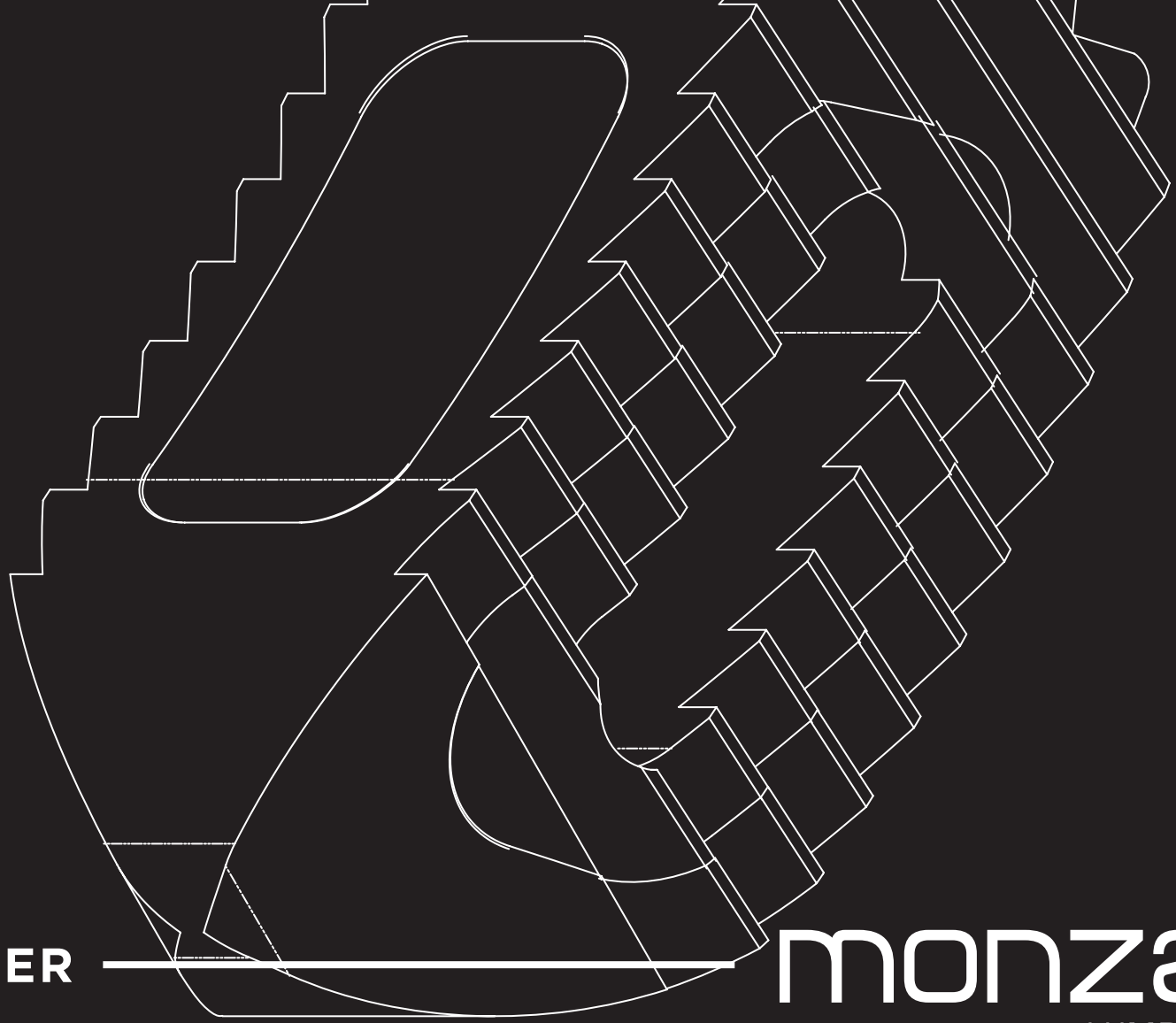
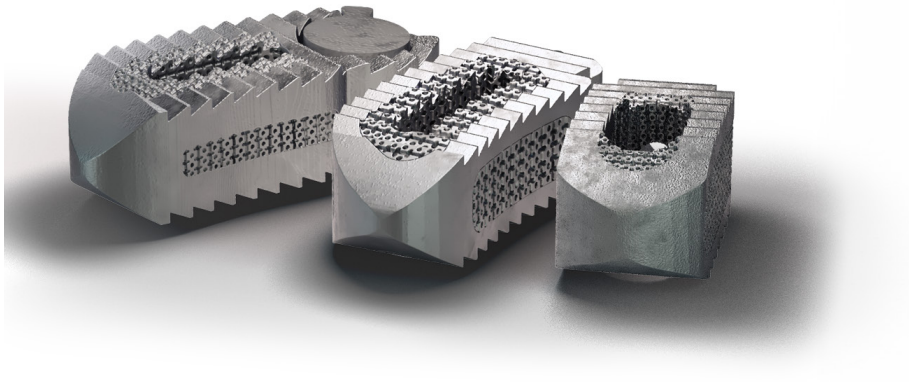


