



Idys[®] - **TLIF 3DTi**

POSTERIOR INTERBODY



Surgical Technique - USA



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Idys-TLIF 3DTi

POSTERIOR INTERBODY



CONTENTS

Surgical Technique

P04

- | | |
|--------------------------|---------------------------------------|
| 1 Disc Exposure | 6 Cage Holder Assembly |
| 2 Segment Distraction | 7 Implant Preparation |
| 3 Discectomy | 8 Implant Insertion |
| 4 Endplate Preparation | 9 Final Positioning |
| 5 Implant Sizing | 10 Supplementary Posterior Fixation |

Instruments

P13

Implants

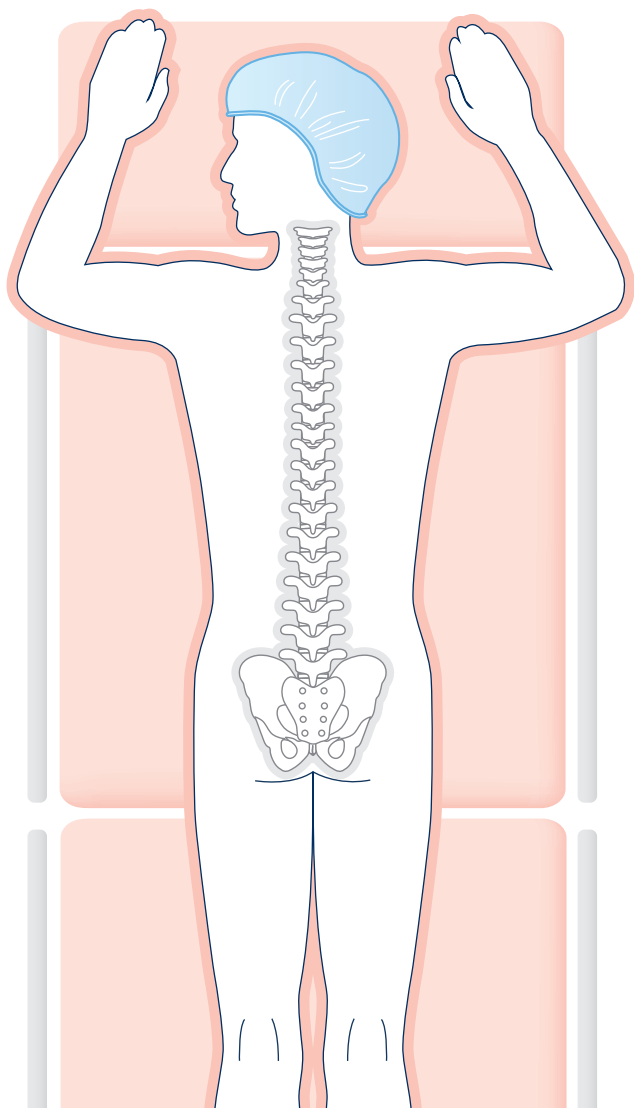
P15

Surgical Technique



To become the architects of spine, Clariance has developed its products in collaboration with expert surgeons in their practice from all backgrounds including from France and the US. Because of this diversity, Clariance offers solutions that meet all practices. This surgical technique guide is the result of the proximity between the surgeons and Clariance.

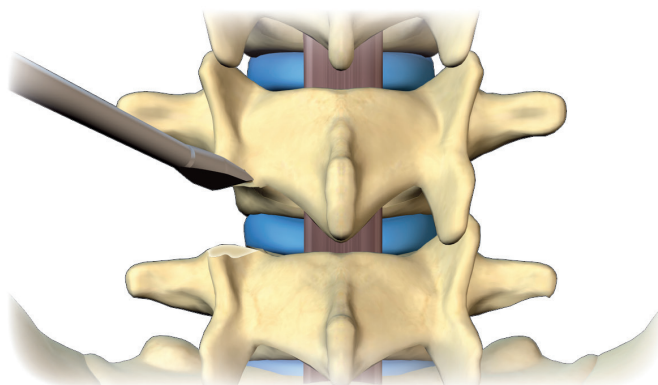
Prior to using any Clariance device, please review the instructions for use and surgical technique for a complete listing of indications, contraindications, warnings, precautions, potential adverse events, and directions for use.



