



Idys[®] - **PLIF**

POSTERIOR INTERBODY FUSION



Surgical technique - USA

Idys[®] – PLIF

POSTERIOR INTERBODY FUSION



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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.



The **nerve root retractor** is used to protect the surrounding nerve structures throughout the surgical procedure.



RECOMMENDATION:

It is advisable to preserve the facet joints in order to guarantee the stability of the treated segment and minimize disruption to adjacent segments.

OSTEOTOME

04705010



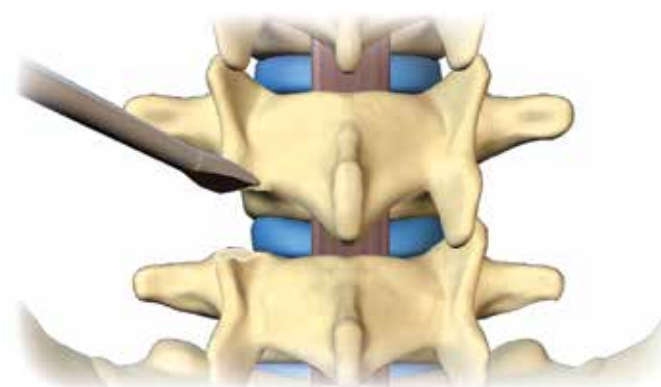
NERVE ROOT RETRACTOR

04781006



1 | DISC EXPOSURE

Access to the disc space is obtained by performing a bilateral lamino-facetectomy using **the osteotome**. 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.*

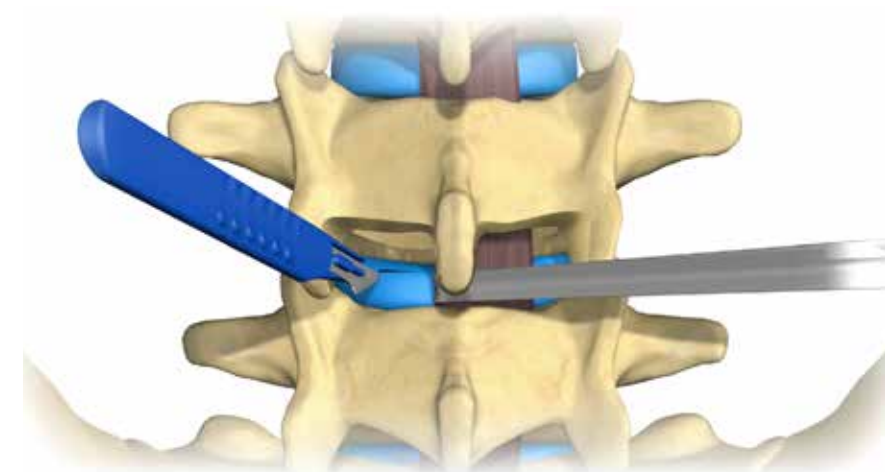
2 | DISTRACTION

Progressive distraction tension is applied in accordance with the surgeon's habits and preferences;

This maneuver temporarily opens the posterior disc space and promotes increased exposure for discectomy, decompression and delivery of the implant.

3 | DISCECTOMY

A window is created in the intervertebral disc using a scalpel.



T-HANDLE

99781001



SHAVERS

047070xx

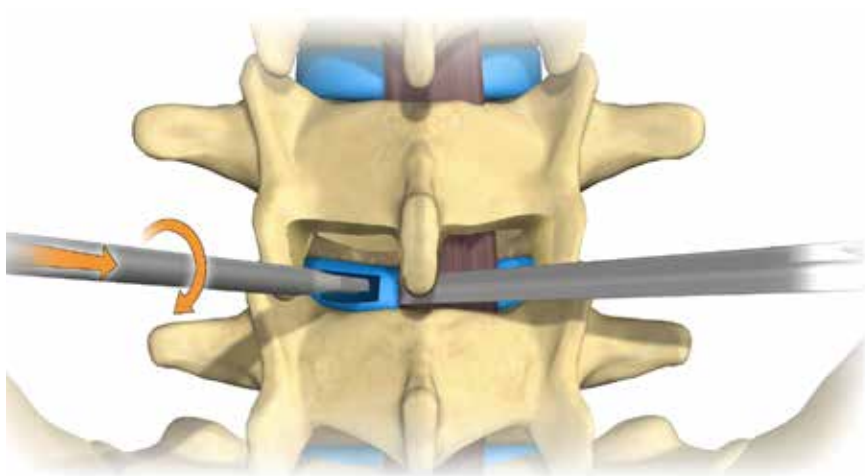


DISC RONGEUR

06708001



- **Rounded shavers** are used in rotation to start the discectomy and gradually restore the disc height.
- Shavers are available in heights ranging from 7 - 14mm in 1mm increment.



