# Idys™-PLIF

Designed for the spine

FUSION TECHNOLOGIES

CLARIANCE
innovation for spine surgery

# Contents



# Introduction

**The Idys™-PLIF cage has been designed by a team with extensive experience in the development of spinal instrumentation. Made of PEEK, the Idys™-PLIF cage is specially designed for lumbar and lumbo-sacral interbody fusion via a bilateral posterior approach.**
**The design team focused on creating a PLIF cage suited to the vertebral endplates anatomy that would maintain disc height, restore lumbar lordosis and stabilize the treated segment. Thus, Idys™-PLIF creates the most favorable conditions to optimize bone fusion.**
**Its complete and ergonomic instrumentation meets the spine surgeon's need for reliability, safety and ease of use during surgical practice.**

› *Indications:*

Lumbar degenerative discopathies and instabilities

Grade I or II spondylolisthesis, with or without stenosis

Pseudarthrosis or fusion failure

*Caution : The use of the Idys™-PLIF cage must be systematically associated with a posterior fixation device (Erisma™-LP). For greater convenience, the pedicle screws can be inserted before or after the Idys™-PLIF cages are implanted.*

# Features & Benefits

### Anatomical shape

› The convex shape of the Idys™-PLIF cage is perfectly adapted to the anatomy of the vertebral endplates. This shape allows restoration of the chosen disc height as well as lumbar lordosis of the treated segment. Close contact with the vertebral endplates provides effective integration and excellent stability of the implant within the intervertebral space.

### Self-distracting tip

› The self-distracting tip of the Idys™-PLIF cage allows progressive distraction of the vertebral endplates in order to facilitate insertion and offer excellent penetration of the cage in the intervertebral space.

### Grafting space maximized

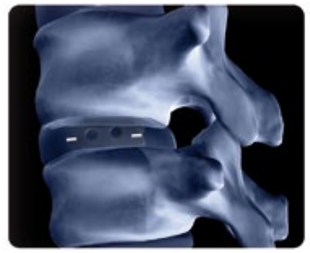
› The size of the fusion chamber is optimized to offer maximal contact between vertebral endplates and grafts. Bone fusion is thereby promoted and fusion spaces are larger. Lateral side holes enable good graft vascularization.





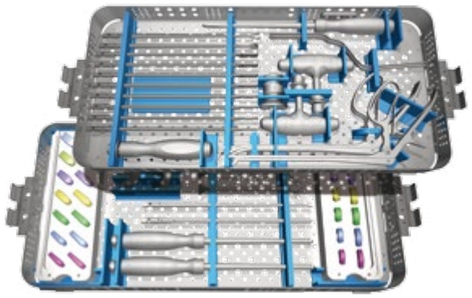
### X-ray markers (Tantalum)

› X-ray markers allow verification of the cage position during surgery and postoperative clinical follow-up. Fusion can be assessed and controlled during clinical follow-up thanks to the radioluency of the PEEK material.



### Ergonomic instrumentation

› The simple, intuitive and ergonomic instrumentation of the Idys™-PLIF cage guarantees accurate, quick and safe maneuvers to surgeons.



### Versatile instrumentation

› Instrumentation is adaptable and can be used with different types of surgical techniques, including PLIF or PTLIF.

# Surgical Technique

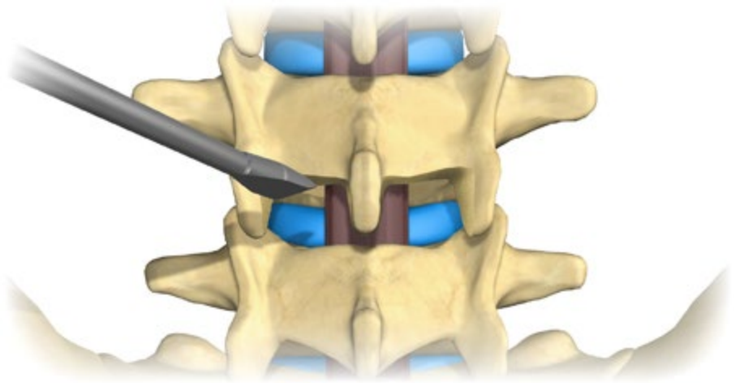
1. Disc exposure
2. Distraction
3. Discectomy
4. Endplate preparation
5. Implant sizing
6. Implant preparation
7. Implant insertion
8. Insertion of the second cage
9. Final positioning
10. Supplementary posterior fixation

