



Idys[®] - TLIF TiVac

Titanium-coated PEEK

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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.

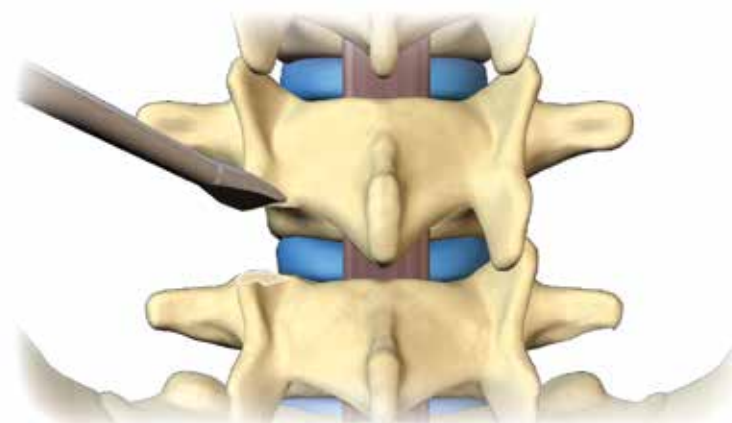
In accordance with safety procedures in force, the patient is placed in the ventral decubitus position on the operating table. The surgical approach is based on the usual techniques used by the surgeon.

Disc Exposure

1

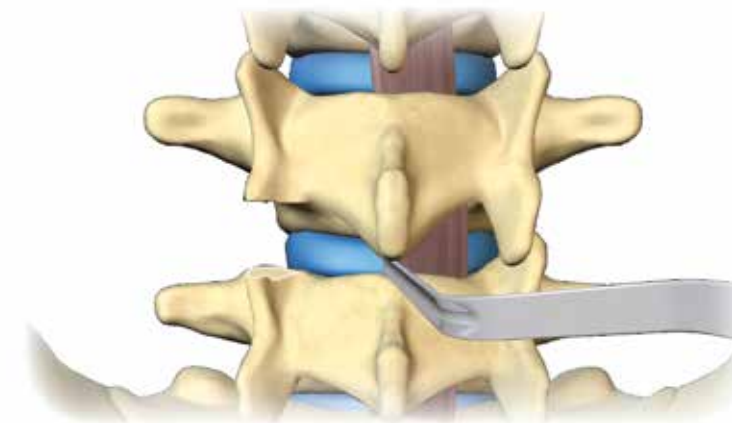
Using the **Osteotome**, perform a unilateral facetectomy on the appropriate side to obtain transforaminal access to the disc space.

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

2

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

Discectomy

3

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





99781001

CANNULATED T-HANDLE



047070xx
SHAVER



06708002

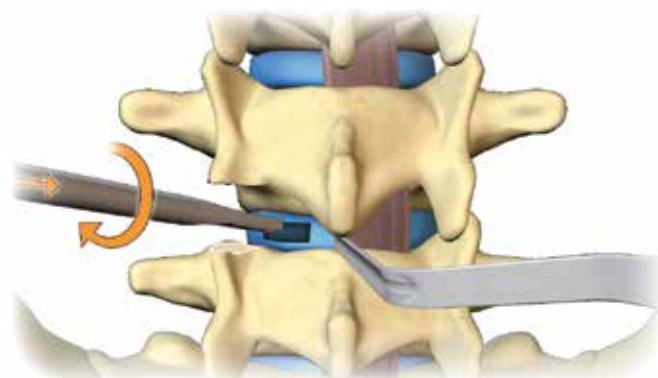
CURVED DISC RONGEUR



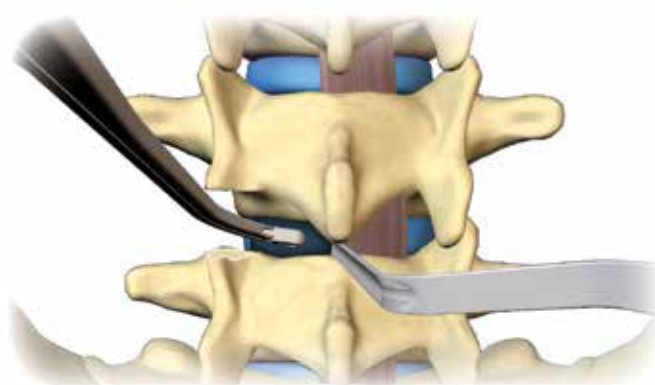
06708003

DISC RONGEUR 45°

- The blade distractors are used successively and rotated to start discectomy and gradually restore the disc height.
- The height of the blade distractors varies from 6mm to 14mm with a pitch of 1mm.



