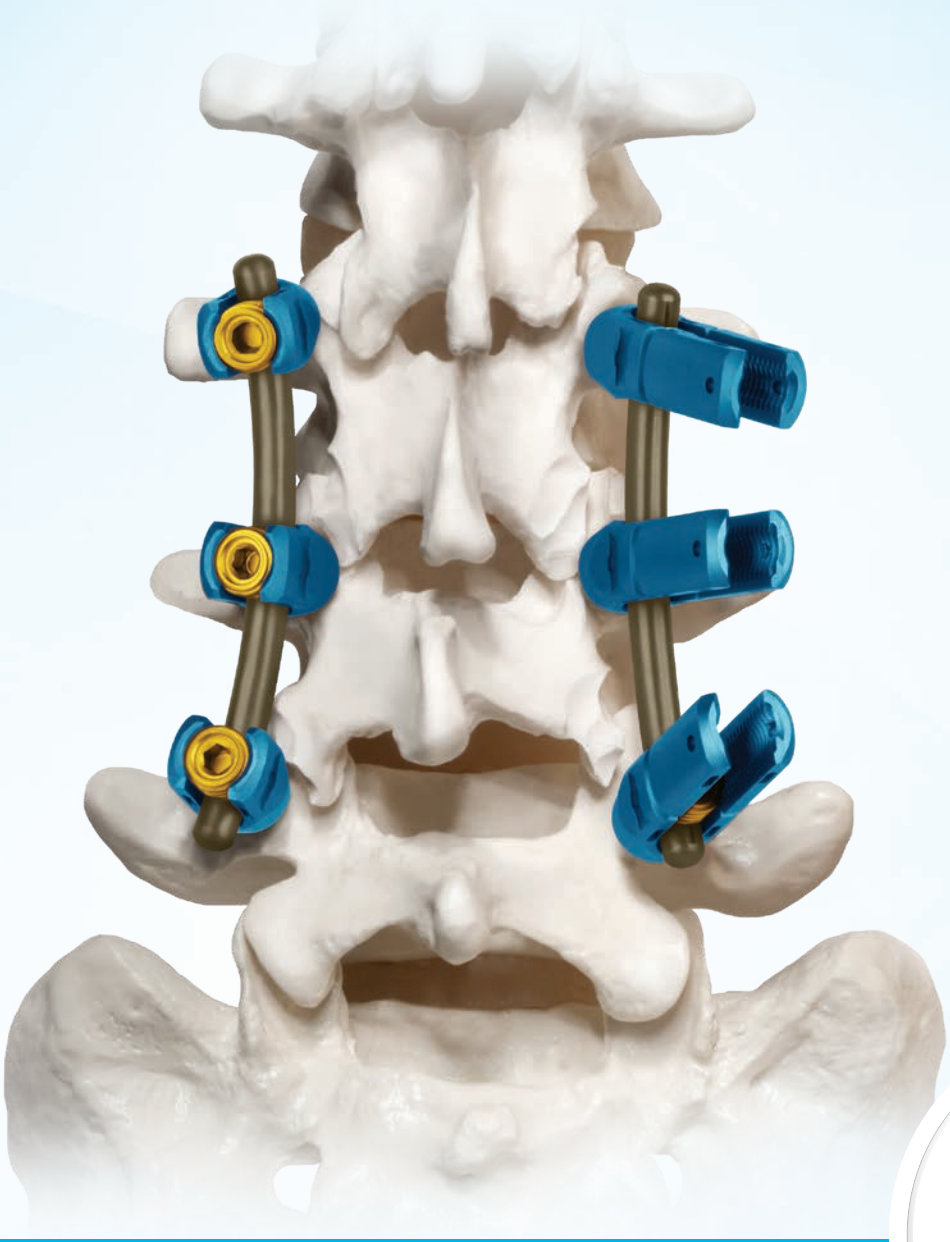




REVERE™

Threaded Reduction Screw System

Outside the US Only

GLOBUS MEDICAL

Our mission is to deliver cutting-edge technology, research, and innovative solutions to promote healing in patients with musculoskeletal disorders.

Life moves us

The Surgical Technique shown is for illustrative purposes only. The technique(s) actually employed in each case always depends on the medical judgment of the surgeon exercised before and during surgery as to the best mode of treatment for each patient. Additionally, as instruments may occasionally be updated, the instruments depicted in this Surgical Technique may not be exactly the same as the instruments currently available. Please consult with your sales representative or contact Globus directly for more information.