1 | DISC EXPOSURE

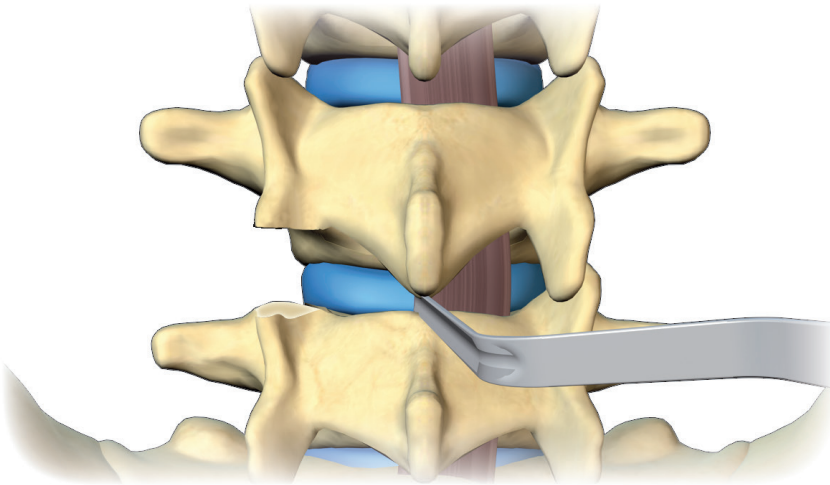
Using the **Osteotome**, perform a unilateral facetectomy on the appropriate side to obtain transforaminal access to the disc space.

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



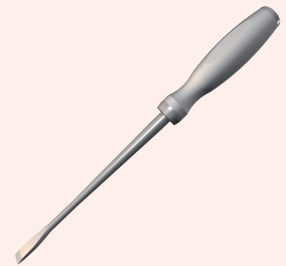
*In accordance with safety procedures in force, the patient is placed in the **ventral decubitus** position on the operating table. The surgical approach is based on the usual techniques used by the surgeon.*

