



JULIET[®] Ti PO/OL
POSTERIOR Ti CAGES



C O N T E N T

04

CONCEPT AND DESIGN

06

IMPLANTS

09

TECHNICAL FEATURES

11

INSTRUMENT SET

12

INSTRUMENTS

14

SURGICAL TECHNIQUE

23

GENERAL INFORMATION

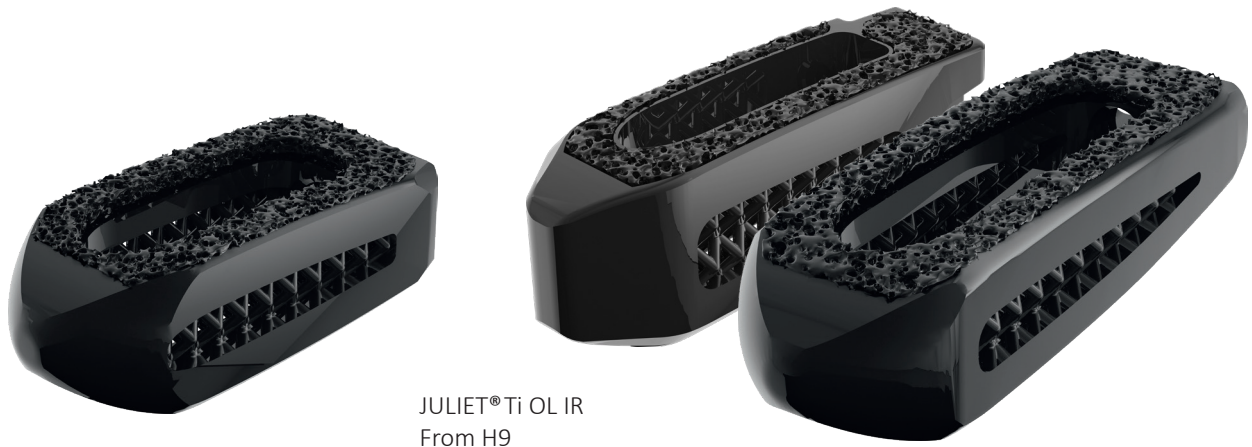
CONCEPT AND DESIGN

To accompany the ROMEO® posterior fusion system, Spineart developed a range of interbody devices to achieve 360° fusion: the JULIET® interbody system. Named after William Shakespeare's characters Romeo and Juliet, the two systems complement each other perfectly.

The JULIET® PO, JULIET® OL and JULIET® TL are designed to be used with the ROMEO®2 system for a reliable, efficient and easy-to-use platform to achieve fusion.

Building on the success and experience acquired with our PEEK range, Spineart developed a new Titanium range, featuring the Ti-LIFE Technology, a state-of-the-art porous, interconnected structure replicating the trabecular bone geometry.

With each product development, Spineart is relentlessly driven by the same philosophy: Quality, Innovation and Simplicity.



JULIET® Ti PO
Posterior Ti Cage

JULIET® Ti OL IR
From H9
Transforaminal Straight Ti Cage
With Insert/Rotate Option

JULIET® Ti OL
H7 & H8
Transforaminal Straight Ti Cage

AT A GLANCE

Ti-LIFE Technology
Optimal Visualization
Easy & Secured Insertion
Complete Range

INDICATIONS

JULIET® Lumbar Interbody Device is indicated for intervertebral body fusion procedures in skeletally mature patients with degenerative disc disease (DDD) at one or two contiguous levels from L2-S1. DDD is defined as discogenic back pain with degeneration of the disc confirmed by patient history and radiographic studies. These DDD patients may also have up to Grade 1 spondylolisthesis or retrolisthesis at the involved level(s). This device is to be used with autogenous bone graft. JULIET® Lumbar Interbody Device is to be used with supplemental fixation. Patients should have at least six (6) months of non-operative treatment prior to treatment with an intervertebral cage.

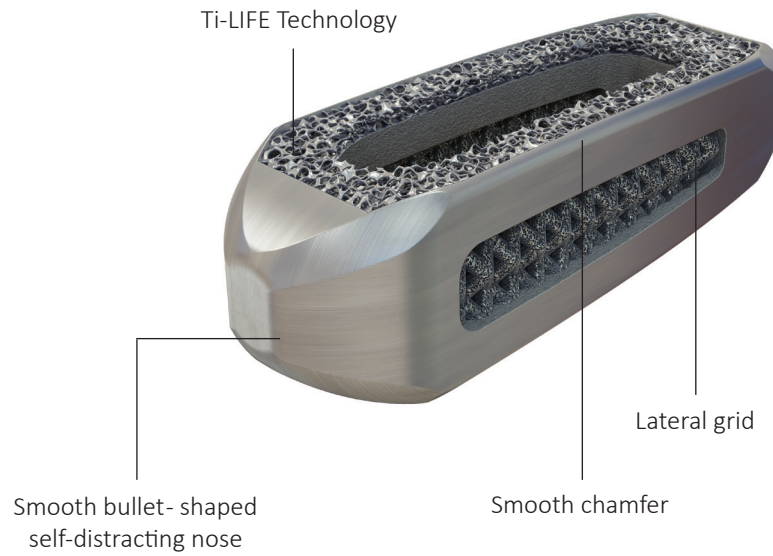
CONTRAINDICATIONS

- Mental illness
- Infection
- Severely damaged bone structures that could prevent stable implantation of the cage
- Neuromuscular or vascular disorders or illness
- Inadequate activity
- Pregnancy
- Fractures

Please refer to the JULIET® PO OL TL Instructions for Use for complete device description, indications, contraindications, precautions and warnings.

