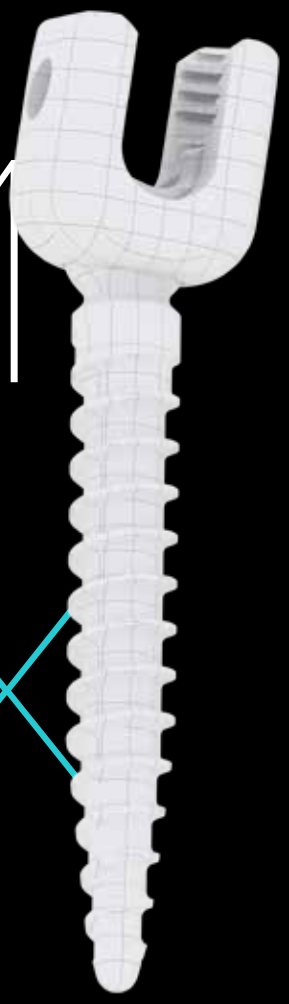
ROMEO®2

BY SPINEART

THORACO LUMBAR FIXATION



CONTENT

CONCEPT AND DESIGN **PAGE 04**

IMPLANTS **PAGE 05**

TECHNICAL FEATURES **PAGE 09**

INSTRUMENT SET **PAGE 10**

INSTRUMENTS **PAGE 12**

SURGICAL TECHNIQUE **PAGE 17**

CONCEPT AND DESIGN

Since 2005 Spineart has been following its motto: quality, innovation, simplicity, by developing highly performant systems for the treatment of spinal pathologies.
The ROMEO®2 posterior fixation system incorporates smart technologies and simplicity to address spine cases.
The first system offering a complete range of spinal implants delivered sterile with an intuitive and compact instrumentation.
ROMEO®2 is a complete posterior fixation system with unique and efficient technologies that offers alternative solutions to the surgeons and their patients.

AT A GLANCE

COMPLETE TL FIXATION PLATFORM

STREAMLINED SCREW TIP

LOW PROFILE IMPLANTS

COMPACT SET

SAFETY & TRACEABILITY

INDICATIONS

ROMEO®2 lumbar posterior osteosynthesis system is intended to provide immobilization and stabilization of thoraco-lumbo-sacral spine in skeletally mature patients for the following indications: DDD (degenerative disc disease), spondylolisthesis, trauma, spinal stenosis, curvatures, tumor, pseudoarthrosis and failed previous fusion.

IMPLANTS

POLYAXIAL SCREWS

LENGTH / DIAMETER	Ø4	Ø5	Ø6	Ø7	Ø8
L25	ELL-PS 04 25-S				
L30	ELL-PS 04 30-S	ELL-PS 05 30-S	ELL-PS 06 30-S	ELL-PS 07 30-S	ELL-PS 08 30-S
L35	ELL-PS 04 35-S	ELL-PS 05 35-S	ELL-PS 06 35-S	ELL-PS 07 35-S	ELL-PS 08 35-S
L40	ELL-PS 04 40-S	ELL-PS 05 40-S	ELL-PS 06 40-S	ELL-PS 07 40-S	ELL-PS 08 40-S
L45	ELL-PS 04 45-S	ELL-PS 05 45-S	ELL-PS 06 45-S	ELL-PS 07 45-S	ELL-PS 08 45-S
L50		ELL-PS 05 50-S	ELL-PS 06 50-S	ELL-PS 07 50-S	ELL-PS 08 50-S
L55			ELL-PS 06 55-S	ELL-PS 07 55-S	ELL-PS 08 55-S
L60			ELL-PS 06 60-S	ELL-PS 07 60-S	ELL-PS 08 60-S
L70			ELL-PS 06 70-S	ELL-PS 07 70-S	ELL-PS 08 70-S
L80			ELL-PS 06 80-S	ELL-PS 07 80-S	ELL-PS 08 80-S
L90			ELL-PS 06 90-S	ELL-PS 07 90-S	ELL-PS 08 90-S

MONOAXIAL SCREWS

LENGTH / DIAMETER	Ø4	Ø5	Ø6	Ø7	Ø8
L25	ELL-MS 04 25-S				
L30	ELL-MS 04 30-S	ELL-MS 05 30-S	ELL-MS 06 30-S	ELL-MS 07 30-S	ELL-MS 08 30-S
L35	ELL-MS 04 35-S	ELL-MS 05 35-S	ELL-MS 06 35-S	ELL-MS 07 35-S	ELL-MS 08 35-S
L40	ELL-MS 04 40-S	ELL-MS 05 40-S	ELL-MS 06 40-S	ELL-MS 07 40-S	ELL-MS 08 40-S
L45	ELL-MS 04 45-S	ELL-MS 05 45-S	ELL-MS 06 45-S	ELL-MS 07 45-S	ELL-MS 08 45-S
L50		ELL-MS 05 50-S	ELL-MS 06 50-S	ELL-MS 07 50-S	ELL-MS 08 50-S
L55			ELL-MS 06 55-S	ELL-MS 07 55-S	ELL-MS 08 55-S
L60			ELL-MS 06 60-S	ELL-MS 07 60-S	ELL-MS 08 60-S
L70			ELL-MS 06 70-S	ELL-MS 07 70-S	ELL-MS 08 70-S
L80			ELL-MS 06 80-S	ELL-MS 07 80-S	ELL-MS 08 80-S

