



Erisma[®] - **LP EVO**

POSTERIOR FIXATION



Surgical Technique - ENG



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Erisma[®] -LP EVO

POSTERIOR FIXATION



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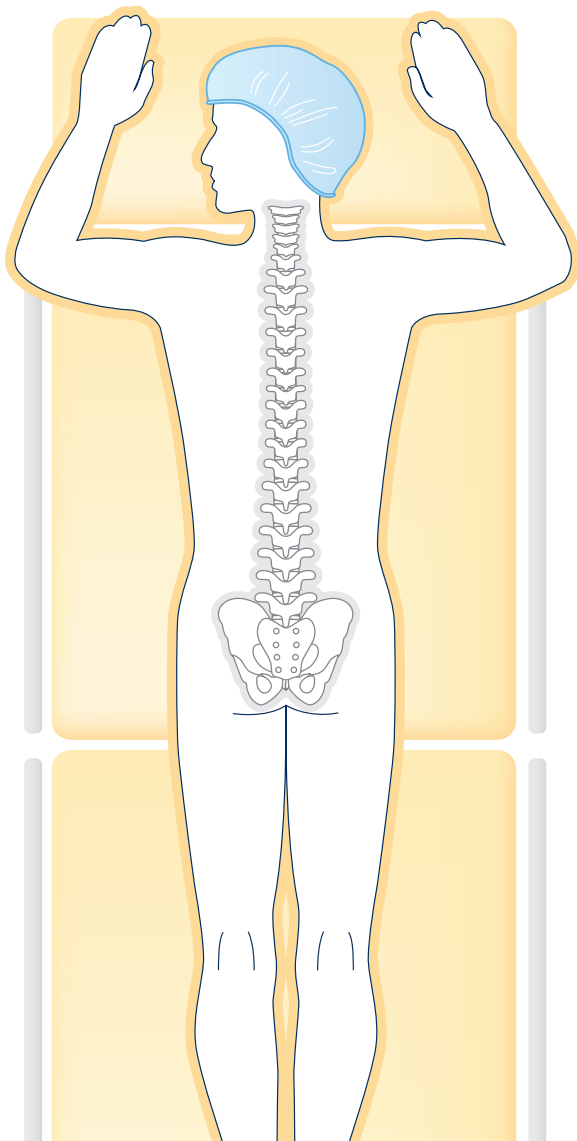
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Surgical Technique

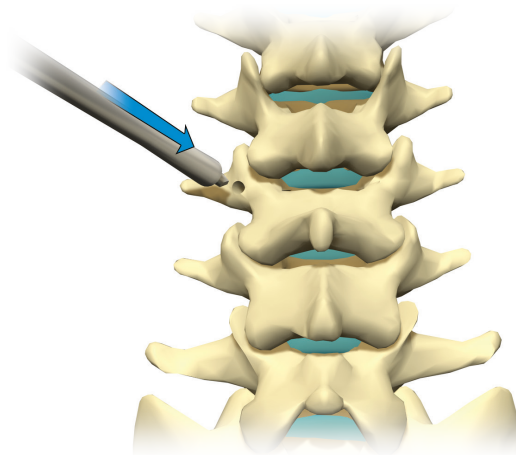
Prior to using any Clariance device, please review the instructions for use, the label and this surgical technique for a complete listing of indications, contraindications, warnings, precautions, potential adverse events, and directions for use.



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

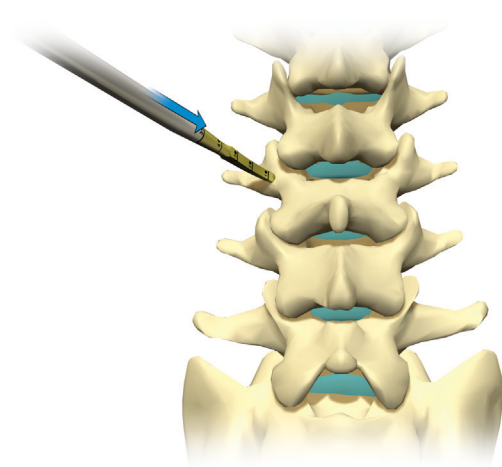
1 | PEDICLE PREPARATION

- After locating the pedicle, use the **Bone Awl** to perforate the cortical bone and prepare the pedicle entry point.



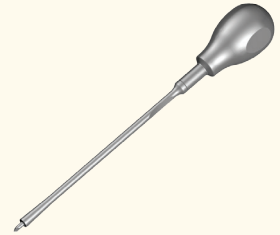
***Note:** the instruments item numbers and images featured in this surgical technique may have alternative options. Instruments and implants availability may vary upon markets. Please contact your local Sales Representative for more information.*

- Insert the **Curved Lumbar Probe** into the pedicle. Use the depth markings in 10mm increments to help determine the appropriate Screw length.



BONE AWL

99702002



CURVED LUMBAR PROBE

99731001



DOUBLE PEDICLE SOUNDER

50730000

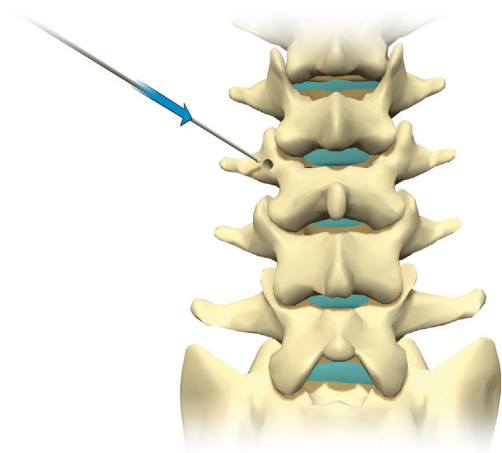


TAP

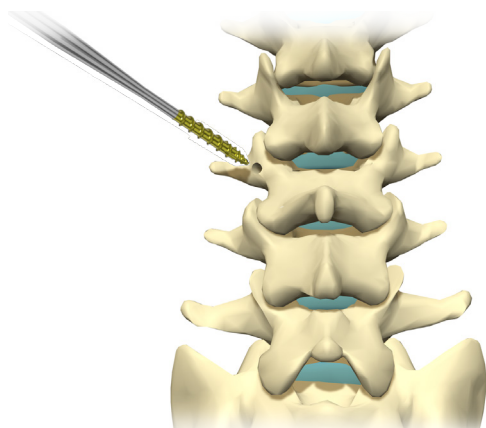
99701445*
99701455
99701465
99701475
99701485*



- Use the **Double Pedicle Sounder** to assess the pedicle canal.



