
JULIET®
PO/OL

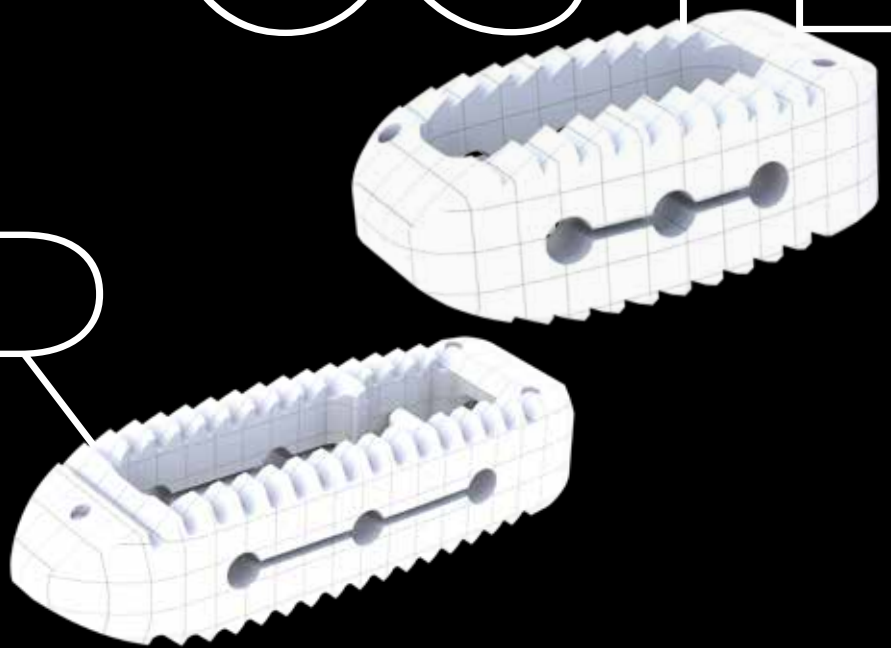
BY SPINEART

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CONCEPT AND DESIGN

In parallel to the ROMEO® posterior fusion system, Spineart developed in 2006 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}, JULIET®_{AN} 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.

In each product development, Spineart is relentlessly driven by the same motto: Quality, Innovation, Simplicity

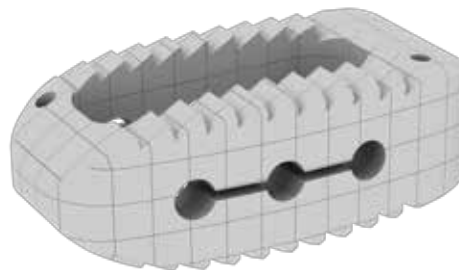
AT A GLANCE

EASY INSERTION

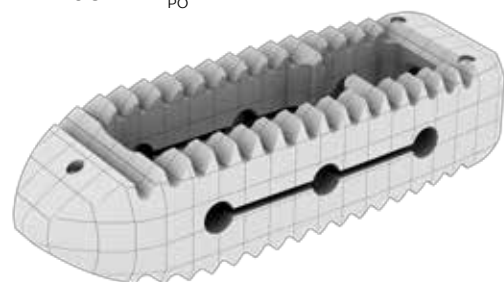
LOAD SHARING CONCEPT

LARGE GRAFT WINDOW

COMPACT SET



JULIET®_{PO}



JULIET®_{OL}

INDICATIONS

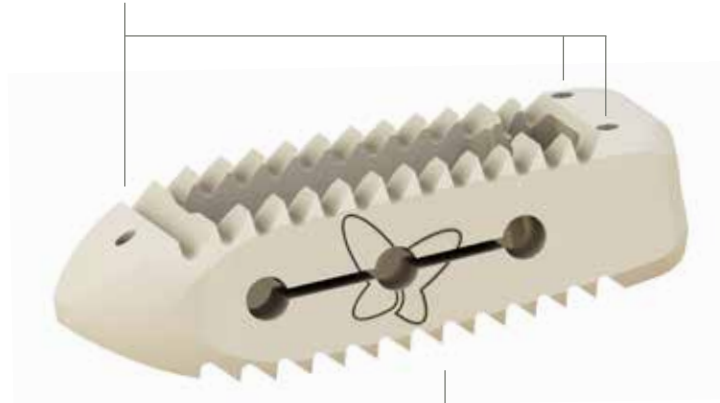
The JULIET® range is indicated in following pathologies between S1 to L2:

- Lumbar hernia
- Lumbarthrosis
- Degenerative disc disease
- Spondylolisthesis



IMPLANTS OLIF

3 TANTALUM MARKERS



PEEK Cage

REFERENCES

ANATOMICAL CAGE

H07	L28mm	JUL-OL 28 07-S
H08	L28mm	JUL-OL 28 08-S
H10	L28mm	JUL-OL 28 10-S
H12	L28mm	JUL-OL 28 12-S
H14	L28mm	JUL-OL 28 14-S
H07	L32mm	JUL-OL 32 07-S
H08	L32mm	JUL-OL 32 08-S
H10	L32mm	JUL-OL 32 10-S
H12	L32mm	JUL-OL 32 12-S
H14	L32mm	JUL-OL 32 14-S

REFERENCES

LORDOTIC CAGE

LORDOSIS 9°

H07	L28mm	JUL-OX 28 07-S
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LORDOSIS 12°

H08	L28mm	JUL-OX 28 08-S
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H10	L28mm	JUL-OX 28 10-S
-----	-------	----------------

H12	L28mm	JUL-OX 28 12-S
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H14	L28mm	JUL-OX 28 14-S
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LORDOSIS 9°

H07	L32mm	JUL-OX 32 07-S
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LORDOSIS 12°

H08	L32mm	JUL-OX 32 08-S
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H10	L32mm	JUL-OX 32 10-S
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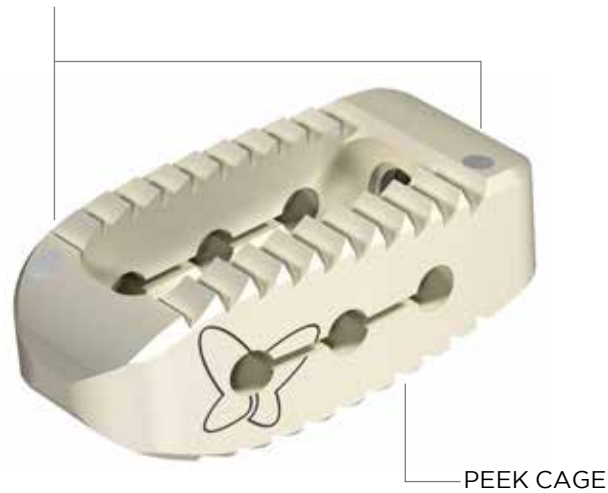
H12	L32mm	JUL-OX 32 12-S
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H14	L32mm	JUL-OX 32 14-S
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IMPLANTS PLIF

2 TANTALUM MARKERS



REFERENCES

ANATOMICAL CAGE

LORDOSIS 0°

H08	L22mm	DYN-P0 22 08-S
H10	L22mm	DYN-P0 22 10-S
H12	L22mm	DYN-P0 22 12-S
H14	L22mm	DYN-P0 22 14-S

LORDOTIC CAGE

LORDOSIS 5°

H08	L22mm	DYN-P5 22 08-S
H10	L22mm	DYN-P5 22 10-S
H12	L22mm	DYN-P5 22 12-S
H14	L22mm	DYN-P5 22 14-S