REDUCTION SCREWS

LENGTH / DIAMETER	Ø5	Ø6	Ø7
L30	ELL-SS 05 30-S	ELL-SS 06 30-S	ELL-SS 07 30-S
L35	ELL-SS 05 35-S	ELL-SS 06 35-S	ELL-SS 07 35-S
L40	ELL-SS 05 40-S	ELL-SS 06 40-S	ELL-SS 07 40-S
L45	ELL-SS 05 45-S	ELL-SS 06 45-S	ELL-SS 07 45-S
L50	ELL-SS 05 50-S	ELL-SS 06 50-S	ELL-SS 07 50-S

IMPLANTS

SETSCREW	ELL-SC 00 00-S

ROD CONNECTOR PARALLEL	ELL-RC PA 00-S

ROD CONNECTOR AXIAL	ELL-RC AX 00-S

ILIAC CONNECTOR	
L15	ELL-IC 00 15-S
L20	ELL-IC 00 20-S
L30	ELL-IC 00 30-S
L40	ELL-IC 00 40-S
L50	ELL-IC 00 50-S
L60	ELL-IC 00 60-S

CROSS CONNECTORS / MULTIAXIAL PREBENT	
L33 to L36	ELL-CC MP 33-S
L36 to L43	ELL-CC MP 36-S
L43 to L55	ELL-CC MP 43-S
L55 to L80	ELL-CC MP 55-S

CROSS CONNECTORS TRANSVERSE HOOK	ELL-TC 00 00-S

TRANSVERSE ROD	
L20	ELL-TR 00 20-S
L30	ELL-TR 00 30-S
L40	ELL-TR 00 40-S
L50	ELL-TR 00 50-S
L60	ELL-TR 00 60-S
L70	ELL-TR 00 70-S
L80	ELL-TR 00 80-S

CROSS CONNECTORS / MULTIAXIAL	
L33 TO L36	ELL-CC MU 33-S
L36 TO L43	ELL-CC MU 36-S
L43 TO L55	ELL-CC MU 43-S
L55 TO L80	ELL-CC MU 55-S

CROSS CONNECTORS / STRAIGHT	
L18	ELL-CC ST 18-S
L21	ELL-CC ST 21-S
L24	ELL-CC ST 24-S
L27	ELL-CC ST 27-S
L30	ELL-CC ST 30-S

IMPLANTS

RODS / PREBENT ø5.4	
L30	ELL-RD 00 30-S
L35	ELL-RD 00 35-S
L40	ELL-RD 00 40-S
L45	ELL-RD 00 45-S
L50	ELL-RD 00 50-S
L55	ELL-RD 00 55-S
L60	ELL-RD 00 60-S
L70	ELL-RD 00 70-S
L80	ELL-RD 00 80-S
L90	ELL-RD 00 90-S

RODS / STRAIGHT ø5,4	
L100	ELL-RD 21 00-S
L120	ELL-RD 21 20-S
L140	ELL-RD 21 40-S
L160	ELL-RD 21 60-S
L180	ELL-RD 21 80-S
L200	ELL-RD 22 00-S
L220	ELL-RD 22 20-S
L240	ELL-RD 22 40-S
L350	ELL-RD 23 50-S
L500	ELL-RD 25 00-S
L550	ELL-RD 25 50-S

RODS / COBALT CHROMIUM / STRAIGHT ø5,4	
L100	ELL-RD 11 00-S
L120	ELL-RD 11 20-S
L140	ELL-RD 11 40-S
L160	ELL-RD 11 60-S
L180	ELL-RD 11 80-S
L200	ELL-RD 12 00-S
L220	ELL-RD 12 20-S
L240	ELL-RD 12 40-S
L350	ELL.RD 13 50-S
L500	ELL-RD 15 00-S
L550	ELL-RD 15 50-S

IMPLANTS

HOOKS

LAMINAR LUMBAR SMALL	ELL-HO LL 0S-S

LAMINAR LUMBAR LARGE	ELL-HO LL 0L-S

LAMINAR LUMBAR EXTENDED	ELL-HO LL-EX-S

PEDICULAR	ELL-HO P0 00-S

LAMINAR THORACIC SUPRA	ELL-HO LT SU-S

LAMINAR INFRA	ELL-HO LT IN-S

ANGLED LEFT	ELL-HO AN 0L-S
ANGLED RIGHT	ELL-HO AN 0R-S

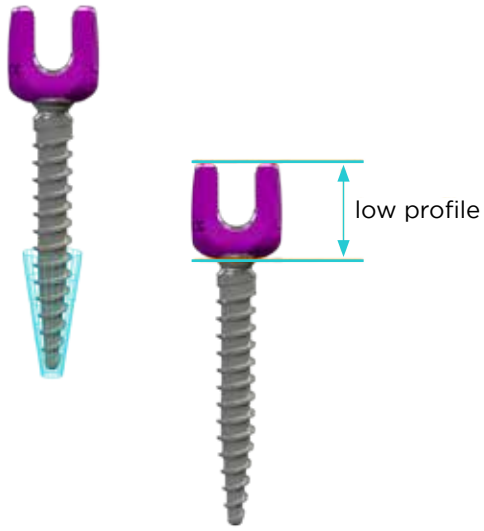
OFFSET LEFT	ELL-HO 0F 0L-S
OFFSET RIGHT	ELL-HO 0F 0R-S

Implants can be delivered Non Sterile (ELL-xx xx xx-N) on demand.