- Though Erisma-LP Evolution Screws are self-tapping, **Taps** are available and can be used if desired. The color-coding of the Tap sizes corresponds with that of the Screws.



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SCREWDRIVER

Assembly of
13911004 Quick Connect Rod
13914003 Sleeve
18912026 Screwdriver Body
18911039 Shaft



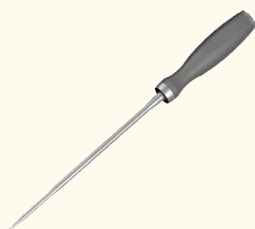
RATCHETING CYLINDRICAL HANDLE

99782006



T20 WRENCH

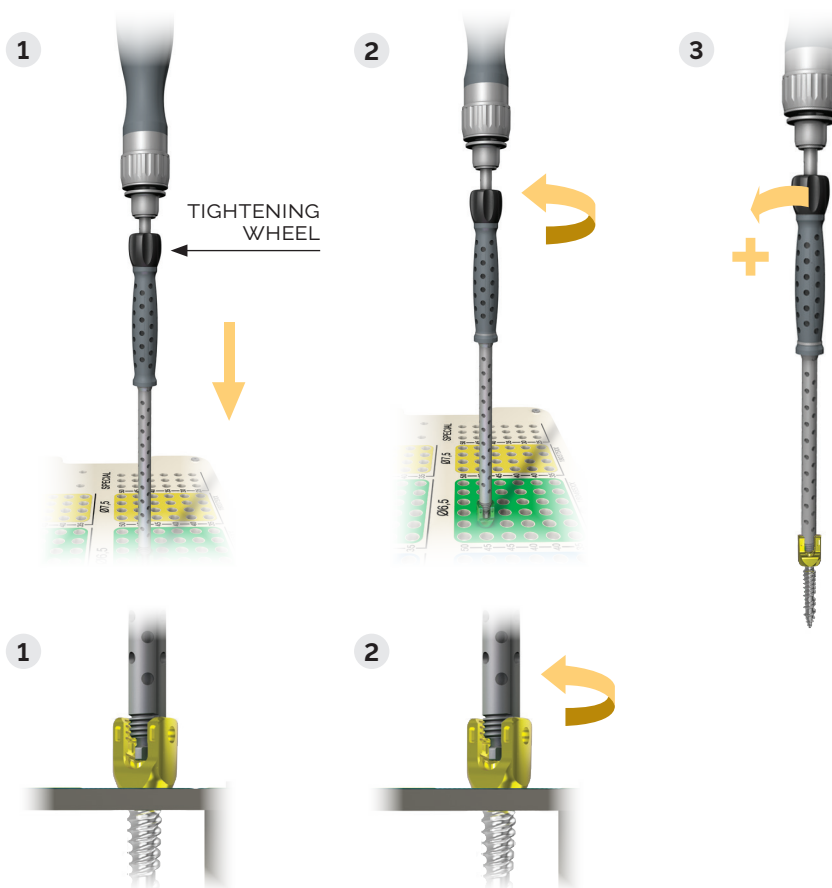
18720000



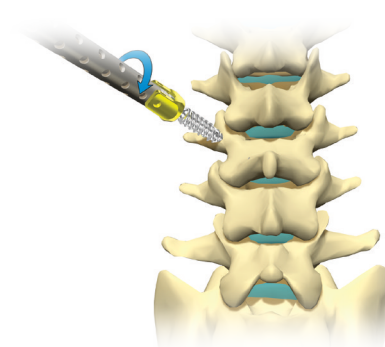
2 | PEDICLE SCREW INSERTION

- See pages 14 & 15 for screwdriver assembly.
- Select the Screw of appropriate length and diameter (see page 20) according to the patient's anatomy.

Use the graduated gauge on the implant set to verify the Screw length.



- Insert the Screw into the Pedicle.



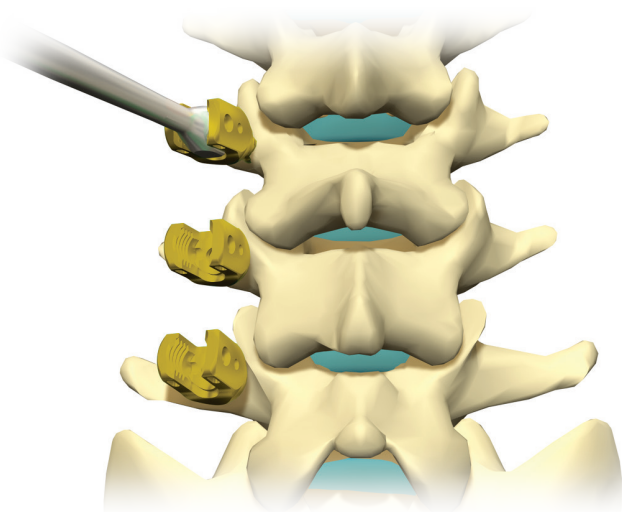
- Disengage the **Screwdriver** by unscrewing the black tightening wheel.



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3 | ROD PREPARATION (OPTIONAL)

- Use the **Head Positioner*** to orient and align the Screw heads if desired.



- Use the **French Bender*** to bend the Rod as needed.



ATTENTION:

The Erisma-LP Evolution system offers a range of pre-bent Rods (30 - 100mm).

Longer rods are straight and require bending (see page 20).

HEAD POSITIONER (OPTION)

18719003*



FRENCH BENDER (OPTION)

50750000*



*Optional: product availability may vary upon markets.

