



Idys[®] - **LLIF**

LATERAL INTERBODY



Surgical Technique - USA



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Idys[®]-LLIF

LATERAL INTERBODY



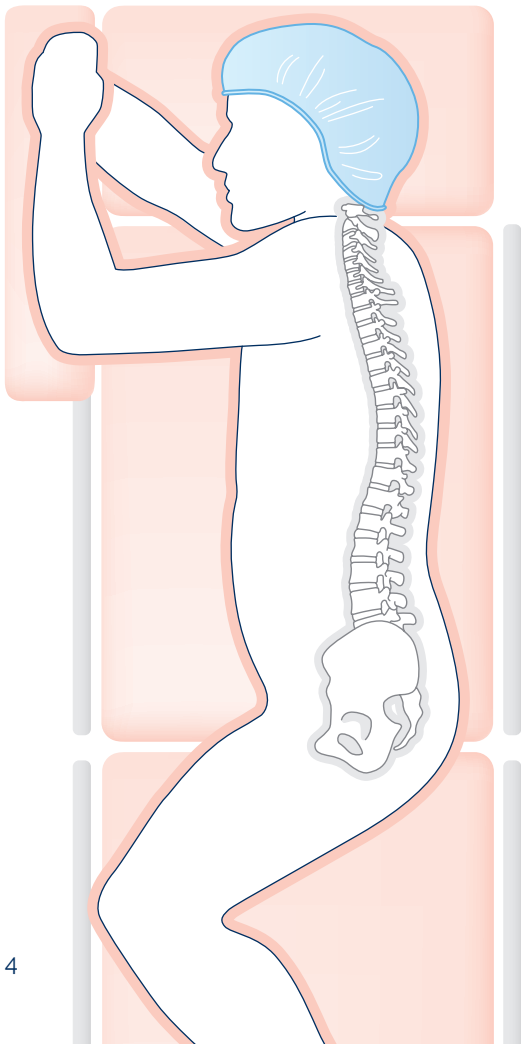
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Surgical Technique

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.

- Refer to the Idys-LLIF 3DTi Instructions for Use for details on indications and contraindications.



1 | PATIENT PREPARATION

- Place the patient in a right lateral decubitus position on the operating table (left side up).
- Secure the patient in position.
- Use fluoroscopy to ensure the spine is oriented in the right lateral position.

Under fluoroscopy :

- Identify the disc space of concern.

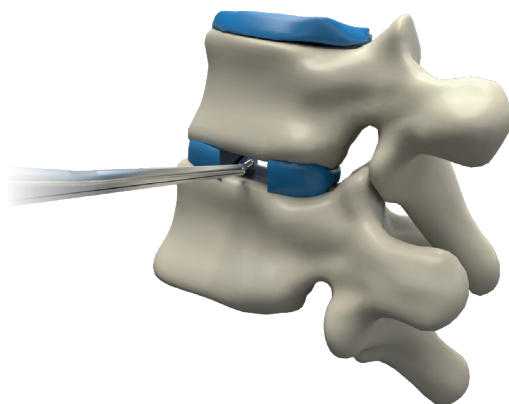
Retraction :

- Refer to the lateral retractor guide for instruction.

*Patient has to be placed in **right lateral decubitus position** due to the asymmetric shape of Idys-LLIF Cage.*

2 | DISCECTOMY

- Using a scapel, cut a rectangular window the width of the **Idys-LLIF 3DTi Cage** into the intervertebral disc.
- Separate the disc from the superior and inferior endplates with the **Cobb Elevator**.
- Use the **Disc Rongeur** to remove the disc fragments.