TECHNICAL FEATURES

COMPLETE TL FIXATION PLATFORM

- Complete range of polyaxial, monoaxial, reduction screws, transverse connectors and rod connectors provide versatile options to treat numerous pathologies from T1 to the ilium.



STREAMLINED SCREW TIP

- The screw tip is designed to allow an effortless and self-centering insertion of the screw.

LOW PROFILE IMPLANTS

- The low profile ROMEO®2 implants are designed to enable an atraumatic implantation and minimize anatomical interference.

COMPACT SET

- One box of specific and intuitive instruments is needed for degenerative cases. A second box of instruments is available for more complex surgeries requesting longer construct.

SAFETY & TRACEABILITY

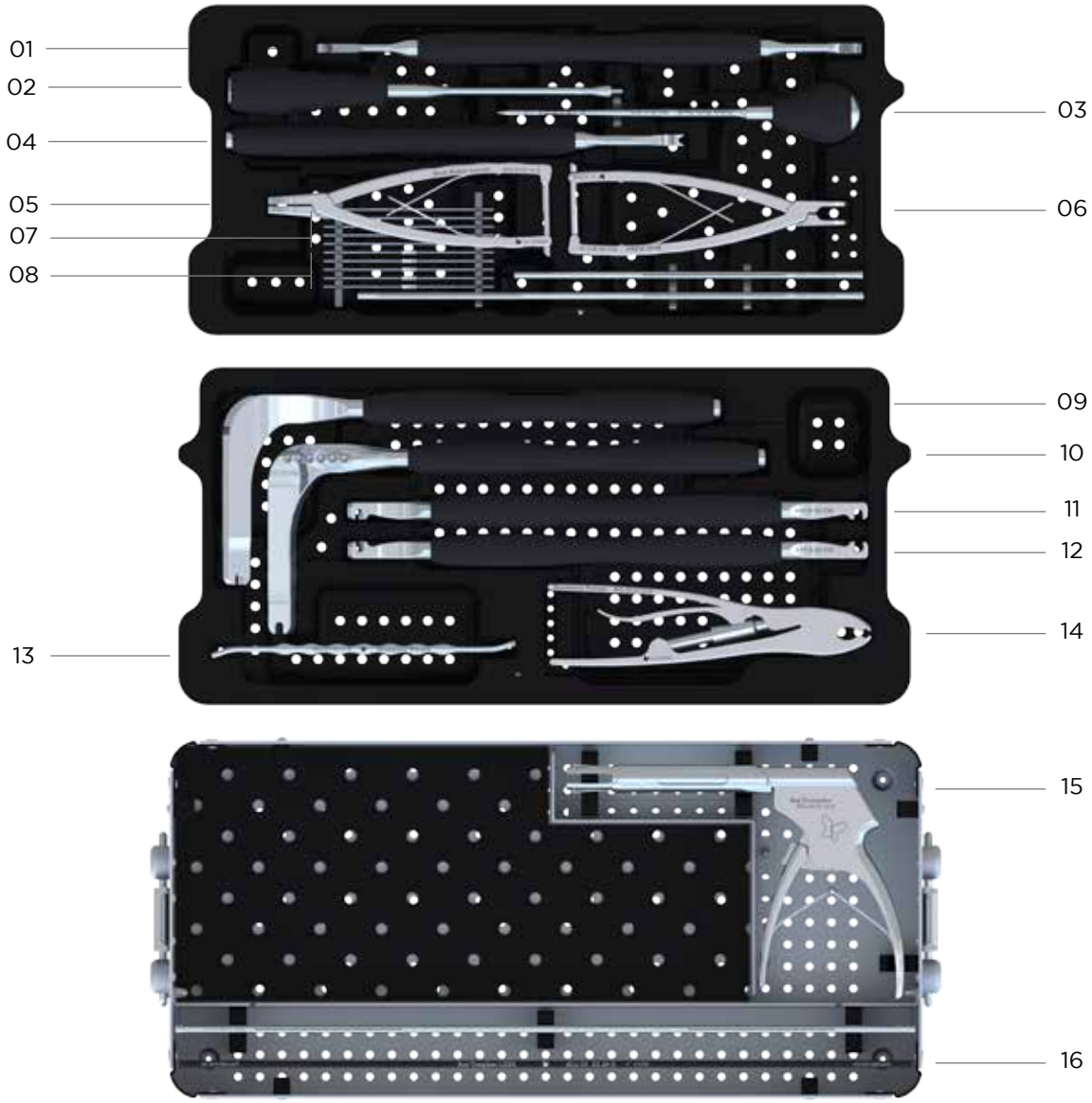
- ROMEO®2 is the unique sterile packaged and barcoded posterior fixation system avoiding cross contamination and lost of tracking records.