SURGICAL TECHNIQUE GUIDE

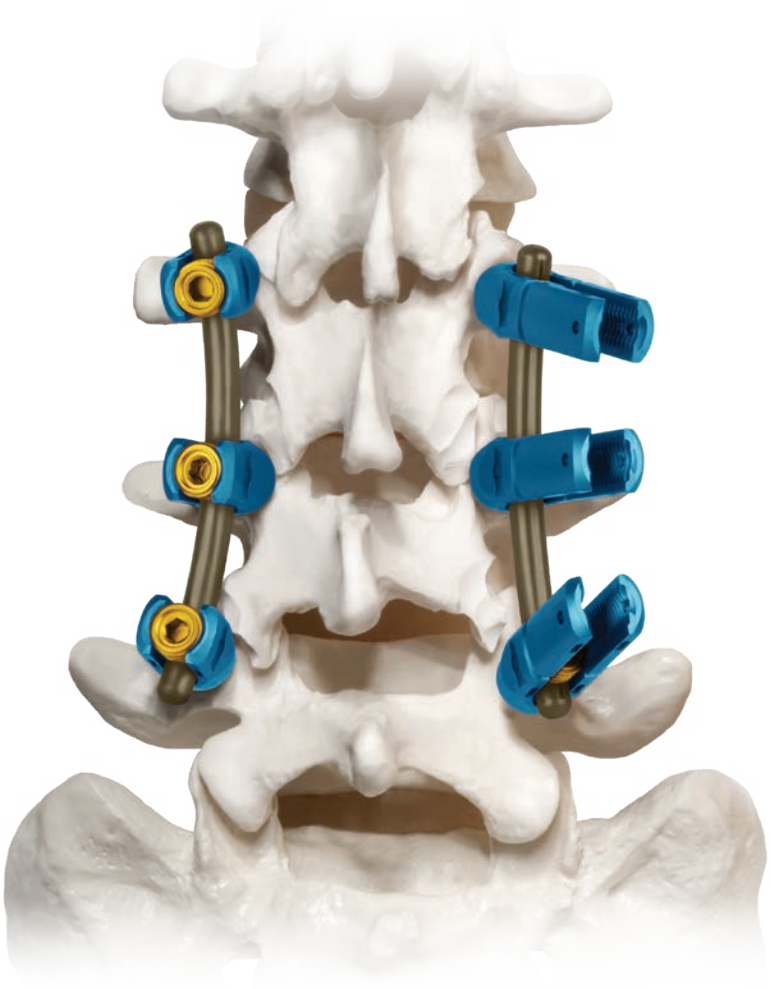
REVERE™

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REVERE™

Threaded Reduction Screw System

The REVERE™ Threaded Reduction Screw System includes both polyaxial and uniplanar screws specifically designed to address spondylolisthesis and other deformities of the spine. The ±30° screw angulation (60° total) provides intraoperative versatility. Reduction tabs allow maximum rod reduction into the screw head and the blunt screw tip permits bicortical purchase. The threaded locking cap mechanism is optimal for cases in which patient anatomy limits the space for reduction maneuvers.





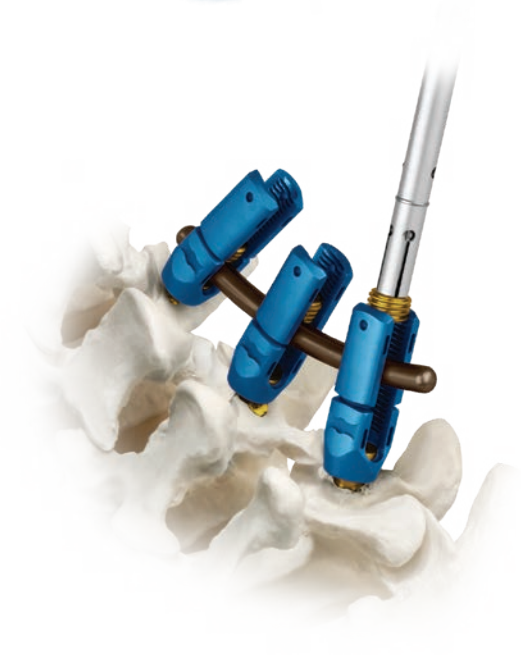
Streamlined Rod Capture

- Threaded locking cap design enables easy rod capture
- Eliminates need for reduction instruments



Integrated Rod Reduction

- Reduction tabs allow for controlled rod reduction
- Sequential reduction capability for longer deformity constructs



Efficient Tab Removal

- Hinged Tab Breaker allows for quick removal of both the tabs in one step
- Instrument retains tabs for easy and safe removal



IMPLANT OVERVIEW

REVERE™ Threaded Locking Cap

- Locking mechanism with optimized torque (8Nm)
- Reduction with minimal instrumentation

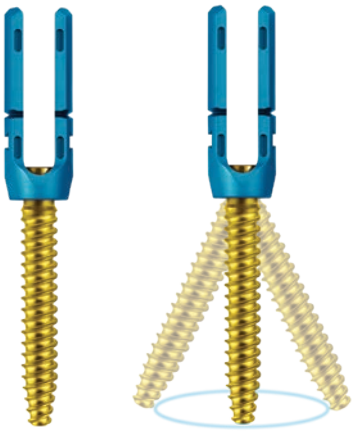
REVERE™ Threaded Polyaxial Reduction Screws

- ±30° screw angulation (60° total) provides intraoperative versatility
- 20mm extension tabs allow rod reduction into the screw head
- Screw diameters: 4.5, 5.0, 5.5, 6.5, and 7.5mm
- Screw lengths: 25-65mm in 5mm increments
- Blunt tip for bicortical purchase
- Constant outer diameter for maximum bone purchase
- Double lead thread for rapid insertion

REVERE™ Threaded Uniplanar Reduction Screws

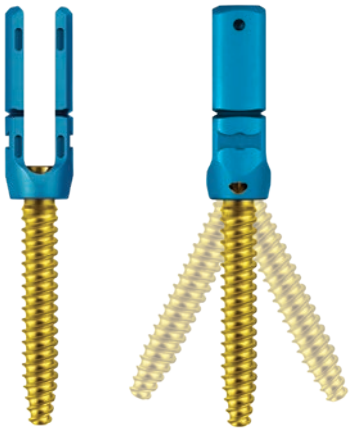
- ±20° screw angulation (40° total) provides intraoperative versatility
- 20mm extension tabs allow rod reduction into the screw head
- Screw diameters: 4.5, 5.0, 5.5, and 6.5mm
- Screw lengths: 25-55mm in 5mm increments
- Blunt tip for bicortical purchase
- Constant outer diameter for maximum bone purchase
- Double lead thread for rapid insertion

±30° Angulation



REVERE™ Threaded Polyaxial Reduction Screws

±20° Angulation



REVERE™ Threaded Uniplanar Reduction Screws

INSTRUMENT OVERVIEW

INSERTION/REDUCTION INSTRUMENTS



3.5mm Hex Screwdriver, Threaded Reduction Screw 624.554



Threaded Reduction Cap Driver, Shaft 624.550



3.5mm Self-Retaining Hex Driver Shaft, 1/4” Connect 624.551



Reduction Adapter 624.534



Quick-Release 1/4”, Ratchet, Straight Handle 630.407



Screwdriver Shaft, 3.5mm Hex 1/4” QC, Self-Retaining 630.414

INSERTION/REDUCTION INSTRUMENTS (CONT'D)



