

Designed for the spine



MANUFACTURER

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Introduction

Erisma®-LP MIS is a pedicle screw system designed for the stabilization of the posterior lumbar spine.

The new Erisma[®]-LP MIS design is based on the same efficient techniques as the Erisma[®]-LP Evolution, satisfying surgeons' needs regarding reliability, security, and ease of use. With a coherent set of implants and instruments, the Erisma[®]-LP MIS can be used for treating multiple thoraco-lumbar pathologies.

The Secure Guidewire of the Erisma®-LP MIS system enhances the security of MIS surgery.

> Indications

Degenerative pathologies
Spinal deformities
Tumors
Trauma
Spondylolisthesis

Features and Benefits



Extended Tab >Integrated thread for rod reduction.

Friction Fit Head >Easier screw manipulation.

Double Threaded **3-Zones**

>Unique design facilitates screw engagement in the pedicle for easier insertion.



Polyaxial Screw Head

> A screwhead angulation of 50° provides great flexibility in screw positioning and allows quick and easy insertion of the rod.



Comprehensive Range

>Erisma[®] - LP MIS offers a comprehensive range of implants for treating multiple indications with just one system, simplifying the surgical technique.

Polyaxial Screws Color coded by screw dimension









Pre-Bent Rods

Ø 5.5mm, Length 30mm through 100mm

Straight Rods

>Ø 5.5mm, Length 40mm through 490mm

Strong Connection

Asymmetrical threading of the set screw prevents splaying of the screw head and maximizes rod grip strength.



Instrumentation

Secure Guidewire

>The Secure Guidewire enhances security during tapping and screw insertion, while preventing penetration of the anterior cortical wall of the vertebra and significantly reducing the risk of pre-mature, involuntary removal of the Secure Guidewire.





INSTRUMENTATION

Persuader

>Powerful and controlled rod reduction.

Surgical Technique

Pedicle Screws
Pedicle Screw Preparation
Pedicle Screw Insertion
Removal of Protector Tube
Rod Preparation
Rod Insertion
Insertion of the Set Screw
Correction Maneuvers
Final Tightening
Removal of Extended Tabs
Technique for Premature Extended Tab Breakage
Ablation

The patient is positioned on the table in accordance with standard protocol. X-Ray guidance is used to identify the correct site. The surgical approach is carried out according to the standard techniques of the responsible surgeon.



Pedicle Screws

A • Positioning of Jamshidi Needle

The Jamshidi needle is aligned with the pedicle of the selected level.





dorsal view



07709225 (reusable) 99709000 (single-use) JAMSHIDI B • Insertion of Secure Guidewire

The Secure Guidewire is inserted through the insertion tube until complete retraction of the tulips occurs.



After removal of the inner needle of the Jamshidi, the insertion tube is introduced in the Jamshidi needle and locked.

The Secure Guidewire is directed into the Jamshidi needle until the tulips deploy in the vertebral body. The Jamshidi needle and insertion tube are then removed.



13709050 SECURE GUIDEWIRE





13720001 (reusable) 13720003 (single-use) INSERTION TUBE



Pedicle Screw Preparation

A • Dilator Tube Placement

The initial incision is enlarged by sliding the **dilators** along the **Secure Guidewire**. The **protector tube** is then positioned on the dilators. After the **protector tube** has been inserted, the **dilators** can be removed.

2







B • The Square Awl

The pedicle is prepared by penetrating the cortical bone with the square awl.





C • Tapping

The tap corresponding with the diameter size of the selected screw should be chosen. Taps are color coded in accordance with the color coding guide of the screws.



Recommendation

Markings on the tap can be used to estimate screw length. The second dilatator must remain in place during tapping.



Pedicle Screw Insertion

The selected screw is secured on the **screwdriver** by tightening the black knob clockwise.



Visual control of the screw attachment is recommended.





В

13710005 SCREWDRIVER



99780100 SQUARE AWL HANDLE



The **screwdriver** is released by turning the black knob counterclockwise.



Recommendation

The **Secure Guidewire** should be removed as soon as the pedicle screw is engaged in the bone.

Failure to do so may result in obstruction of the Secure Guidewire.







99762001 PLIERS

Removal of Protector Tubes

Once the screws are inserted, the **tubes** are removed.