INSTRUMENT SET

#	DESCRIPTION	REFERENCE
01	PEDICLE SOUNDER	ELL-IN 01 02-N
02	SETSCREW TUBE	ELL-IN 01 15-N
03	SETSCREW HOLDER	ELL-IN 01 10-N
04	SETSCREW TIGHTENER	ELL-IN 04 06-N
05	SCREWDRIVER SHAFT PS	ELL-IN 01 03-N
06	SCREWDRIVER SHAFT MS	ELL-IN 01 20-N
07	SCREWDRIVER SHAFT SS	ELL-IN 01 16-N
08	SCREWDRIVER SLEEVE	ELL-IN 20 03-N
09	SCREWDRIVER TUBE	ELL-IN 21 03-N
10	PEDICLE PROBE	ELL-IN 01 22-N
11	BONE AWL	ELL-IN 02 01-N
12	STRAIGHT HANDLE RATCHET	HAN-SI RA ST-N
13	T-HANDLE	HAN-SI MD TE-N

#	DESCRIPTION	REFERENCE
14	COUNTER TORQUE	ELL-IN 01 11-N
15	ROD BENDER	ELL-IN 00 09-N
16	DYNAMOMETRIC TIGHTENER	ELL-IN 03 06-N
17	DISTRACTION FORCEPS	ELL-IN 00 07-N
18	COMPRESSION FORCEPS	ELL-IN 00 08-N
19	CALIPER	ELL-IN 00 12-N
20	IMPLANT HOLDER	ELL-IN 01 04-N
21	ROCKER	ELL-IN 00 05-N
22	ROD TEMPLATE L250	ELL-IN 00 28-N
	INSTRUMENTS CONTAINER	ROM-BX 10 01-N

INSTRUMENT SET



#	DESCRIPTION	REFERENCE
01	LAMINA PREPARER	ELL-IN 00 30-N
02	HOOK PUSHER	ELL-IN 00 32-N
03	PEDICLE PROBE SMALL	ELL-IN 01 23-N
04	PEDICLE PREPARER	ELL-IN 00 29-N
05	HOOK HOLDER LATERAL	ELL-IN 01 31-N
06	HOOK HOLDER	ELL-IN 00 31-N
07	MARKER LEFT	ELL-IN 00 25-N
08	MARKER RIGHT	ELL-IN 00 24-N

#	DESCRIPTION	REFERENCE
09	CORONAL BENDER LEFT	ELL-IN 00 27-N
10	CORONAL BENDER RIGHT	ELL-IN 01 27-N
11	SAGITTAL BENDER LEFT	ELL-IN 00 26-N
12	SAGITTAL BENDER RIGHT	ELL-IN 01 26-N
13	HEXAGONAL WRENCH	ELL-IN 00 33-N
14	DEROTATION FORCEPS	ELL-IN 01 18-N
15	ROD PERSUADER	ELL-IN 01 19-N
16	ROD TEMPLATE L500	ELL-IN 01 28-N
	INSTRUMENTS CONTAINER	ROM-BX 40 01-N