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



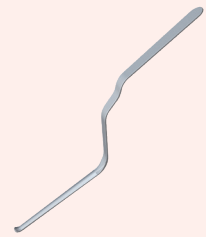
OSTEOTOME

04705010



NERVE ROOT RETRACTOR

04781006

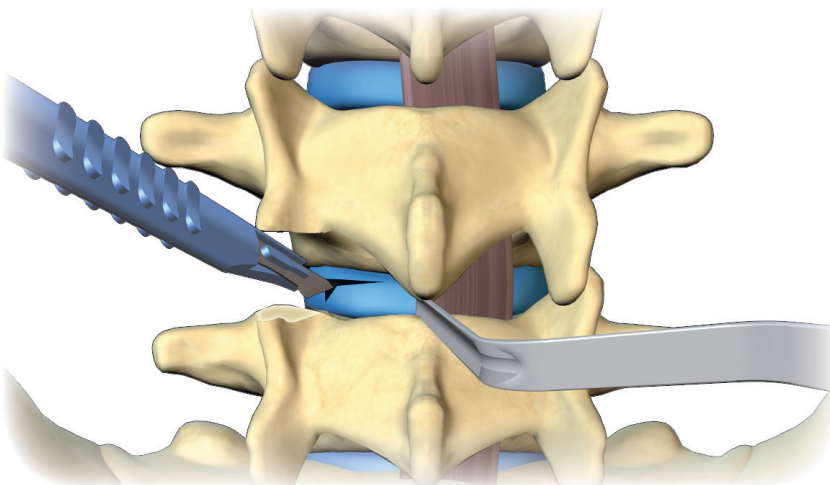


2 | SEGMENT DISTRACTION

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

3 | DISCECTOMY

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



CANNULATED T-HANDLE

99781001



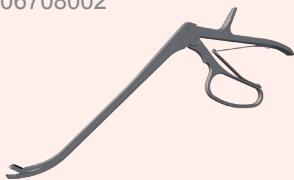
SHAVER

04707xxx



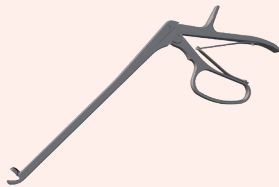
CURVED DISC RONGEUR

06708002



DISC RONGEUR 45°

06708003

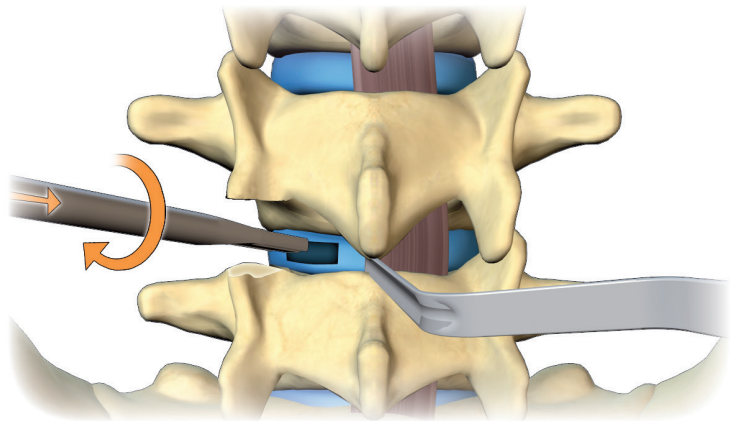


STRAIGHT DISC RONGEUR

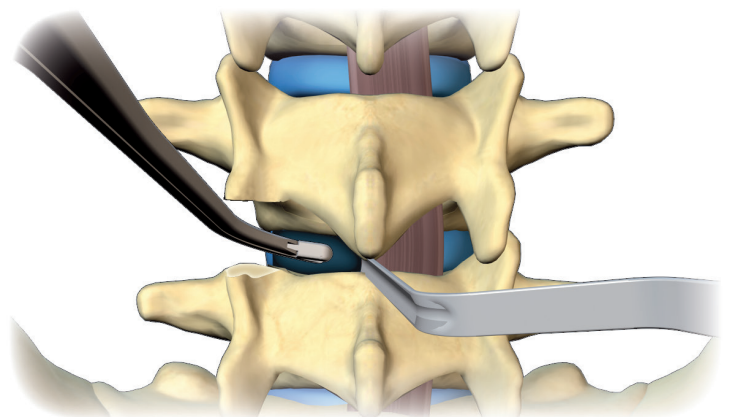
06708001



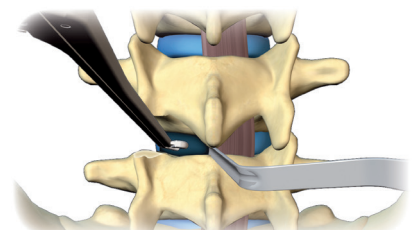
- Connect the **Shaver** to the **T-Handle**.
- Rotate the Shaver to begin the discectomy.
- Shavers are available in heights ranging from 6 - 16mm in 1mm increments.



- Connect 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.

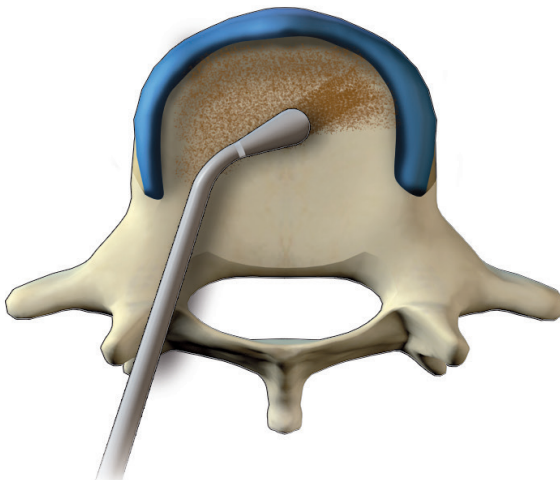
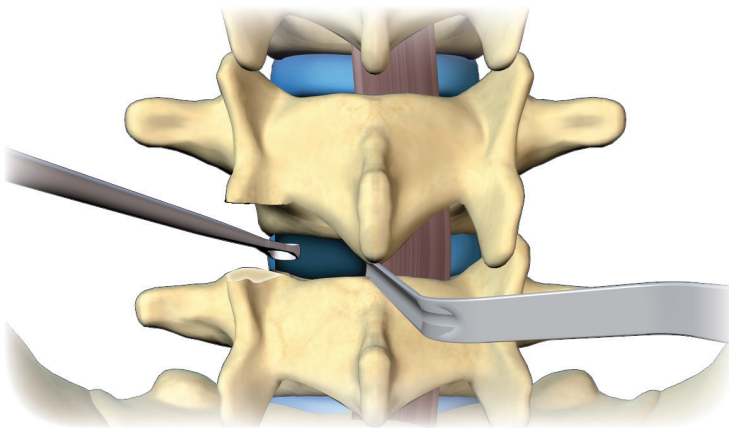