Final Tightening Counter-Torque,
Reduction 624.553

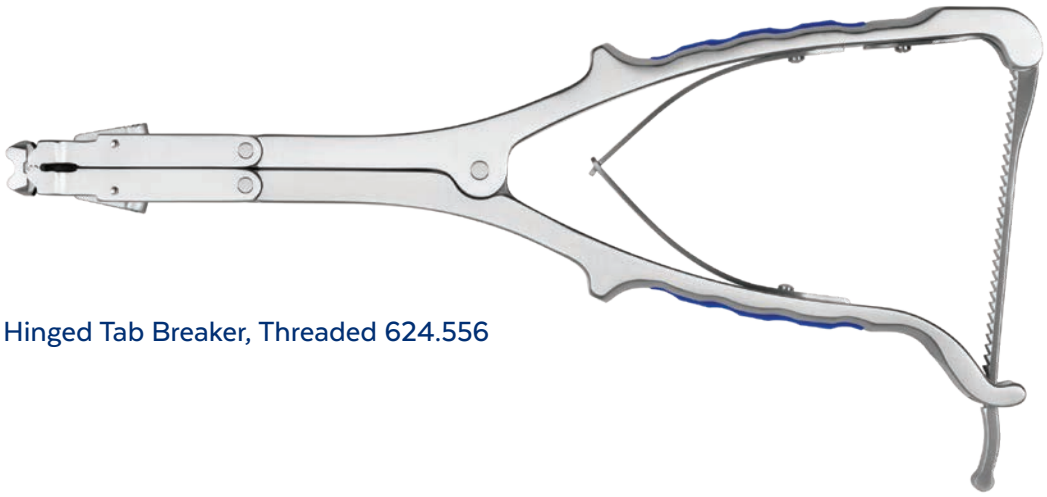


3.5mm Torque-Limiting Driver
Ratcheting, 1/4" Connect,
8.0Nm 634.611

TAB BREAKING INSTRUMENTS



Reduction Screw, Tab Grip 624.555



Hinged Tab Breaker, Threaded 624.556

SURGICAL TECHNIQUE

REVERE™

STEP 1 APPROACH

The patient is placed under anesthesia and positioned prone. The operative area is carefully cleaned and an incision is made at the appropriate level(s). Lateral C-arm fluoroscopy or other radiographic methods can be utilized throughout surgery to ensure correct screw placement.

There are various techniques for pedicle screw and rod insertion. For the purposes of this technique guide, a Wiltse paramedial approach and building of an L3-L4-L5 construct is shown.

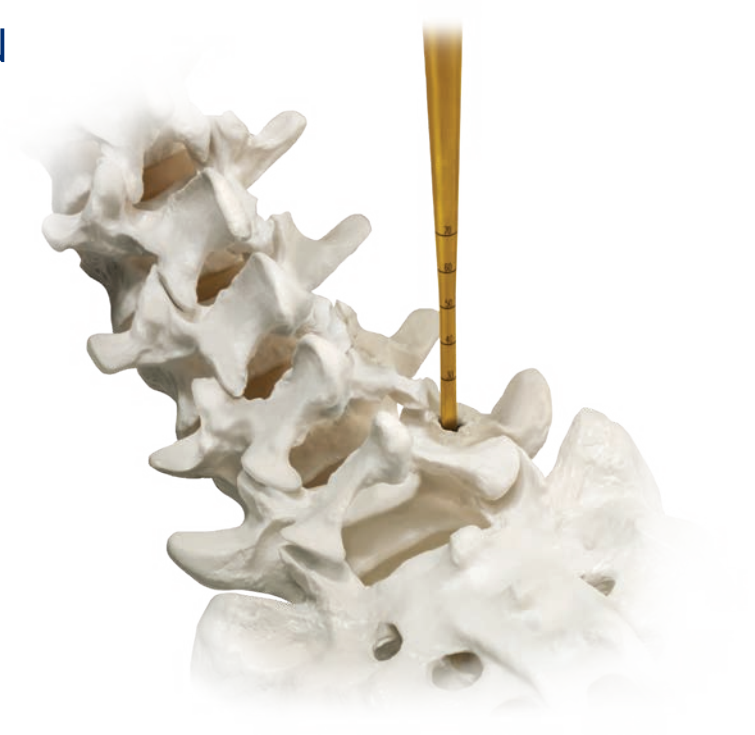
This system may be utilized with the REVERE™ Degenerative and/or Deformity Systems. Refer to the product insert for complete description, indications, contraindications, warnings, and precautions.

Note: The REVERE™ Implant and Instrument Sets (924.931, 924.902, and 924.903) are needed to perform certain steps in this procedure.



Patient positioning

STEP 2 SCREW INSERTION



Reduction Screw Insertion

Prepare the pedicles by removing bone and/or soft tissue as needed using standard preparation instruments. Refer to the **REVERE™ Stabilization System Surgical Technique Guide (GMTGD17)** for further instructions on pedicle preparation.

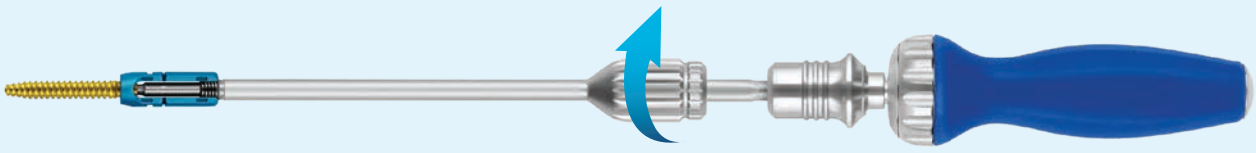
Verify screw size by checking the length and diameter markings on the screw head. Select the appropriate REVERE™ Threaded Reduction Screw diameter and length and load onto the **3.5mm Hex Screwdriver, Threaded Reduction Screw**, as shown below.