CLOVER

monza

LUMBAR



ZERO PROFILE CAGE, USE OF STABILIZING BLADES, WHICH PRESERVE BONE TISSUE COMPARED WITH THE USE OF SCREWS

SLOT FOR THE INSERTION OF AN ADDITIONAL STABILIZATION

TRABECULAR STRUCTURE TO FACILITATE THE FUSION PROCESS BETWEEN THE VERTEBRAL BODIES

DEDICATED INSTRUMENT FOR INSERTION CAGE WITH A GUIDE WIRE

# Complete system of cages inter-somatic thoracolumbar

Monza is a complete system of interbody cages that, thanks to the titanium trabecular structure, made with the latest 3D printing techniques, guarantees immediate mechanical stability and excellent osseointegration.

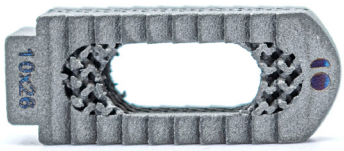
The Plif, Tlif and Llif lumbar cages come in different sizes and degrees of lordosis ensuring a wide modularity of the implant.

The design of the implants leaves ample room for the insertion of bone tissue .

The instrumentation is ergonomic, essential and effective.

TLIF

TLIF RACE



PLIF

## Features

TITANIO TRABECOLARE

3D PRINTING TECH

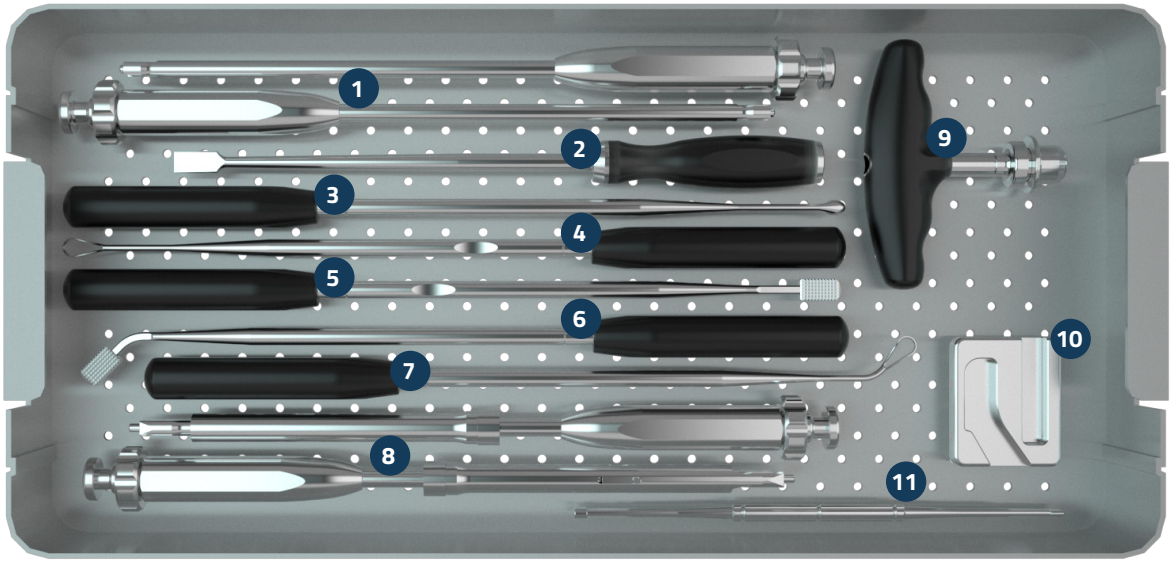
ETO STERILE


## Instrumentary

Clover has invested heavily in instrument design and care with the goal of creating ergonomic, functional, and compact instrumentation.
Designed for the surgeon and his team.

## INSTRUMENTS

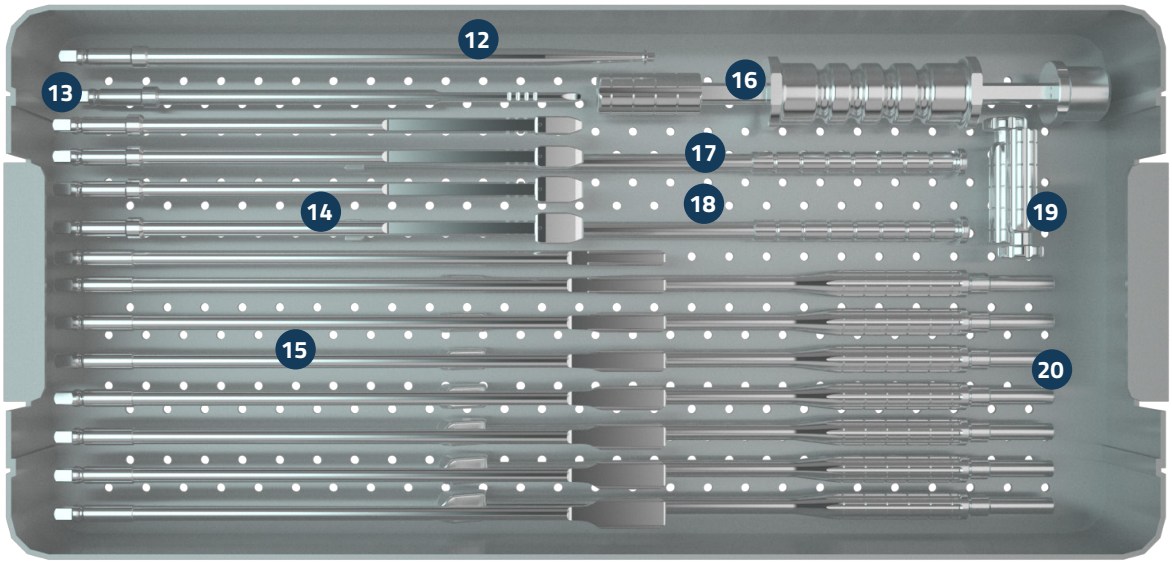
TRAY 1




| | | |
|---|---|---|
| 1 | HOLDER | MNZ-B0SS00000S |
| 2 | CHISEL | MNZ-P0SS00004S |
| 3 | CURETTE | MNZ-C0SS00000S |
| 4 | TEARDROP CURETTE | MNZ-C0SS00001S |
| 5 | STRAIGHT SCRAPER | MNZ-D0SS00000S |
| 6 | ANGLED SCRAPER | MNZ-D1SS00000S |
| 7 | ANGLED TEARDROP CURETTE | MNZ-C1SS00001S |
| 8 | ROTATING TLIF HOLDER | MNZ-B0SS00001S |
| 9 | CANNULATED T-HANDLE | MNZ-N1SS00000S |
| 10 | MOULD FOR BONE GRAFT | MNZ-F2SS00000S |
| 11 | IMPACTOR FOR BONE GRAFT | MNZ-G0SS00000S |