INSTRUMENTS

PEDICLE SOUNDER	ELL-IN 01 02-N

SETSCREW HOLDER	ELL-IN 01 10-N

SCREWDRIVER SHAFT PS	ELL-IN 01 03-N

SCREWDRIVER SHAFT SS	ELL-IN 01 16-N

SCREWDRIVER TUBE	ELL-IN 21 03-N

BONE AWL	ELL-IN 02 01-N

T-HANDLE	HAN-SI MD TE-N

SETSCREW TUBE	ELL-IN 01 15-N

SETSCREW TIGHTENER	ELL-IN 04 06-N

SCREWDRIVER SHAFT MS	ELL-IN 01 20-N

SCREWDRIVER SLEEVE	ELL-IN 20 03-N

PEDICLE PROBE	ELL-IN 01 22-N

STRAIGHT HANDLE RATCHET	HAN-SI RA ST-N

INSTRUMENTS

COUNTER TORQUE	ELL-IN 01 11-N

ROD BENDER	ELL-IN 00 09-N

DYNAMOMETRIC TIGHTENER	ELL-IN 03 06-N

DISTRACTION FORCEPS	ELL-IN 00 07-N

COMPRESSION FORCEPS	ELL-IN 00 08-N

CALIPER	ELL-IN 00 12-N

IMPLANT HOLDER	ELL-IN 01 04-N

ROCKER	ELL-IN 00 05-N

ROD TEMPLATE L250	ELL-IN 00 28-N

SETSCREW HOLDER DOUBLE	ELL-IN 02 10-N

INSTRUMENTS

LAMINA PREPARER	ELL-IN 00 30-N

HOOK PUSHER	ELL-IN 00 32-N

PEDICLE PROBE SMALL	ELL-IN 01 23-N

PEDICLE PREPARER	ELL-IN 00 29-N

HOOK HOLDER LATERAL	ELL-IN 01 31-N

HOOK HOLDER	ELL-IN 00 31-N

MARKER LEFT	ELL-IN 00 25-N

MARKER RIGHT	ELL-IN 00 24-N

INSTRUMENTS

CORONAL BENDER LEFT	ELL-IN 00 27-N

CORONAL BENDER RIGHT	ELL-IN 01 27-N

SAGITTAL BENDER LEFT	ELL-IN 00 26-N

SAGITTAL BENDER RIGHT	ELL-IN 01 26-N

HEXAGONAL WRENCH	ELL-IN 00 33-N

DEROTATION FORCEPS	ELL-IN 01 18-N

ROD PERSUADER	ELL-IN 01 19-N

ROD TEMPLATE L500	ELL-IN 01 28-N

INSTRUMENTS

CROSS CONNECTORS SYSTEM 2 INSTRUMENTS

3.5 TIGHTENER	ELL-IN 00 36-N

CALIPER	ELL-IN 00 35-N

OPTIONAL INSTRUMENTS

ROD PUSHER OPTION	ELL-IN 00 39-N

J-HOOK OPTION	ELL-IN 00 40-N

SETSCREW HOLDER W OPTION	ELL-IN 03 10-N

CURETTE OPTION	ELL-IN 00 13-N

STRAIGHT HANDLE OPTION	HAN-SI MD ST-N

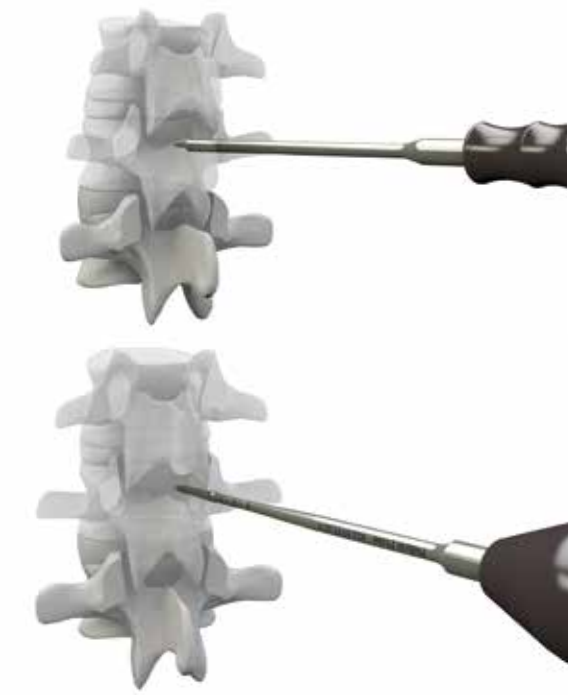
T-HANDLE RATCHET OPTION	HAN-SI RA TE-N

QR REDUCER OPTION	ELL-IN 10 34-N

QR REDUCER T-HANDLE OPTION	HAN-SS TY 14-N

SURGICAL TECHNIQUE

STEP **1**



PEDICLE PREPARATION

After having determined the entry point of the pedicle, perforate the outer cortex with the bone awl and open the pedicle canal with the probe.

The probes are LASER marked to determine the appropriate length of the screws.

Note: When implanting a Ø4mm Screw, it is mandatory to use the pedicle probe small.
For Ø5, Ø6, Ø7 and Ø8mm use the pedicle probe.

INSTRUMENT	REFERENCE
BONE AWL	ELL-IN 02 01-N
PEDICLE PROBE	ELL-IN 01 22-N
PEDICLE PROBE SMALL	ELL-IN 01 23-N

STEP **2**

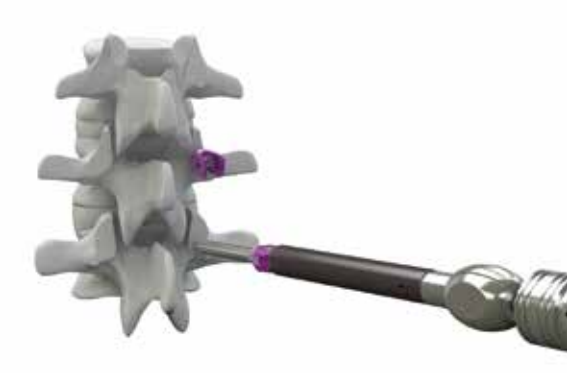
PEDICLE SOUNDING

Insert the pedicle sounder to verify integrity of the screw path. Markers can be used to check proper path orientation under x-ray.

INSTRUMENT	REFERENCE
PEDICLE SOUNDER	ELL-IN 01 02-N
MARKER LEFT	ELL-IN 00 25-N
MARKER RIGHT	ELL-IN 00 24-N

SURGICAL TECHNIQUE

STEP **3**



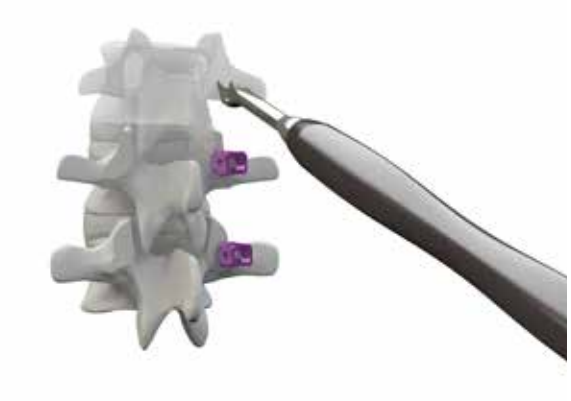
SCREWDRIVER ASSEMBLY

01. Insert the screwdriver tube into the screwdriver sleeve through the hole with the LASER mark «UP», until a click is heard.
02. Select the screwdriver shaft PS for polyaxial screws, MS for monoaxial screws or SS for reduction screws and slide into the distal end of the screwdriver tube until it clicks.
03. Connect the assembly to a handle option, e.g. straight handle ratchet.

Connect the selected screw to the screwdriver and proceed to implantation.

INSTRUMENT	REFERENCE
SCREWDRIVER SHAFT PS	ELL-IN 01 03-N
SCREWDRIVER SHAFT SS	ELL-IN 01 16-N
SCREWDRIVER SHAFT MS	ELL-IN 01 20-N
SCREWDRIVER SLEEVE	ELL-IN 20 03-N
SCREWDRIVER TUBE	ELL-IN 21 03-N
STRAIGHT HANDLE RATCHET	HAN-SI RA ST-N

STEP **4**



HOOK SITE PREPARATION

After preparing hook insertion site, identify the anatomy with the lamina or pedicle preparer.