REFERENCES

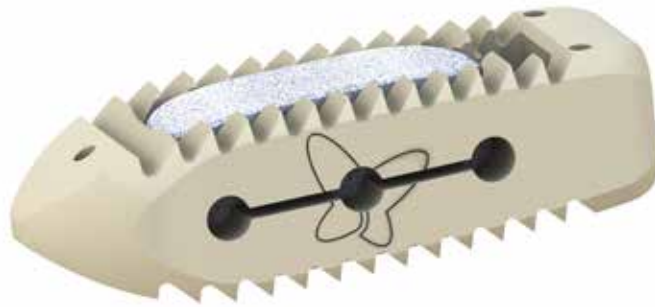
EXTRA LORDOTIC CAGE

LORDOSIS 9°

H08	L22mm	DYN-PX 22 08-S
LORDOSIS 12°		
H10	L22mm	DYN-PX 22 10-S
H12	L22mm	DYN-PX 22 12-S
H14	L22mm	DYN-PX 22 14-S



PREFILLED IMPLANTS OLIF



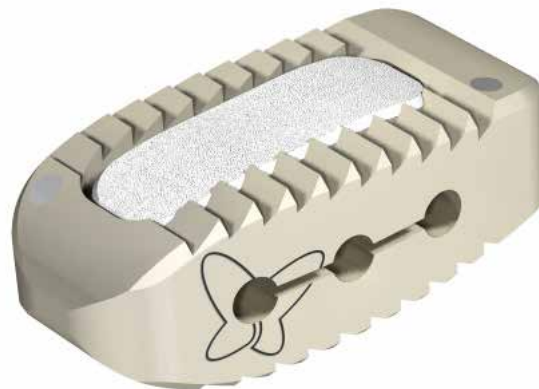
REFERENCES		
ANATOMICAL CAGE		
H07	L28mm	JUS-OL 28 07-S
H08	L28mm	JUS-OL 28 08-S
H10	L28mm	JUS-OL 28 10-S
H12	L28mm	JUS-OL 28 12-S
H14	L28mm	JUS-OL 28 14-S
H07	L32mm	JUS-OL 32 07-S
H08	L32mm	JUS-OL 32 08-S
H10	L32mm	JUS-OL 32 10-S
H12	L32mm	JUS-OL 32 12-S
H14	L32mm	JUS-OL 32 14-S

REFERENCES		
LORDOTIC CAGE		
LORDOSIS 9°		
H07	L28mm	JUS-OX 28 07-S
LORDOSIS 12°		
H08	L28mm	JUS-OX 28 08-S
H10	L28mm	JUS-OX 28 10-S
H12	L28mm	JUS-OX 28 12-S
H14	L28mm	JUS-OX 28 14-S
LORDOSIS 9°		
H07	L32mm	JUS-OX 32 07-S
LORDOSIS 12°		
H08	L32mm	JUS-OX 32 08-S
H10	L32mm	JUS-OX 32 10-S
H12	L32mm	JUS-OX 32 12-S
H14	L32mm	JUS-OX 32 14-S

REFERENCES	
BONE SUBSTITUTE FOR LORDOTIC CAGES	
H07	JUL-XU 00 07-S
H08	JUL-XU 00 08-S
H10	JUL-XU 00 10-S
H12	JUL-XU 00 12-S
H14	JUL-XU 00 14-S



PREFILLED IMPLANTS PLIF



REFERENCES		
ANATOMICAL CAGE		
LORDOSIS 0°		
H08	L22mm	DYS-P0 22 08-S
H10	L22mm	DYS-P0 22 10-S
H12	L22mm	DYS-P0 22 12-S
H14	L22mm	DYS-P0 22 14-S

REFERENCES		
EXTRA LORDOTIC CAGE		
LORDOSIS 9°		
H08	L22mm	DYS-PX 22 08-S
LORDOSIS 12°		
H10	L22mm	DYS-PX 22 10-S
H12	L22mm	DYS-PX 22 12-S
H14	L22mm	DYS-PX 22 14-S

REFERENCES		
ANATOMICAL CAGE		
LORDOSIS 5°		
H08	L22mm	DYS-P5 22 08-S
H10	L22mm	DYS-P5 22 10-S
H12	L22mm	DYS-P5 22 12-S
H14	L22mm	DYS-P5 22 14-S

REFERENCES		
BONE SUBSTITUTE		
H08	L22mm	DYN-BS 22 08-S
H10	L22mm	DYN-BS 22 10-S
H12	L22mm	DYN-BS 22 12-S
H14	L22mm	DYN-BS 22 14-S

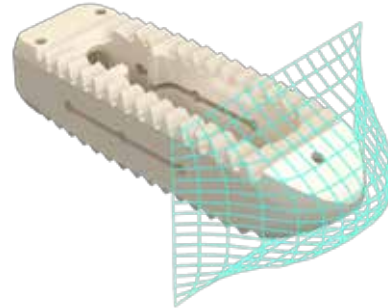
REFERENCES		
BONE SUBSTITUTE FOR EXTRA LORDOTIC CAGES		
H08	L22mm	DYN-XS 22 08-S
H10	L22mm	DYN-XS 22 10-S
H12	L22mm	DYN-XS 22 12-S
H14	L22mm	DYN-XS 22 14-S



TECHNICAL FEATURES

EASY INSERTION

- The anatomical shape of the devices allows an easy insertion in the disc space.
- JULIET[®]_{OL} is offered in anatomic and lordotic version.
- JULIET[®]_{PO} is offered in anatomic, lordotic, and extra-lordotic version.