COBB ELEVATOR

720-1834-0
720-1838-0f



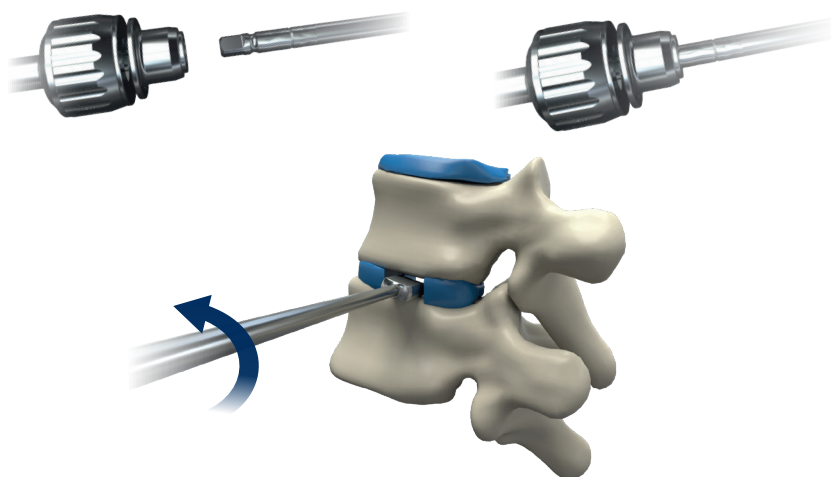
DISC RONGEUR STRAIGHT (4-8MM) ANGLED 30° DISC RONGEUR (8MM)

24708xxx
24708132



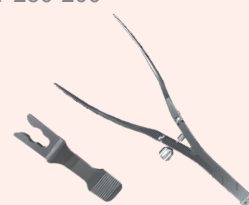
3 | SEGMENT DISTRACTION

- Use the **Modular Spine Distractor** or **Rounded Distractor** to open the disc space and gradually restore the disc height.
- Push the buttons on the distal end of the Modular Spine Distractor and slide the **Finger Pads** in place to assemble.
- Connect the Rounded Distractor to the **Cannulated T-Handle**.



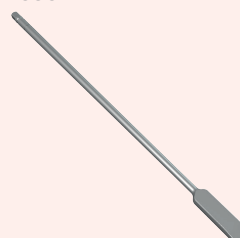
MODULAR SPINE DISTRACTOR FINGER PAD

21-250-H-5P
21-250-200



ROUNDED DISTRACTOR

247090xx



Rounded Distractors are available in heights ranging from 6 - 18mm in 2mm increments.

CANNULATED T-HANDLE

99781001



CURETTE

710-1800-0C
710-1800-1C
710-1804-0
710-1806-1



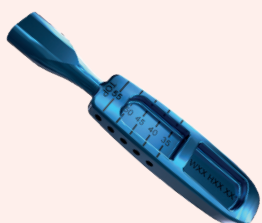
CAGE HOLDER

45715000



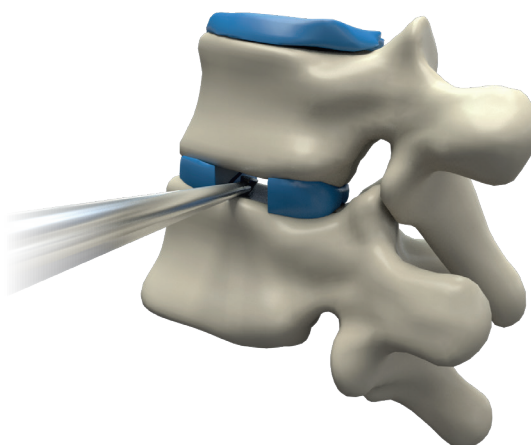
TRIAL

517xxxxx



4 | ENDPLATE PREPARATION

- Use the **Curette** to prepare the endplates, further excising the disc material and removing the cartilaginous layer from the endplates.



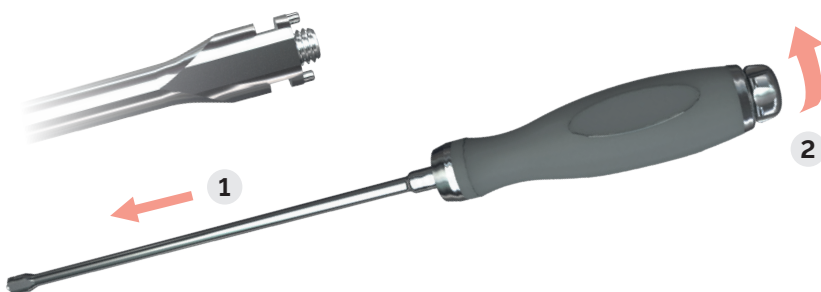
This is to improve vascularization of the implanted bone graft.

5 | TRIAL SELECTION

- Slide the rod inside the **Cage Holder**.