*In line with all necessary safety protocols, the patient is positioned on the operating table in the prone position. The final positioning of the patient and surgical approach are based on known techniques, routinely used by surgeons.*

## Disc exposure

1

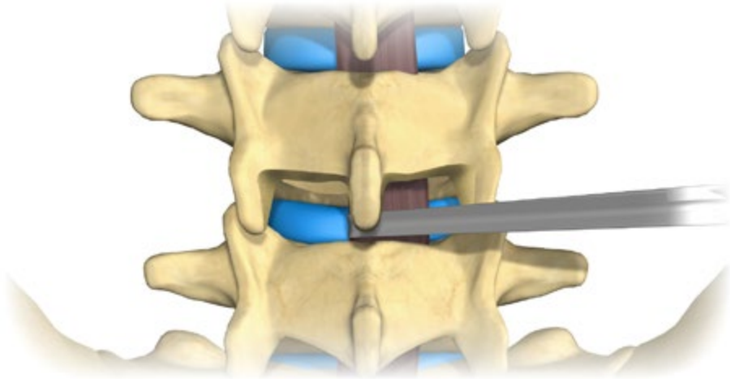
Access to the disc space is obtained by performing a bilateral lamino-facetectomy using the osteotome.
Resection must be sufficient to allow access of the instruments and insertion of the cage into the disc space.



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

04705010 OSTEOTOME

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



04781006
NERVE ROOT RETRACTOR

## Distraction

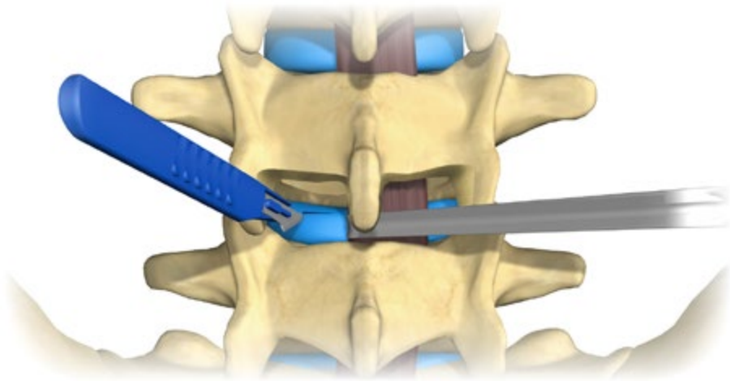
2

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.

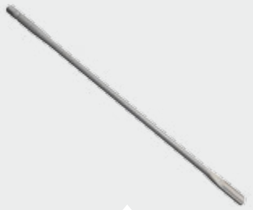
## Discectomy

3

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



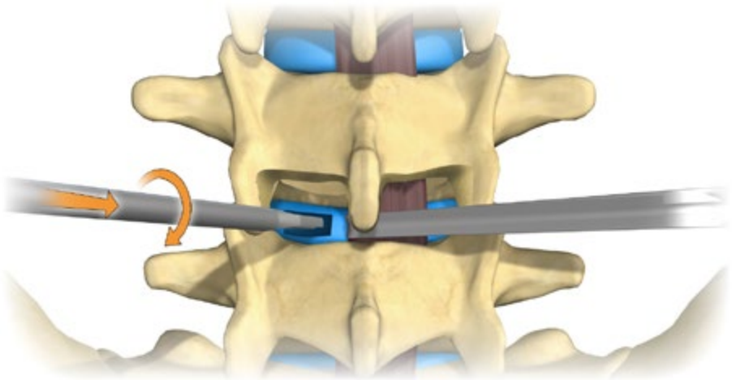
HANDLES



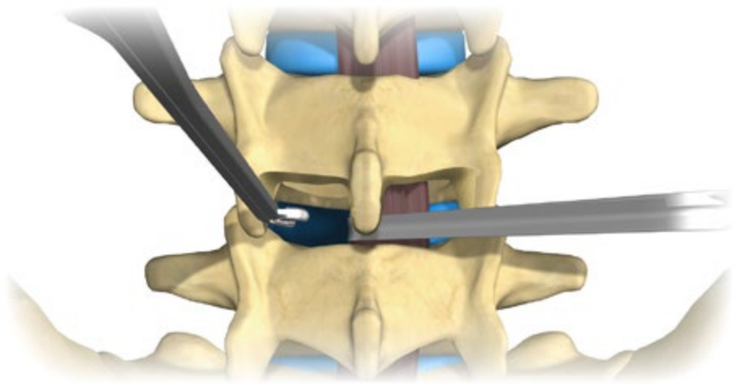
047070XX SHAVER

06708001
STRAIGHT DISC RONGEUR

[Shavers](#) are used in rotation to start the discectomy and gradually restore the disc height. Shavers come in sequential heights from 6mm to 14mm, increasing in 1 mm increments.