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ROD HOLDER (OPTION)

99715003*



ROD HOLDING FORCEPS

99715002

Angled



ROD PUSHER (OPTION)

99743003



ROCKER (OPTION)

18742005*

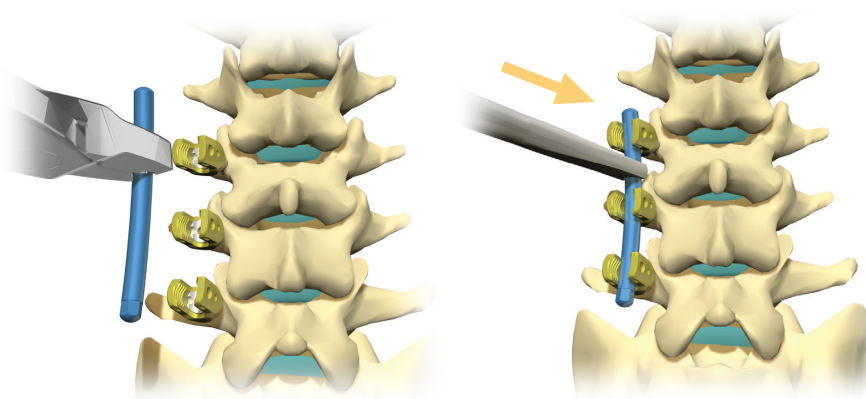


4 | ROD INSERTION

- Use the **Rod Holding Forceps** or the **Rod Holder** to insert the Rod.

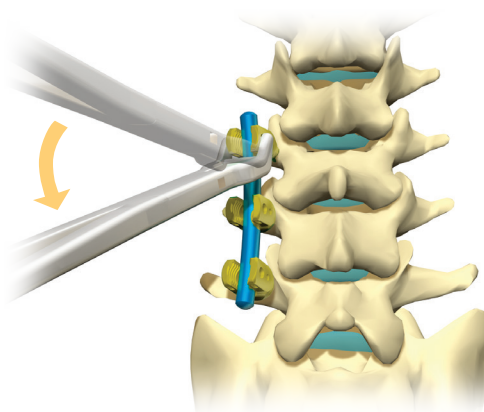
A | ROD PUSHER (OPTIONAL)

- You may use the **Rod Pusher*** to further insert the Rod into the Screw heads.



B | ROCKER (OPTIONAL)

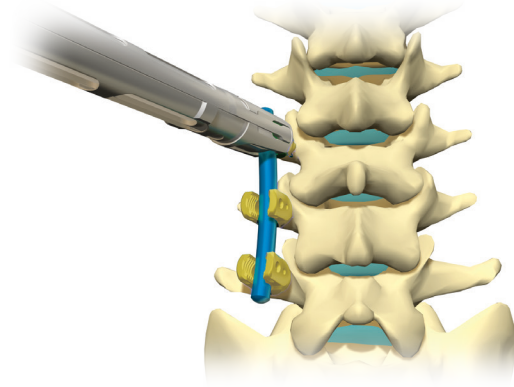
- The prongs of the **Rocker*** attach to the sides of the Screw head. Use the Rocker to gradually insert the Rod into the Screw heads.



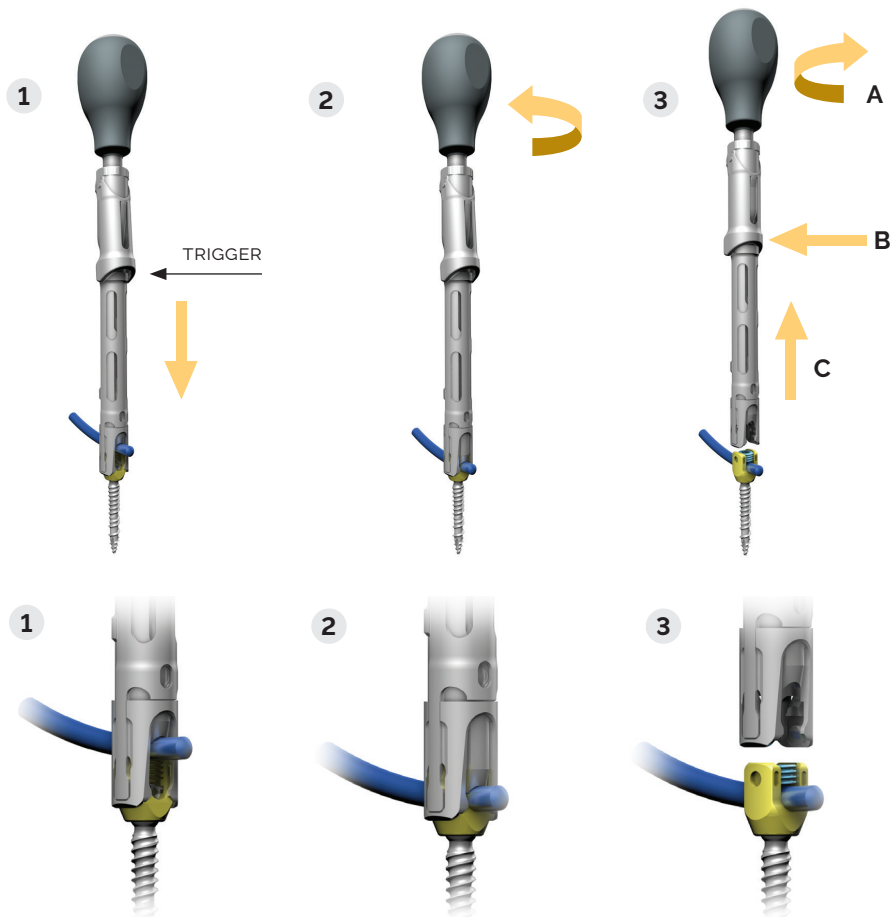
*Optional: product availability may vary upon markets.