LOAD SHARING CONCEPT

- The cage slits are designed to enhance physiological compression load. This concept is intended to distribute axial load through the cage in order to compress the graft, creating a better environment for fusion.



LARGE GRAFT WINDOW

- Large graft window to maximize fusion.



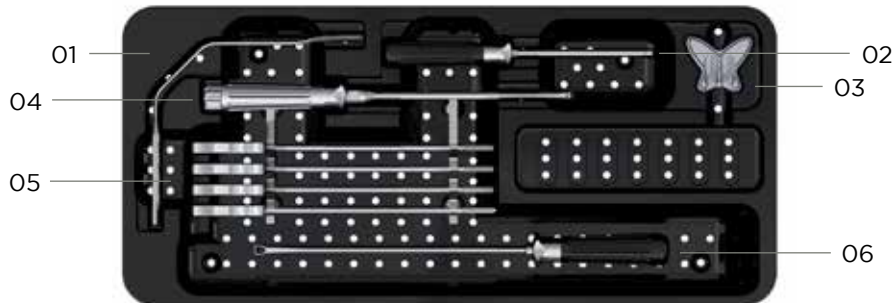
COMPACT SET

- Both OLIF and PLIF instrument sets are streamlined (respectively 6 and 5 instruments).
- Compact and modular set (JULIET[®] Combo set).



INSTRUMENT SET

STANDARD JULIET®_{PO} SET



STANDARD JULIET®_{OL} SET



STANDARD JULIET®_{PO} SET

#	DESCRIPTION	REFERENCE
01	NERVE ROOT RETRACTOR	DYN-IP 00 05-N
02	COMPACTOR	DYN-IP 00 02-N
03	COMPACTION BASE	DYN-IP 01 03-N
04	IMPLANT HOLDER	DYN-IP 00 01-N
05	TRIAL IMPLANT/DISTRACTOR/ RASP	DYN-IP 22 08-N DYN-IP 22 10-N DYN-IP 22 12-N DYN-IP 22 14-N
06	CURETTE	DYN-IP 00 06-N
	INSTRUMENT CONTAINER	DYN-BX 10 01-N

OPTION

PADDLE DISTRACTOR	JUL-IN 00 05-N JUL-IN 00 06-N JUL-IN 00 07-N
DISC SHAVER	JUL-IN 00 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
T HANDLE	HAN-SI MD TE-N

STANDARD JULIET®_{OL} SET

#	DESCRIPTION	REFERENCE
01	NERVE ROOT RETRACTOR	DYN-IP 00 05-N
02	COMPACTOR	DYN-IP 00 02-N
03	COMPACTION BASE	DYN-IP 01 03-N
04	IMPLANT HOLDER	DYN-IP 00 01-N
05	TRIAL IMPLANT/DISTRACTOR/ RASP	DYN-IP 22 08-N DYN-IP 22 10-N DYN-IP 22 12-N DYN-IP 22 14-N
06	CURETTE	DYN-IP 00 06-N
07	EXTRACTION MALLET	DYN-IA 00 03-N
	INSTRUMENT CONTAINER	DYN-BX 10 01-N