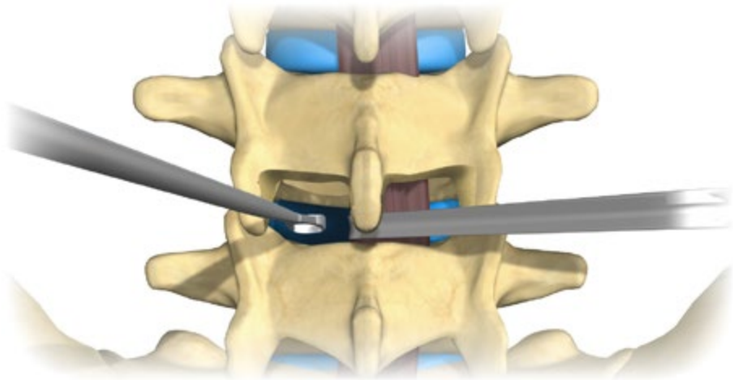
The disc material is removed using the [disc rongeur](#).



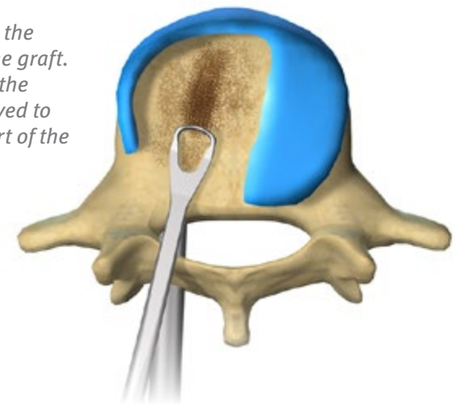
*When possible, the anterior and lateral walls of the annulus are preserved in order to provide additional stability for the two Idys™-PLIF cages.*

## Endplate preparation 4

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.



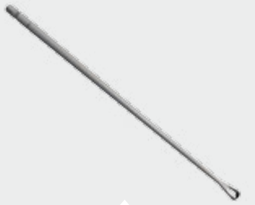
*Thorough cleaning of the endplates is important for the vascular supply of the bone graft. The structural integrity of the endplates must be preserved to allow for structural support of the cage.*



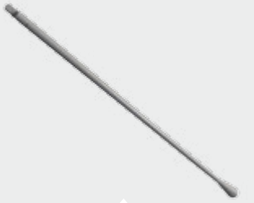
## Implant sizing 5

*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.



04704015 CURETTE

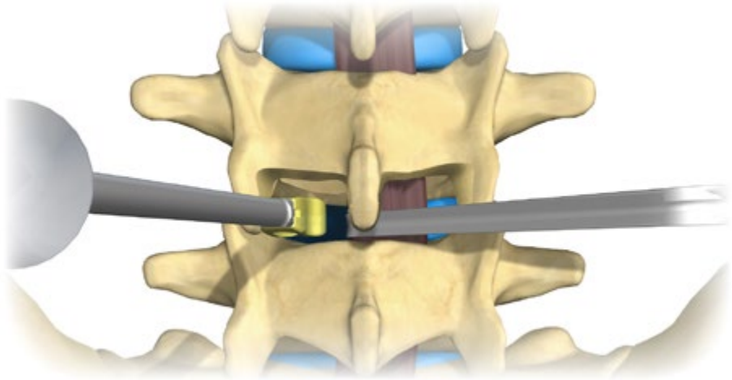


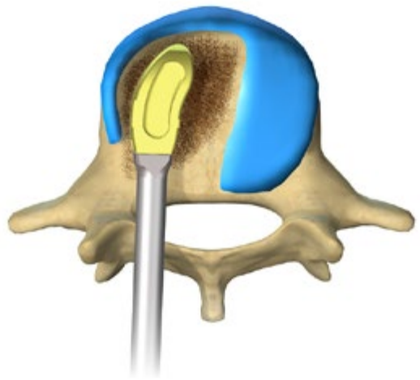
04704005 CUP CURETTE

04714XXX PLIF TRIAL

04715002 PLIF CAGE HOLDER

The trial is then inserted in the intervertebral space using a surgical mallet. The trial is not dissociated from the PLIF cage inserter.