## INSTRUMENTS

TRAY 2




| | | |
|---|---|---|
| 12 | EXTRACTOR | MNZ-L0SS00000S |
| 13 | STARTER 7MM | MNZ-A0SS00000S |
| 14 | SPREADER / TRIAL PL-STL 8MM | MNZ-H0SS00008S |
| | SPREADER / TRIAL PL-STL 10MM | MNZ-H0SS00010S |
| | SPREADER / TRIAL PL-STL 12MM | MNZ-H0SS00012S |
| | SPREADER / TRIAL PL-STL 14MM | MNZ-H0SS00014S |
| 15 | SHAVER 7MM | MNZ-O0SS00007S |
| | SHAVER 8MM | MNZ-O0SS00008S |
| | SHAVER 9MM | MNZ-O0SS00009S |
| | SHAVER 10MM | MNZ-O0SS00010S |
| | SHAVER 11MM | MNZ-O0SS00011S |
| | SHAVER 12MM | MNZ-O0SS00012S |
| | SHAVER 13MM | MNZ-O0SS00013S |
| | SHAVER 14MM | MNZ-O0SS00014S |
| 16 | SLIDE HAMMER | MNZ-I0SS00000S |
| 17 | LATERAL IMPACTOR | MNZ-M0SS00001S |
| 18 | POSTERIOR IMPACTOR | MNZ-M0SS00000S |
| 19 | PL-TL INSERT | MNZ-P0SS00005S |
| 20 | TRIAL TL 7MM | MNZ-E0SS00007S |
| | TRIAL TL 8MM | MNZ-E0SS00008S |
| | TRIAL TL 9MM | MNZ-E0SS00009S |
| | TRIAL TL 10MM | MNZ-E0SS00010S |
| | TRIAL TL 11MM | MNZ-E0SS00011S |
| | TRIAL TL 12MM | MNZ-E0SS00012S |
| | TRIAL TL 13MM | MNZ-E0SS00013S |