USING THE 3.5MM HEX SCREWDRIVER, THREADED REDUCTION SCREW

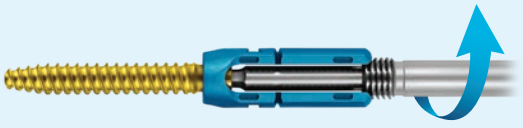
Assemble the 3.5mm Hex Screwdriver, Threaded Reduction Screw onto the **Quick-Release 1/4" Ratchet, Straight Handle**. Insert the hex tip of the screwdriver into the hex on the screw head. To secure the screw onto the screwdriver, thread the outer sleeve of the screwdriver into the screw's reduction tabs by rotating the knurled knob clockwise until it stops.

Drive the threaded reduction screw into the prepared pedicle. To remove the screwdriver, rotate the knurled knob counterclockwise to disengage from the reduction tabs. Pull the screwdriver straight up to disengage the hex.

If a screw head needs to be remobilized, the **Final Tightening Counter-Torque, Reduction** can be used.



REVERE™ Threaded Reduction Screw loaded onto screwdriver



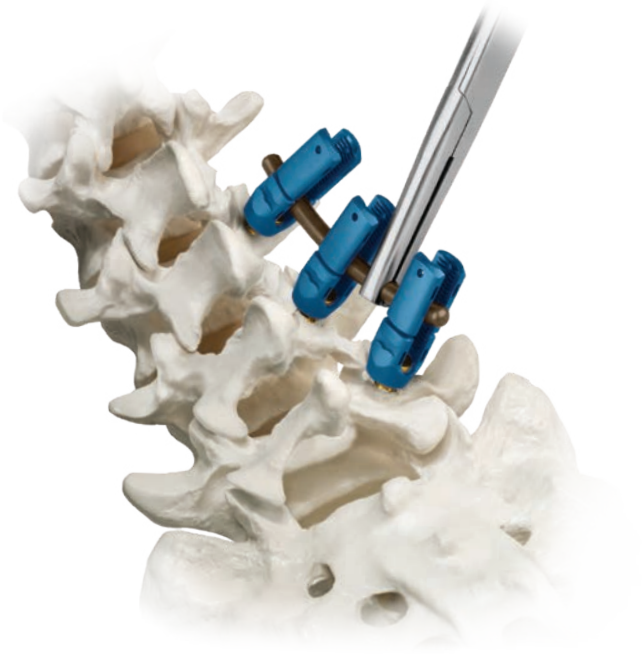
Outer sleeve of screwdriver engaging with reduction tab



Reduction screw locked onto screwdriver

STEP 3 ROD INSERTION

Determine the appropriate length and contour of the desired 5.5mm diameter rod. Using the **Rod Holder** (from REVERE™ Instrument Set 924.902), insert the rod (from REVERE™ Expanded Implant Set 924.931) into the screw heads and capture the rod with REVERE™ Threaded Locking Caps.



Additional Reduction

In spinal deformity applications where the spinal curvature is severe and the rod sits above the reduction tabs, the **Reduction Tower** (from REVERE™ Instrument Set 924.903) may be used to provide additional reduction, as the tabs are designed to engage with the Reduction Tower. Refer to the REVERE™ Stabilization System Surgical Technique Guide for instructions on the Reduction Tower.

The **3.5mm Self-Retaining Hex Driver Shaft, 1/4" Connect** or **Screwdriver Shaft, 3.5mm Hex 1/4" QC, Self-Retaining** is used to insert the threaded locking cap through the Reduction Tower to further reduce and provisionally capture the rod. Use the **Threaded Reduction Cap Driver, Shaft** once the locking cap is introduced into the reduction tabs.

Loading the Cap Driver

Load the locking cap from the cap module by pushing the Threaded Reduction Cap Driver, Shaft into the hex of the locking cap until it clicks. The click indicates that the locking cap is now retained by the driver.

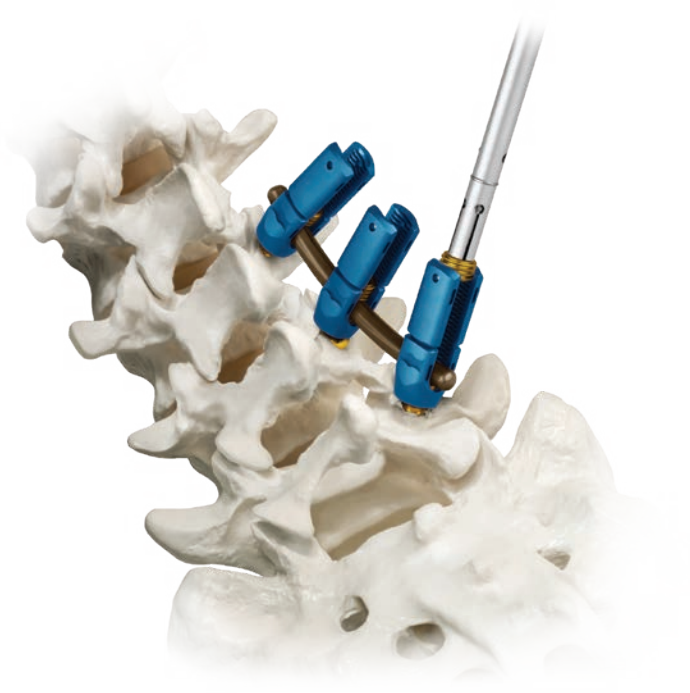
Note: The cap driver may be disengaged from the cap by gently rocking from side to side and pulling up once the cap is captured by the reduction tab threads.