- Screw in the rod until the tip is outside the Cage Holder.



Trials are color coded according to their height.



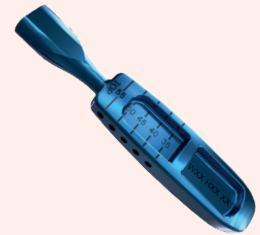
After selecting the Trial:

- Insert the tip of the Cage Holder in the Trial.
- Rotate the knob of the Cage Holder clockwise until it is firmly tightened.



TRIAL

517xxxxx



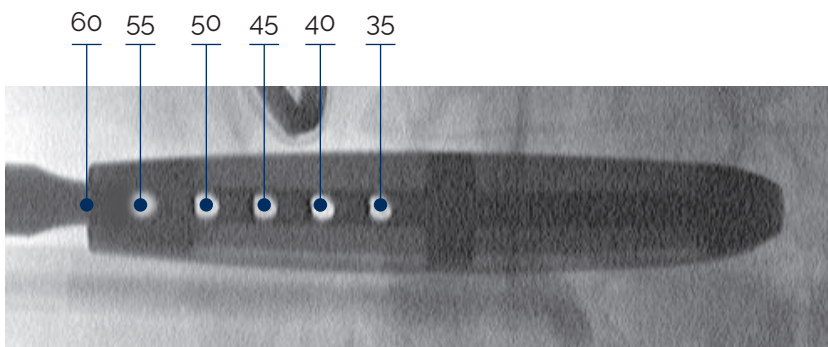
6 | TRIAL INSERTION

- Insert the Trial into the intervertebral space, with the "TOP" of the Trial facing cranially.
- Lightly impact with the **Slap Hammer** under fluoroscopy, until the tip of the Trial reaches the opposite side of the vertebral body.



Verify the position of the Trial via X-Ray.

- Confirm the appropriate lordotic angle and disc height via X-Ray.
- Determine the desired length (35, 40, 45, 50, 55 or 60mm) using the holes in the Trial.



- Remove the Trial from the intervertebral space.

CAGE

51xxx-S

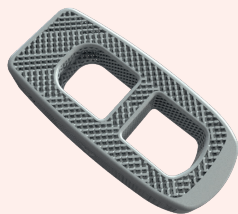


PLATE (H07-H15mm)

51430xx



LLIF GUIDE

517060xx



T15 TIGHTENING WRENCH

51720001



7 | IMPLANT PREPARATION

- Select the **Plate** corresponding with the height of the Cage. The appropriate Plate will be the same color as the Trial.



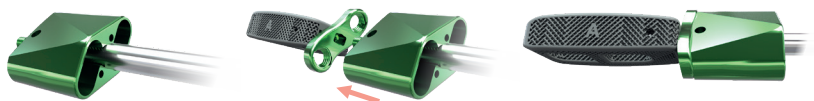
Left to Right:
H07-H09-H11-H13-H15

- Snap the Plate onto the Cage.
- The Plate should be flush against the Cage.



8 | CAGE/PLATE/GUIDE ASSEMBLY

- **LLIF Guides** are color coded according to the height of the Trial.
- Select the Guide which has the same color as Plate.
- Assemble the Guide on the Cage/Plate. Secure the Guide with the **T15 Tightening Wrench**.



9 | CAGE HOLDER ASSEMBLY

- Insert the tip of the Cage Holder in the Guide, aligning the two prongs of the Cage Holder with the two holes on the Guide.



- Rotate the knob of the Cage Holder clockwise until it is firmly tightened to the Guide.



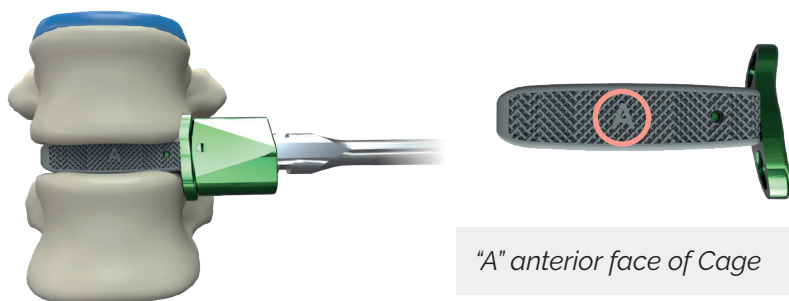
10 | CAGE PACKING

- Place the Cage in the **Filling Block**.
- Use the **Graft Impactor** that corresponds with the length of the Cage to firmly pack the graft materials into the cavities of the Cage.



