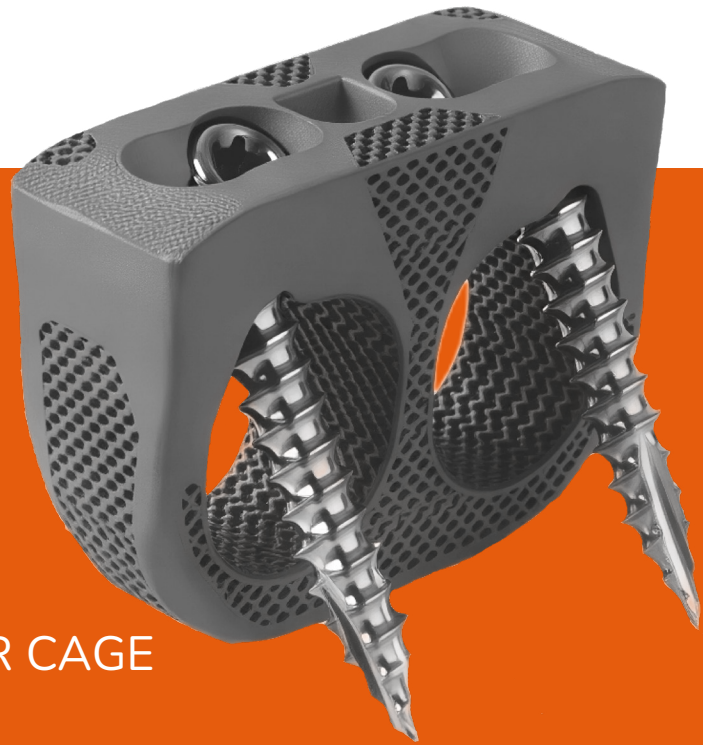


Idys[®]-ALIF ZP 3DTi

STAND-ALONE LUMBAR ANTERIOR CAGE



3DTi

Surgical technique - US

CONTENTS

Product features ————— **P05**

Surgical Technique ————— **P06**

1. Discectomy

2. Segment Distraction

3. Endplate Preparation

4. Trial Selection

5. Implant Preparation

6. Cage Packing

7. Implant Insertion

8. Screw Insertion

9. Implant Fixation

10. Final Check

11. Guide removal

12. Implant removal

Instruments ————— **P16**

Implants ————— **P24**

Product features

Design Features

① Porous Titanium

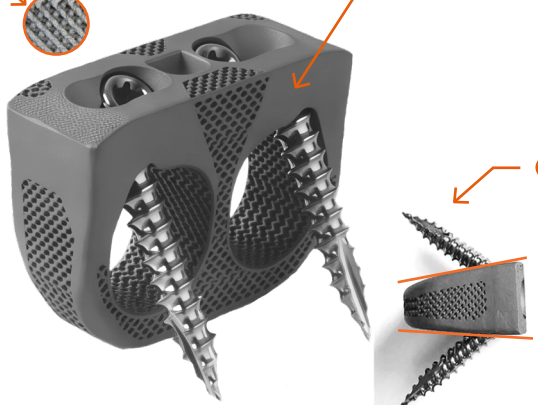
- Promotes bony fusion
- Optimal contact
- X-ray visibility

② Zero Profile

Profile that minimizes interferences with vascular structures

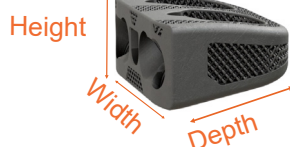
③ Optimal Stability

- Symetrical anatomical shape
- 4 screws configuration



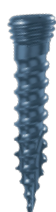
Implant Range

Cage



Footprint (Depth x Width)	Height	Lordosis
27 x 32 mm	12, 14, 18 mm	6, 10, 14, 18°
30 x 35 mm	12, 14, 18 mm	6, 10, 14, 18°
30 x 40 mm	12, 14, 18 mm	6, 10, 14, 18°
34 x 40 mm	12, 14, 18 mm	6, 10, 14, 18°

Screw



Anti-backout mechanism

- Self-tapping
- Self-drilling
- One-step conical locking mechanism

Length	Diameter
20 mm	5 mm
25 mm	5 mm
30 mm	5 mm
35 mm	5 mm

Screw angulation



RECOMMENDATION :