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C | PERSUADER (OPTIONAL)



- Place the **Persuader** on top of the Screw head, being careful not to squeeze the trigger.
- Rotate the handle clockwise to push the Rod into the Screw head.
- Insert the set screw through the persuader using the self retaining set screwdriver
- To disconnect the Persuader from the Screw head, rotate the handle counterclockwise and squeeze the trigger.

PERSUADER
(OPTION)

50742004*
15780000*

SELF-RETAINING
SET SCREWDRIVER

01720006 Long



**Optional: product availability may vary upon markets.*

Note: the instruments item numbers and images featured in this surgical technique may have alternative options. Instruments and implants availability may vary upon markets. Please contact your local Sales Representative for more information.

SET SCREW HOLDER (OPTION)

18714002*
18714000*



GUIDING TUBE (OPTION)

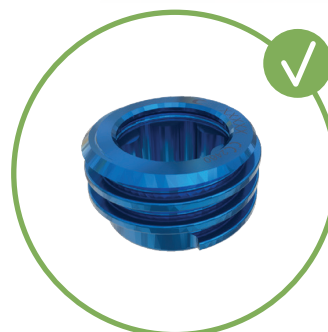
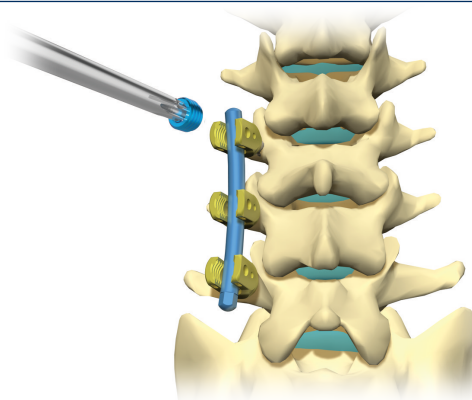
18721005*



5 | SET SCREW INSERTION

A | WITHOUT THE USE OF THE PERSUADER OR THE GUIDING TUBE (OPTION 1)

- Place the **Set Screw** on the **Set Screw Holder*** and screw it onto the Screw head by engaging the threads.

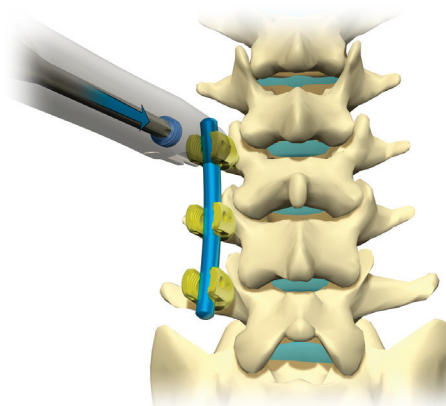


RECOMMENDATION:

Assemble the Set Screw according to the image above.

B | WITH THE USE OF THE PERSUADER OR THE GUIDING TUBE (OPTION 2)

- The Set Screw is placed on the **Self-Retaining Set Screwdriver**, then placed in the Screw head and screwed in by engaging the threads.



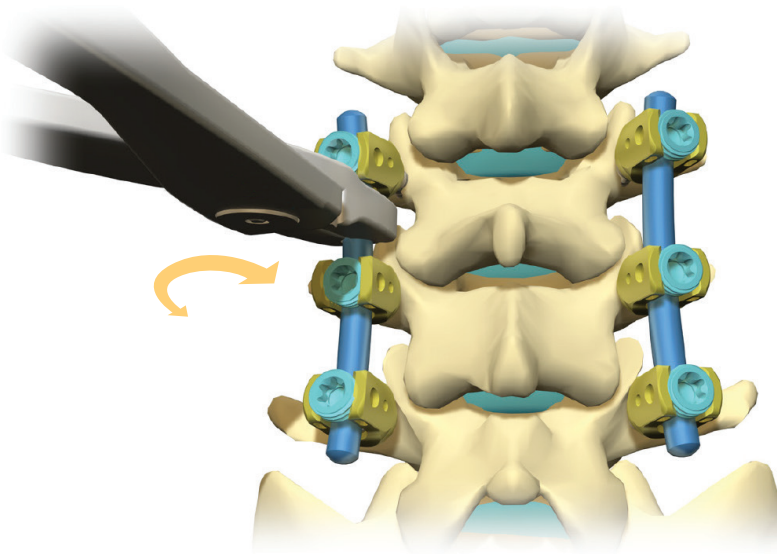
*Optional: product availability may vary upon markets.

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6 | CORRECTION MANEUVERS (OPTIONAL)

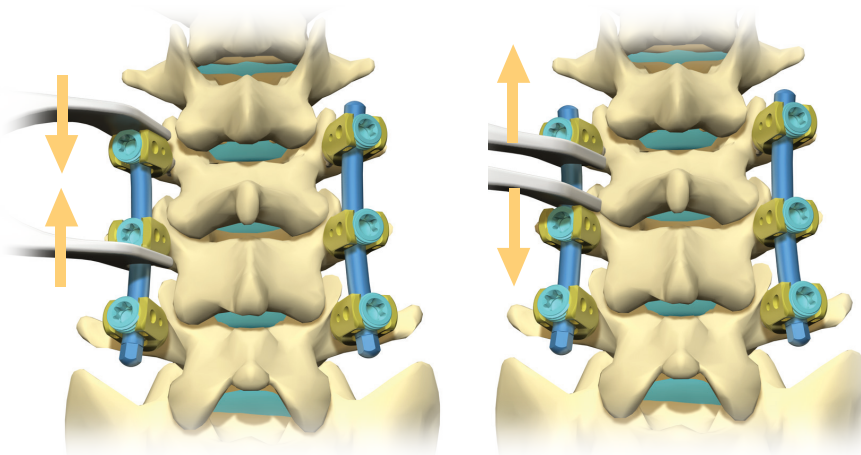
A | ROD ROTATION (OPTIONAL)

- You may use the **Rod Holder** or **Rod Gripper*** to adjust the Rod orientation and restore the appropriate curvature along the sagittal plane.



B | COMPRESSION & DISTRACTION (OPTIONAL)

- Use the **Compressor*** and **Distractor*** to perform segmental compression and distraction maneuvers.