INSTRUMENT	REFERENCE
LAMINA PREPARER	ELL-IN 00 30-N
PEDICLE PREPARER	ELL-IN 00 29-N

SURGICAL TECHNIQUE

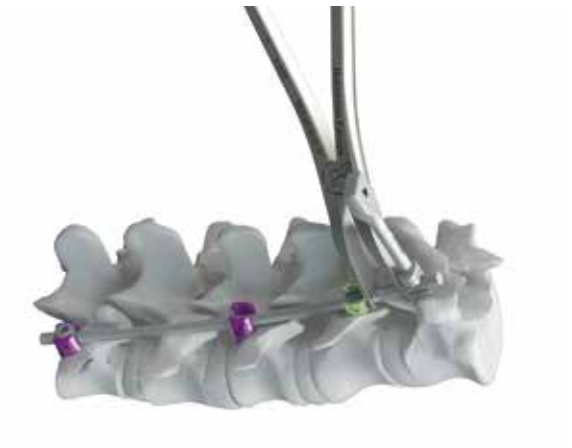
STEP **5**

HOOK PLACEMENT

Attach the hook either straight on the hook holder engaging the round divits on the side of the hook OR on the hook holder lateral engaging the rectangular divits on the desired side of the hook head.

INSTRUMENT	REFERENCE
HOOK HOLDER	ELL-IN 00 31-N
HOOK HOLDER LATERAL	ELL-IN 01 31-N
HOOK PUSHER	ELL-IN 00 32-N

HOOK OPTIONAL INSTRUMENTS **1**

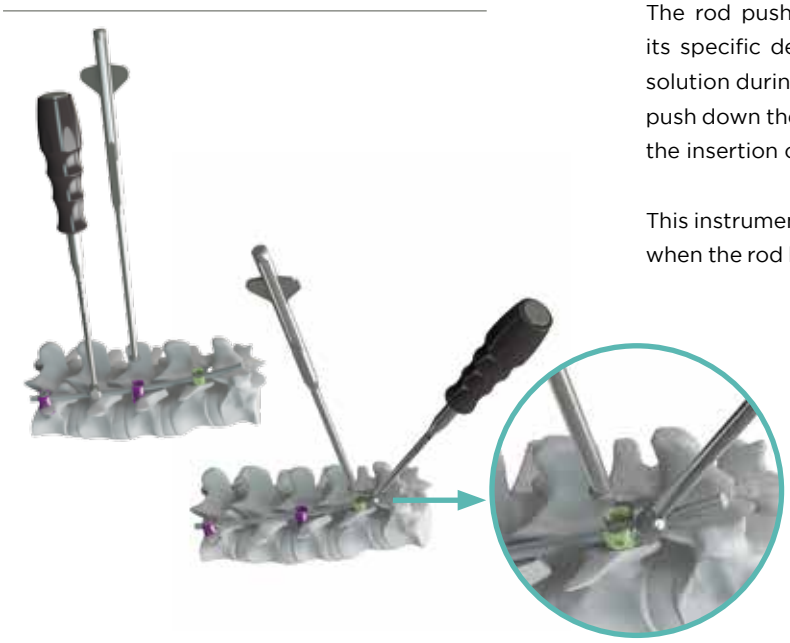


The J-Hooks can be placed and tightened with only one hand on the ø5.4mm rod in order to keep the hook in position and prevent back-out of the hook during in-situ maneuvers as rotation or bending maneuvers.

The J-Hook can also be positioned and tightened on the rod and act as a fixed point for compression or distraction maneuvers.

SURGICAL TECHNIQUE

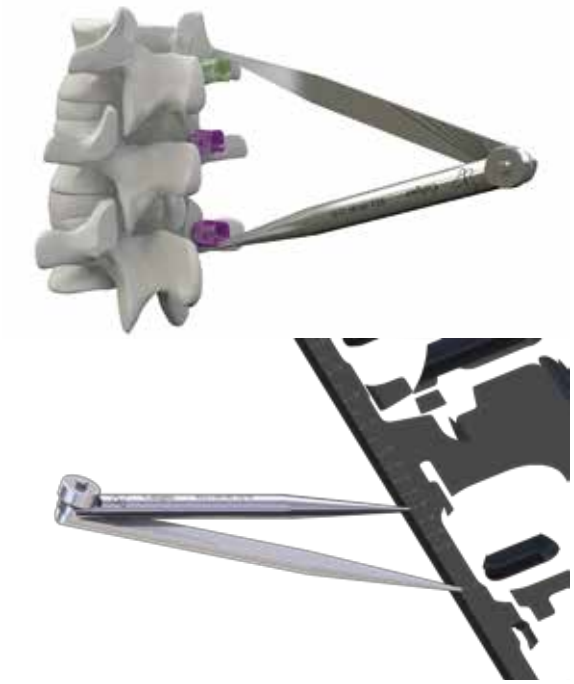
HOOK
OPTIONAL INSTRUMENTS **2**



The rod pusher is a bi-functional instrument due to its specific design and provides intuitive and simple solution during hook surgeries. It can be simply use to push down the rod towards the implant head and ease the insertion of the setscrew.

This instrument can also play the role of a hook pusher when the rod has already been added to the construct.

STEP **6**



ROD SELECTION & CONTOURING

Determine the contour and length of the rod using a rod template.