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.

04762000 SLAP HAMMER

## Implant preparation

6

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

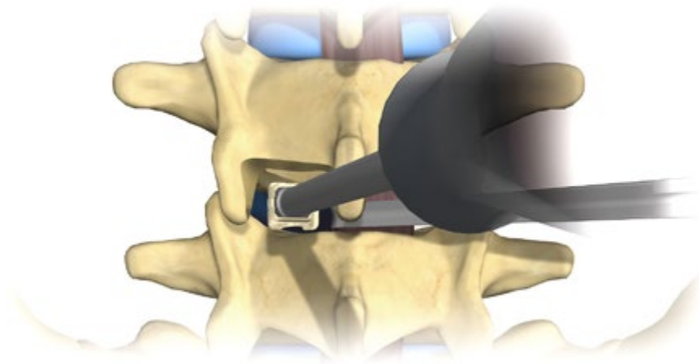
The selected cage is connected to the PLIF cage holder and placed into the PLIF filling block.

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

## Implant insertion

7

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.

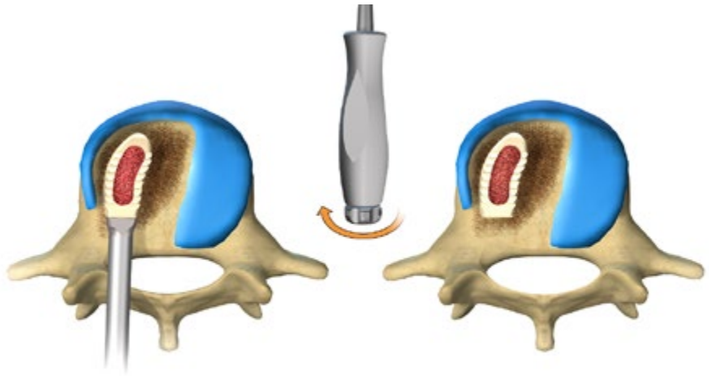


04715002 PLIF CAGE HOLDER

04717003
PLIF FILLING BLOCK

0476100X
PLIF GRAFT IMPACTOR

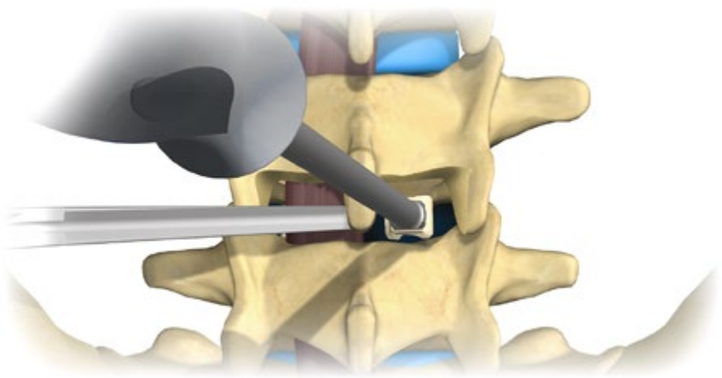
An X-ray check is performed and the cage is disconnected.



## Insertion of the second cage

8

The opposite side is prepared as described in steps 2 to 5 and the second cage is inserted similarly.



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

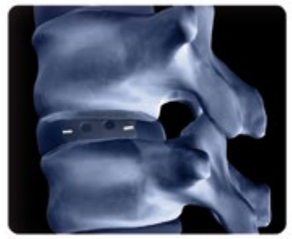
## Final positioning

9

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

04716001
PLIF CAGE PUSHER

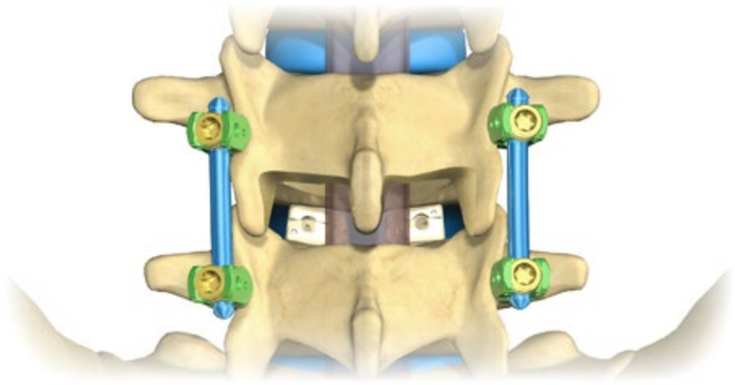
Distraction is released and a final X-ray check is performed.