11 | IMPLANT INSERTION

- With the Cage Holder, insert the Cage/Plate/Guide assembly into the intervertebral disc space, with the "A" on the Cage facing anteriorly.



- Impact with the Slap Hammer until the Plate is flush with the vertebral body.

IMPORTANT :

When connecting the **Cage Holder** to the Guide, ensure that the tip of the rod is protruding from the Cage Holder for proper connection to the Guide.



GRAFT IMPACTOR

51716100x



FILLING BLOCK

51717000



CYLINDRICAL HANDLE

99782001



T20 TIGHTENING WRENCH

4572000



VERTEBRAL SCREW Ø5mm

240205xx-S

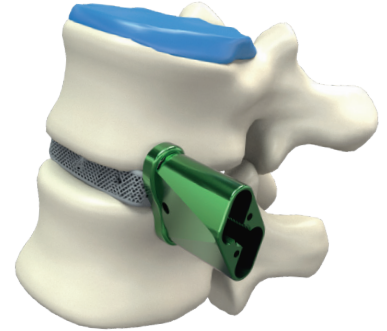


RECOMMENDATION:

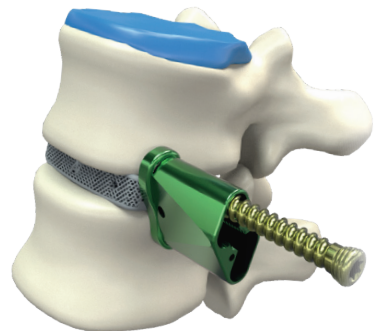
Screw insertion must be done through the **Guide** to ensure proper locking of the Screw to the **Plate**. Two Screws should always be used with Idys-LLIF 3DTi **Cage**.

12 | IMPLANT FIXATION

- Disconnect the Cage Holder by rotating the knob counterclockwise.
- Connect the **Cylindrical Handle** to the **T20 Tightening Wrench**.



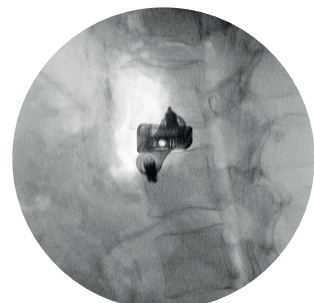
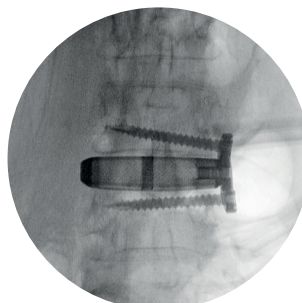
- Select the appropriate **Screw** length according to the patient's anatomy.
- Use the T20 Tightening Wrench to insert the Screws into the Plate.
- Screw-locking is obtained when the head of the Screw is completely inserted into the Plate.



Due to the angle of the Guide and sleeve of the Plate, each Screw has a cranio-caudal angle of 0 to 15 °, but it is limited in the anterior and posterior direction.

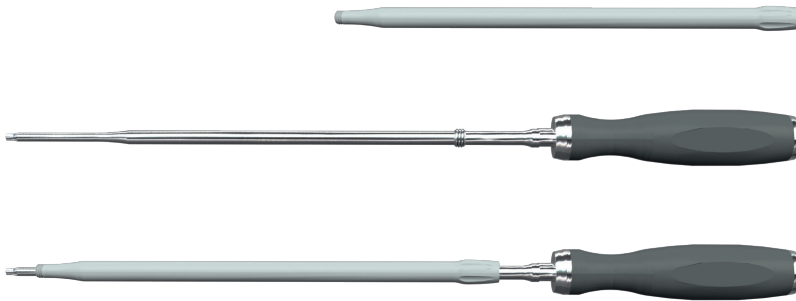
13 | FINAL CHECK

Perform a final X-Ray check to verify the final positioning of the Cage, Plate and two Screws in the AP and lateral positions.