Screw length recommendation depending on cage depth:

27 x 32mm : 25mm screw

30 x 35mm and 30 x 40mm: 30mm screw

34 x 40mm: 35mm screw

Surgical Technique

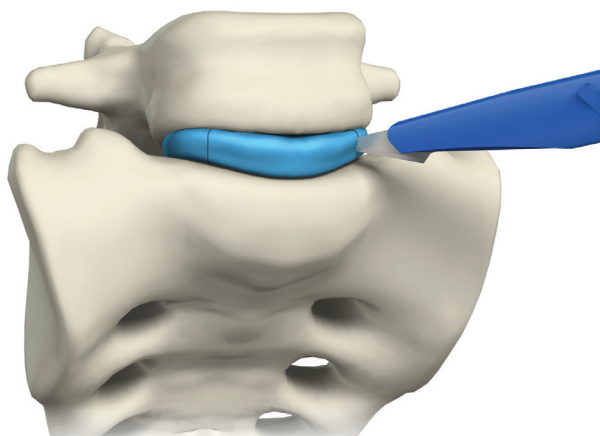
1. Discectomy

COBB ELEVATOR

720-1834-0
720-1838-0f

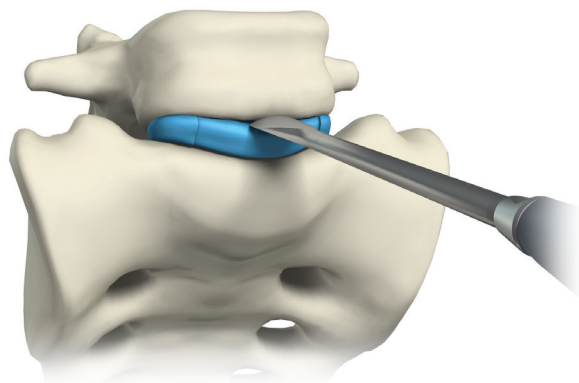


Using a scalpel, cut a rectangular window corresponding to the width of the Idys®-ALIF ZP 3DTi Cage into the intervertebral disc.



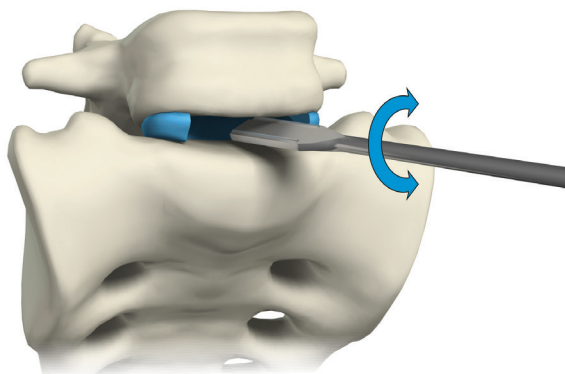
*In accordance with safety procedures, the patient is placed in the **supine position** on the operating table. The surgical approach is based on the usual techniques used by the surgeon.*

Separate the disc and the subchondral cartilage from the superior and inferior endplates with the **Cobb Elevator**.



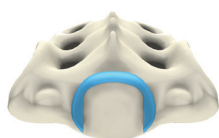
Connect the **Shaver** to the **Cannulated T-Handle**.
Rotate the Shaver to remove remaining cartilage and intervertebral disc.

Shavers are available in heights ranging from 8 to 18mm in 2mm increments.

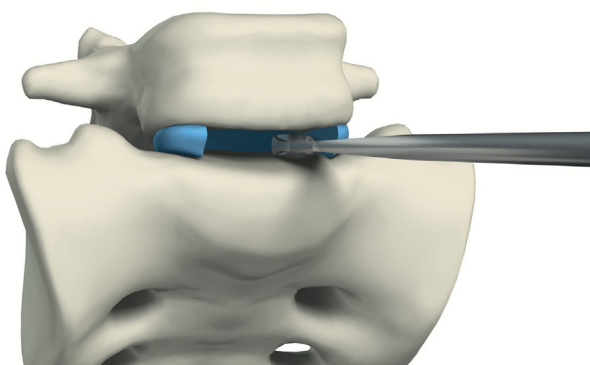


RECOMMENDATION :

It is recommended to retain as much of the anterolateral and posterior walls of the annulus as possible.