IMPLANTS

JULIET®Ti OL



LORDOSIS 6°

HEIGHT	LENGTH	WIDTH	REFERENCE
H07	L28	10.5	JUT-O6 28 07-S
H08	L28	10.5	JUT-O6 28 08-S

HEIGHT	LENGTH	WIDTH	REFERENCE
H07	L32	10.5	JUT-O6 32 07-S
H08	L32	10.5	JUT-O6 32 08-S

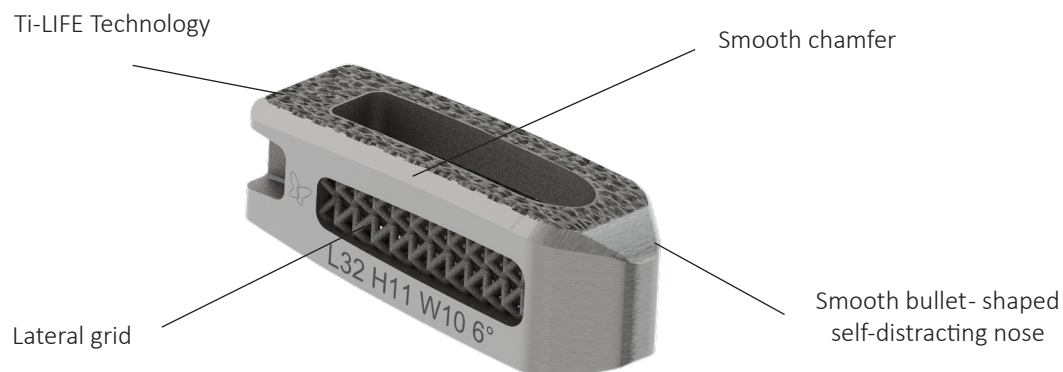
LORDOSIS 12°

HEIGHT	LENGTH	WIDTH	REFERENCE
H08	L28	10.5	JUT-OX 28 08-S

HEIGHT	LENGTH	WIDTH	REFERENCE
H08	L32	10.5	JUT-OX 32 08-S

IMPLANTS

JULIET®Ti OL OPTION INSERT/ROTATE



LORDOSIS 6°

HEIGHT	LENGTH	WIDTH	REFERENCE
H09	L28	08	JIR-O6 28 09-S
H10	L28	09	JIR-O6 28 10-S
H11	L28	10	JIR-O6 28 11-S
H12	L28	10.5	JIR-O6 28 12-S
H13	L28	10.5	JIR-O6 28 13-S
H14	L28	10.5	JIR-O6 28 14-S

LORDOSIS 12°

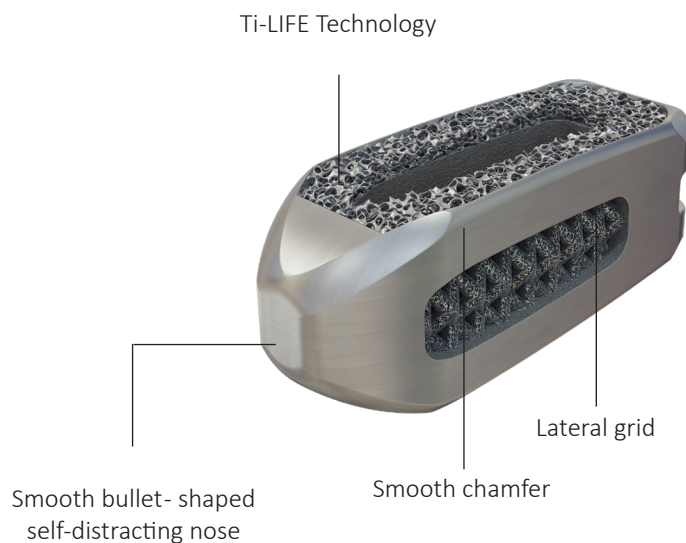
HEIGHT	LENGTH	WIDTH	REFERENCE
H09	L28	08	JIR-OX 28 09-S
H10	L28	09	JIR-OX 28 10-S
H11	L28	10	JIR-OX 28 11-S
H12	L28	10.5	JIR-OX 28 12-S
H13	L28	10.5	JIR-OX 28 13-S
H14	L28	10.5	JIR-OX 28 14-S

HEIGHT	LENGTH	WIDTH	REFERENCE
H09	L32	08	JIR-O6 32 09-S
H10	L32	09	JIR-O6 32 10-S
H11	L32	10	JIR-O6 32 11-S
H12	L32	10.5	JIR-O6 32 12-S
H13	L32	10.5	JIR-O6 32 13-S
H14	L32	10.5	JIR-O6 32 14-S

HEIGHT	LENGTH	WIDTH	REFERENCE
H09	L32	08	JIR-OX 32 09-S
H10	L32	09	JIR-OX 32 10-S
H11	L32	10	JIR-OX 32 11-S
H12	L32	10.5	JIR-OX 32 12-S
H13	L32	10.5	JIR-OX 32 13-S
H14	L32	10.5	JIR-OX 32 14-S

IMPLANTS

JULIET® Ti PO NARROW



LORDOSIS 6° NARROW

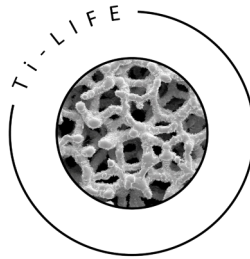
HEIGHT	LENGTH	WIDTH	REFERENCE
H07	L24	8	JUN-P6 24 07-S
H08	L24	8	JUN-P6 24 08-S
H09	L24	8	JUN-P6 24 09-S
H10	L24	8.5	JUN-P6 24 10-S
H11	L24	9	JUN-P6 24 11-S
H12	L24	9	JUN-P6 24 12-S
H13	L24	9	JUN-P6 24 13-S
H14	L24	9	JUN-P6 24 14-S

LORDOSIS 12° NARROW (OPTIONAL)