It is recommended to retain as much of the anterolateral walls of the annulus as possible to provide additional stability for the Cage.



4 | ENDPLATE PREPARATION

- 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.



RECOMMENDATION:

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.

CYLINDRICAL HANDLE

99782003



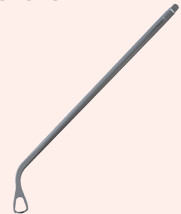
CURETTE CUP CURETTE

04704015
04704005



CURVED CURETTE

06704015



RIGHT CUP CURETTE

06704105



LEFT CUP CURETTE

06704205



TLIF TRIAL

067144xx



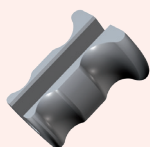
TLIF TRIAL INSERTER

06715003



SLAP HAMMER

04762000

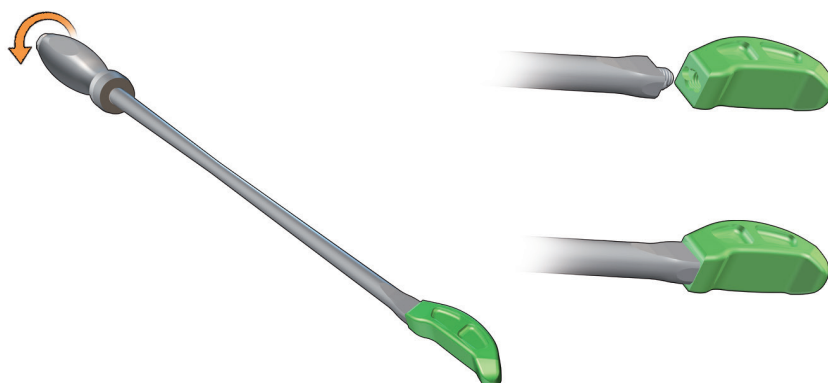


5 | IMPLANT SIZING

RECOMMENDATION:

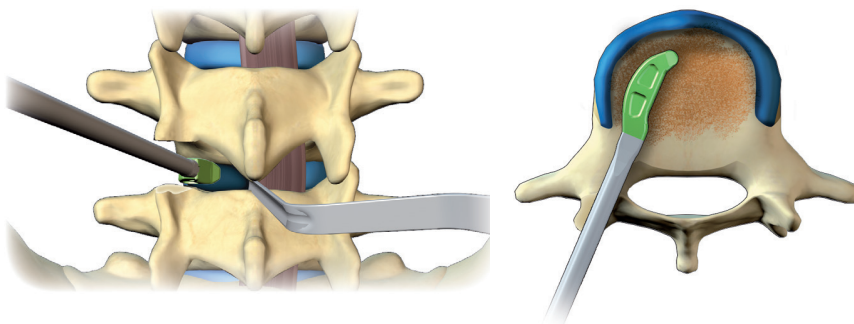
The height of the final implant is determined by selecting the TLIF Trial that restores the desired disc height and lumbar lordosis of the treated segment.