Use the **Disc Rongeur** to remove the disc fragments.



SHAVER (8-18mm)

247070xx



CANNULATED T-HANDLE

99781001



STRAIGHT DISC RONGEUR (4-8mm)

24708xxx



INCLINED 30° DISC RONGEUR (8mm)

24708132



ROUNDED DISTRACTOR (6-18mm)

247090xx



DISTRACTOR FORCEPS

24741000



CURETTE

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



BONE RONGEUR (2-4mm)

24709x32



CANNULATED T-HANDLE

99781001

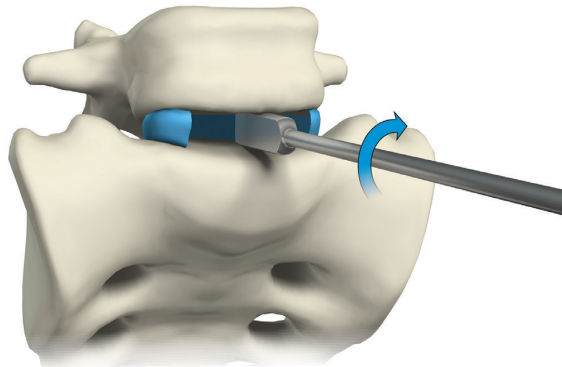


2. Segment Distraction

Use the **Distractor Forceps** or **Rounded Distractor** to open the disc space and gradually restore disc height.

Connect the **Rounded Distractor** to the **Cannulated T-Handle**.

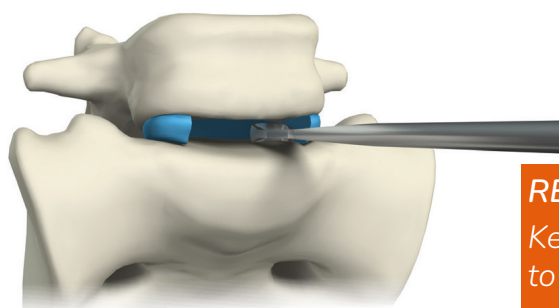
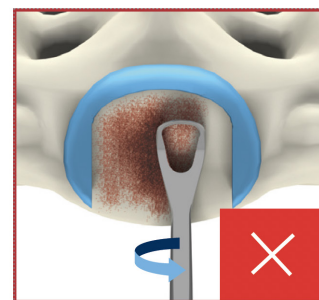
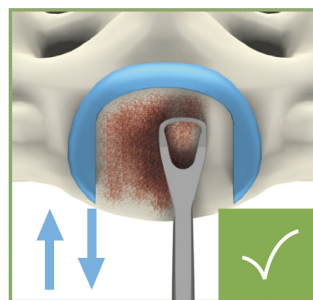
Rounded Distractors are available in heights ranging from 6 to 18mm in 2mm increments.



3. Endplate Preparation

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

A proper endplate preparation will improve vascularization of the implanted bone graft.



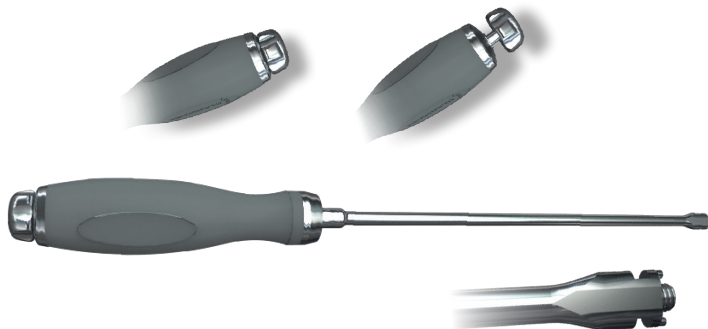
RECOMMENDATION :
Keep the **Curette** parallel to the endplates. Do not rotate the **Curette**.

Remove osteophytes with the **Bone Rongeur** if necessary.