HEIGHT	LENGTH	WIDTH	REFERENCE
H08	L24	8	JUN-PX 24 08-S
H09	L24	8	JUN-PX 24 09-S
H10	L24	8.5	JUN-PX 24 10-S
H11	L24	9	JUN-PX 24 11-S
H12	L24	9	JUN-PX 24 12-S
H13	L24	9	JUN-PX 24 13-S
H14	L24	9	JUN-PX 24 14-S

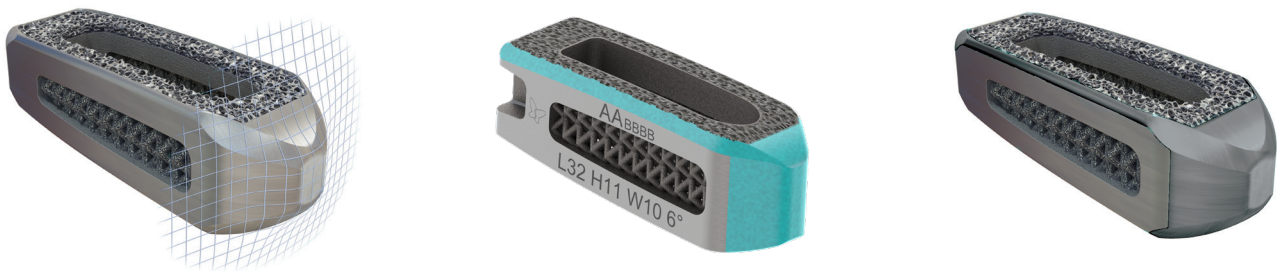
TECHNICAL FEATURES

Ti-LIFE Technology



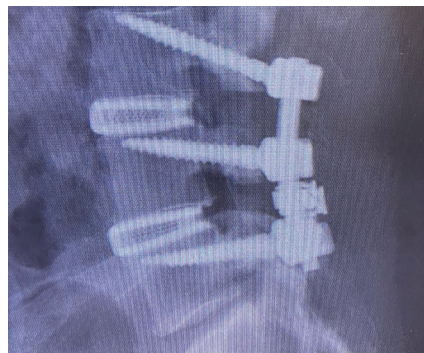
The structure mimics the architecture of trabecular bone and is designed to promote bone ingrowth. This technology is based on a proprietary algorithm combined with a unique additive manufacturing process commonly referred to as 3D printing.

SMOOTH BULLET-SHAPED SELF-DISTRACTING NOSE



The cages feature a smooth bullet-shaped self-distracting nose and polished chamfer. This design allows for ease of insertion, enabling distraction of the intervertebral space while mitigating the risk of damaging the endplates, nerve roots and soft tissue.

OPTIMAL VISUALIZATION

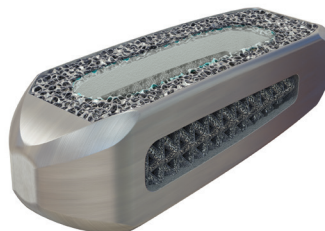


X-RAY image courtesy of: Connor J. Telles, M.D. | Sierra Pacific Orthopedics | California

The JULIET®Ti cages features an overall reduced density, optimizing medical imaging and postoperative evaluations.

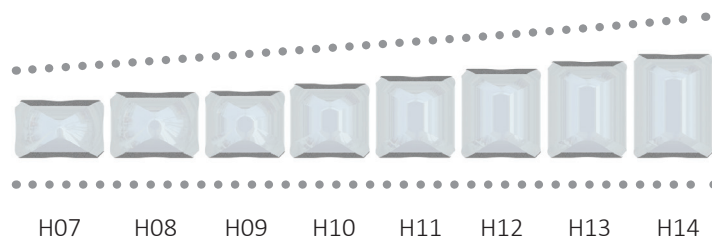
TECHNICAL FEATURES

BONE GRAFT



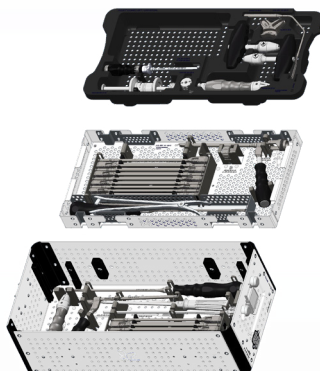
The large windows provide an extensive bone graft area so that the entire cage surface is available for bone fusion without compromising the mechanical properties of the cage.

COMPLETE RANGE



JULIET®Ti PO/OL cages are available in a wide range of options, to address different patient anatomies, and various surgical approach techniques. For a detailed list of cages please refer to pages 6 to 8 of this guide.

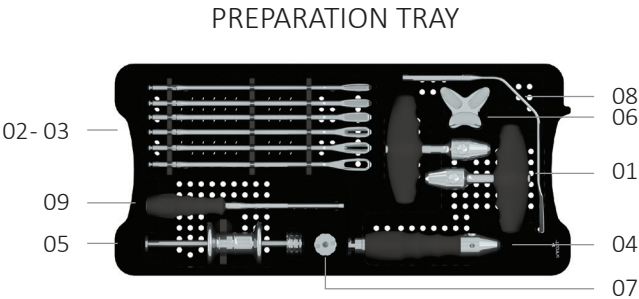
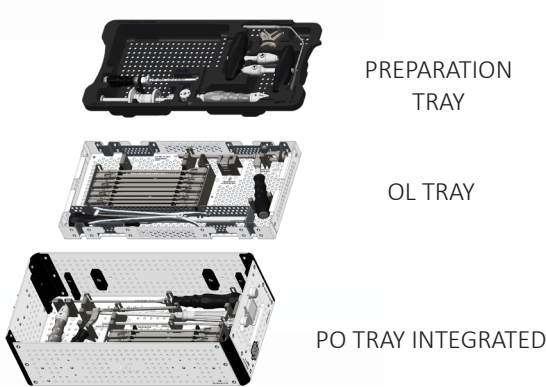
STREAMLINED AND COMPACT INSTRUMENTATION



The PO/OL instrument set provides a complete and compact solution.