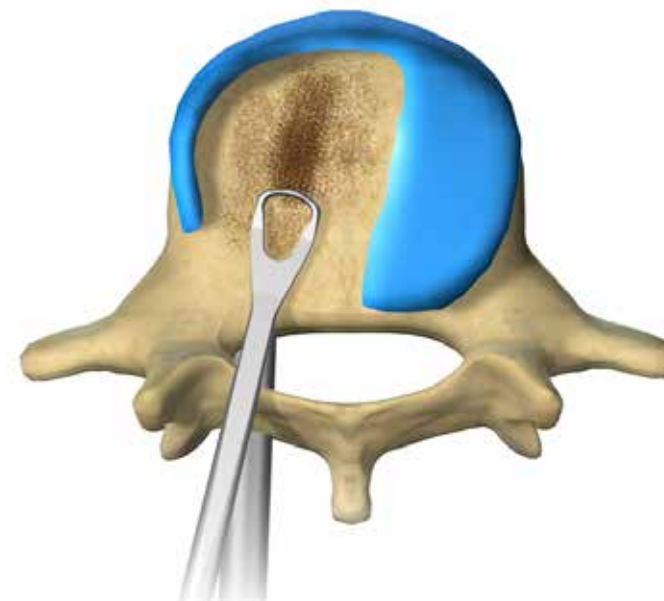
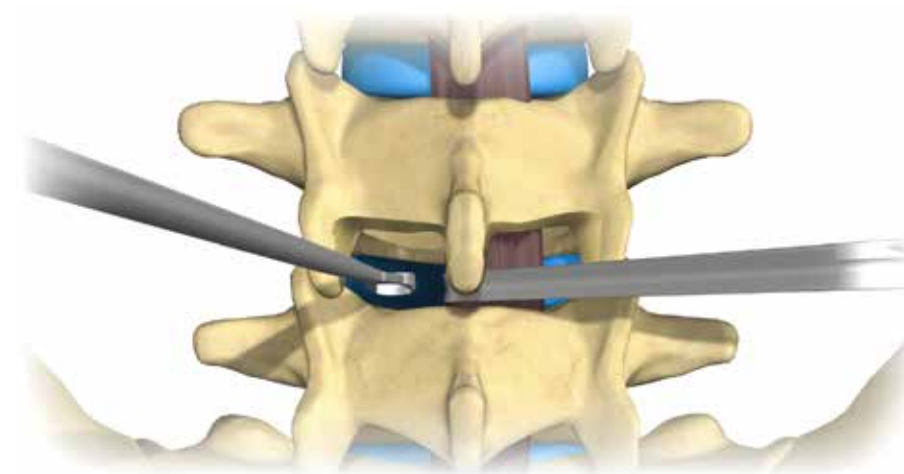
- The disc material is removed using **disc rongeurs**.



When possible, the anterior and lateral walls of the annulus are preserved in order to provide additional stability for the cages.

4 | ENDPLATE PREPARATION

- The endplates are prepared using **the curette** and **the cup curette** to remove the remaining layers of the entire cartilaginous endplates and expose bleeding bone.



RECOMMENDATION:

Thorough cleaning of the endplates is important for the vascular supply of the bone graft. Caution : a too aggressive endplate preparation can fragilize cortical bone and thus weaken the vertebral endplates.