4. Trial selection

Slide the **Inner 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.

The **Trial** should be flush against the **Cage Holder**.



Insert the **Trial** into the intervertebral space with the "TOP" of the **Trial** facing cranially.

Lightly impact with the **Slap Hammer**.

Pay special attention to ensure that the **Trial** is centered in the disc space.

Verify the position of the **Trial** and confirm the appropriate lordotic angle, disc height and footprint via X-Ray.



CAGE HOLDER

45916000 -Body

45916001- Inner Rod



TRIAL

4571xxxx



SLAP HAMMER

99762002



ALIF ZP 3DTI CAGE

4557xxx-S



T15 TIGHTENING WRENCH

51720001



ZP GUIDE

45706000



5a. Implant preparation with ZP Guide (Recommended)

Connect the **ZP Guide** to the **Cage**.



IMPORTANT:



The “TOP” side of the ZP Guide should face the same direction as the convex side of the Cage.

Use the **T15 Tightening Wrench** to secure the **ZP Guide** onto the **Cage**.

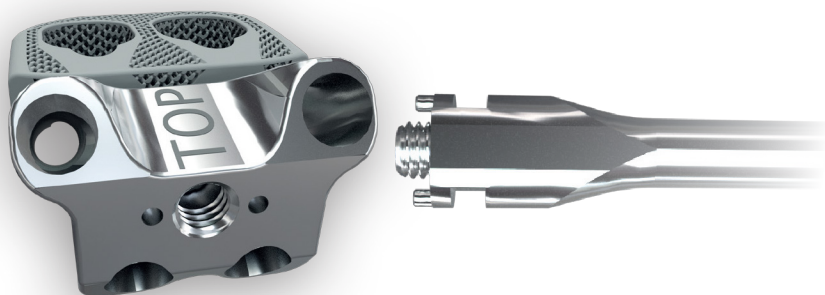


ZP Guide not secured to the **Cage**



ZP Guide secured to the **Cage**

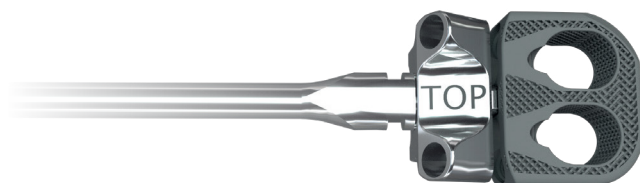
Insert the tip of the **ALIF-ZP Cage Holder** in the **ZP Guide/ Cage** assembly.



IMPORTANT:

The two pins on the **Cage Holder** must be inserted into the two holes on the **ZP Guide**.

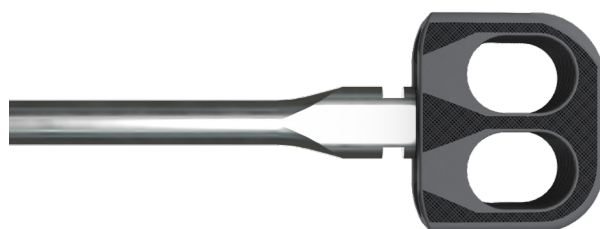
Rotate the knob of the **Cage Holder** clockwise until it is firmly tightened.



5b. Implant preparation without ZP Guide

Assemble the **Inner Rod of Direct Cage Holder** and the **Body of Direct Cage Holder**.

Rotate the knob clockwise to firmly attach the cage to the inserter.



The **Inner Rod (ref 45916003)** used for implant insertion without the **ZP Guide** has a smaller diameter than the **Inner Rod (ref 45916001)** used with **ZP Guide**.

UNLOCKING WRENCH

24762001



CAGE HOLDER (WITH GUIDE)

45916000 -Body
45916001- Inner Rod



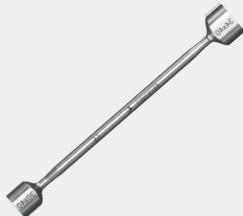
DIRECT CAGE HOLDER

45916004 - Body
45916003 - Inner Rod



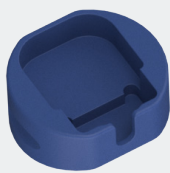
GRAFT IMPACTOR ZP

45761000 - For cage 27 x 32
and 30 x 35mm
45761001 - For cage 30 x 40
and 34 x 40mm



FILLING BLOCK ZP

45717000



SLAP HAMMER

99762002



6. Cage packing

The cage packing phase remains the same, whether or not the **ZP Guide** is used.