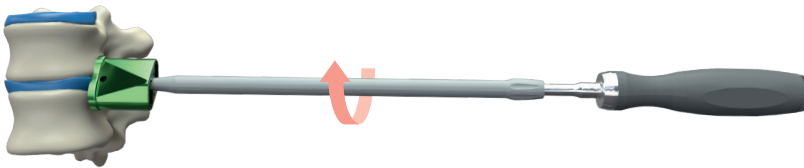


14 | GUIDE REMOVAL

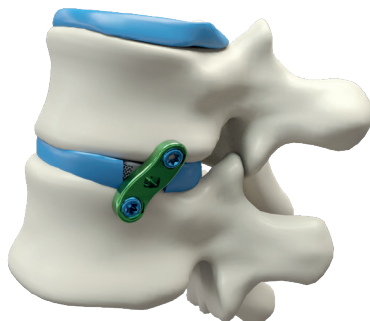
- Insert the T15 Tightening Wrench into the **Holding Tube**.



- Insert the tip of the T15 Tightening Wrench into the center hole of the Guide.
- Rotate the Holding Tube clockwise until it is flush against the Guide.



- Rotate the T15 Tightening Wrench counterclockwise to remove the Guide.



T15 TIGHTENING WRENCH

51720001



HOLDING TUBE

45715001

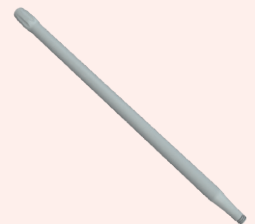
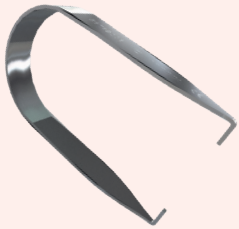


PLATE REMOVER

51719001



15 | DISASSEMBLY OF CAGE & PLATE

The Plate can be removed from the Cage, if needed, by using the **Plate Remover**.

- To disconnect the Plate from the Cage, insert the two tips of the Plate Remover into the lateral holes of the Cage.



- Squeeze the Plate Remover until the Plate is ejected from the Cage.



16 | SUPPLEMENTARY POSTERIOR FIXATION

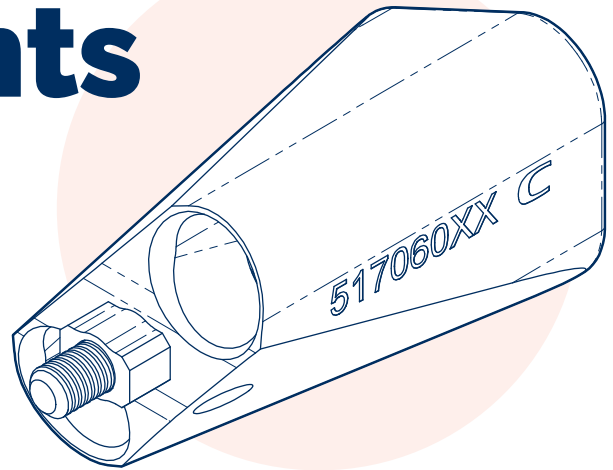
Posterior fixation is required to place the treated segment under compression and to enhance the stability of the Idys-LLIF 3DTi Cage.

17 | REVISION

The following steps detail the process of removing the Idys-LLIF 3DTi if a revision is necessary.

- Reassemble the appropriate Guide to the Plate and secure using the T15 Tightening Wrench.
- Insert the tip of the Cage Holder in the Cage/Plate/Guide assembly and secure by rotating the knob of the Cage Holder clockwise.
- Connect the Cylindrical Handle to the T20 Tightening Wrench.
- Insert the T20 Tightening Wrench through the Guide and remove the Screws.
- Once both Screws are removed, use the Cage Holder still attached to the Guide to remove the implant.