INSTRUMENT SET

PO/OL INSTRUMENT SET



UNIVERSAL CONTAINER

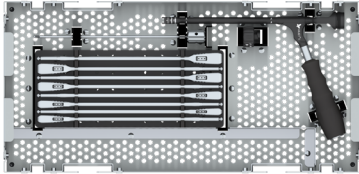
#	DESCRIPTION	REFERENCE
	BASE	JUL-BX 40 01-N
	LID	LID-BX 15 00-N

PREPARATION TRAY

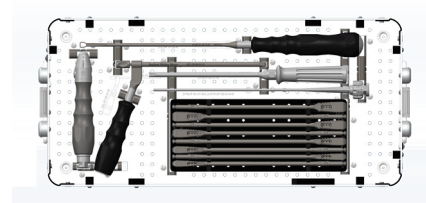
#	DESCRIPTION	REFERENCE
	UNIVERSAL INSERT	JUL-BX 10 02-N
	UNIVERSAL RACK	JUL-BX 10 05-N
01	T HANDLE	HAN-SI MD TE-N
02	PADDLE DISTRATOR	JUL-IN 00 05-N JUL-IN 00 06-N JUL-IN 00 07-N
03	DISC SHAVER	JUL-IN 01 07-N JUL-IN 00 08-N JUL-IN 00 09-N JUL-IN 00 10-N JUL-IN 00 11-N JUL-IN 00 12-N JUL-IN 00 13-N JUL-IN 00 14-N
04	MODULAR STRAIGHT HANDLE	HAN-SI SH ST-N
05	SLAP HAMMER	HAN-SS SH 01-N
06	COMPACTION BASE	JUT-IN 00 01-N
07	IMPACTOR CAP	HAN-SS SH 02-N
08	NERVE ROOT RETRACTOR	DYN-IP 00 05-N
09	COMPACTOR	JUL-IN 14 00-N

INSTRUMENT SET

OL TRAY



PO TRAY INTEGRATED



OL TRAY

#	DESCRIPTION	REFERENCE
	JULIET® COMBO SET - TRAY INSERT/ ROTATE	JUL-BX 10 13-N
	JULIET® COMBO SET - RACK INSERT/ ROTATE	JUL-BX 10 14-N
	INSERT/ROTATE IMPLANT HOLDER	JIR-IN 00 02-N
	TRIAL IMPLANT Ti PO/OL 6°	JUT-IN 01 07-N JUT-IN 01 08-N
	TRIAL IMPLANT Ti PO/OL SMALL WIDTH 6°	JUT-IN 02 09-N
	TRIAL JULIET Ti PO/OL 6°	JIR-IN 02 10-N JIR-IN 02 11-N
	TRIAL IMPLANT Ti PO/OL 6°	JUT-IN 01 12-N JUT-IN 01 13-N JUT-IN 01 14-N
	RASP PO/OL TRIAL IMPLANT 12°	JUT-IN 07 08-N
	TRIAL JULIET Ti PO/OL 12°	JIR-IN 07 09-N JIR-IN 07 10-N JIR-IN 07 11-N
	RASP PO/OL TRIAL IMPLANT 12°	JUT-IN 07 12-N JUT-IN 07 13-N JUT-IN 07 14-N

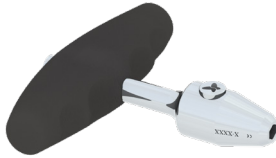
PO TRAY

#	DESCRIPTION	REFERENCE
	JULIET® COMBO SET - TRIAL RACK PO NARROW	JUL-BX 40 11-N
	TRIAL IMPLANT Ti PO/OL SMALL WIDTH 6°	JUT-IN 02 07-N JUT-IN 02 08-N JUT-IN 02 09-N JUT-IN 02 10-N JUT-IN 02 11-N JUT-IN 02 12-N JUT-IN 02 13-N JUT-IN 02 14-N
	RASP PO/OL TRIAL IMPLANT SMALL WIDTH 12°	JUT-IN 08 08-N JUT-IN 08 09-N JUT-IN 08 10-N JUT-IN 08 11-N JUT-IN 08 12-N JUT-IN 08 13-N JUT-IN 08 14-N
	IMPLANT HOLDER	DYN-IP 00 01-N
	MICRO IMPLANT HOLDER	JUL-IO 00 01-N
	CURETTE	JUL-IN 15 00-N