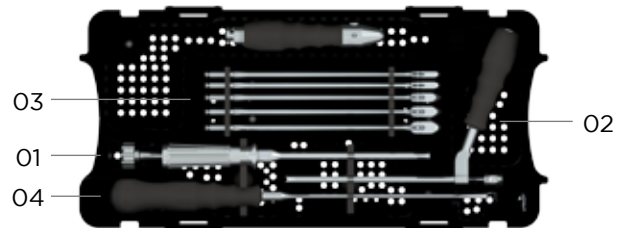
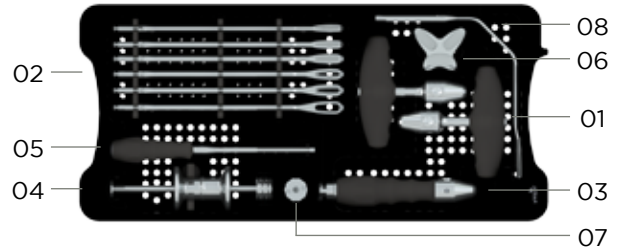
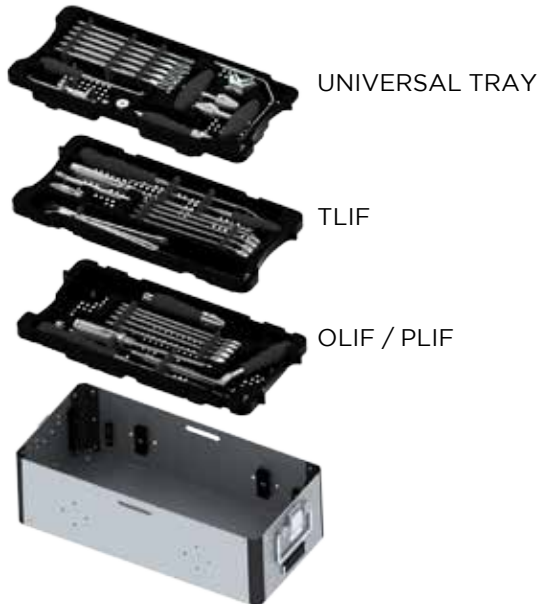
OPTION

IMPLANT HOLDER MICRO	JUL-IO 00 01-N
PADDLE DISTRACTOR	JUL-IN 00 05-N JUL-IN 00 06-N JUL-IN 00 07-N
DISC SHAVER	JUL-IN 00 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
T HANDLE	HAN-SI MD TE-N



INSTRUMENT SET

COMBO SET



UNIVERSAL TRAY

#	DESCRIPTION	REFERENCE
01	T HANDLE	HAN-SI MD TE-N
02	PADDLE DISTRACTOR (DEDICATED RACK)	JUL-IN 00 05-N JUL-IN 00 06-N JUL-IN 00 07-N
	DISC SHAVER (DEDICATED RACK)	JUL-IN 00 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
03	MODULAR STRAIGHT HANDLE	HAN-SI SH ST-N
04	SLAP HAMMER	HAN-SS SH 01-N
05	COMPACTOR	DYN-IP 00 02-N
06	"3 IN 1" COMPACTOR BASE	JUL-IN 01 00-N
07	IMPACTION CAP	HAN-SS SH 02-N
08	NERVE ROOT RETRACTOR	DYN-IP 00 05-N
	CONTAINER - BASE	JUL-BX 10 01-N
	CONTAINER - LID	LID-BX 01 00-N
	CONTAINER - UNIVERSAL TRAY	JUL-BX 10 02-N
	CONTAINER - UNIVERSAL RACK	JUL-BX 10 05-N
	CONTAINER - TL TRAY	JUL-BX 10 04-N
	CONTAINER - TL RACK	JUL-BX 10 07-N

PLIF/OLIF TRAY

#	DESCRIPTION	REFERENCE
01	IMPLANT HOLDER OLIF/PLIF	DYN-IP 00 01-N
02	IMPLANT HOLDER MICRO	JUL-IO 00 01-N
03	OLIF/PLIF TRIAL IMPLANTS (DEDICATED RACK)	JUL-IN 02 07-N JUL-IN 02 08-N JUL-IN 02 10-N JUL-IN 02 12-N JUL-IN 02 14-N
04	CURETTE	DYN-IP 00 06-N



INSTRUMENTS

T HANDLE

HAN-SI MD TE-N



DISC SHAVER

JUL-IN XX XX-N



COMPACTION BASE

DYN-IP 01 03-N



CURETTE

DYN-IP 00 06-N



IMPLANT HOLDER MICRO

JUL-IO 00 01-N



IMPLANT HOLDER

DYN-IP 00 01-N



COMPACTOR

DYN-IP 00 02-N



PADDLE DISTRACTOR

JUL-IN 00 XX-N



INSTRUMENTS

IMPACTION CAP

HAN-SS SH 02-N



EXTRACTION MALLET

DYN-IA 00 03-N



MODULAR STRAIGHT HANDLE

HAN-SI SH ST



SLAP HAMMER

HAN-SS SH 01-N



NERVE ROOT RETRACTOR

DYN-IP 00 05-N



TRIAL IMPLANT/DISTRACTOR/RASP

DYN-IP XX XX-N



COMPACTION BASE 3 IN 1

JUL-IN 01 00-N



SURGICAL TECHNIQUE JULIET® OL

STEP 1



DISCECTOMY

Carry out a partial arthrectomy and remove the disc while protecting the dura with the nerve root retractor.