STRAIGHT ROD HOLDER (OPTION)

997150007



ROD GRIPPER (OPTION)

99736013*



COMPRESSOR (OPTION)

997410005*

Inclined



DISTRACTOR (OPTION)

99741003*

Inclined



*Optional: product availability may vary upon markets.

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COUNTER TORQUE

18721008 Perpendicular



RATCHETING TORQUE LIMITING HANDLE

99781212



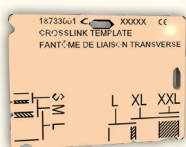
SELF-RETAINING SET SCREWDRIVER

01720006 Long



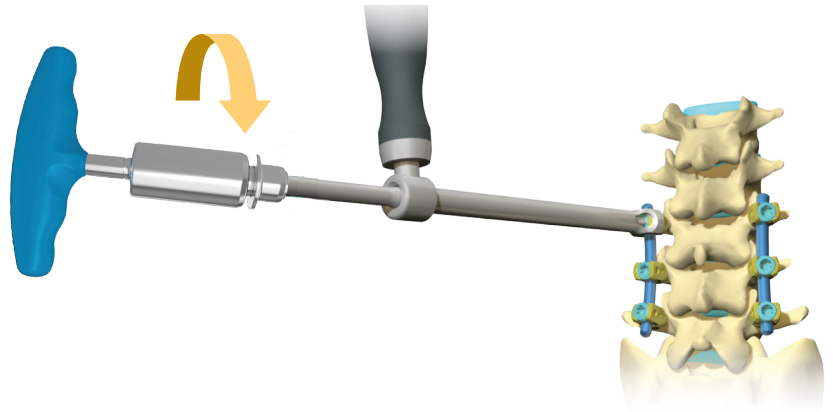
CROSSLINK TEMPLATE (OPTION)

18733001*



7 | FINAL TIGHTENING

- Place the **Counter Torque** on top of the Screw head.
- Connect the **Self-Retaining Set Screwdriver** to the **Torque Limiting Handle** and insert it through the Counter Torque, engaging the tip in the **Set Screw**.
- Rotate the Torque Limiting Handle clockwise to perform the final tightening.

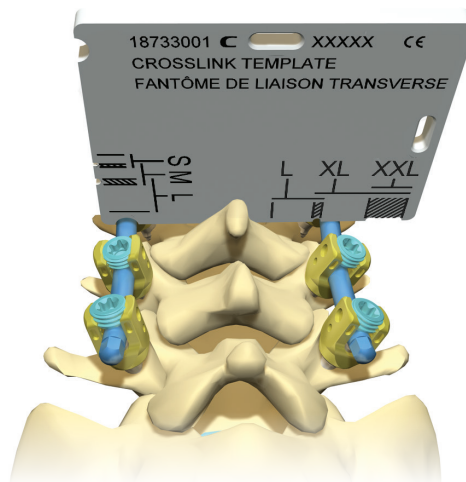


8 | CROSSLINK PLACEMENT (OPTIONAL)

A Crosslink can be added to enhance the stability of the construct.

A | MEASUREMENT OF THE CROSSLINK

- Determine the appropriate Crosslink size using the **Crosslink Template**. Use the Rod Holder to grip the Crosslink Template.

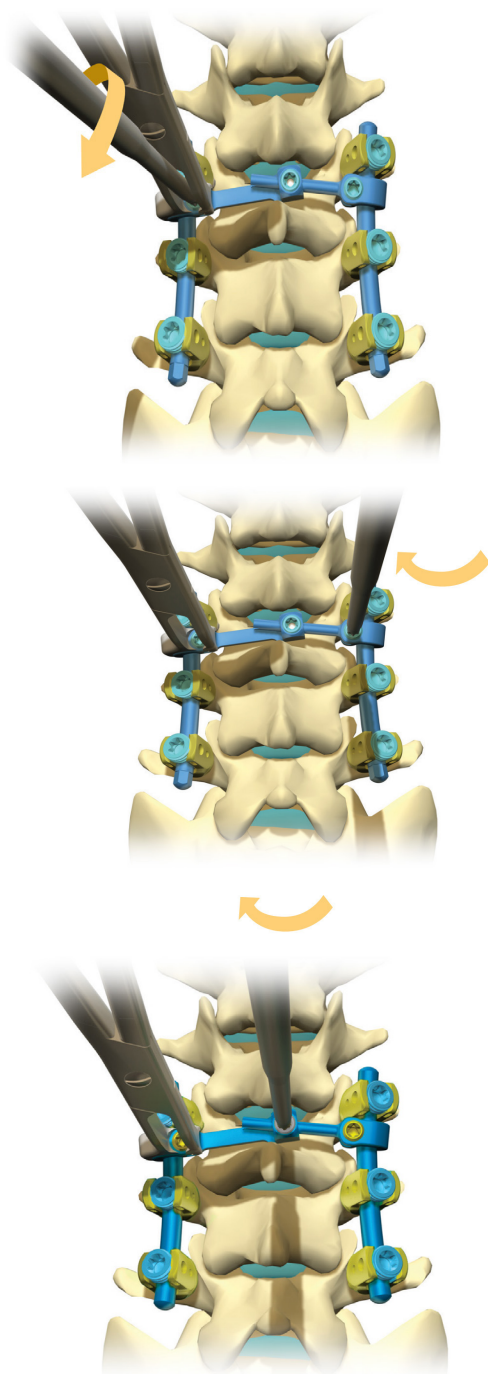


*Optional: product availability may vary upon markets.

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B | POSITIONING OF THE CROSSLINK (OPTIONAL)

Using the Crosslink Holder, the **Crosslink Holders** are placed on the Rods and the Set Screws are tightened using the **T20 Tightening Wrench**. Once the lateral Set Screws are locked, the central Set Screw can then be tightened with the T20 Tightening Wrench.