INSTRUMENTS

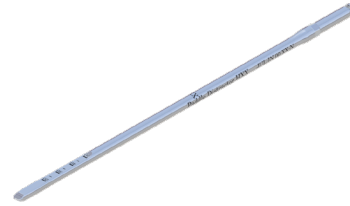
T HANDLE

HAN-SI MD TE-N



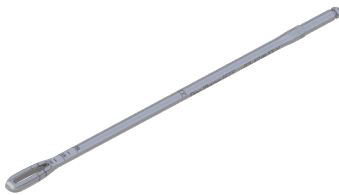
PADDLE DISTRACTOR

JUL-IN 00 XX-N



DISC SHAVER

JUL-IN 0X XX-N



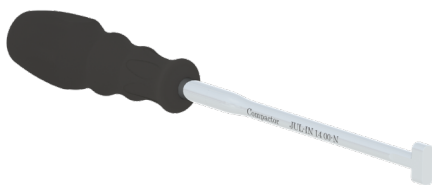
MODULAR STRAIGHT HANDLE

HAN-SI SH ST-N



COMPACTOR

JUL-IN 14 00-N



SLAP HAMMER

HAN-SS SH 01-N



CURETTE

JUL-IN 15 00-N



COMPACTION BASE

JUT-IN 00 01-N



INSTRUMENTS

IMPACTOR CAP

HAN-SS SH 02-N



NERVE ROOT RETRACTOR

DYN-IP 00 05-N



IMPLANT HOLDER

DYN-IP 00 01-N



IMPLANT HOLDER MICRO

JUL-IO 00 01-N



TRIAL IMPLANT TI PO/OL 6°

RASP PO/OL TRIAL IMPLANT 12°

RASP PO/OL TRIAL IMPLANT
SMALL WIDTH 12°

TRIAL IMPLANT TI PO/OL SMALL
WIDTH 6°

JUT-IN 0X XX-N

TRIAL JULIET TI PO/OL 6°

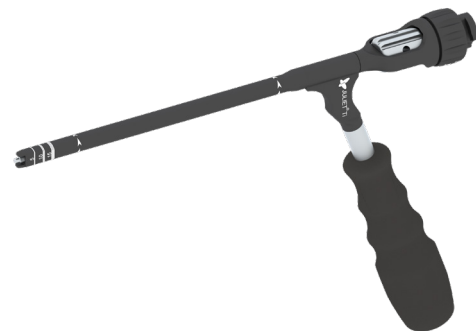
TRIAL JULIET TI PO/OL 12°

JIR-IN 0X XX-N



INSERT ROTATE IMPLANT HOLDER

JIR-IN 00 02-N



SURGICAL TECHNIQUE

JULIET®Ti PO

_STEP 1



DISCECTOMY AND PREPARATION OF THE ENDPLATES

Remove partially the facet joints.

Once the approach is done, distract the disc space thanks to **Paddle Distractors**, previously assembled with the **Modular Straight Handle**, or the **T-Handle**, for a better rotation.

Proceed to the discectomy.

Prepare and freshen the endplates using the 1mm increment **Disc Shavers**. A **Curette** can also be used .

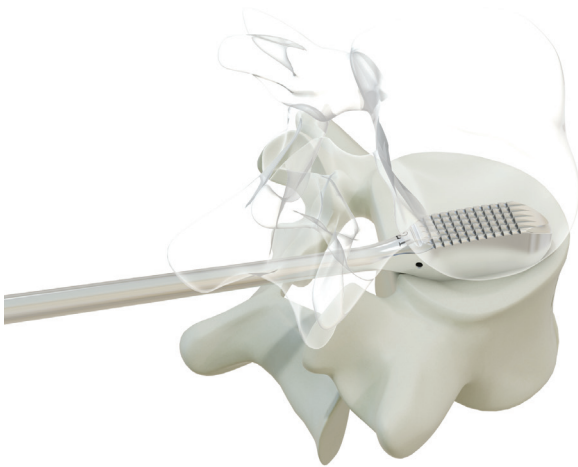
For protection of the dura, a **Nerve Root Retractor** is available.

INSTRUMENT	REFERENCE
NERVE ROOT RETRACTOR	DYN-IP 00 05-N
CURETTE	JUL-IN 15 00-N
DISC SHAVER	JUL-IN 0X XX-N
PADDLE DISTRACTOR	JUL-IN 00 XX-N
T-HANDLE	HAN-SI MD TE-N
MODULAR STRAIGHT HANDLE	HAN-SI SH ST-N

SURGICAL TECHNIQUE

JULIET®Ti PO

_STEP 2



SELECTION OF THE IMPLANT SIZE

To determine the right cage to implant, it is mandatory to use dedicated **PO Implant Trials**.

To insert the **Implant Trials**, physicians can connect the **Impactor Cap** to the **Modular Straight Handle** to gently hammer on the assembly.

Once satisfied with the selected trial size, proceed to fluoroscopic controls to confirm the correct sizing.

You can use the **Slap Hammer** to remove the **Implant Trial**.

INSTRUMENT	REFERENCE
TRIAL IMPLANT Ti PO/OL SMALL WIDTH 6°	JUT-IN 02 XX-N
RASP PO/OL TRIAL IMPLANT SMALL WIDTH 12°	JUT-IN 08 XX-N
NERVE ROOT RETRACTOR	DYN-IP 00 05-N
MODULAR STRAIGHT HANDLE	HAN-SI SH ST-N
SLAP HAMMER	HAN-SS SH 01-N
IMPACTOR CAP	HAN-SS SH 02-N

_STEP 3



CAGE PREPARATION

Select the corresponding cage.

Position the cage on the **Compaction Base**.

Fill it with bone graft or bone substitute.

Once the cage is prepared, connect it with the **Implant Holder**.

INSTRUMENT	REFERENCE
IMPLANT HOLDER PO	DYN-IP 00 01-N
IMPLANT HOLDER MICRO	JUL-IO 00 01-N
COMPACTION BASE	JUT-IN 00 01-N
COMPACTOR	JUL-IN 14 00-N

SURGICAL TECHNIQUE

JULIET®Ti PO

_STEP 4



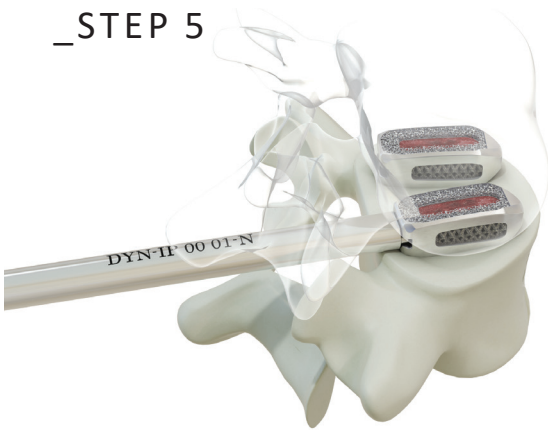
INSERTION

Insert the cage into the disc space by protecting the dura with the **Nerve Root Retractor**.