CURETTE

04704015



CUP CURETTE

04704005



PLIF TRIALS

04714xxx



PLIF CAGE HOLDER

04715002



SLAP HAMMER

04762000



5 | CAGE SELECTION

RECOMMENDATION:

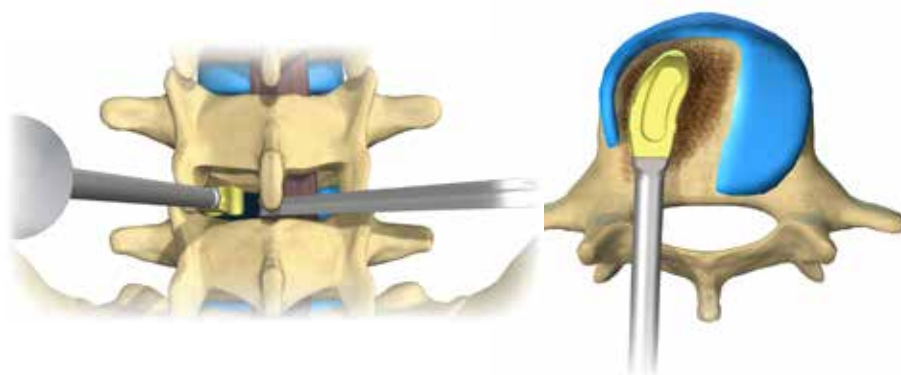
The size and height of the final implant are determined by selecting the trial that restores the desired disc height and lumbar lordosis of the treated segment.

The **trial** is connected and secured to the PLIF cage holder by turning the locking knob clockwise.



The trial is then inserted in the intervertebral space using a surgical mallet.

The trial is not dissociated from the PLIF cage holder.



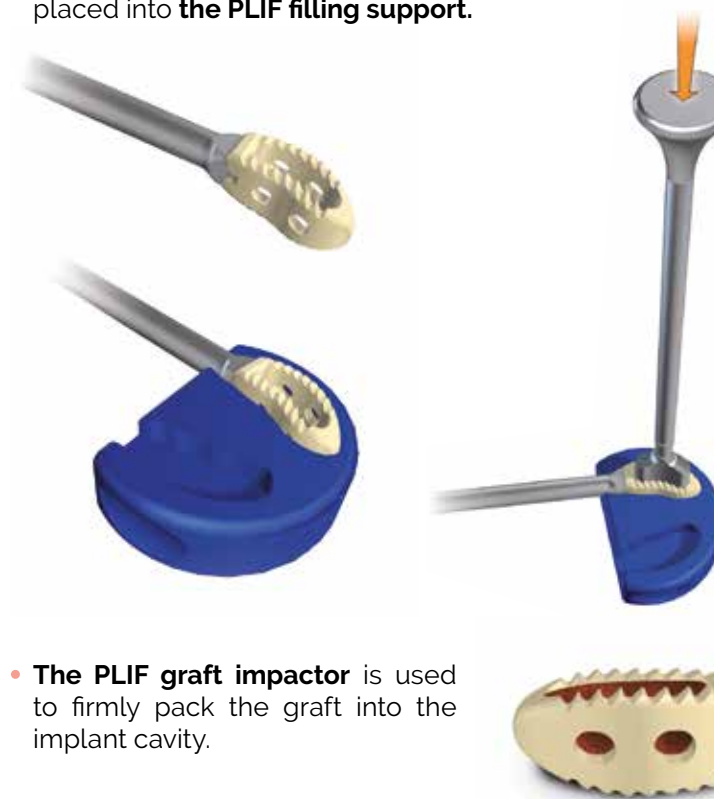
Distraction is momentarily released and an X-ray check is performed to verify the trial position and validate the size and height of the final implant.

Distraction is re-established and the trial is removed using **the slap hammer**.

The PLIF cage holder is disconnected from the trial by completely turning the locking knob.

6 | IMPLANT PREPARATION

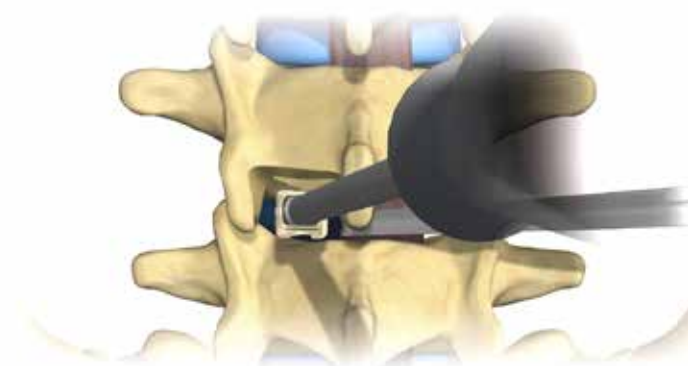
- The selected cage is connected to **the PLIF cage holder** and placed into **the PLIF filling support**.