## INSTRUMENTS

HANDLE MNZ-N0SS00000S

T-HANDLE MNZ-N1SS00000S

CHISEL MNZ-P0SS00004S

ANGLED TEARDROP CURETTE MNZ-C1SS00001S

TEARDROP CURETTE MNZ-C0SS00001S

CURETTE MNZ-C0SS00000S

STRAIGHT SCRAPER MNZ-D0SS00000S

ANGLED SCRAPER MNZ-D1SS00000S

HOLDER MNZ-B0SS00000S

ROTATING TLIF HOLDER MNZ-B0SS00001S

## INSTRUMENTS

IMPACTOR FOR BONE GRAFT MNZ-G0SS00000S

MOULD FOR BONE GRAFT TLIF CAGES MNZ-F1SS00000S

POSTERIOR IMPACTOR MNZ-M0SS00000S

LATERAL IMPACTOR MNZ-M0SS00001S

EXTRACTOR PLIF-STLIF MNZ-L0SS00000S

SHAVER 7MM MNZ-O0SS00007S


SHAVER 8MM MNZ-O0SS00008S


SHAVER 9MM MNZ-O0SS00009S


SHAVER 10MM MNZ-O0SS00010S


SHAVER 11MM MNZ-O0SS00011S

## INSTRUMENTS

SHAVER 12MM MNZ-00SS00012S


SHAVER 13MM MNZ-00SS00013S


SHAVER 14MM MNZ-00SS00014S


TRIAL TL 7MM MNZ-E0SS00007S

TRIAL TL 8MM MNZ-E0SS00008S

TRIAL TL 9MM MNZ-E0SS00009S

TRIAL TL 10MM MNZ-E0SS00010S

TRIAL TL 11MM MNZ-E0SS00011S

TRIAL TL 12MM MNZ-E0SS00012S

TRIAL TL 13MM MNZ-E0SS00013S

## INSTRUMENTS

TRIAL PL/S-TL 7MM MNZ-A0SS00000S

TRIAL PL/S-TL 8MM MNZ-H0SS00008S

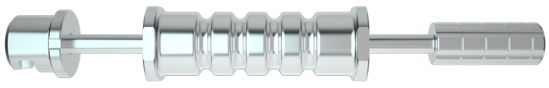
TRIAL PL/S-TL 10MM MNZ-H0SS00010S

TRIAL PL/S-TL 12MM MNZ-H0SS00012S

TRIAL PL/S-TL 14MM MNZ-H0SS00014S

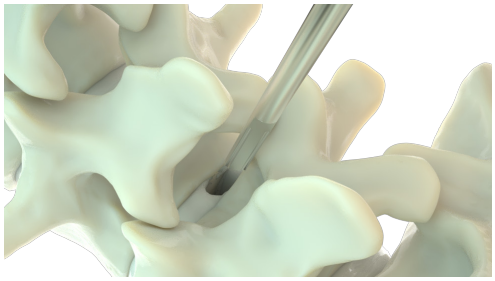
PLIF-TLIF INSERT MNZ-P0SS00005S

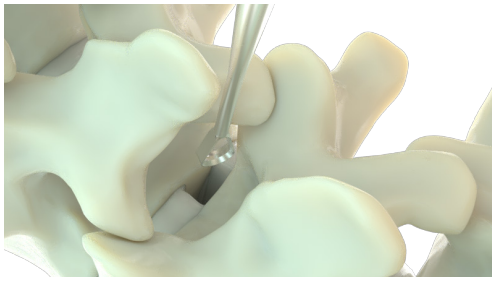
SLIDE HAMMER MNZ-I0SS00000S

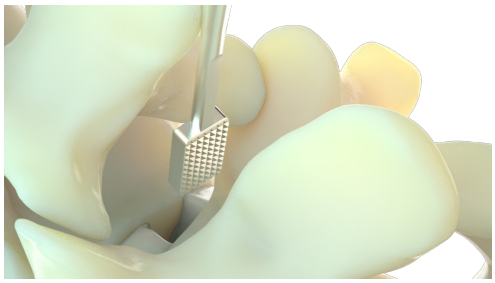


# PLIF / S-TLIF SURGICAL TECHNIQUE

1 —





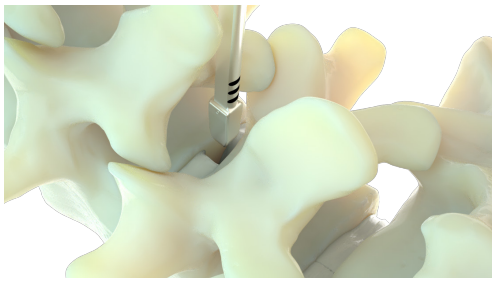


## Disc space preparation

After identifying the implant site perform resection of the affected anatomic portion via posterior access.

Once the disc is reached, proceed with discectomy using sized **shavers**, **curettes** and **scrapers** in addition to the appropriate general instruments. The size of the last shaver used may provide a useful indication for the subsequent choice of cage trial.

2 —

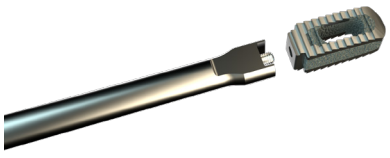


## Selection of the cage

Then proceed to insert the **PL/S-TL trial** inside the disc, starting with the smallest size until the desired height is reached.