Threaded locking cap module

ROD INSERTION (CONT'D)

Locking Cap Insertion



For better visualization, the sleeve on the Threaded Reduction Cap Driver, Shaft may be moved to the top of the shaft. The sleeve should be utilized during cap insertion to ensure proper cap-screw engagement. Engage the threads on the locking cap with the reduction tabs by rotating the cap driver clockwise. If preferred, the **Reduction Adapter** and a quick-connect handle may be used.

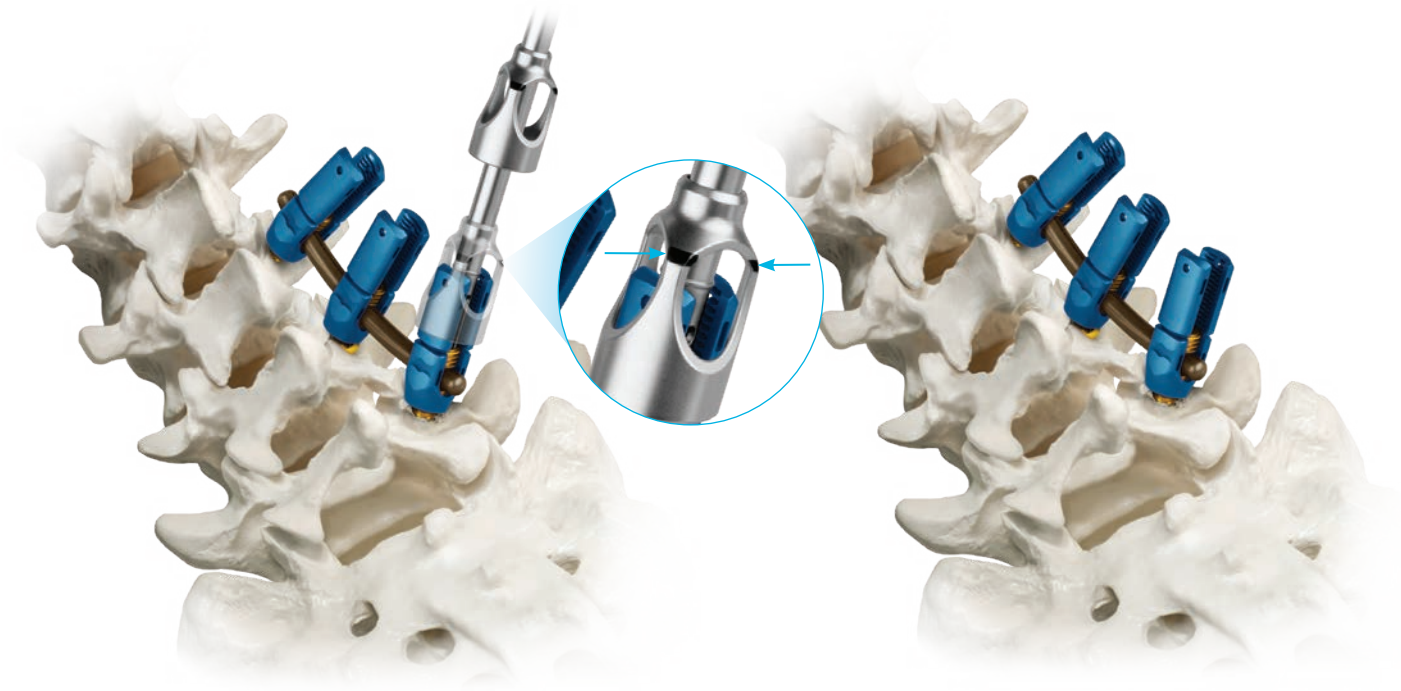
The rod is provisionally captured when one thread of the locking cap is engaged with the reduction tabs. Use the threaded locking cap and cap driver to reduce the rod into the screw head.

When the rod is fully reduced and the screw is provisionally tightened, the laser etching located on the three points of the sleeve is in line with the top of the reduction tabs.

Remove the cap driver by gently rocking side to side and pulling up. The construct is not completely locked until final tightening.

Note: If the locking cap cross-threads, a counterclockwise rotation may be used to re-align the threads.

If compression or distraction is required, refer to the REVERE™ Stabilization System Surgical Technique Guide.



Laser etching aligned with reduction tabs

Fully reduced rod

STEP 4 FINAL TIGHTENING & TAB REMOVAL

Final Tightening Reduction Screws

To final tighten, connect the 3.5mm Hex Screwdriver Shaft, 1/4" Connect or Screwdriver Shaft, 3.5mm Hex 1/4" QC, Self-Retaining to the **3.5mm Torque-Limiting Driver, Ratcheting, 1/4" Connect, 8.0Nm**.