Alternatively choose the appropriate length of the rod using the caliper. (Confirm the exact length with the measuring scale on the instrument tray.)

Note: ROMEO®2 rods are ø5.4mm. To contour a Titatinum rod, the radius selector of the bender can be positioned on 5, 6, 7 or 8. When a cobalt chromium rod needs to be contoured, we recommend positioning the radius selector of the bender on 7 or 8.
Once bent, rods should not be de-contoured. Repeated bending can weaken the rod.

INSTRUMENT	REFERENCE
CALIPER	ELL-IN 00 12-N
ROD TEMPLATE L250	ELL-IN 00 28-N
ROD TEMPLATE L500	ELL-IN 01 28-N
ROD BENDER	ELL-IN 00 09-N

SURGICAL TECHNIQUE

STEP **7**

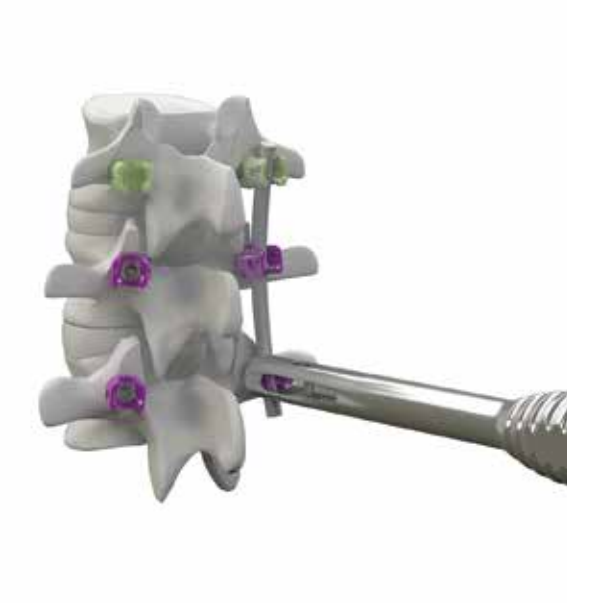
ROD PLACEMENT

Place the rod into the implant heads with the implant holder. The rocker or the persuader can be used to push down the rod until it is seated in the implant heads.

Note: Rod connectors can be used to connect two rods in parallel or axial alignment.

INSTRUMENT	REFERENCE
IMPLANT HOLDER	ELL-IN 01 04-N
ROCKER	ELL-IN 00 05-N
ROD PERSUADER	ELL-IN 01 19-N

STEP **8**



SETSCREW POSITIONING

Use the setscrew holder (and only this specific instrument) to introduce the setscrew into the implant head through the setscrew tube or through the rocker or rod persuader.
The usage of the setscrew tube is recommended for the mono- and polyaxial screws and **mandatory** for the spondylolisthesis screws.

A quarter turn if the setscrew right before insertion to the left will help seat the setscrew and decrease cross-threading.

INSTRUMENT	REFERENCE
SETSCREW HOLDER	ELL-IN 01 10-N
SETSCREW TUBE	ELL-IN 01 15-N

SURGICAL TECHNIQUE

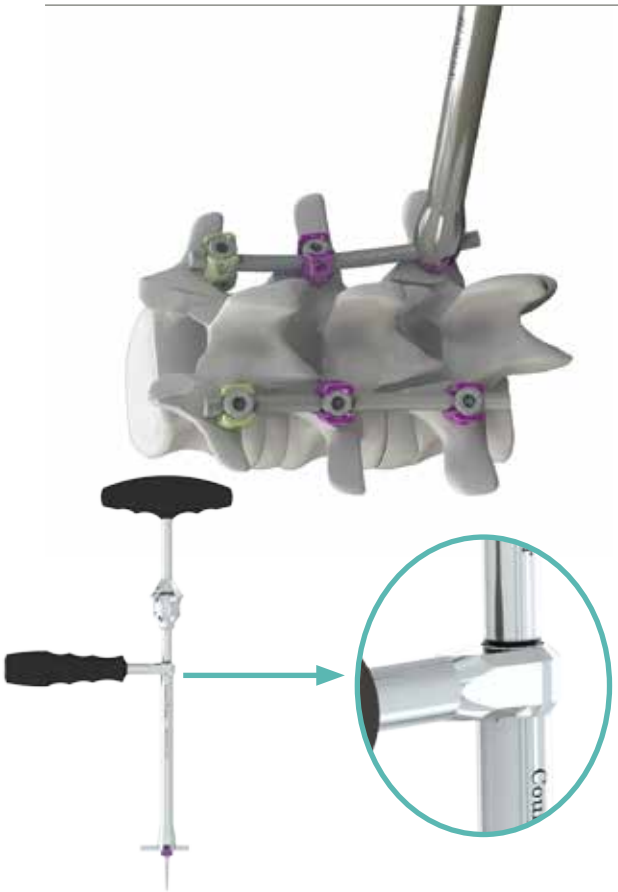
STEP **9**

COMPRESSION AND DISTRACTION

If necessary at this surgical step, derotation forceps and sagittal and coronal benders can also be used for the rod contouring.
Compression or distraction may be performed by using the compression or the distraction forceps.