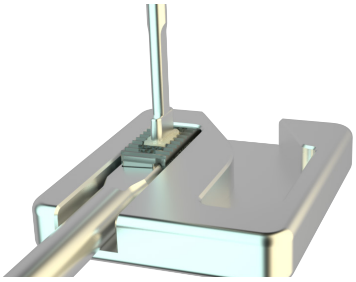
NOTE: There are grooves visible on the end of the trial under scopy to determine the length of the cage to be selected.

3 —



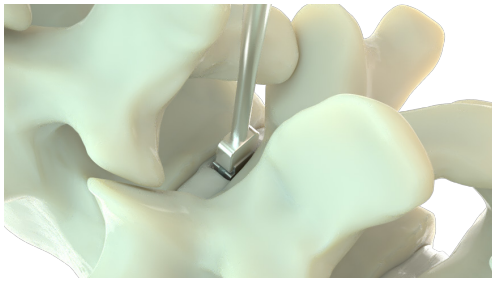
## Preparing the cages

Mount the cages on the **holder**, ensuring assembly by turning the ring nut on the handle clockwise.



Place the cages in the **mould for bone graft PLIF/S-TLIF cages** and introduce the bone graft inside the implant hole using the appropriate **impactor for bone graft**.

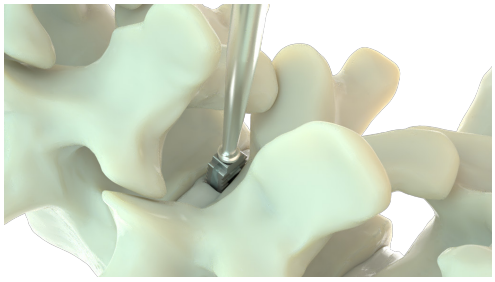
4 —



## Insertion of cages

Then insert the cages inside the disc space to the desired depth. If you are not satisfied with the position achieved, you can connect the impactor directly to the positioner and remove the cage.
Once the desired depth and position has been reached, unscrew the ferrule and remove the positioner.
With the positioner removed, the PL/S-TL definitive beater can be used to slightly advance the cage within the disc space.

5 —

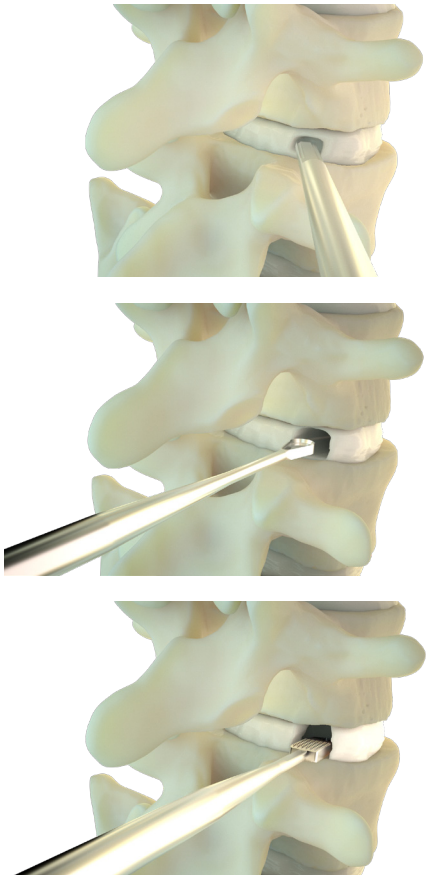


## Cage removal

Screw the **extractor** inside the cage hole. Connect the instrument to the **slide hammer** and proceed to extract the cage.

# TLIF SURGICAL TECHNIQUE

1 —

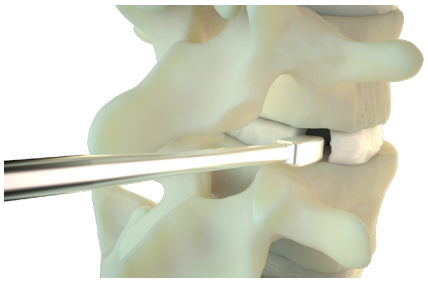


## Disc space preparation

After identifying the implant site perform resection of the affected anatomic portion via transforaminal access.