It is possible to gently hammer on the **Implant Holder** handle to ease the insertion of the implant.

INSTRUMENT	REFERENCE
NERVE ROOT RETRACTOR	DYN-IP 00 05-N
IMPLANT HOLDER PO	DYN-IP 00 01-N
IMPLANT HOLDER MICRO	JUL-IO 00 01-N

_STEP 5

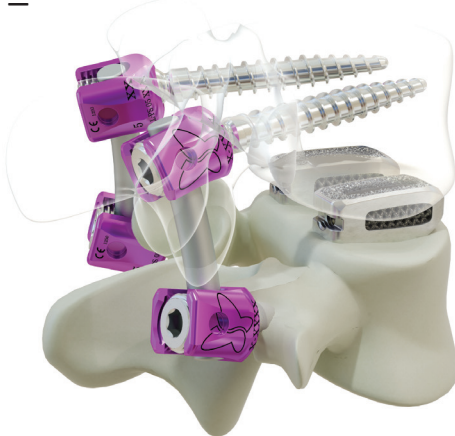


INSERTION OF THE SECOND CAGE

Repeat steps 3 and 4 to ensure the placement of the second cage.

INSTRUMENT	REFERENCE
IMPLANT HOLDER PO	DYN-IP 00 01-N
IMPLANT HOLDER MICRO	JUL-IO 00 01-N

_FINAL CONSTRUCT



_IMPLANT REMOVAL

The JULIET®Ti PO cages should be used with a supplemental posterior fixation system, as described in the ROMEO®2, ROMEO®2 MIS, ROMEO®2 PAD, PERLA® TL and PERLA® TL MIS surgical techniques, or an anterior fixation system.

Compression forceps should be used for final compression of the construct.

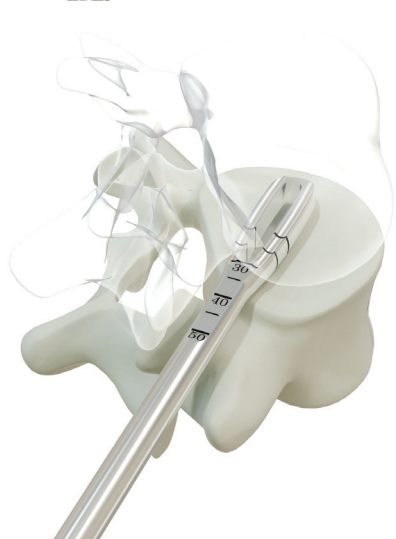
Connect the JULIET®Ti PO cage to the implant holder.

Proceed with implant removal.

SURGICAL TECHNIQUE

JULIET®Ti OL

_STEP 1



DISCECTOMY AND PREPARATION OF THE ENDPLATES

Partially remove the facet joints.

Once the approach is done, distract the disc space with the **Paddle Distractors**, previously assembled with the modular straight handle, or the **T-Handle**, for a better rotation.

Proceed to the discectomy.

Prepare and freshen the endplates using the 1mm increment **Disc Shavers**. A **Curette** can also be used.

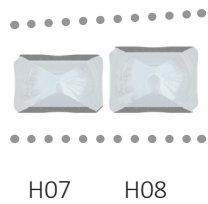
For protection of the dura, a **Nerve Root Retractor** is available.

INSTRUMENT	REFERENCE
NERVE ROOT RETRACTOR	DYN-IP 00 05-N
CURETTE	JUL-IN 15 00-N
DISC SHAVER	JUL-IN 0X XX-N
PADDLE DISTRACTOR	JUL-IN 00 XX-N
T-HANDLE	HAN-SI MD TE-N
MODULAR STRAIGHT HANDLE	HAN-SI SH ST-N

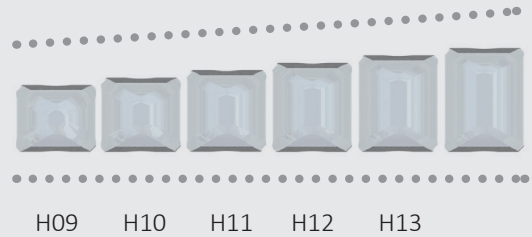
S U R G I C A L T E C H N I Q U E

JULIET®Ti OL

JULIET®Ti OL



JULIET®Ti OL WITH INSERT / ROTATE OPTION



CAGE INSERTION

Standard OL cage insertion (graft window oriented cranial-caudal)

- Standard OL cage insertion (graft window oriented cranial-caudal)
- Insert/Rotate technique: cage inserted on side and rotated

IMPLANT HOLDER



DYN-IP 00 01-N



JUL-IO 00 01-N



JIR-IN 00 02-N

NOTE : JULIET®Ti OL Cages heights 7 and 8mm and JULIET®Ti OL cages from height 9mm have to be used with different implant holders.

S U R G I C A L T E C H N I Q U E

JULIET®Ti OL

_STEP 2 - SELECTION OF THE IMPLANT SIZE

FOR HEIGHTS 7 & 8MM

To determine the right cage to implant, it is mandatory to use dedicated JULIET®Ti OL Implant Trials.

Each **Implant Trial** represents the different lengths.

To insert the **Implant Trials**, connect the **Impactor Cap** to the **Modular Straight Handle** to gently hammer the assembly in.

Once satisfied with the trial size selected, carry out fluoroscopic checks to confirm the correct sizing.

Use the **Slap Hammer** to remove the **Implant Trial**.

NOTE: These **Implant Trials** can also be used to further rasp the endplates.