4

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Rod Preparation

A • Rod Length Selection

The appropriate rod length is determined through the use of the rod selector. If the measurement is between two increments, the longer rod should be chosen.





B • Rod-Rod holder Connection

The **rod holder** is connected to the flat end of the rod. The connection between the rod and the instrument is secured by turning the knob clockwise.



C • Rod Bending

If necessary, the curvature of the rod can be adjusted using the French bender.

Recommendation

It is recommended to secure the rod to the rod holder before using the French bender.







Recommendation

Do not release the rod holder until the set screws are inserted.



The gauge is inserted in the screw heads to verify the rod position.

The marking on the gauge indicates the appropriate instrument for set screw insertion.



13733002 GAUGE

Insertion of the Set Screw

A • Insertion with the T30 screwdriver

Recommendation

Peek rings are available to avoid splaying of the screw-tabs during set screw insertion.



B • Insertion with Persuader

 The set screw is attached to the persuader by pressing the set screw onto the instrument until a "click" is heard.



clic

7



2. The instrument is connected to the screw head.



3. The handle is inserted onto the instrument.





13780000 PERSUADER HANDLE





5. Push the trigger to remove the instrument.



Correction Maneuvers

The pliers have two different positions for compression and distraction, indicated by engravings on the instrument.



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A • Compression

For compression, the **pliers** are applied to the proximal part of the screw tabs. The cylinder must be positioned above the **pliers**.



If the screw heads are too far apart, then use the appropriate guide tubes.





13747001 Ø12mm 13747002 Ø14mm 13747003 Ø16mm

GUIDE TUBE

B B Distraction

For distraction, the **pliers** are applied to the distal part of the screw tabs. The cylinder of the **pliers** should be positioned below the **pliers**.



9

Final Tightening

The **counter torque** is positioned on the screw head. The **T**₃o **screwdriver** is connected to the **12N m torque limiting T-handle** and inserted into the **set screw** through the torque limiting handle. The final tightening is done until the torque limiting handle clicks.





Removal of extended tabs

The **pliers** are applied to the removable part of the screw tabs. A lateral back and forth movement separates the tabs.



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Technique for Premature Extended Tab Breakage

A • First Operation

The Guide for **rescue tube** is screwed in the pedicle screw head.



The concave shape of the **rescue tube** must be parallel to the pedical screw tabs.





13719006 GUIDE FOR RESCUE TUBE

B • Second Operation

The Remaining tab is broken off.



13719005 RESCUE TUBE

D • Fourth Operation

1

Once the **rescue tube** is properly positioned on the pedicle screw head, the **guide for the rescue tube** can be removed.

2

The **persuader** can be attached on the rescue tube.

3



Removing of the rescue tube.



service department of **CLARIANCE**. The required material will be shipped at your convenience.



POLYAXIAL SCREW		

L. (mm)	Ø 4,5	Ø 5,5	Ø 6,5	Ø 7,5	Ø 8,5
25	13014525	13015525	_	_	_
30	13014530	13015530	13016530	13017530	_
35	13014535	13015535	13016535	13017535	_
40	13014540	13015540	13016540	13017540	13018540
45	13014545	13015545	13016545	13017545	13018545
50	_	13015550	13016550	13017550	_
55	_	13015555	13016555	13017555	_

PRE-BENT RODS	
Length (mm)	
30	
35	
40	
45	
50	
55	
60	

Length (mm)	Reference
40	13495040
50	13495050
60	13495060
70	13495070
80	13495080
90	13495090
100	13495100
110	13495110
120	13495120
140	13495140
160	13495160
180	13495180
200	13495200
440	13495440
490	13495490

LOCKING SCREW

Trays

Instrument Tray #1	13991000
Lid for Instrument Tray #1	13991001
Instrument Tray #2	13991002
Lid for Instrument Tray #2	13991003
Instrument Tray #3	13991004
Lid for Instrument Tray #3	13991005
Lid for Implant Tray #1	13991006
Implant Tray #1	13991007
Lid for Implant Tray #2	13991008
Implant Tray #2	13991009
Set Screw Rack	13991010

4. Once the shaft is fully engaged, slightly turn it while pushing until the shaft perfectly fit with the quick-connect shaft and clips.

5. Slightly pull the quick-connect shaft to facilitate the settle of the screwdriver handle.

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