Place the **Cage** in the **Filling Block ZP**.

Use the **Graft Impactor ZP** to firmly pack the graft material into the cavities of the implant.



7a. Implant insertion with ZP Guide

With the **Cage Holder**, insert the **ZP Guide/Cage** assembly into the intervertebral disc space, with the “TOP” of the **ZP Guide** facing cranially.

Lightly impact with the **Slap Hammer**.



7b. Implant insertion without ZP Guide

With the **Direct Cage Holder**, insert the **Cage** into the intervertebral disc space, with the “TOP” of the **Direct Cage Holder** facing cranially.

Lightly impact with the **Slap Hammer**.

IMPORTANT :

*Pay special attention to ensure that the **Cage** is centered in the disc space.*

8. Screw preparation

Depending on the approach, select the **Straight Punch** or the **Angled Punch**.

Insert the **Punch** into the **ZP Guide** or directly into the **Cage**.



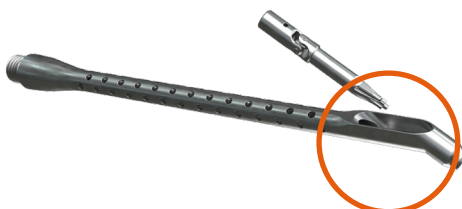
Rotate and apply downward pressure to the **Punch**. Repeat this step for all four of the screw openings on the **ZP Guide**.

Remove the selected **Punch**.

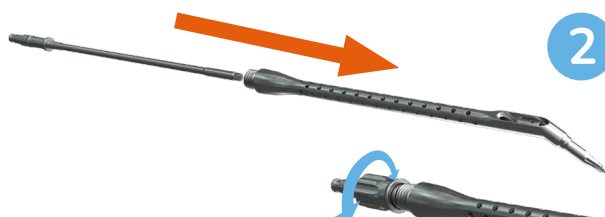
9. Implant fixation

Assemble the **Inclined screwdriver** following the 3 steps :

- 1 Insert the **T20 tip** into the extremity of the **Joint screwdriver body**.



- 2 Insert the **Hudson rod** into the **Joint screwdriver body**.



- 3 Secure the assembly with the knob (please note this is a reverse thread)



- 4 Connect the assembly to the **Torque limited straight handle 5.5Nm**

WARNINGS :

Screwdrivers **MUST** be use with the **Torque limited straight handle 5.5mm**.

TORQUE LIMITED STRAIGHT HANDLE 5.5Nm

99781206



STRAIGHT PUNCH

45700001



ANGLED PUNCH

45700000



INCLINED SCREWDRIVER (35°)

45710001



ANGLED SCREWDRIVER 35°

45710001



TORQUE LIMITED STRAIGHT HANDLE 5.5Nm

99781206



VERTEBRAL SCREWS 5mm (L20-L35)

240205xx-S

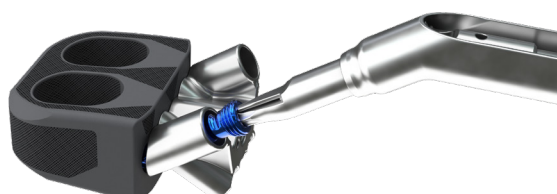


Select the appropriate **Screws** according to the patient's anatomy.

Screws are available in 20, 25, 30 and 35mm lengths.

Use the **Angled Screwdriver** to insert **Screws** into the **ZP Guide** or into the **Cage**.

The **Screws** have a one-step conical locking mechanism. Screw locking is obtained when the head of the **Screw** is completely inserted into the **Cage**.