- Use the **Straight 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 cartilaginuous layer from the endplates.
- Use the **Curette** to facilitate the removal of material in the distant lateral 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**.



Optimizing the vertebral endplates

The Idys-TLIF TiVac instrumentation offers a set of specific **curettes** to ensure a high performance of the vertebral endplates and thus create the conditions favorable to bone fusion.



RECOMMENDATION:

Thorough cleaning of the endplates is important to promote vascularity of the bone graft. Be careful, too deep an avilation weakens the cortical bone and can therefore weaken the vertebral endplates.



99782003

CYLINDRICAL HANDLE



04704015
CURETTE



04704015

CUP CURETTE



06704015

CURVED CURETTE



06704105

RIGHT CUP CURETTE



06704205

LEFT CUP CURETTE



067144xx
TLIF TRIAL L29



06715003
TLIF TRIAL INSERTER



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

- 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**.

Implant Sizing

5

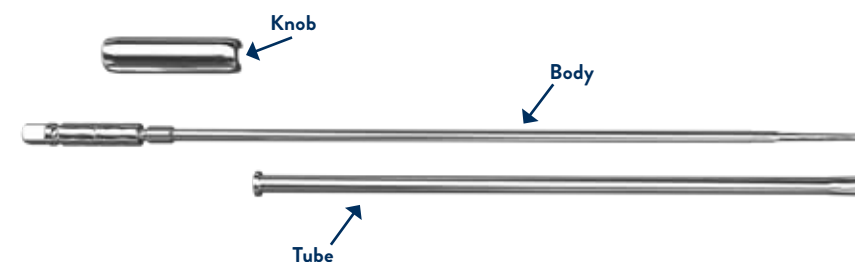
RECOMMENDATION:

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.

Cage Holder Assembly

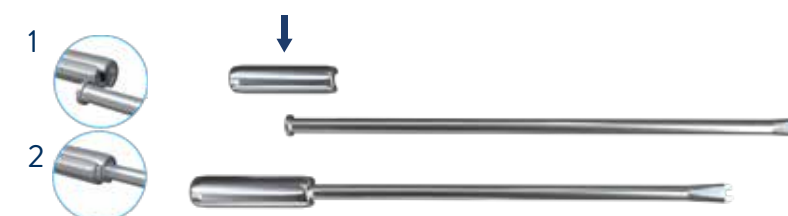
6

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

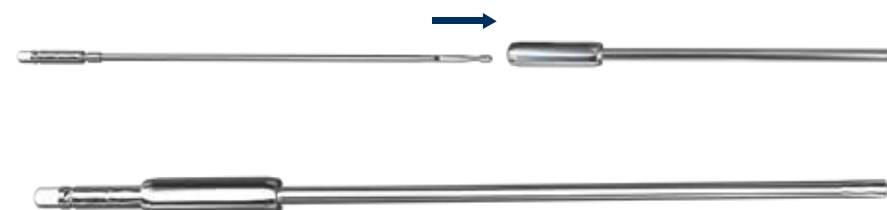


- Lubricate the **Body** with a surgical lubricant after each sterilization.

- 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.



04762000
SLAP HAMMER



06715002
TLIF CAGE HOLDER



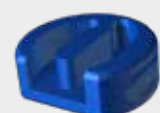
04762000
SLAP HAMMER



99782003
CYLINDRICAL HANDLE



06715002
TLIF CAGE HOLDER



06717003
TLIF FILLING SUPPORT



06761002
GRAFT IMPACTOR

Implant Preparation

7

The selected **Cage** is connected to the TLIF Cage Holder and placed in the TLIF Filler Block.