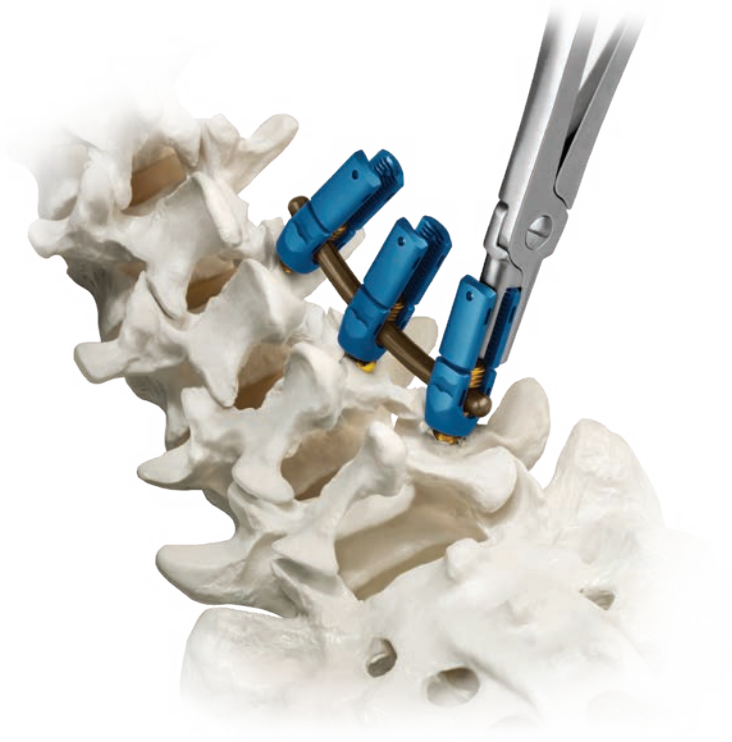
Pass the 3.5mm hex driver through the Final Tightening Counter-Torque, Reduction. Insert the tip of the 3.5mm hex driver into the hex on the locking cap prior to sliding the counter-torque over the reduction tabs and screw head. Rotate the torque-limiting handle clockwise until the handle reaches the torque limit. Repeat for all reduction screws.



Reduction Tab Removal

Option A: Single Tab Removal

Secure the **Reduction Screw, Tab Grip** onto the reduction tabs by placing the thinner tip of the instrument on the inside of the screw head. Compress the ratchet handle until fully locked onto the reduction tab. Apply lateral force to break off one tab. Repeat this step to remove the remaining tabs.

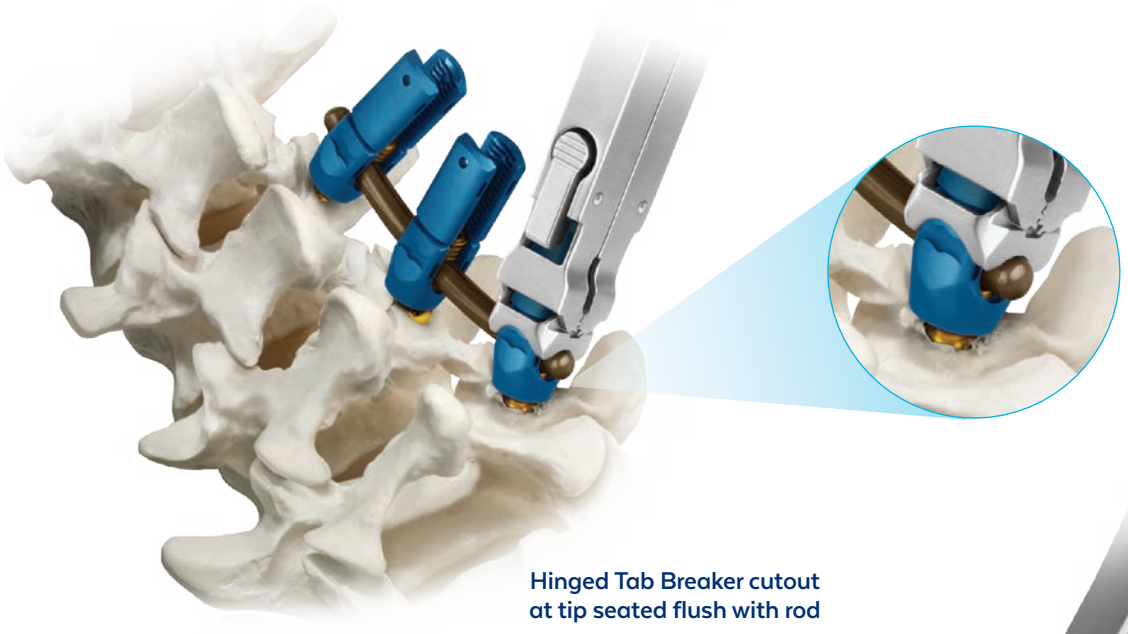


Using Reduction Screw, Tab Grip

FINAL TIGHTENING & TAB REMOVAL (CONT'D)

Option B: Dual Tab Removal

Place the Hinged Tab Breaker, Threaded over the screw heads such that the cutout at the tip is seated flush with the rod on both sides. Compress the handles fully until the distal end of the handles meet. Rock the instrument medial-lateral to break both tabs. The broken tabs are retained by the instrument. After moving away from the patient, press the thumb locks on the instrument to release the tabs.