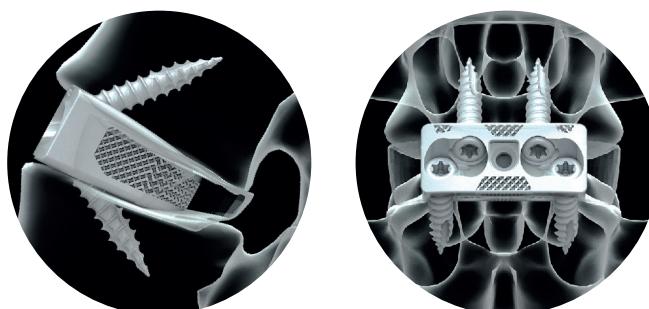
IMPORTANT :

It is recommended to insert the screw through the ZP Guide to ensure proper locking of the screw onto the cage.

Four Screws should always be used with Idys®-ALIF ZP 3DTi Cage.

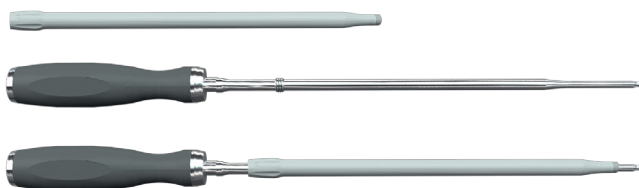
10. Final check

Perform a final X-Ray check to verify the final positioning of the **Cage** and **Screws** in the AP and lateral directions.



11. 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 **ZP Guide**.

Rotate the **Holding Tube** clockwise until it is flush against the **ZP Guide**.



Rotate the **T15 Tightening Wrench** counterclockwise to remove the **ZP Guide**.



12. Implant removal

To remove the cage if needed, connect the **Direct Cage Holder** to the cage with the “TOP” of the **Direct Cage Holder** facing cranially.

Connect the **Angled screwdriver 35°** to the **Torque limited straight handle 5.5Nm**.

Remove the four screws with the screwdriver.

After screw removal, use the **Slap hammer** on the cage holder shaft to remove the cage from the intervertebral space.

T15 TIGHTENING WRENCH

51720001



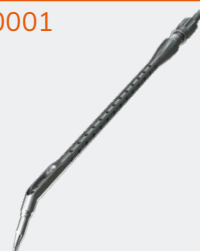
HOLDING TUBE

45715001



ANGLED SCREWDRIVER 35°

45710001



DIRECT CAGE HOLDER

45916004 - Body

45916003 - Inner Rod



SLAP HAMMER

99762002



Instruments

Anterolateral Disc Preparation #1



**ANTEROLATERAL
INSTRUMENTS BASE #1**

45990001



**LID FOR
ANTEROLATERAL
INSTRUMENTS BASE**

45990004



RETRACTOR PIN

J44123

x4



COBB'S ELEVATOR

24703001



**ANTERIOR FLAT COBB
ELEVATOR 9"**

720-1838-0f 3/8" Handle



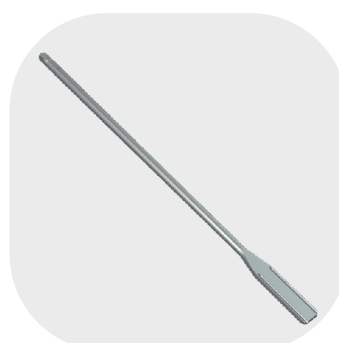
**ANTERIOR COBB
ELEVATOR 9"**

720-1834-0



CANNULATED T-HANDLE

99781001



SHAVER

24707008	H08mm
24707010	H10mm
24707012	H12mm
24707014	H14mm
24707016	H16mm
24707018*	H18mm

Anterolateral Disc Preparation #2



**ANTEROLATERAL
INSTRUMENTS BASE #2**
45990002



**LID FOR
ANTEROLATERAL
INSTRUMENTS BASE**
45990004



**ROUNDED
DISTRACTOR**
24709006 H06mm
24709008 H08mm
24709010 H10mm
24709012 H12mm
24709014 H14mm
24709016 H16mm
24709018 H18mm



CANNULATED T-HANDLE
99781001



CURETTE
24704109 9mm



ANTERIOR CURETTE
710-1800-0C #0 Straight
710-1800-1C #0 Angled
710-1804-0 #4 Straight
710-1806-1 #6 Angled