## Supplementary posterior fixation

10

Posterior fixation (Erisma™-LP) is required to place the treated segment under compression and to enhance the stability of the Idys™-PLIF cages.



# Product Catalogue

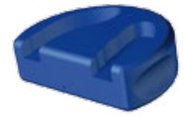
**OSTEOTOME** 04705010

**NERVE ROOT RETRACTOR** 04781006

**SHAVER**

| | |
|---|---|
| Ø 6mm | 04707006 |
| Ø 8mm | 04707008 |
| Ø 9mm | 04707009 |
| Ø 10mm | 04707010 |
| Ø 11mm | 04707011 |
| Ø 12mm | 04707012 |
| Ø 13mm | 04707013 |
| Ø 14mm | 04707014 |

**SLAP HAMMER** 04762000



**PLIF FILLING BLOCK** 04717003

**PLIF GRAFT IMPACTOR**

| | |
|---|---|
| L. 20mm | 04761000 |
| L. 25mm | 04761001 |

STRAIGHT DISC RONGEUR 06708001

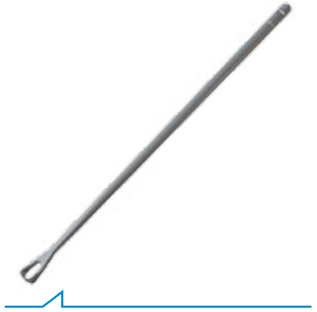
**CURVED DISC RONGEUR** 06708002

**DISC RONGEUR 45°** 06708003

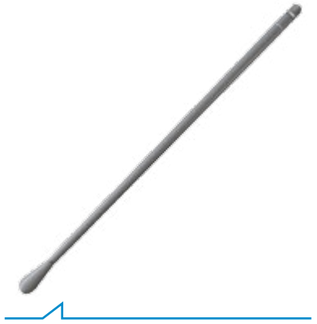
**PLIF CAGE PUSHER** 04716001

**CAGE PUSHER** 04716002

**CYLINDRICAL HANDLE LARGE** 99782003



**CURETTE** 04704015

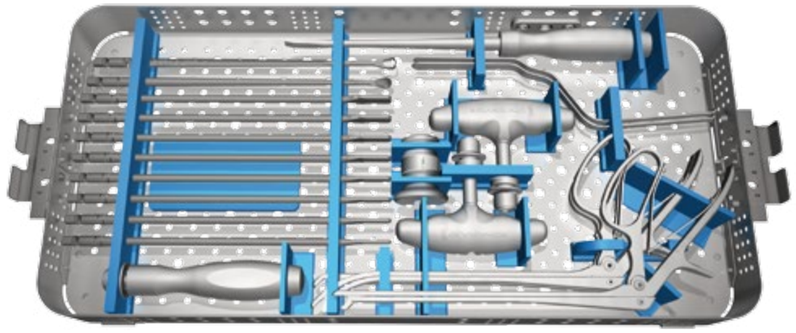


**CUP CURETTE** 04704005

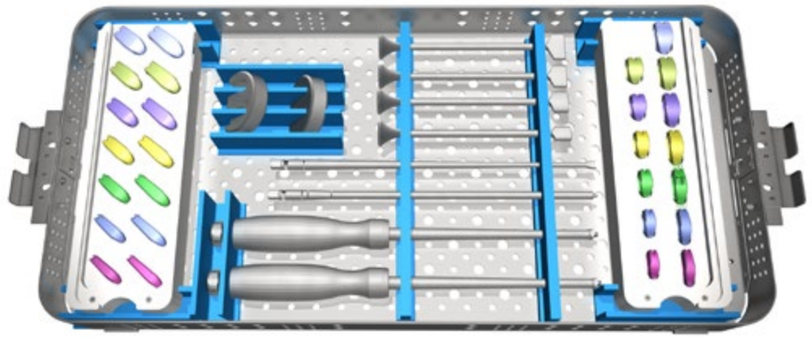
**PLIF CAGE HOLDER** 04715002

**T-HANDLE** 99781001

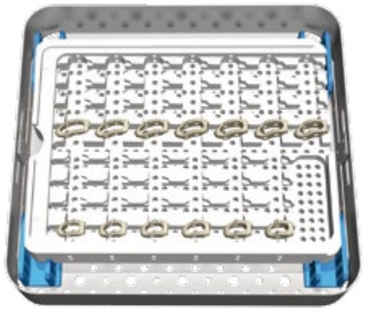
# Product Catalogue



| | |
|---|---|
| **IDYS COMMON INSTRUMENTS TRAY** | 04990010 |

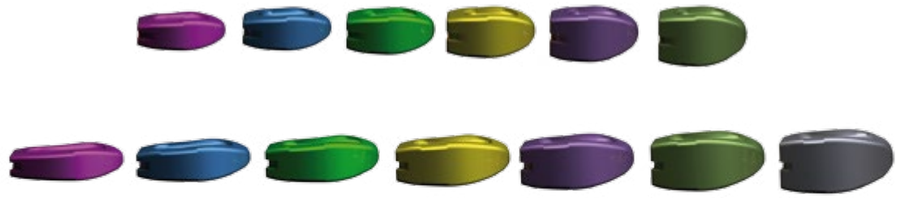


| | |
|---|---|
| **IDYS PLIF / PTLIF INSTRUMENTS TRAY** | 04990011 |
| **LID FOR IDYS PLIF / PTLIF INSTRUMENTS TRAY** | 04990013 |
| **PTLIF TRIALS TRAY** | 04990016 |
| **PLIF TRIALS TRAY** | 04990015 |



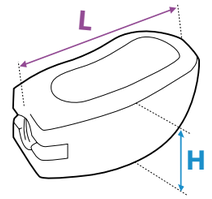
| | |
|---|---|
| **IDYS PLIF / PTLIF IMPLANTS TRAY** | 04990020 |
| **LID FOR IDYS PLIF / PTLIF IMPLANTS TRAY** | 04990027 |