Instruments



Base anterior disc preparation #1



IDYS ANTERIOR DISC PREPARATION BASE #1

45990001



IDYS ANTERIOR DISC PREPARATION SET LID

45990004



RETRACTOR PIN

J44123



COBB ELEVATOR

24703001



ANTERIOR COBB ELEVATOR 9"

720-1834-0

3/4 Handle



ANTERIOR FLAT COBB ELEVATOR 9"

720-1838-0f

3/8 Handle



CANNULATED T-HANDLE

99781001



SHAVER

24707008
24707010
24707012
24707014
24707016
24707018

H08mm
H10mm
H12mm
H14mm
H16mm
H18mm

Base Anterior Disc Preparation #2



IDYS ANTERIOR DISC PREPARATION BASE #2

45990002



IDYS ANTERIOR DISC PREPARATION SET LID

45990004



CANNULATED T-HANDLE

99781001



ROUNDED DISTRACTOR

24709006	H06mm
24709008	H08mm
24709010	H10mm
24709012	H12mm
24707014	H14mm
24707016	H16mm
24707018	H18mm



ANTERIOR CURETTE 9" HANDLE

710-1806-1 #6 Angled



ANTERIOR CURETTE 9" HANDLE

710-1800-0c #0 Straight



ANTERIOR CURETTE 9" HANDLE

710-1804-0 #4 Straight



ANTERIOR CURETTE 9" HANDLE

710-1800-1c #0 Angled



CURETTE

24704109

Base Anterior Disc Preparation #3



IDYS ANTERIOR DISC PREPARATION BASE #3

45990003



IDYS ANTERIOR DISC PREPARATION BASE LID

45990004



MODULAR SPINE DISTRACTOR

21-250-H-5P



FINGER PAD

21-250-200



DISC RONGEUR

247081	Angled 30°	8mm
24708432		4mm
24708832		8mm



BONE RONGEUR

24709232	2mm
24709432	4mm

Idys-LLIF Instrument Tray #1



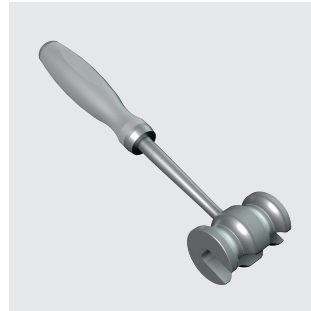
IDYS - LLIF INSTRUMENT BASE #1

51990001



IDYS - LLIF LID

51990003



SLAP HAMMER

99762000



LLIF GUIDE

51706007	H07mm
51706009	H09mm
51706011	H11mm
51706013	H13mm
51706015	H15mm



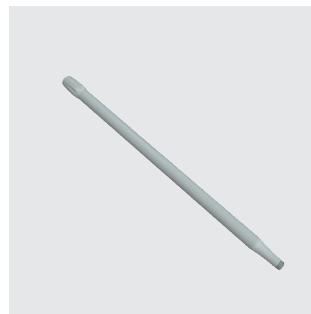
TRIAL & CAGE HOLDER

45715000



T15 TIGHTENING WRENCH

51720001



HOLDING TUBE

45715001



UNLOCKING WRENCH

24762001



PLATE REMOVER

51719001



GRAFT IMPACTOR

51761000	L35/40
51761001	L45/50
51761002	L55/60



RATCHETING CYLINDRICAL HANDLE/T20 TIGHTENING WRENCH

99782001	Handle Wrench
45720000	



FILLING BLOCK

51717000

Idys-LLIF Instrument Tray #2



IDYS - LLIF
INSTRUMENT BASE #2

51990002



IDYS - LLIF LID

51990003



RACK TRIAL

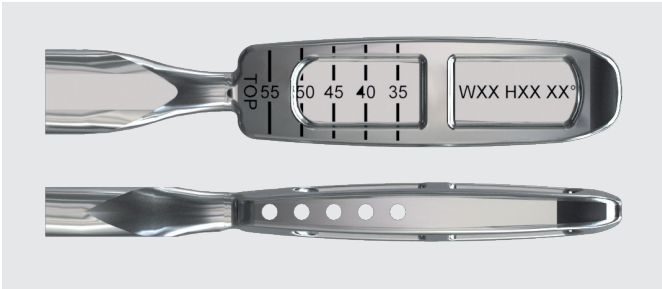
51990004
51990005

W17mm
W21mm



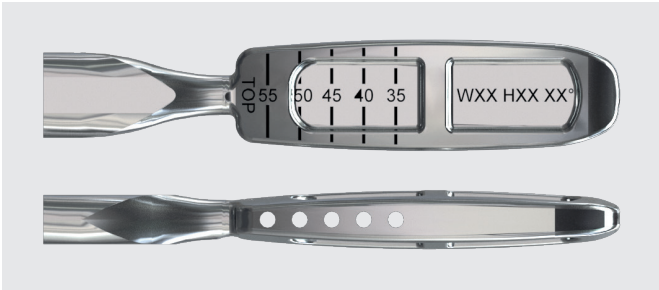
LLIF TRIAL - 0°

	H09mm	H11mm	H13mm	H15mm
W17mm	51717090	51717110	51717130	51717150
W21mm	51712190	51721110	51721130	51721150