INSTRUMENT	REFERENCE
SAGITTAL BENDER RIGHT	ELL-IN 01 26-N
SAGITTAL BENDER LEFT	ELL-IN 00 26-N
CORONAL BENDER RIGHT	ELL-IN 01 27-N
CORONAL BENDER LEFT	ELL-IN 00 27-N
DEROTATION FORCEPS	ELL-IN 01 18-N
COMPRESSION FORCEPS	ELL-IN 00 08-N
DISTRACTION FORCEPS	ELL-IN 00 07-N

STEP **10**



FINAL TIGHTENING

Tighten the setscrew by using the dynamometric tightener in combination with the counter torque device by aligning the dynamometric tightener arrows.

INSTRUMENT	REFERENCE
DYNAMOMETRIC TIGHTENER	ELL-IN 03 06-N
COUNTER TORQUE	ELL-IN 01 11-N

NOTE: Confirm the LASER etched line on the dynamometric tightener shaft is flush with the counter torque. The Hex tip of the instruments then fully seated in the setscrew Hex.

SURGICAL TECHNIQUE

STEP **11** (option)

ILIAC SCREW OPTION

Perforate the outer cortex with the bone awl and open the screw path with the probe.

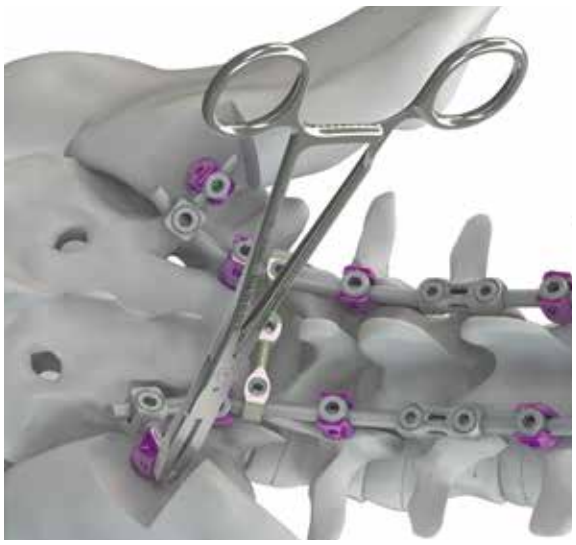
INSTRUMENT	REFERENCE
BONE AWL	ELL-IN 02 01-N
PEDICLE PROBE	ELL-IN 01 22-N

Control screw path with the pedicle sounder and insert the screw.

INSTRUMENT	REFERENCE
PEDICLE SOUNDER	ELL-IN 01 02-N
SCREWDRIVER SHAFT PS	ELL-IN 01 03-N

SURGICAL TECHNIQUE

STEP **12** (option)



ILIAC CONNECTOR

Use the iliac connector to bridge the rod to the screw seated in the iliac bone by using the implant holder.
If connector is not needed, link the rod directly to the screw seated in the iliac bone.
Tighten the setscrew by using the dynamometric tightener in combination with the counter torque device by aligning the dynamometric tightener arrows.

INSTRUMENT	REFERENCE
IMPLANT HOLDER	ELL-IN 01 04-N
DYNAMOMETRIC TIGHTENER	ELL-IN 03 06-N
COUNTER TORQUE	ELL-IN 01 11-N

STEP **13**

CROSS CONNECTOR SYSTEM 1

Hold the transverse hooks with the implant holder and place them onto the rod.

The length of the transverse rod is measured by using the caliper.

INSTRUMENT	REFERENCE
IMPLANT HOLDER	ELL-IN 01 04-N
CALIPER	ELL-IN 00 12-N

SURGICAL TECHNIQUE

STEP **13** bis

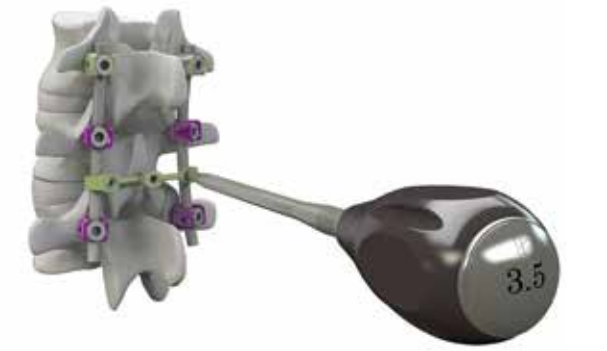
CROSS CONNECTOR SYSTEM 1

Hold the transverse rod with the implant holder to place it into the transverse hooks.

Tighten the setscrew of the transverse hooks with the screwdriver.

INSTRUMENT	REFERENCE
SCREWDRIVER SHAFT PS	ELL-IN 01 03-N
STRAIGHT HANDLE RATCHET	HAN-SI RA ST-N
IMPLANT HOLDER	ELL-IN 01 04-N

STEP **14**



CROSS CONNECTOR SYSTEM 2

To select the appropriate size of the cross connector, measure the inter axis between the rods by placing the caliper directly on the rods. The locking nut can be tightened to make the caliper hold the length indication. Read the inter axis measure directly on the LASER etched scale.

Manipulation of the cross connectors can be done using the ROMEO®2 implant holder.

Once the cross connector is optimally positionned, proceed to the final tightening of the implant using the 3.5 tightener. This instrument will allow for a reproducible tightening of the captive setscrews.

NOTE: For this cross connector option, the 2 instruments listed in the table below need to be additionally ordered.

INSTRUMENT	REFERENCE
CALIPER	ELL-IN 00 35-N
3.5 TIGHTENER	ELL-IN 00 36-N

SURGICAL TECHNIQUE

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