Hinged Tab Breaker cutout at tip seated flush with rod



Distal end with handles fully compressed



Hinged Tab Breaker with handles fully compressed

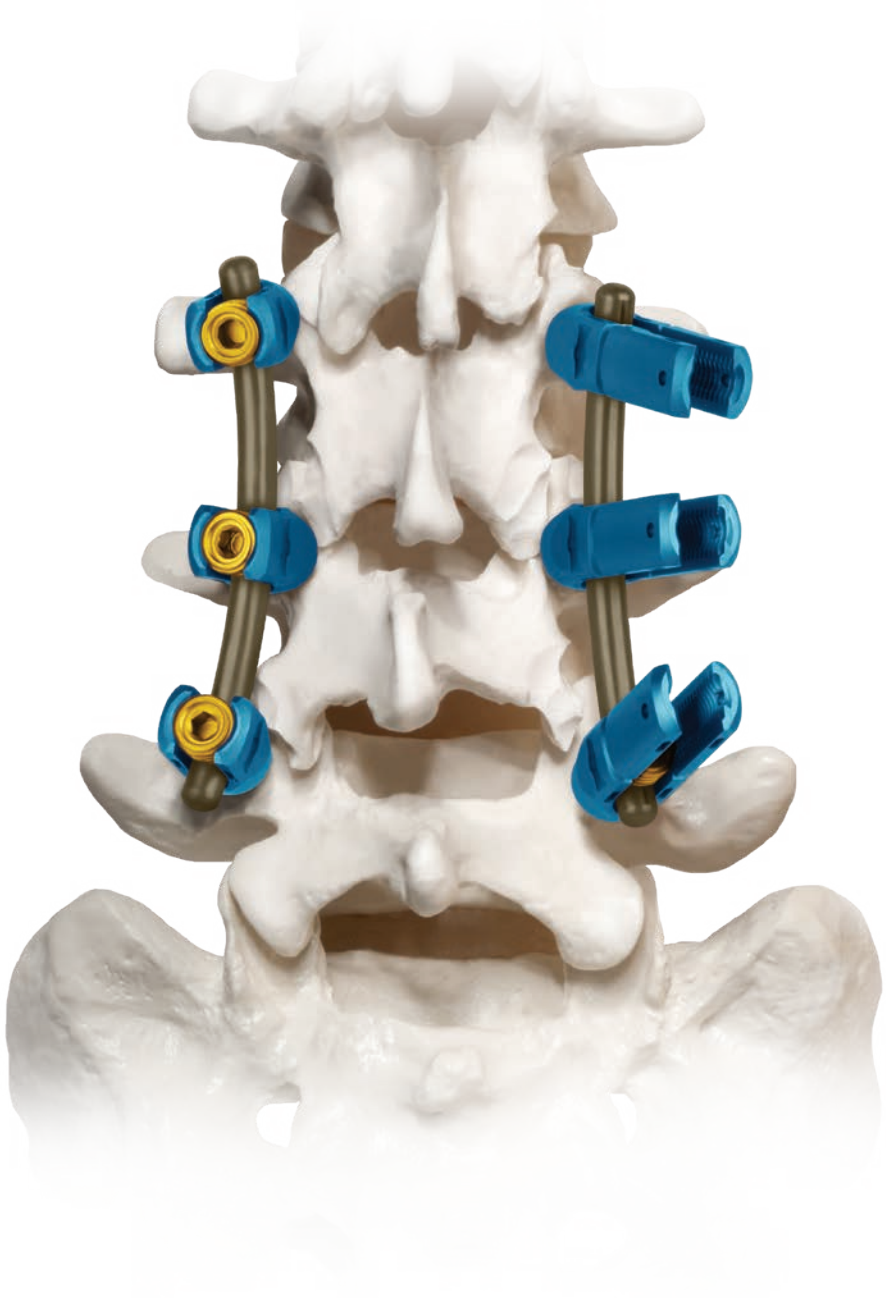


Reduction tabs removed from screw head



Thumb locks compressed to release tabs from Hinged Tab Breaker

FINAL CONSTRUCT



FINAL CONSTRUCT



REVERE™ THREADED REDUCTION
IMPLANT AND INSTRUMENT SET 924.939

Part No.	Description	Qty
524.100	REVERE™ Threaded Locking Cap	16

REVERE™ Threaded Reduction Screw

Part No.	Description	Qty
524.108	5.0mm x 30mm	4
524.109	5.0mm x 35mm	4
524.110	5.0mm x 40mm	4
524.111	5.0mm x 45mm	4
524.116	5.5mm x 30mm	4
524.117	5.5mm x 35mm	8
524.118	5.5mm x 40mm	8
524.119	5.5mm x 45mm	4
524.124	6.5mm x 30mm	4
524.125	6.5mm x 35mm	10
524.126	6.5mm x 40mm	12
524.127	6.5mm x 45mm	12
524.128	6.5mm x 50mm	8
524.129	6.5mm x 55mm	4
524.135	7.5mm x 35mm	2
524.136	7.5mm x 40mm	6
524.137	7.5mm x 45mm	6
524.138	7.5mm x 50mm	6
524.139	7.5mm x 55mm	2

REVERE™ Threaded Uniplanar Reduction Screw

Part No.	Description	Qty
524.221	5.5mm x 25mm	2
524.222	5.5mm x 30mm	4
524.223	5.5mm x 35mm	8
524.224	5.5mm x 40mm	8
524.225	5.5mm x 45mm	2
524.232	6.5mm x 30mm	2
524.233	6.5mm x 35mm	4
524.234	6.5mm x 40mm	8
524.235	6.5mm x 45mm	8
524.236	6.5mm x 50mm	8

Additionally Available Polyaxial Screws

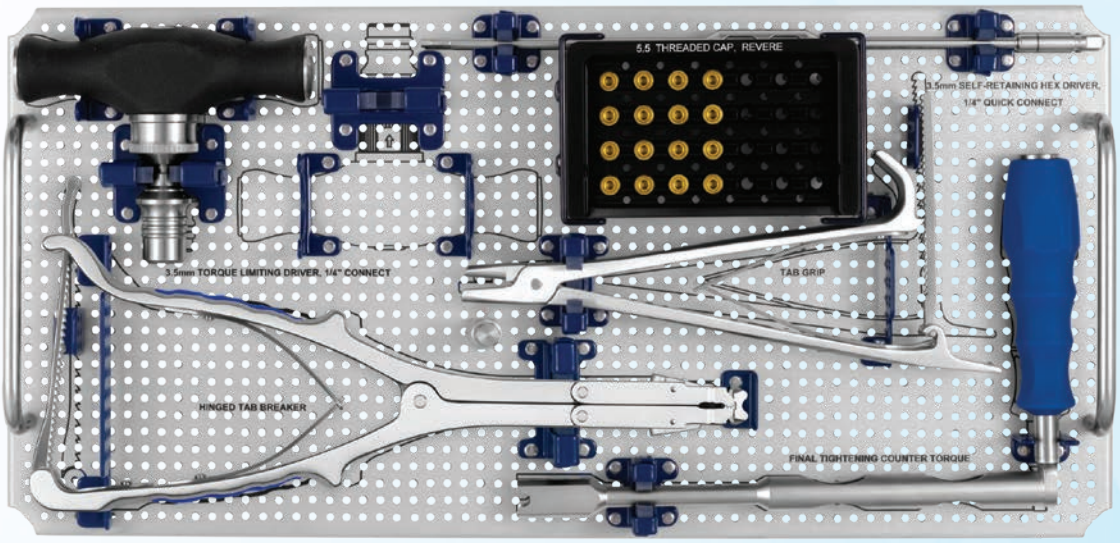
Part No.	Description
524.101	4.5mm x 25mm
524.102	4.5mm x 30mm
524.103	4.5mm x 35mm
524.104	4.5mm x 40mm
524.105	4.5mm x 45mm
524.107	5.0mm x 25mm
524.112	5.0mm x 50mm
524.113	5.0mm x 55mm
524.115	5.5mm x 25mm
524.120	5.5mm x 50mm
524.121	5.5mm x 55mm
524.123	6.5mm x 25mm
524.130	6.5mm x 60mm
524.131	6.5mm x 65mm
524.133	7.5mm x 25mm
524.134	7.5mm x 30mm
524.140	7.5mm x 60mm
524.141	7.5mm x 65mm