HEIGHTS 9MM AND ABOVE

To determine the right cage to implant, it is mandatory to use dedicated JULIET®Ti OL Insert/ Rotate **Implant Trials**.

Each **Implant Trial** represents the different lengths.

To insert the **Trial Implants**, the **Impactor Cap** can be connected to the **Modular Straight Handle** prior to gently hammering on the assembly.

The trial is inserted by the side - the rasp is not visible in this position.

Once the **Trial** is fully inserted, rotate the **Trial** at 90°.

Once satisfied with the selected trial size, proceed to fluoroscopic controls to confirm the correct sizing.

You can use the **Slap Hammer** to remove the **Implant Trial**.

NOTE: These **Implant Trials** can also be used to further rasp the endplates.

SURGICAL TECHNIQUE

JULIET®Ti OL

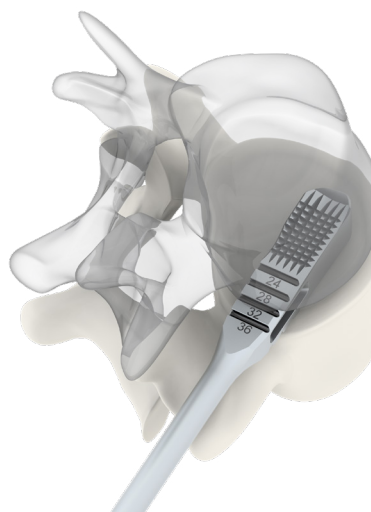
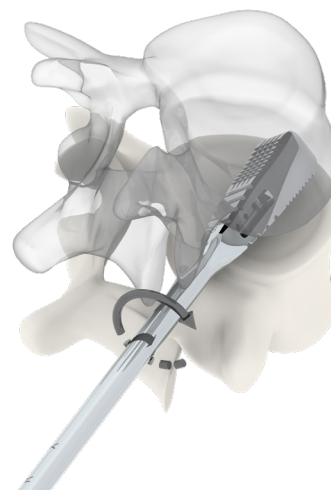
_STEP 2 - H7 & H8MM

INSTRUMENT	REFERENCE
TRIAL IMPLANT Ti PO/OL 6°	JUT-IN 01 XX-N
RASP PO/OL TRIAL IMPLANT 12°	JUT-IN 07 08-N
NERVE ROOT RETRACTOR	DYN-IP 00 05-N
TRIAL IMPLANT Ti PO/OL SMALL WIDTH	JUT-IN 02 XX-N
MODULAR STRAIGHT HANDLE	HAN-SI SH ST-N
SLAP HAMMER	HAN-SS SH 01-N
IMPACTOR CAP	HAN-SS SH 02-N



_STEP 2 - H9MM AND ABOVE

INSTRUMENT	REFERENCE
TRIAL IMPLANT Ti PO/OL SMALL WIDTH 6°	JUT-IN 02 09-N
TRIAL JULIET®Ti PO/OL 6°	JIR-IN 02 XX-N
TRIAL IMPLANT Ti PO/OL 6°	JUT-IN 01 XX-N
TRIAL JULIET®Ti PO/OL 12°	JIR-IN 07 XX-N
RASP PO/OL TRIAL IMPLANT 12°	JUT-IN 07 XX-N
NERVE ROOT RETRACTOR	DYN-IP 00 05-N
MODULAR STRAIGHT HANDLE	HAN-SI SH ST-N
SLAP HAMMER	HAN-SS SH 01-N
IMPACTOR CAP	HAN-SS SH 02-N



S U R G I C A L T E C H N I Q U E

JULIET®Ti OL

_STEP 3 - CAGE PREPARATION

H7 & H8MM

Select the corresponding cage.

Connect it with the **Implant Holder**.

Position the cage on the **Compaction Base**.

These spinal implants are to be used with autogenous bone graft and/or allogenic bone graft comprised of cancellous and/or corticocancellous bone graft.

INSTRUMENT	REFERENCE
IMPLANT HOLDER PO	DYN-IP 00 01-N
IMPLANT HOLDER MICRO	JUL-IO 00 01-N
COMPACTION BASE	JUT-IN 00 01-N
COMPACTOR	JUL-IN 14 00-N



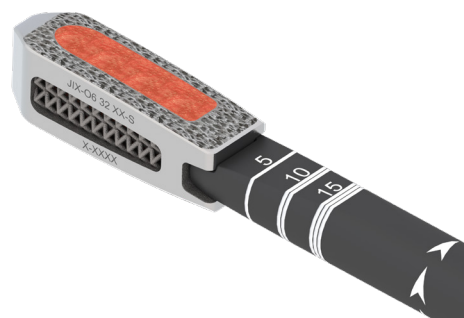
H9MM AND ABOVE

Select the corresponding cage.

Connect it with the **Insert/Rotate Implant Holder**.

These spinal implants are to be used with autogenous bone graft and/or allogenic bone graft comprised of cancellous and/or corticocancellous bone graft.

INSTRUMENT	REFERENCE
INSERT/ROTATE IMPLANT HOLDER	JIR-IN 00 02-N
COMPACTION BASE	JUT-IN 00 01-N
COMPACTOR	JUL-IN 14 00-N



SURGICAL TECHNIQUE

JULIET®Ti OL

NOTE: HOW TO ASSEMBLE THE INSERT/ROTATE IMPLANT HOLDER



Insert the Inner Shaft of the Inserter into the Outer Shaft.



Screw counter clockwise the cap onto the Outer Shaft.



Align the inserter tip tabs with the recess on the implant.



Advance and rotate the Inserter knob clockwise to engage and secure the cage.