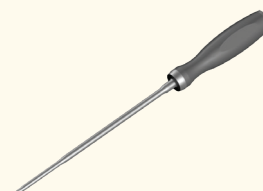
CROSSLINK HOLDER (OPTION)

18713001*



T20 TIGHTENING WRENCH

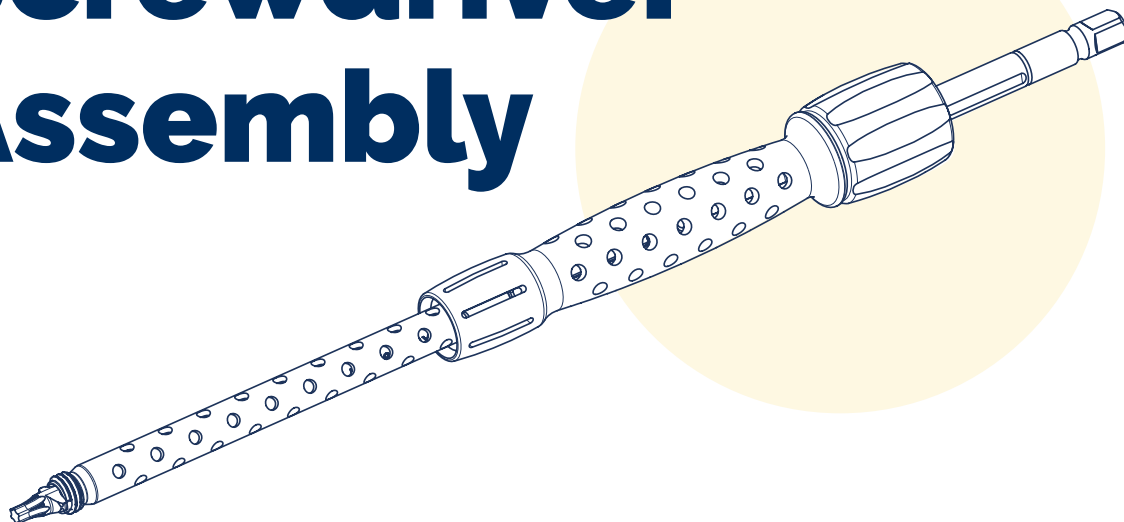
18720000



**Optional: product availability may vary upon markets.*

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Screwdriver Assembly



TUBE

18912026

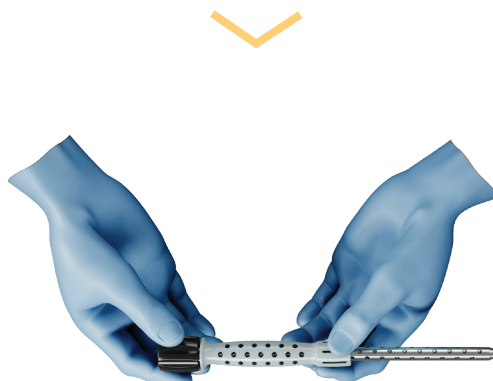
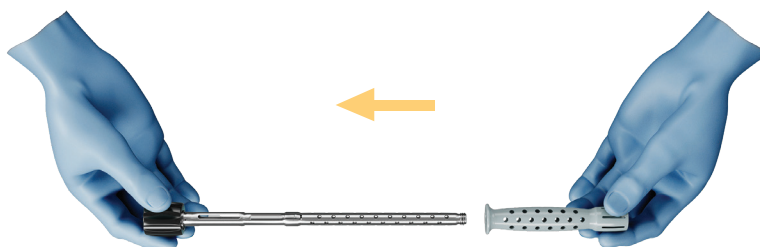


SLEEVE

13914003

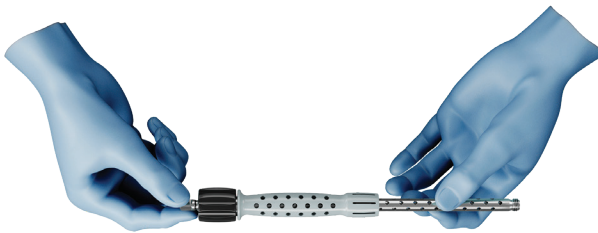
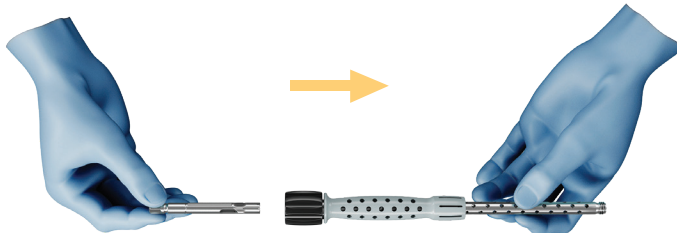


- Slide the Sleeve on the Tube until the Sleeve is flush against the black knob.

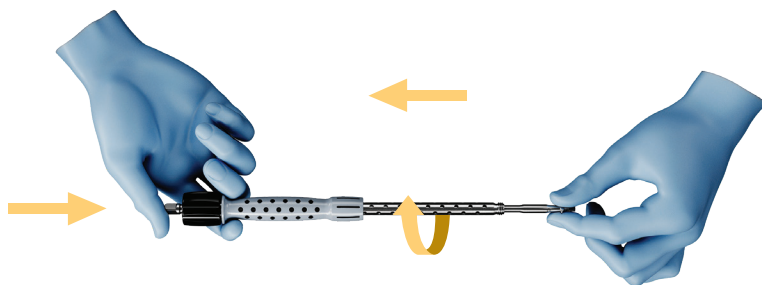


Note: the instruments item numbers and images featured in this surgical technique may have alternative options. Instruments and implants availability may vary upon markets. Please contact your local Sales Representative for more information.

- Insert the Snap-On-Shaft through the black knob.



- Insert the Screwdriver Shaft in the Tube and turn it slightly while pushing in until the Shaft is fully engaged.



- Gently pull the Snap-On Shaft to settle the Screwdriver assembly.