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

6 | CAGE HOLDER ASSEMBLY

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

Knob → 

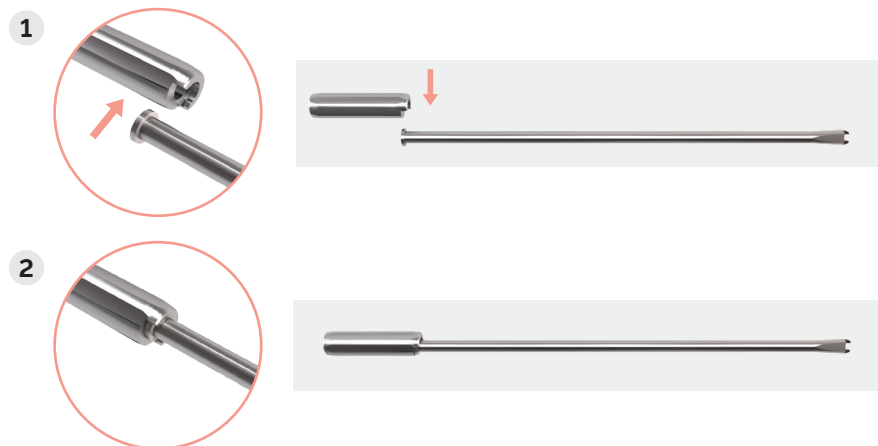
Body → 

Tube → 

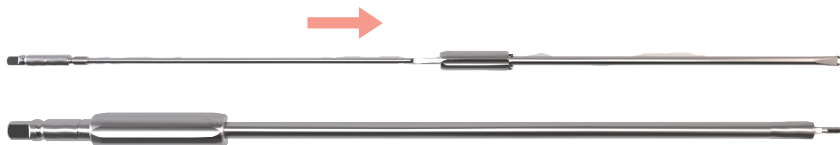
- Lubricate the Body with a surgical lubricant after each sterilization.



- Slide the Knob over the shoulder of the Tube.



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



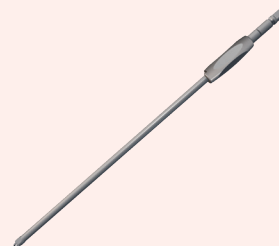
- Ensure that the Body is fully inserted in the Tube, exposing the clamp at the distal end.



Rotate the Knob counterclockwise to fully open the clamp.

TLIF CAGE HOLDER

06715002



CYLINDRICAL HANDLE

99782003



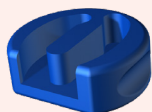
TLIF CAGE HOLDER

06715002



TLIF FILLING SUPPORT

06717003



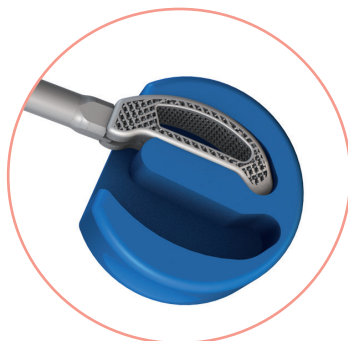
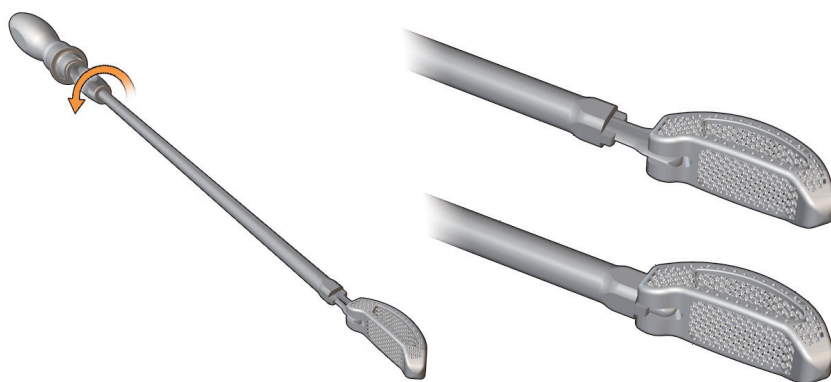
TLIF GRAFT IMPACTOR