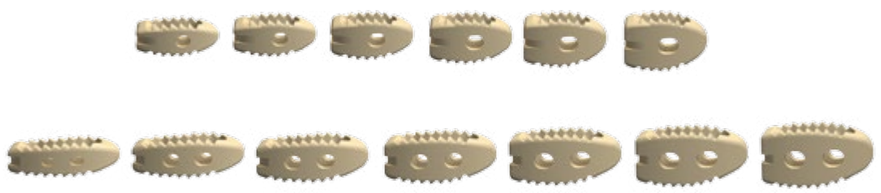




| **TRIALS** | **L 20 MM** |
|---|---|
| **H 08 mm** | 04714208 |
| **H 09 mm** | 04714209 |
| **H 10 mm** | 04714210 |
| **H 11 mm** | 04714211 |
| **H 12 mm** | 04714212 |
| **H 13 mm** | 04714213 |

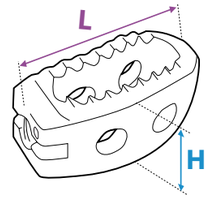
| **TRIALS** | **L 25 MM** |
|---|---|
| **H 08 mm** | 04714308 |
| **H 09 mm** | 04714309 |
| **H 10 mm** | 04714310 |
| **H 11 mm** | 04714311 |
| **H 12 mm** | 04714312 |
| **H 13 mm** | 04714313 |
| **H 14 mm** | 04714314 |



| **PLIF CAGE** | **L 20 MM** |
|---|---|
| **H 08 mm** | 04522008 |
| **H 09 mm** | 04522009 |
| **H 10 mm** | 04522010 |
| **H 11 mm** | 04522011 |
| **H 12 mm** | 04522012 |
| **H 13 mm** | 04522013 |

| **PLIF CAGE** | **L 25 MM** |
|---|---|
| **H 08 mm** | 04522508 |
| **H 09 mm** | 04522509 |
| **H 10 mm** | 04522510 |
| **H 11 mm** | 04522511 |
| **H 12 mm** | 04522512 |
| **H 13 mm** | 04522513 |
| **H 14 mm** | 04522514 |



**The surgical technique shown is for illustrative purposes only. The technique actually employed in each case will always depend upon the medical judgment of the surgeon exercised before and during surgery as to the best mode of treatment for each patient. It is recommended to see the package insert for the complete list of indications, warnings, precautions, and other medical information.**

CLARIANCE
18, Rue Robespierre
62217 Beaurains - FRANCE
Tel +33 (0)3 21 16 12 15
Fax +33 (0)3 21 15 50 73

CE 0434

18, Rue Robespierre
62217 Beaurains - FRANCE
Tel +33 (0)3 21 16 12 15
Fax +33 (0)3 21 15 50 73
contact@clariance-spine.com
www.clariance-spine.com

**Distributed by**





CLARIANCE
innovation for spine surgery