SURGICAL TECHNIQUE

JULIET®Ti OL

_STEP 4 - CAGE INSERTION

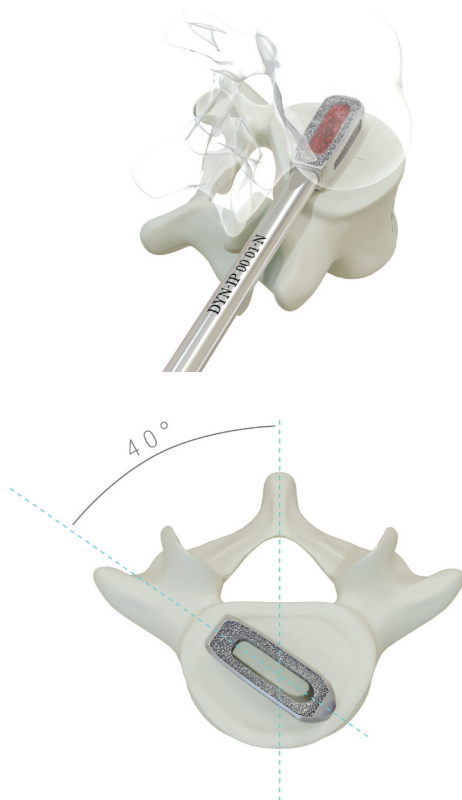
H7 & H8MM

Insert the cage into the disc space while protecting the dura with the **Nerve Root Retractor**.

It is possible to gently hammer on the **Implant Holder** handle to ease the insertion of the implant.

NOTE: The placement angle of the JULIET®Ti OL implant is 40 degrees from the median plane.

INSTRUMENT	REFERENCE
NERVE ROOT RETRACTOR	DYN-IP 00 05-N
IMPLANT HOLDER PO	DYN-IP 00 01-N
IMPLANT HOLDER MICRO	JUL-IO 00 01-N



H9MM AND ABOVE

Insert the cage into the disc space while protecting the dura with the **Nerve Root Retractor**.

NOTE: Cages from height 9MM and above can be inserted in 2 ways:

- Standard OL cage insertion (graft window oriented cranial-caudal)
- Insert/Rotate technique: cage inserted on side and rotated

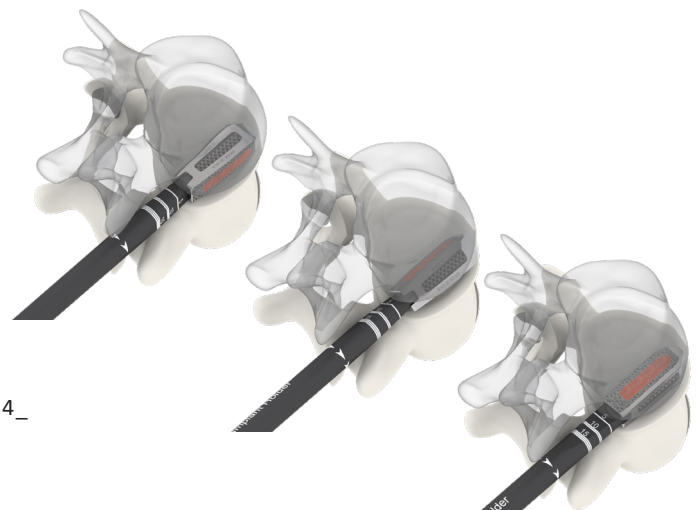
When the cage is inserted by the side, the graft window is not visible in this position. Once the cage is fully inserted, rotate the cage clockwise at 90°.

It is possible to gently hammer on the implant holder handle to ease the insertion of the implant.

⚠ WARNING: Use fluoroscopy to confirm cage positioning before to proceed to the rotation.

NOTE: Placement angle of the JULIET®Ti OL Insert/Rotate is 40 degrees from the median plane.

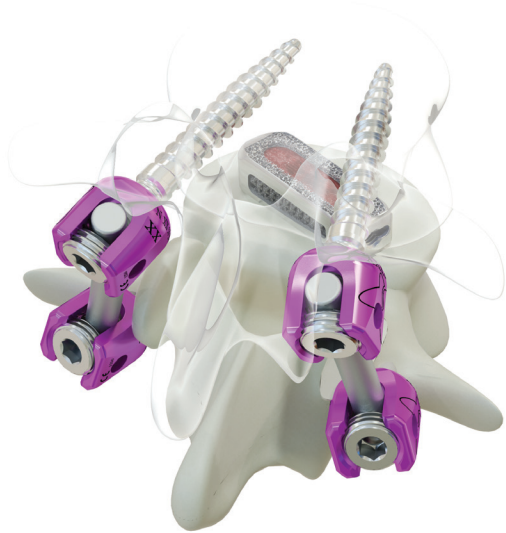
INSTRUMENT	REFERENCE
NERVE ROOT RETRACTOR	DYN-IP 00 05-N
INSERT/ROTATE IMPLANT HOLDER	JIR-IN 00 02-N



SURGICAL TECHNIQUE

JULIET®Ti OL

_FINAL CONSTRUCT



The JULIET®Ti OL cages and JULIET® Ti OL Insert/ Rotate cages should be used with a supplemental posterior fixation system, as described in the ROMEO®2, ROMEO®2 MIS, ROMEO®2 PAD, PERLA® TL and PERLA® TL MIS surgical techniques, or an anterior fixation system. Compression forceps should be used for final compression of the construct.

_IMPLANT REMOVAL

H7 & H8MM

Connect the JULIET®Ti OL cage to the implant holder micro and proceed with implant removal.

H9MM AND ABOVE

Connect the **Insert/Rotate Implant Holder** to the JULIET®Ti OL Insert /Rotate cage.

If needed, the **Slap Hammer** can be used to remove the cage.

Attach the **Slap Hammer** to the **Insert/Rotate Implant Holder** and slide the **Slap Hammer** upward.

Repeat this motion until the implant is removed.

NOTE



S P I N E A R T

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