31761000

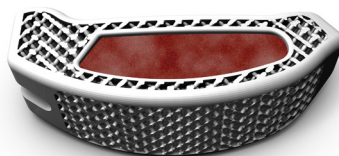


7 | IMPLANT PREPARATION

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



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

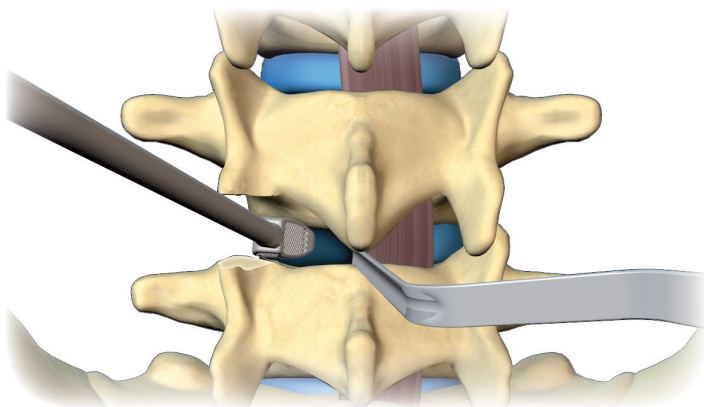


RECOMMENDATION:

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

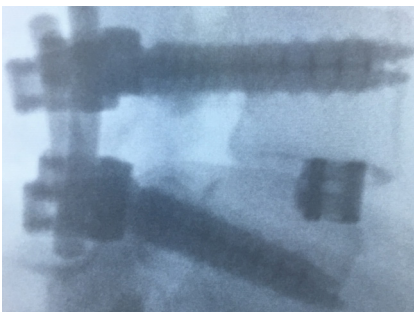
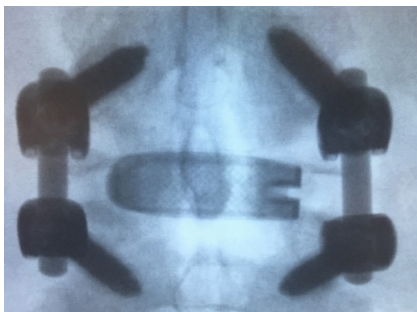
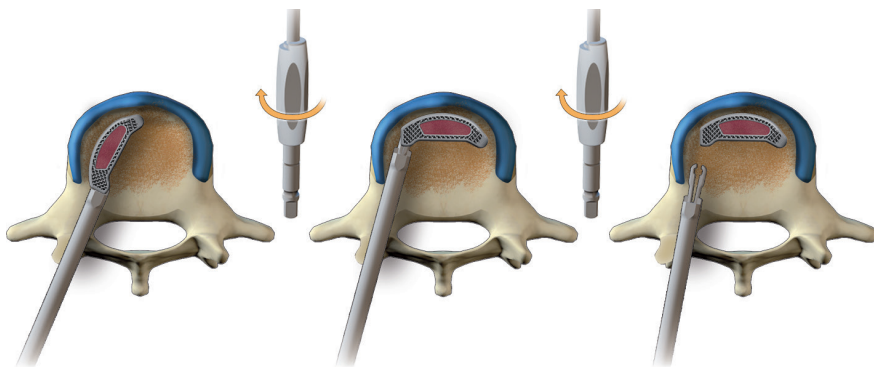
8 | IMPLANT INSERTION

Begin insertion by inserting the Cage straight into the intervertebralspace.



- 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 CageHolder.



IMPORTANT:

The Cage Holder must not be detached from the cage until the final positioning is validated