Once the disc is reached proceed with discectomy using, in addition to the appropriate general instruments, sized **shavers**, **curettes**, and **scrapers**. The size of the last shaver used may provide a useful indication for the subsequent choice of cage trial.

2 —

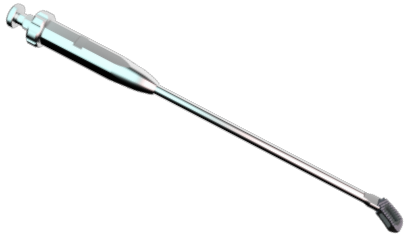


## Selection of the cage

Then proceed to insert the **TL trial** inside the disc, starting with the smallest size until the desired height is reached.

NOTE: The length of the TL test measures 28 mm.

3 —

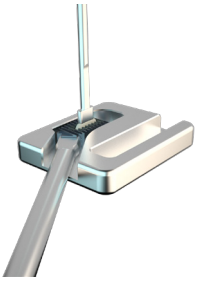


## Preparing the cages

Mount the cages on the **holder** and turn the ring nut on the handle clockwise.

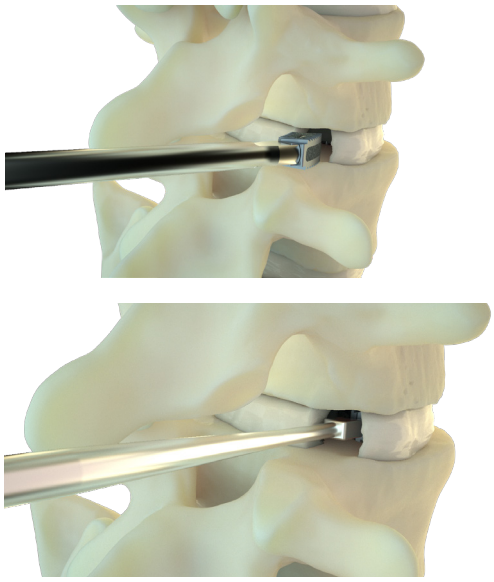
Next, in order to secure the cage to the **holder,** slide the center body of the **holder** into the cage and rotate counterclockwise.

## TLIF SURGICAL TECHNIQUE



Place the cages in the **mould for bone graft PLIF/S-TLIF cages** and introduce the bone graft inside the implant hole using the appropriate **impactor for bone graft**.

4 —



### Insertion of cages

Then insert the cages inside the disc space to the desired depth. If you are not satisfied with the position achieved, you can connect the impactor directly to the positioner and remove the cage.
Once the desired depth and position has been reached, unscrew the ferrule and remove the positioner.
With the positioner removed, the TL definitive beater can be used to gradually rotate and advance the cage under radiographic control to its final position.

| | | |
|---|---|---|
| PLIF CAGE | 10X22 | FROM H7 TO H14 |
| PLIF CAGE LORDOTIC | 10X26 | FROM H7 TO H14 |
| TLIF CAGE | 12X28 | FROM H7 TO H14 |
| | 12X32 | FROM H7 TO H14 |
| S-TLIF CAGE | 10X30 | FROM H7 TO H14 |
| LLIF CAGE | 18X40 | FROM H7 TO H12 |
| | 18X45 | FROM H7 TO H12 |
| | 18X50 | FROM H7 TO H12 |
| | 18X55 | FROM H7 TO H12 |
| LLIF CAGE LORDOTIC- 10° | 18X40 | FROM H7 TO H14 |
| | 18X45 | FROM H7 TO H14 |
| | 18X50 | FROM H7 TO H14 |
| | 18X55 | FROM H7 TO H14 |

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