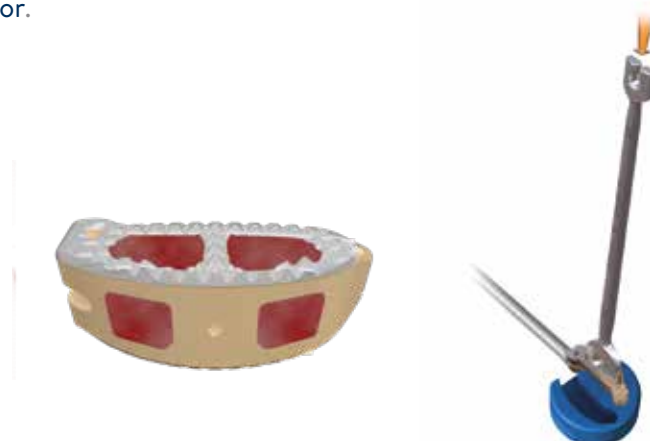
- Unscrew the **Knob** to open the door clamp **Cage**.
- Grasp the clamp on the **Cage** assembly tube which is located at the back of the **Cage**.
- Screw the knob so that the **Cage** is maintained firmly and straight on the **Cage Holder**.



The **Cage** can then be placed in waist pad corresponding.



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



RECOMMENDATION:

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

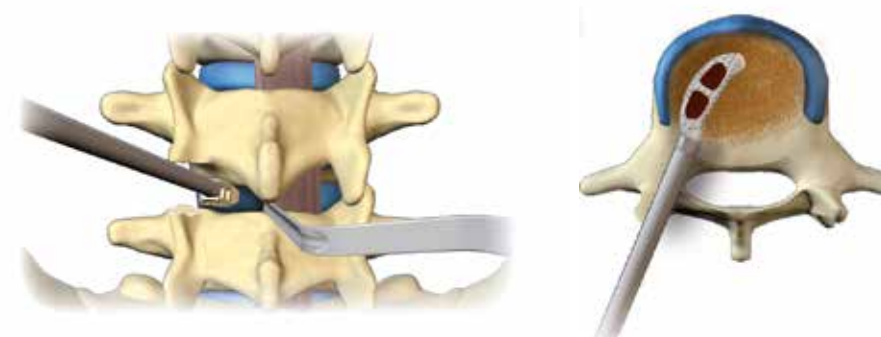
Implant Insertion

8

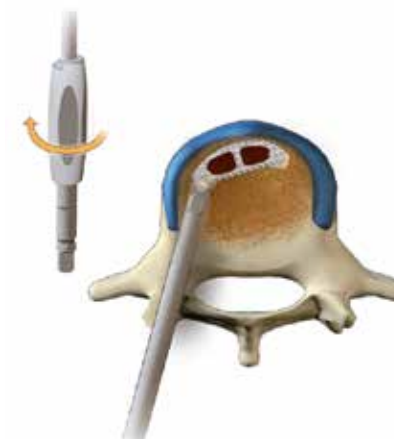
IMPORTANT:

The **Cage Holder** must not be disassembled from the **Cage** before the final position is confirmed by the radiological control.

- Connect the **Cage Holder** to the **Cylindrical Handle**.
- The **Cage** is inserted into the intervertebral space in position right by slight impactions.



- The **Knob** located on the TLIF Cage Holder is then unscrewed to release the movement of the **Cage** for two turns.



Verify the position of the **Cage** via X-Ray. After confirming the position, disassemble the the **Cage Holder** from the **Cage** by completely unscrewing the **Knob**.