INSTRUMENT	REFERENCE
NERVE ROOT RETRACTOR	DYN-IP 00 05-N
CURETTE	DYN-IP 00 06-N

STEP 2



PREPARATION OF THE ENDPLATES AND SELECTION OF THE IMPLANT SIZE

Insert the trial implant and turn it to 90° clockwise to distract, scrap the endplates and determine the appropriate cage size (3 in 1 instrument).

INSTRUMENT	REFERENCE
NERVE ROOT RETRACTOR	DYN-IP 00 05-N
TRIAL IMPLANT/DISTRACTOR/RASP	DYN-IP 22 08-N to DYN-IP 22 14-N
PADDLE DISTRACTOR	JUL-IN 00 05-N to JUL-IN 00 07-N
DISC SHAVER	JUL-IN 00 08-N to JUL-IN 00 14-N
T HANDLE	HAN-SI MD TE-N
OLIF/PLIF TRIAL IMPLANTS	JUL-IN 02 07-N to JUL-IN 02 14-N
MODULAR STRAIGHT HANDLE	HAN-SI SH ST-N

STEP 3



IMPLANT PREPARATION

Place the cage into the compaction base and fill it with tailor made bone graft.

INSTRUMENT	REFERENCE
COMPACTION BASE	DYN-IP 01 03-N
COMPACTION BASE 3 IN 1	JUL-IN 01 00-N



SURGICAL TECHNIQUE JULIET® OL

STEP 4

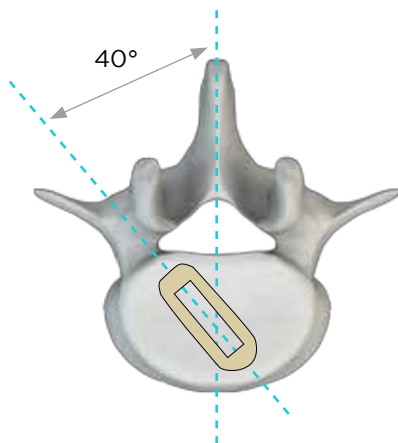
INSERTION



Insert the cage into the disc space while protecting the dura with the nerve root retractor.

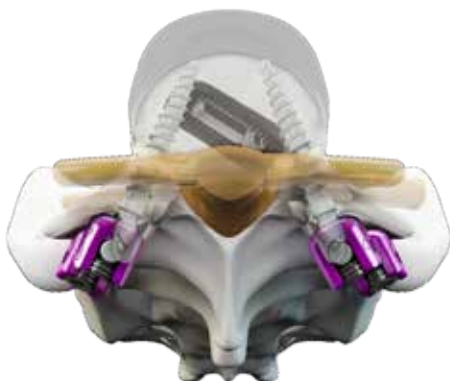
Note that the placement angle of the JULIET®_{OL} implant is 40 degrees from the median plane.

Note: To assure that the lordotic angle of the implant is correctly placed with respect to the patient's anatomy, the special eye shaped lasermarking should be oriented towards the median plane of the patient.



INSTRUMENT	REFERENCE
IMPLANT HOLDER	DYN-IP 00 01-N
IMPLANT HOLDER MICRO	JUL-IO 00 01-N
NERVE ROOT RETRACTOR	DYN-IP 00 05-N
COMPACTION BASE	DYN-IP 01 03-N
COMPACTOR	DYN-IP 00 02-N

FINAL CONSTRUCT



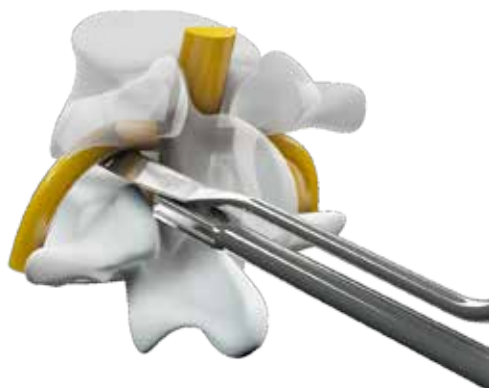
The JULIET®_{OL} can be used with a supplemental posterior fixation system, as described in the ROMEO®₂ surgical technique, or an anterior fixation system.