LLIF TRIAL - 8°

	H09mm	H11mm	H13mm	H15mm
W17mm	51717091	51717111	51717131	51717151
W21mm	51721091	51721110	51721131	51721151



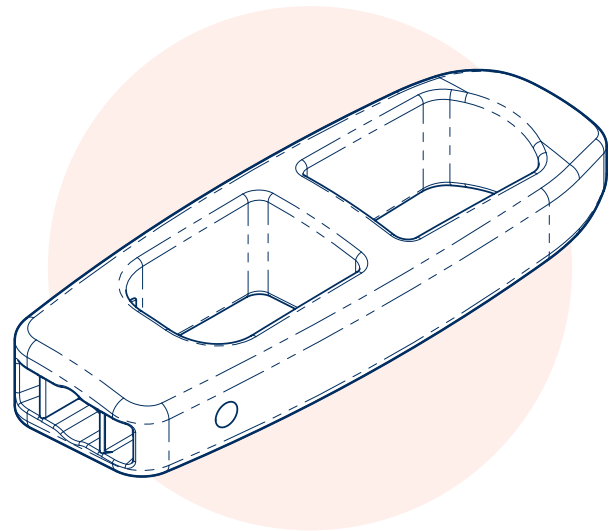
LLIF TRIAL - 14°

	H09mm	H11mm	H13mm	H15mm
W17mm	51717092	51717112	51717132	51717152
W21mm	51721092	51721112	51721132	51721152

Implants

Sterile

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



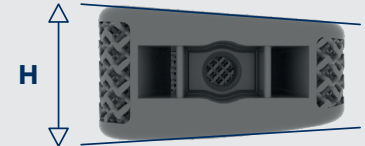
LLIF 3DTI CAGE - 0°

		H09mm	H11mm	H13mm	H15mm
L45mm	W17mm	51506090-S	51506110-S	51506130-S	51506150-S
	W21mm	51507090-S	51507110-S	51507130-S	51507150-S
L50mm	W17mm	51509090-S	51509110-S	51509130-S	51509150-S
	W21mm	51510090-S	51510110-S	51510130-S	51510150-S
L55mm	W17mm	51512090-S	51512110-S	51512130-S	51512150-S
	W21mm	51513090-S	51513110-S	51513130-S	51513150-S



LLIF 3DTI CAGE - 8°

		H09mm	H11mm	H13mm	H15mm
L45mm	W17mm	51506091-S	51506111-S	51506131-S	51506151-S
	W21mm	51507091-S	51507111-S	51507131-S	51507151-S
L50mm	W17mm	51509091-S	51509111-S	51509131-S	51509151-S
	W21mm	51510091-S	51510111-S	51510131-S	51510151-S
L55mm	W17mm	51512091-S	51512111-S	51512131-S	51512151-S
	W21mm	51513091-S	51513111-S	51513131-S	51513151-S



LLIF 3DTI CAGE - 14°

		H09mm	H13mm	H15mm
L45mm	W17mm	51506092-S	51506132-S	51506152-S
	W21mm	51507092-S	51507132-S	51507152-S
L50mm	W17mm	51509092-S	51509132-S	51509152-S
	W21mm	51510092-S	51510132-S	51510152-S
L55mm	W17mm	51512092-S	51512132-S	51512152-S
	W21mm	51513092-S	51513132-S	51513152-S



LLIF 3DTI PLATE

H07mm	H09mm	H11mm	H13mm	H15mm
5143007-S	51430009-S	51430011-S	51430013-S	5143015-S



VERTEBRAL SCREW Ø5MM

L30	L35	L40	L45	L50
24020530-S	24020535-S	24020540-S	24020545-S	24020550-S





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