SNAP-ON SHAFT

13911004



SCREWDRIVER SHAFT

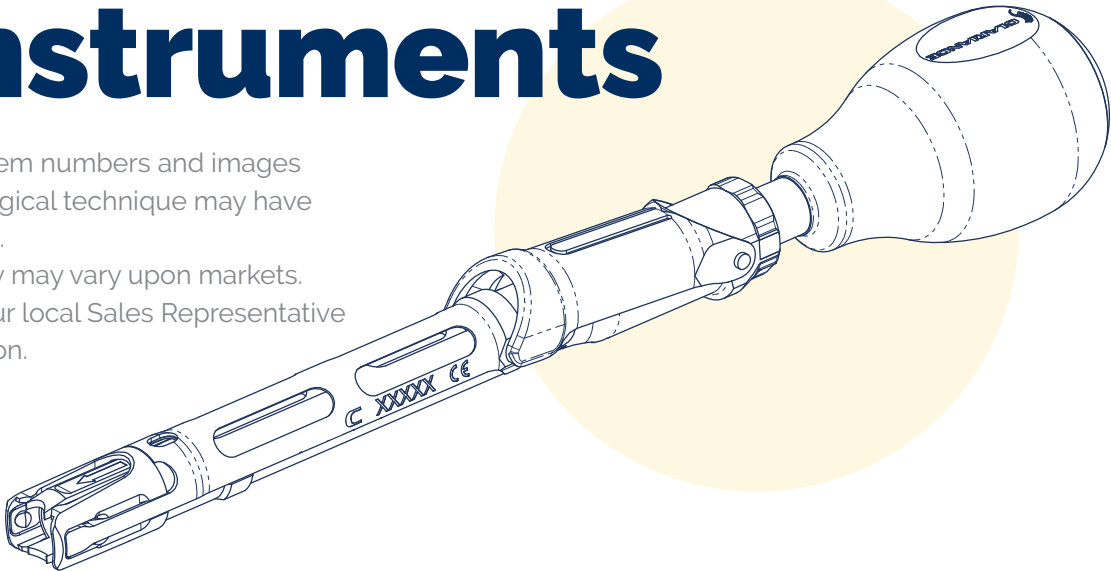
18911039



Note: the instruments item numbers and images featured in this surgical technique may have alternative options. Instruments and implants availability may vary upon markets. Please contact your local Sales Representative for more information.

Instruments

The instruments item numbers and images featured in this surgical technique may have alternative options.
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Please contact your local Sales Representative for more information.



Erisma-LP Instruments Tray #1



INSTRUMENTS TRAY #1

18991045
18990027

Tray
Lid



TAP

99701445*	4.5mm
99701455	5.5mm
99701465	6.5mm
99701475	7.5mm
99701485*	8.5mm



BONE AWL

99702002



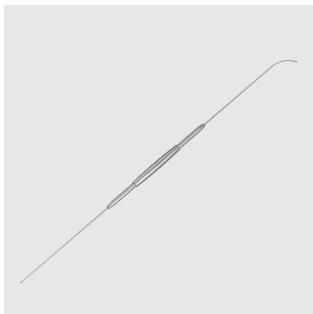
CURVED LUMBAR PROBE

99731001



CURVED THORACIC PROBE

99731002



DOUBLE PEDICLE SOUNDER

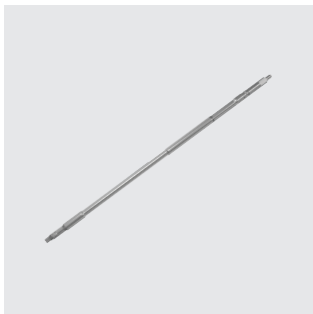
5073000



RATCHETING CYLINDRICAL HANDLE

99782006

Grey



SCREWDRIVER SHAFT

18911039

Shaft

**Optional: product availability may vary upon markets.*

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**QUICK CONNECT ROD**

13911004

**ASSEMBLY OF
SCREWDRIVER BODY**

18912026

**SLEEVE**

13914003

Erisma-LP Instruments Tray #2

**INSTRUMENTS TRAY #2**18991047
18990027Tray
Lid**CROSSLINK HOLDER***

18713001

**SET SCREW HOLDER***18714002
18714000**SELF-RETAINING SET
SCREWDRIVER**

01720006

Long

**SCREW HEAD
POSITIONER***

18719003

**T20 TIGHTENING
WRENCH**

18720000

**COUNTER TORQUE**

18721008

Perpendicular

**GUIDING TUBE**18721007
18721005Short
Long

**Optional: product availability may vary upon markets.*

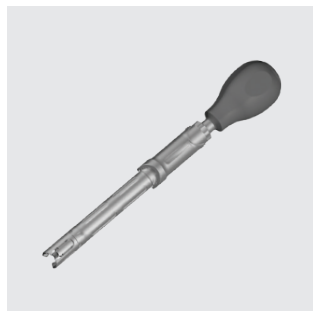
Note: the instruments item numbers and images featured in this surgical technique may have alternative options. Instruments and implants availability may vary upon markets. Please contact your local Sales Representative for more information.

Erisma-LP Instruments Tray #2



**CROSSLINK
TEMPLATE***

18733001



PERSUADER*

50742004
15780000



**ROD HOLDING
FORCEPS**

99715002

Angled



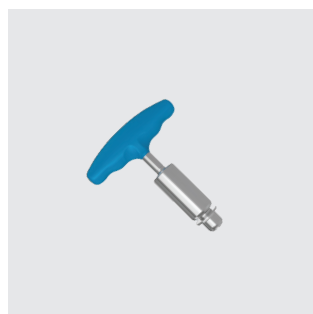
HEXAGONAL WRENCH*

99719000



**FIXED CANNULATED
HANDLE***

99781001



**RATCHETING TORQUE
LIMITING HANDLE**

99781212

**Optional: product availability may vary upon markets.*

Note: the instruments item numbers and images featured in this surgical technique may have alternative options. Instruments and implants availability may vary upon markets. Please contact your local Sales Representative for more information.