Anterolateral Disc Preparation #3



**ANTEROLATERAL
INSTRUMENTS BASE #3**

45990003



**LID FOR
ANTEROLATERAL
INSTRUMENTS BASE**

45990004



**DISTRACTION
FORCEPS**

24741000



DISC RONGEUR

24708132 Angled 8mm
24708432 Straight 4mm
24708832 Straight 8mm



BONE RONGEUR

24709232 45° 02mm
24709432 45° 04mm

Idys®-ALIF ZP Instruments Tray #1



**IDYS ALIF ZP
INSTRUMENTS BASE #1**
45990005



**LID FOR IDYS ALIF ZP
INSTRUMENTS BASE**
45990007



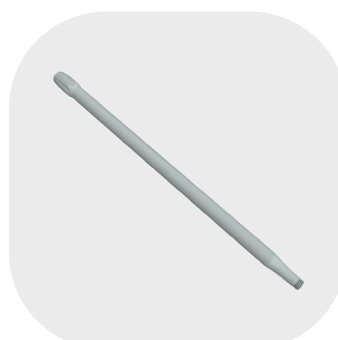
SLAP HAMMER
99762002



ZP GUIDE
45706001 H10mm
45706000 H12-18mm



**T15 TIGHTENING
WRENCH**
51720001



HOLDING TUBE
45715001



**CAGE HOLDER
(WITH GUIDE)**
45715000 Body
45916001 Inner Rod



UNLOCKING WRENCH
24762001



DIRECT CAGE HOLDER

45916004 Body
45916003 Inner Rod



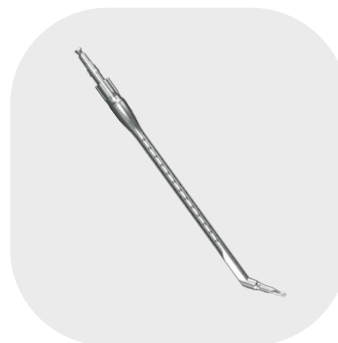
GRAFT COMPACTOR ZP

45761000 ZP 27x32/30x35mm
45761001 ZP 30x40/34x40mm



FILLING BLOCK ZP

45717000



ANGLED SCREWDRIVER 35°

45710001



TORQUE LIMITED STRAIGHT HANDLE 5.5NM

99781206



T20 TIGHTENING WRENCH (HUDSON)

45720001



STRAIGHT PUNCH

45700001



ANGLED PUNCH

45700000

Idys®-ALIF ZP 3DTi Instrument Tray #2



**IDYS ALIF ZP
INSTRUMENTS BASE #1**

45990006



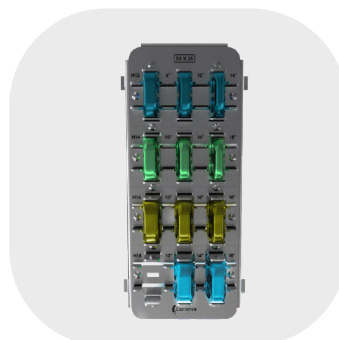
**LID FOR IDYS ALIF ZP
INSTRUMENTS BASE**