- The PLIF graft impactor** is used to firmly pack the graft into the implant cavity.

7 | CAGE INSERTION

The prepared cage is inserted into the intervertebral space with light impactions. When inserting the cage, the PLIF cage holder must be turned medially to ensure that the tip of the cage is facing the entry point. During cage impaction, the PLIF cage holder must be held straight so that the implant is inserted into the disc space laterally.



Important:

It is important to completely fill the implant cavity in order to ensure optimal contact between the graft material and the vertebral endplates.

PLIF CAGE HOLDER

04715002



PLIF FILLING SUPPORT

04717003

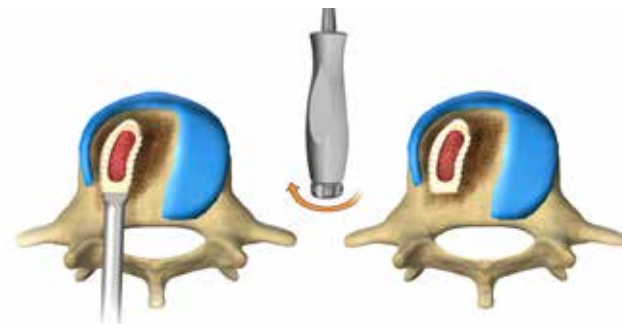


PLIF GRAFT IMPACTOR

04761001



- An X-ray check is performed and the cage is disconnected.



8 | INSERTION OF THE SECOND CAGE

The opposite side is prepared as described in steps 2 to 6 and the second cage is inserted similarly.



RECOMMENDATION:

Prior to insertion of the second cage, graft can be inserted between the two implants.

9 | FINAL POSITIONING OF THE CAGES

- If needed, the **PLIF cage impactor** may be used to adjust the position and the depth of the cage within the intervertebral space.

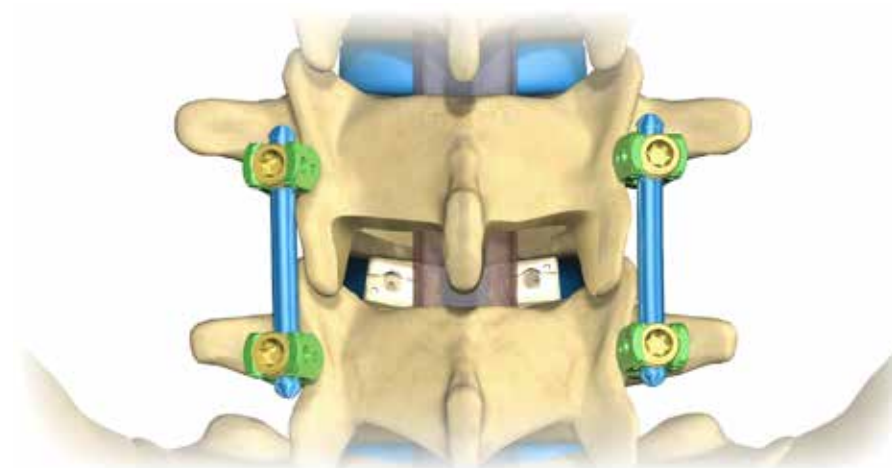


- Distraction is released and a final X-ray check is performed.



10 | SUPPLEMENTARY POSTERIOR FIXATION

Posterior fixation is required to place the treated segment under compression and to enhance the stability of the cages.