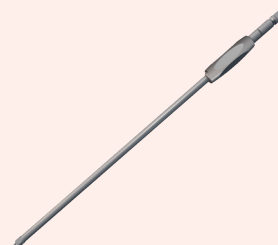
CYLINDRICAL HANDLE

99782003



TLIF CAGE HOLDER

06715002



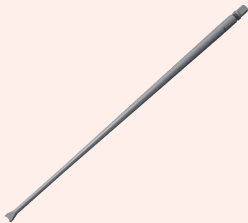
CURVED TLIF CAGE PUSHER

06716003



STRAIGHT TLIF CAGE PUSHER

06716002



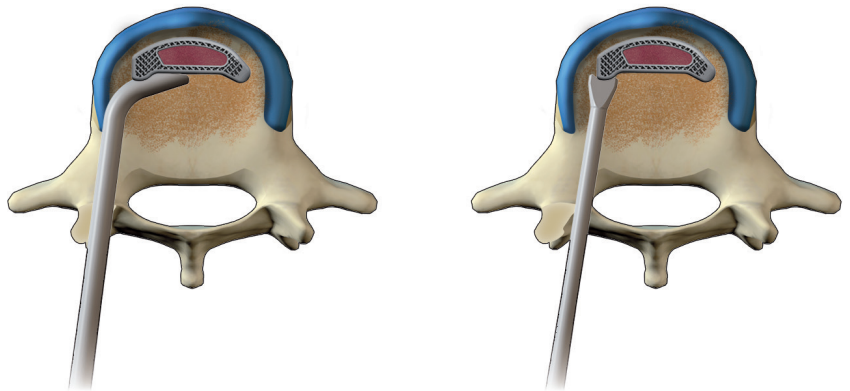
CYLINDRICAL HANDLE

99782003



9 | FINAL POSITIONING

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

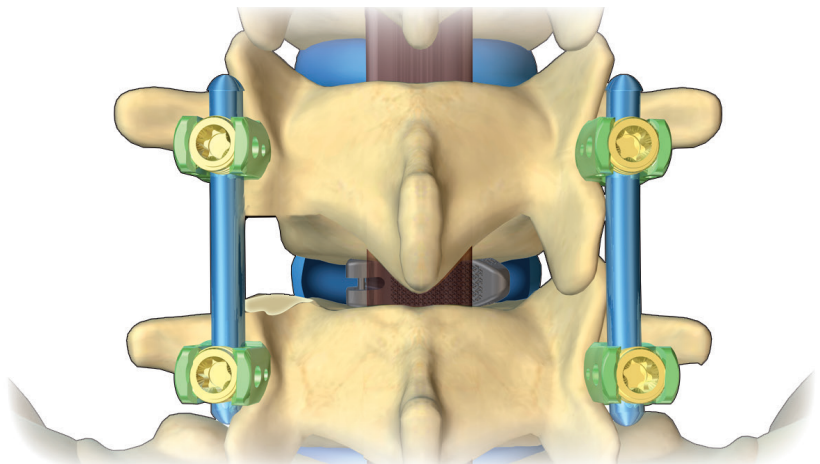


Additional bone graft can be packed against the posterior face of the Cage.

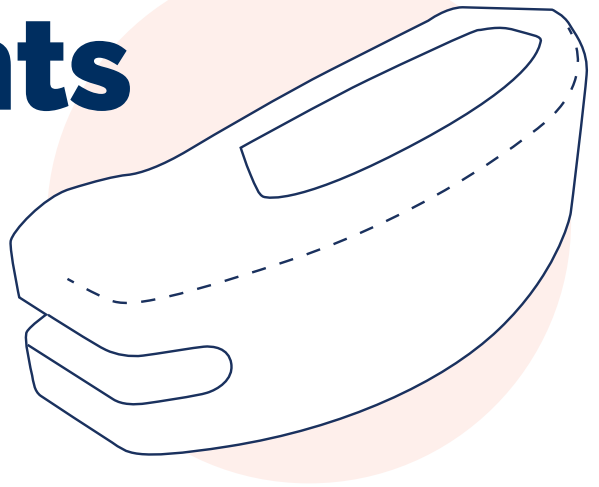
Release distraction and perform a final X-Ray check.

10 | SUPPLEMENTARY POSTERIOR FIXATION

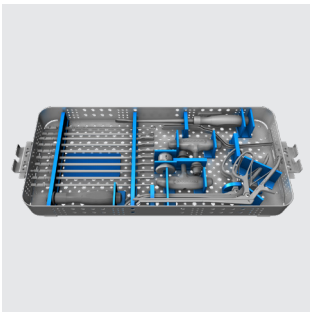
Posterior fixation is required to place the treated segment under compression and to enhance the stability of the Idys-TLIF 3DTi Cage.