If needed, use the compression forceps to compress the construct.



SURGICAL TECHNIQUE JULIET® PO

STEP 1

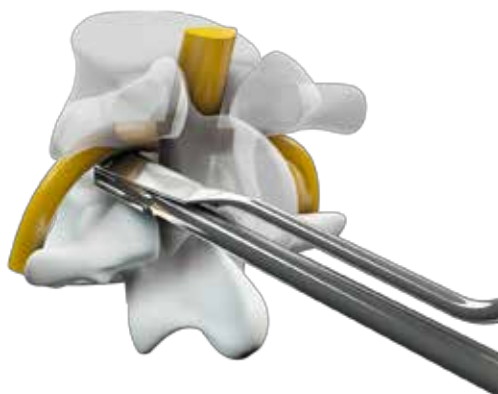


DISSECTOMY AND SELECTION OF THE IMPLANT SIZE

Remove the disc. Protect the dura by using the nerve root retractor and insert the trial implant to select the cage height.

INSTRUMENT	REFERENCE
NERVE ROOT RETRACTOR	DYN-IP 00 05-N
CURETTE	DYN-IP 00 06-N
TRIAL IMPLANT	DYN-IP 22 08-N to DYN-IP 22 14-N
DISC SHAVER	JUL-IN 00 08-N to JUL-IN 00 14-N
PADDLE DISTRACTOR	JUL-IN 00 05-N to JUL-IN 00 07-N
T HANDLE	HAN-SI MD TE-N
OLIF/PLIF TRIAL IMPLANTS	JUL-IN 02 07-N to JUL-IN 02 14-N
MODULAR STRAIGHT HANDLE	HAN-SI SH ST-N

STEP 2



PREPARATION OF THE ENDPLATES

Turn the trial implant 90° clockwise to distract and then freshen the endplates. Repeat steps 1 and 2 on the other side of the dura.

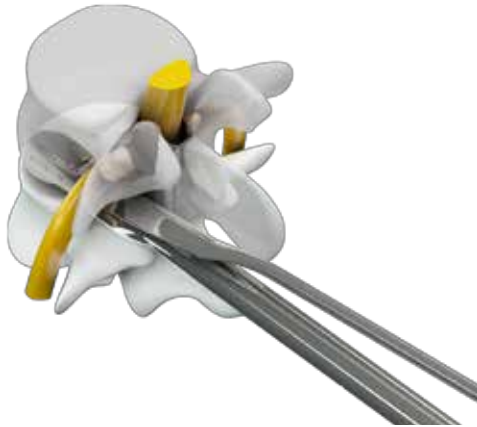
Note: the “3 in 1” instrument DYN-IP 22 XX-N can be used as trial implant, distractor and rasp.

INSTRUMENT	REFERENCE
TRIAL IMPLANT/DISTRACTOR/RASP	DYN-IP 22 08-N DYN-IP 22 10-N DYN-IP 22 12-N DYN-IP 22 14-N
NERVE ROOT RETRACTOR	DYN-IP 00 05-N
TRIAL IMPLANT	DYN-IP 22 08-N to DYN-IP 22 14-N
DISC SHAVER	JUL-IN 00 08-N to JUL-IN 00 14-N
PADDLE DISTRACTOR	JUL-IN 00 05-N to JUL-IN 00 07-N
T HANDLE	HAN-SI MD TE-N



SURGICAL TECHNIQUE JULIET® PO

STEP 3



INSERTION

Place the cage in the compaction base and fill it with tailor made bone graft. The cage is then attached to the implant holder.

Insert the cage into the disc space by protecting the dura with the nerve root retractor. Repeat step 3 with the second cage

INSTRUMENT	REFERENCE
IMPLANT HOLDER	DYN-IP 00 01-N
NERVE ROOT RETRACTOR	DYN-IP 00 05-N
COMPACTION BASE	DYN-IP 01 03-N
COMPACTION BASE 3 IN 1	JUL-IN 01 00-N

FINAL CONSTRUCT



The JULIET®_{PO} can be used with a supplemental posterior fixation system, as described in the ROMEO®₂ surgical technique, or an anterior fixation system.

If needed, use the compression forceps to compress the construct.



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United States of America

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0414-V1 ref. JUL-BR OL 31-E

S W I S S M A D E