45990007



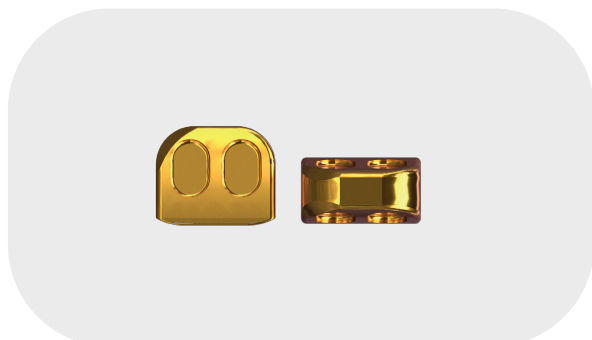
TRIAL RACK 27x32m

45990008



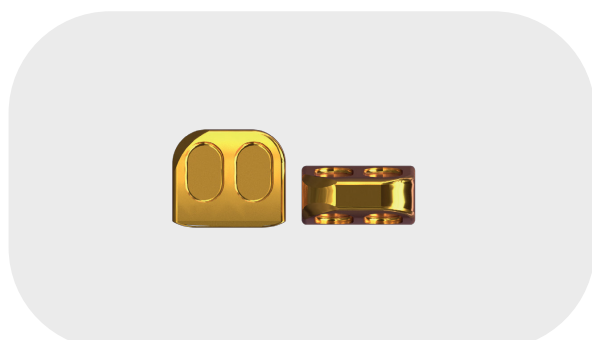
TRIAL RACK 30x35m

45990009



ALIF ZP TRIAL - 27 x 32mm

	06°	10°	14°	18°
H12	45711206	45711210	45711214	
H14	45711406	45711410	45711414	45711418
H16	45711606	45711610	45711614	45711618
H18	45711806	45711810	45711814	45711818



ALIF ZP TRIAL - 30 x 35mm

	06°	10°	14°	18°
H12	45712206	45712210	45712214	
H14	45712406	45712410	45712414	45712418
H16	45712606	45712610	45712614	45712618
H18	45712806	45712810	45712814	45712818



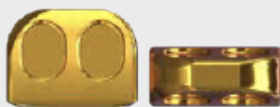
TRIAL RACK 30x40

45990010



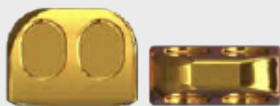
TRIAL RACK 34x40mm

45990011



ALIF ZP TRIAL - 30 x 40mm

	06°	10°	14°	18°
H12	45713206	45713210	45713214	
H14	45713406	45713410	45713414	45713418
H16	45713606	45713610	45713614	45713618
H18	45713806	45713810	45713814	45713818



ALIF ZP TRIAL - 34 x 40mm

	06°	10°	14°	18°
H12	45714206	45714210	45714214	
H14	45714406	45714410	45714414	45714418
H16	45714606	45714610	45714614	45714618
H18	45714806	45714810	45714814	45714818

Implants Sterile

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

ALIF ZP CAGE 27x32mm

	06°	10°	14°	18°
H12	45571206-S	45571210-S	45571214-S	
H14	45571406-S	45571410-S	45571414-S	45571418-S
H16	45571606-S	45571610-S	45571614-S	45571618-S
H18	45571806-S	45571810-S	45571814-S	45571818-S

ALIF ZP CAGES 30x35mm

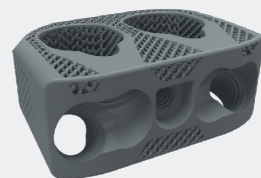
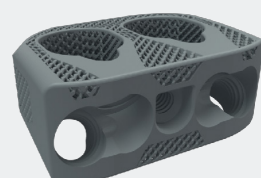
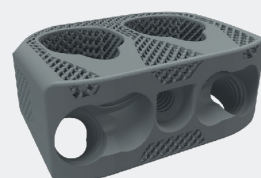
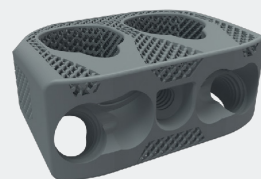
	06°	10°	14°	18°
H12	45572206-S	45572210-S	45572214-S	
H14	45572406-S	45572410-S	45572414-S	45572418-S
H16	45572606-S	45572610-S	45572614-S	45572618-S
H18	45572806-S	45572810-S	45572814-S	45572818-S

ALIF ZP CAGES 30x40mm

	06°	10°	14°	18°
H12	45573206-S	45573210-S	45573214-S	
H14	45573406-S	45573410-S	45573414-S	45573418-S
H16	45573606-S	45573610-S	45573614-S	45573618-S
H18	45573806-S	45573810-S	45573814-S	45573818-S

ALIF ZP CAGES 34x40mm

	06°	10°	14°	18°
H12	45574206-S	45574210-S	45574214-S	
H14	45574406-S	45574410-S	45574414-S	45574418-S
H16	45574606-S	45574610-S	45574614-S	45574618-S
H18	45574806-S	45574810-S	45574814-S	45574818-S



Vertebral Screw 5mm

L20 mm	L25 mm	L30 mm	L35 mm
24020520-S	24020525-S	24020530-S	24020535-S