Instruments



Instruments IDYS-TLIF



IDYS-LIF COMMON INSTRUMENT TRAY

04990010 LIF Base
04990019 Instrument Lid



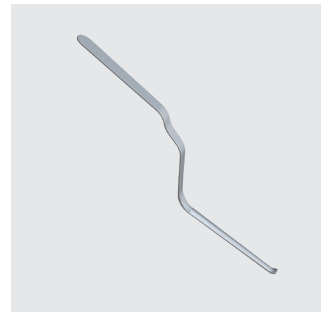
IDYS-TLIF CONTAINER

04990036 TLIF Base
04990037 Instrument Lid
04990034 Rack TLIF Trial L29mm
04990035 Rack TLIF Trial L33mm



OSTEOTOME

04705010



NERVE ROOT RETRACTOR

04781006



DISC RONGEUR

06708001 Straight
06708002 Angled
06708003 45°



CURETTE

04704015



STRAIGHT CURETTE

04704005 5mm



CURVED CURETTE

06704015 5mm



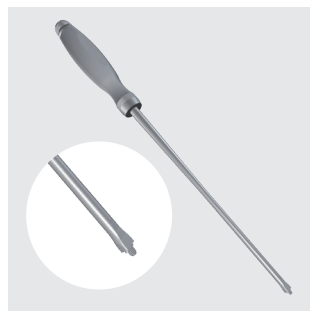
RIGHT CUP CURETTE

06704105



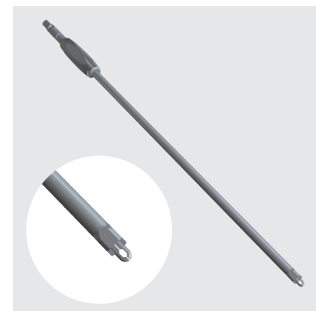
LEFT CUP CURETTE

06704205



TLIF TRIAL INSERTER

06715003



TLIF CAGE HOLDER

06715002



SLAP HAMMER

04762000



TLIF FILLING SUPPORT

06717003



TLIF GRAFT IMPACTOR

31761000



TLIF CAGE PUSHER

06761002
06761003

**Straight
Curved**



CYLINDRICAL HANDLE

99782003



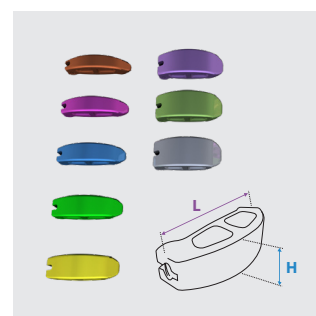
**CANNULATED
T-HANDLE**

99781001



SHAVER

04707007	H07mm
04707008	H08mm
04707009	H09mm
04707010	H10mm
04707011	H11mm
04707012	H12mm
04707013	H13mm
04707014	H14mm
04707015	H15mm
04707016	H16mm



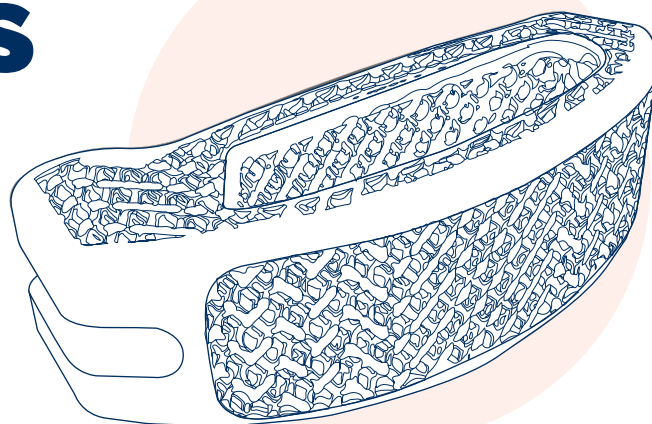
TLIF TRIALS L33MM 0°

06714507	H07mm
06714508	H08mm
06714509	H09mm
06714510	H10mm
06714511	H11mm
06714512	H12mm
06714513	H13mm

Implants

Sterile

Product availability may vary upon markets. Please check with your Clariance representative.



TLIF 3DTi - L29MM

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

TLIF 3DTi - L33MM

	H07mm	H08mm	H09mm	H10mm	H11mm
L33mm	31573307-S	31573308-S	31573309-S	31573310-S	31573311-S
	H12mm	H13mm	H14mm	H15mm	H16mm
L33mm	31573312-S	31573313-S	31573314-S	31573315-S	31573316-S





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