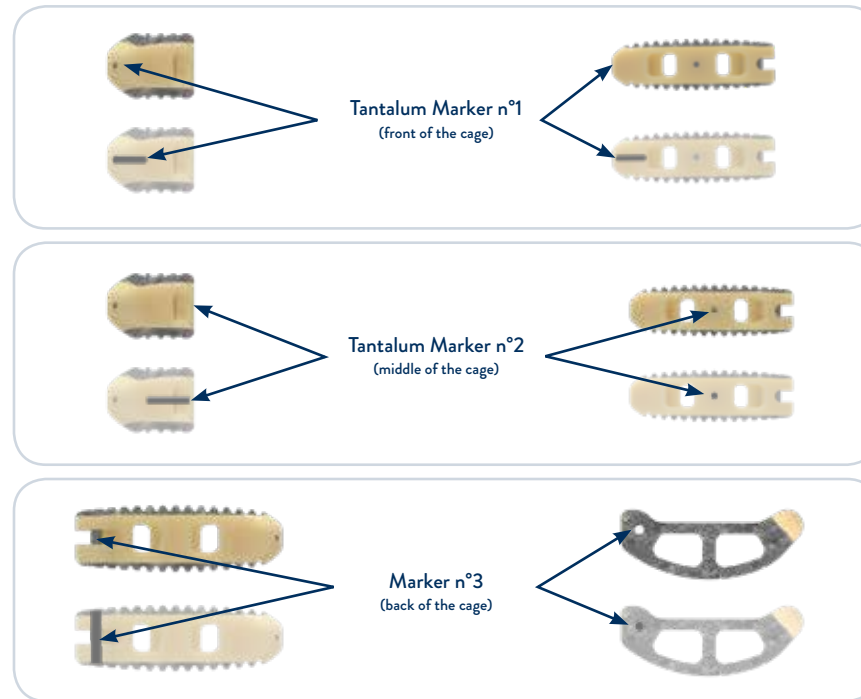


99782003
CYLINDRICAL HANDLE

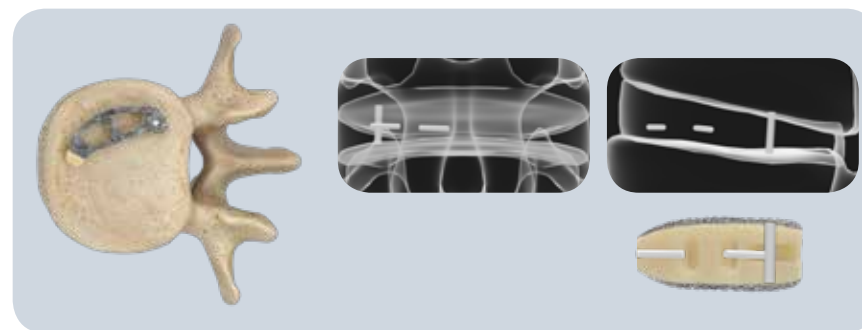


06715002
TLIF CAGE HOLDER

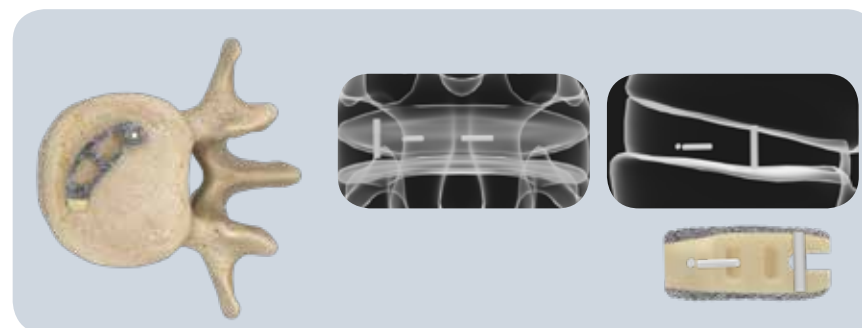
- Tantalum markers are located within the Cage as seen below.



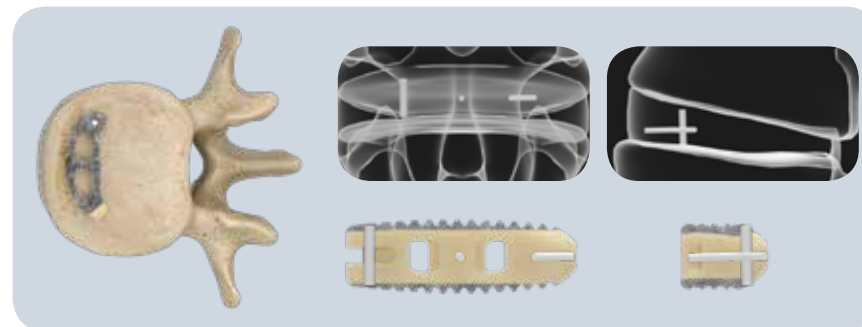
- Initial insertion:



- Progressive rotation:



- Final position:



Final Positioning

9

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



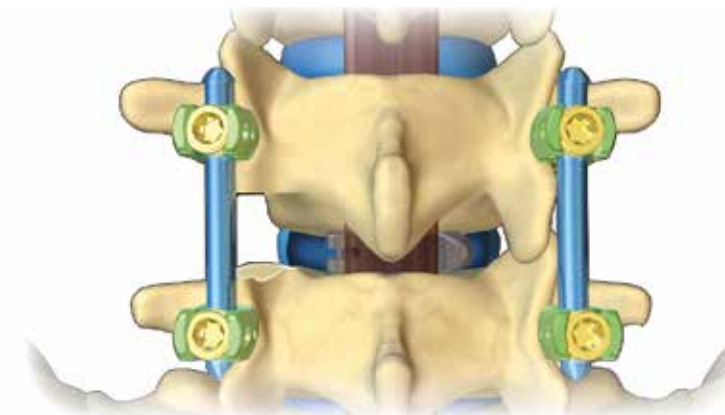
Additional bone graft can be packed against the posterior face of the Cage.

Distraction is released and a final X-ray check is performed.

Supplementary Posterior Fixation

10

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



Idys - TLIF TiVac Instruments



Osteotome
04705010



Nerve Root Retractor
04781006



Disc Rongeur
Straight 06708001
45° 06708002
Curved 06708003



Curette
04704015



Straight Curette
04704005



Curved Cup Curette
06704015



Right Cup Curette
06704105



Left Cup Curette
06704205



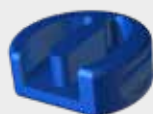
TLIF Trial Inserter
06715003



TLIF Cage Holder
06715002



Slap Hammer
04762000



TLIF Filling Support
06717003



TLIF Graft Impactor
06761002



TLIF Cage Pusher
Straight 06761002
Curved 06761003



Cylindrical Handle
99782003



Cannulated T-Handle
99781001

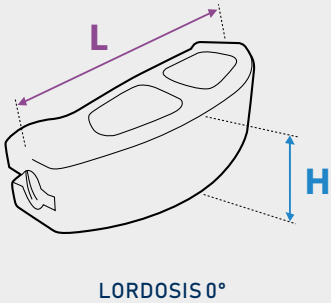


Shavers
04707007 H07mm 04707011 H11mm
04707008 H08mm 04707012 H12mm
04707009 H09mm 04707013 H13mm
04707010 H10mm 04707014 H14mm



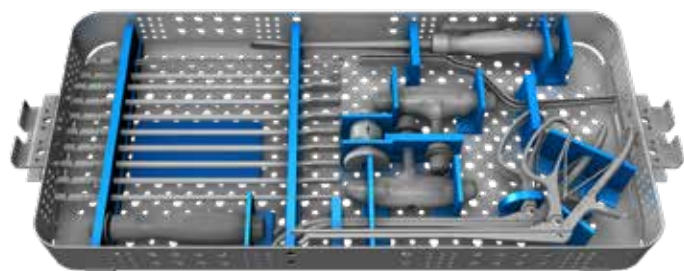
TLIF Trials - 0°

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

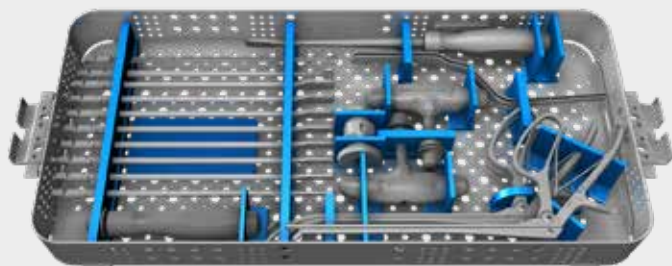


LORDOSIS 0°

Idys - TLIF TiVac Containers



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



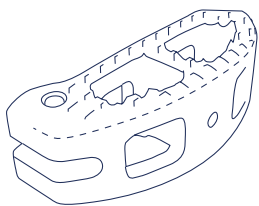
Idys - TLIF Instrument Tray Lid 04990037
Idys - TLIF Instrument Tray 04990036
Rack TLIF Trial L29mm 04990034

Idys - TLIF TiVac Sterile Implants



Idys - TLIF TiVac Cages

	L29 x W09mm
H07mm	41532907-S
H08mm	41532908-S
H09mm	41532909-S
H10mm	41532910-S
H11mm	41532911-S
H12mm	41532912-S
H13mm	41532913-S
H14mm	41532914-S



LORDOSIS 0°



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