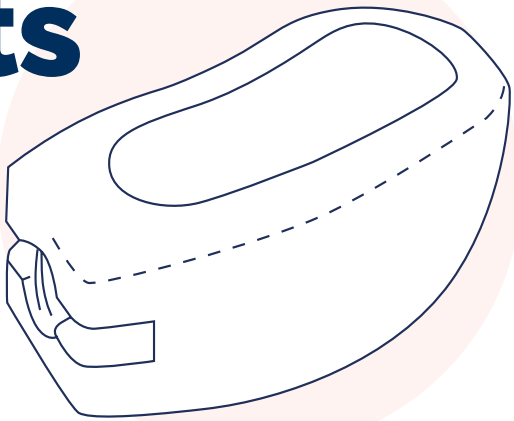


PLIF CAGE IMPACTOR

04716001



Instruments



Idys- PLIF Instruments



IDYS- LIF INSTRUMENT TRAYS

04990030 LIF Base
04990047 LIF Base Lid



IDYS-PLIF/PTLIF INSTRUMENTS TRAYS

04990040 PLIF/PTLIF
Instruments Base
04990042 PLIF/PTLIF
Instruments Base Lid



OSTEOTOME

04705010



NERVE ROOT RETRACTOR

04781006



DISC RONGEUR

06708001 Right



CURETTE

04704015



CUP CURETTE

04704005 5mm



PLIF CAGE HOLDER

04715002



SLAP HAMMER

04762000



PLIF FILLING SUPPORT

04717003



PLIF GRAFT IMPACTOR

04761001 L25mm



PLIF CAGE IMPACTOR

04716001



CYLINDRICAL HANDLE

99782003



T-HANDLE

99781001



SHAVERS

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

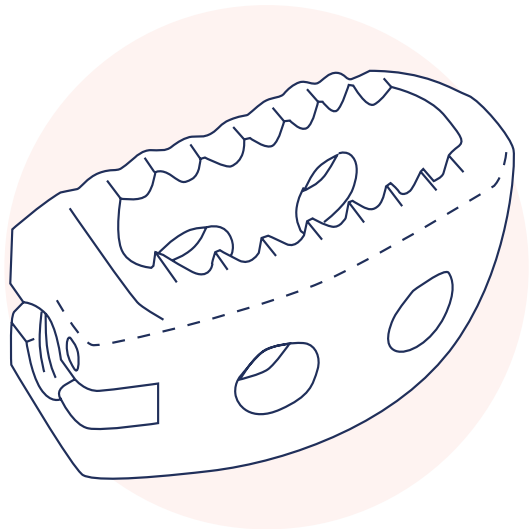


PLIF TRIALS L25MM

04714309 H09mm
04714310 H10mm
04714311 H11mm
04714312 H12mm
04714313 H13mm
04714314 H14mm

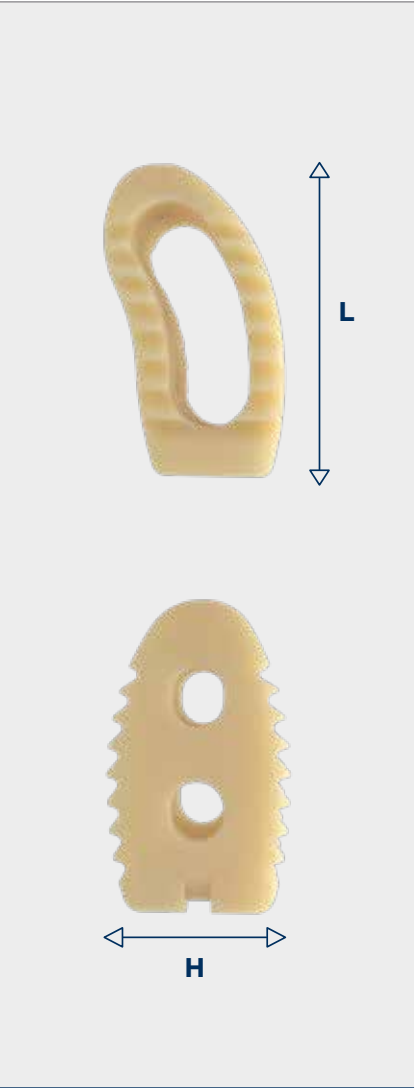
Sterile Implants

Product availability may vary upon markets. Please contact your Clariance representative.



PLIF - L25MM

	H09mm	H10mm	H11mm	H12mm	H13mm
L25mm	04522509-S	04522510-S	04522511-S	04522512-S	04522513-S
H14mm	-	-	-	-	-
	04522514-S	-	-	-	-





Clariance, Inc.

2547 Farrington Street Dallas, TX 75207

T : +1 773-832-7554

F : +1 773-904-2348

contact@clariance-spine.us

Clariance SAS

18 Rue Robespierre

62217 Beaurains France

T : +33 (3) 21 16 12 15

F : +33 (3) 21 15 50 73

contact@clariance-spine.com

www.clariance-spine.com