Instrument Tray 04990036
Rack TLIF Trial L29mm 04990034

Idys - TLIF 3DTi Trials & Implants



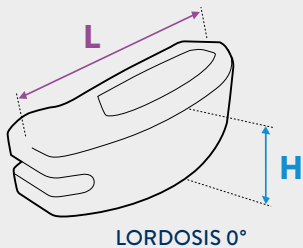
Idys - TLIF Trial Cages

	L29mm
H07mm	06714407
H08mm	06714408
H09mm	06714409
H10mm	06714410
H11mm	06714411
H12mm	06714412
H13mm	06714413
H14mm	06714414



Idys - TLIF 3DTi Cages

	L29mm
H07mm	31572907-S
H08mm	31572908-S
H09mm	31572909-S
H10mm	31572910-S
H11mm	31572911-S
H12mm	31572912-S
H13mm	31572913-S
H14mm	31572914-S



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This image shows a full page of primary-ruled notebook paper. It features horizontal blue dotted lines spaced evenly down the page. Vertical red lines are positioned on either side of the page to create margins. The paper is otherwise blank, with no handwriting or other markings.



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