Erismal-LP Instruments Tray #3 (OPTIONAL)



INSTRUMENTS TRAY #3*

18991049
18990027

Tray
Lid



COMPRESSOR*

99740005

Parallel



DISTRACTOR*

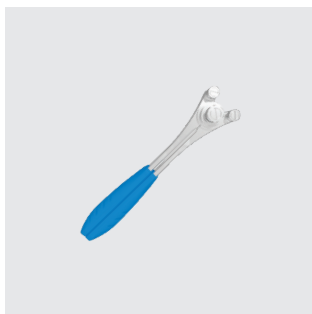
99741003

Inclined



ROD GRIPPER*

99736013



FRENCH BENDER*

507750000



ROCKER*

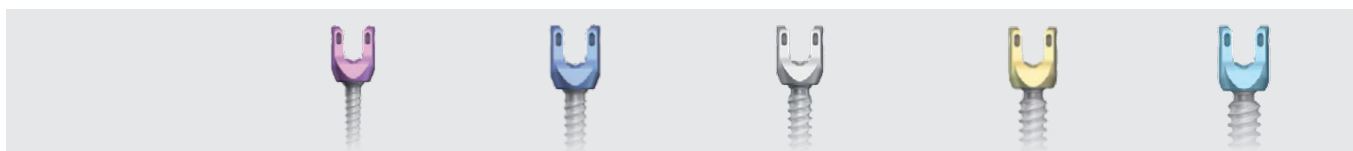
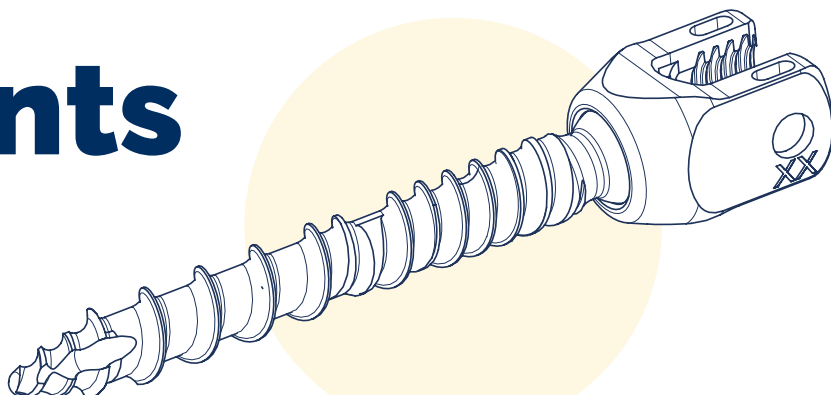
18742005

**Optional: product availability may vary upon markets.*

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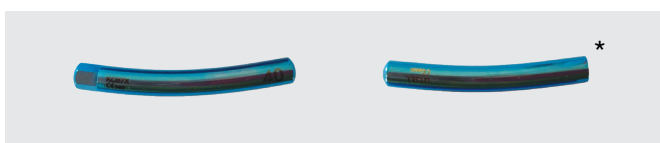
Implants

Product availability may vary upon markets. Please check with your local Sales Representative.



ERISMA-LP EVO POLYAXIAL SCREWS

	Ø4.5MM*	Ø5.5MM	Ø6.5MM	Ø7.5MM	Ø8.5MM*
L25MM	18154525*	18155525*	18156525*	-	-
L30MM	18154530*	18155530*	18156530*	18157530*	18158530*
L35MM	18154535*	18155535	18156535	18157535	18158535*
L40MM	18154540*	18155540	18156540	18157540	18158540*
L45MM	18154545*	18155545	18156545	18157545	18158545*
L50MM	-	18155550*	18156550	18157550	18158550*
L55MM	-	-	18156555*	18157555*	18158555*



ERISMA-LP EVO PRE-BENT RODS

	HEX	ROUND*		HEX	ROUND*
L30MM	18505030	18415503*	L60MM	18505060	18415506*
L35MM	18505035	18415535*	L70MM	18505070	18415507*
L40MM	18505040	18415504*	L80MM	18505080	18415508*
L45MM	18505045	18415545*	L90MM	18505090	18415509*
L50MM	18505050	18415505*	L100MM	18505100	18415510*



ERISMA-LP EVO STRAIGHT RODS

	HEX	ROUND*		HEX	ROUND*
L120MM	18515120	18455512*	L200MM	18515200	18455520*
L140MM	18515140	18455514*	L220MM	18515220	18455522*
L160MM	18515160	18455516*	L240MM	18515240	18455524*
L180MM	18515180	18455518*	-	-	-

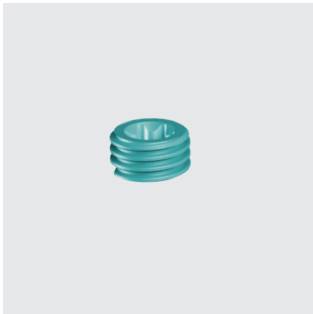
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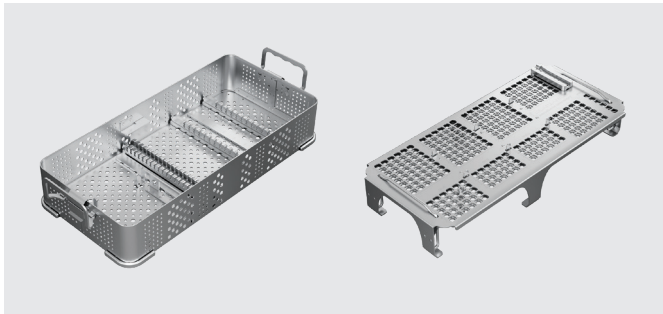
**ERISMA-LP EVO
CROSSLINKS***

18442731	S 27-31mm
18443037	M 30-37mm
18443547	L 35-47mm
18444567	XL 45-67mm
18445893	XXL 58-93mm



**ERISMA-LP EVO SET
SCREW**

13620009



ERISMA-LP EVO IMPLANT BASE

18991031
18991032
18991017
18991006/01*

Implant Base
Lid for Implant Base
Screw Caddy
Crosslink Tray

**Optional: product availability may vary upon markets.*

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Notified Body N°2460 - As some references are not covered by the  marking, refer to the product label which bears the  marking