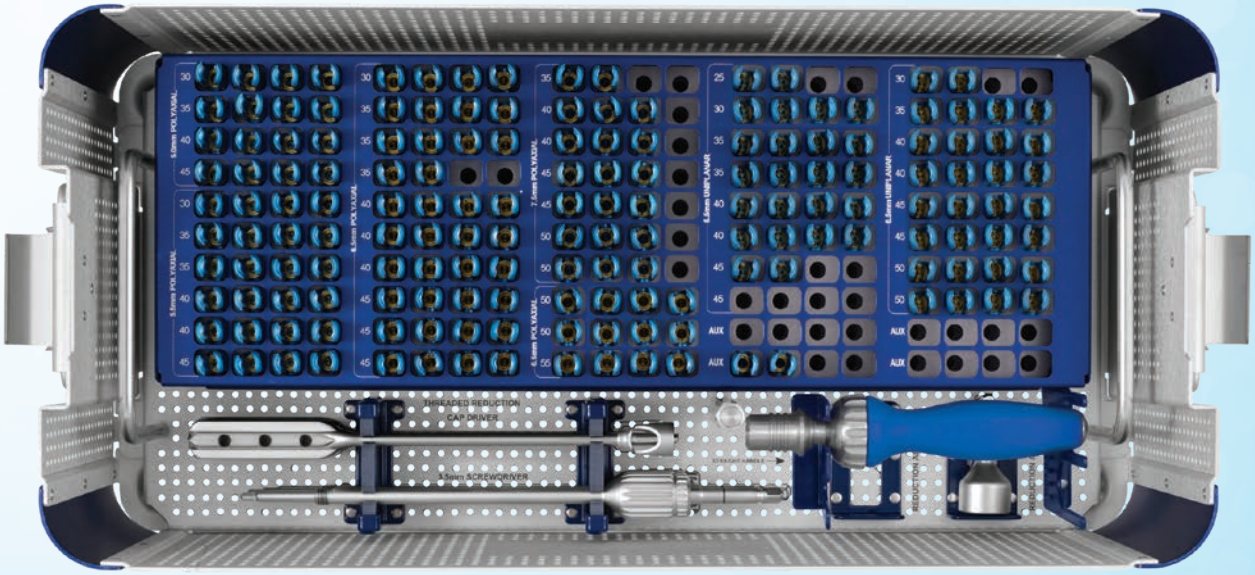
Additionally Available Uniplanar Screws

Part No.	Description
524.205	4.5mm x 25mm
524.206	4.5mm x 30mm
524.207	4.5mm x 35mm
524.208	4.5mm x 40mm
524.209	4.5mm x 45mm
524.210	4.5mm x 50mm
524.211	4.5mm x 55mm
524.213	5.0mm x 25mm
524.214	5.0mm x 30mm
524.215	5.0mm x 35mm
524.216	5.0mm x 40mm
524.217	5.0mm x 45mm
524.218	5.0mm x 50mm
524.219	5.0mm x 55mm
524.226	5.5mm x 50mm
524.227	5.5mm x 55mm
524.231	6.5mm x 25mm
524.237	6.5mm x 55mm

NOTE: Set configuration may vary depending on location. Please consult your Globus Medical Sales Representative.

REVERE™ THREADED REDUCTION
IMPLANT AND INSTRUMENT SET 924.939





NOTE: Set configuration may vary depending on location.
Please consult your Globus Medical Sales Representative.

REVERE™ THREADED REDUCTION
IMPLANT AND INSTRUMENT SET 924.939

	Part No.	Description	Qty
1	624.534	Reduction Adapter	1
2	624.550	Threaded Reduction Cap Driver, Shaft	2
3	624.551	3.5mm Self-Retaining Hex Driver Shaft, 1/4" Connect	1
4	624.553	Final Tightening Counter-Torque, Reduction	1
5	624.554	3.5mm Hex Screwdriver, Threaded Reduction Screw	2
6	624.555	Reduction Screw, Tab Grip	1
7	624.556	Hinged Tab Breaker, Threaded	1
8	634.611	3.5mm Torque-Limiting Driver, Ratcheting, 1/4" Connect, 8.0Nm	1
9	630.414	Screwdriver Shaft, 3.5mm Hex, 1/4" QC, Self-Retaining	1
10	630.407	Quick-Release 1/4", Ratchet, Straight Handle	1
	924.039	REVERE™ Threaded Reduction Screw Set Graphic Case	
	924.239	5.5 Threaded Cap Module Assembly	

Instruments From Other Sets

Part No.	Description
624.510	Rod Holder (located in set 924.902)
624.800	Reduction Tower (located in set 924.903)

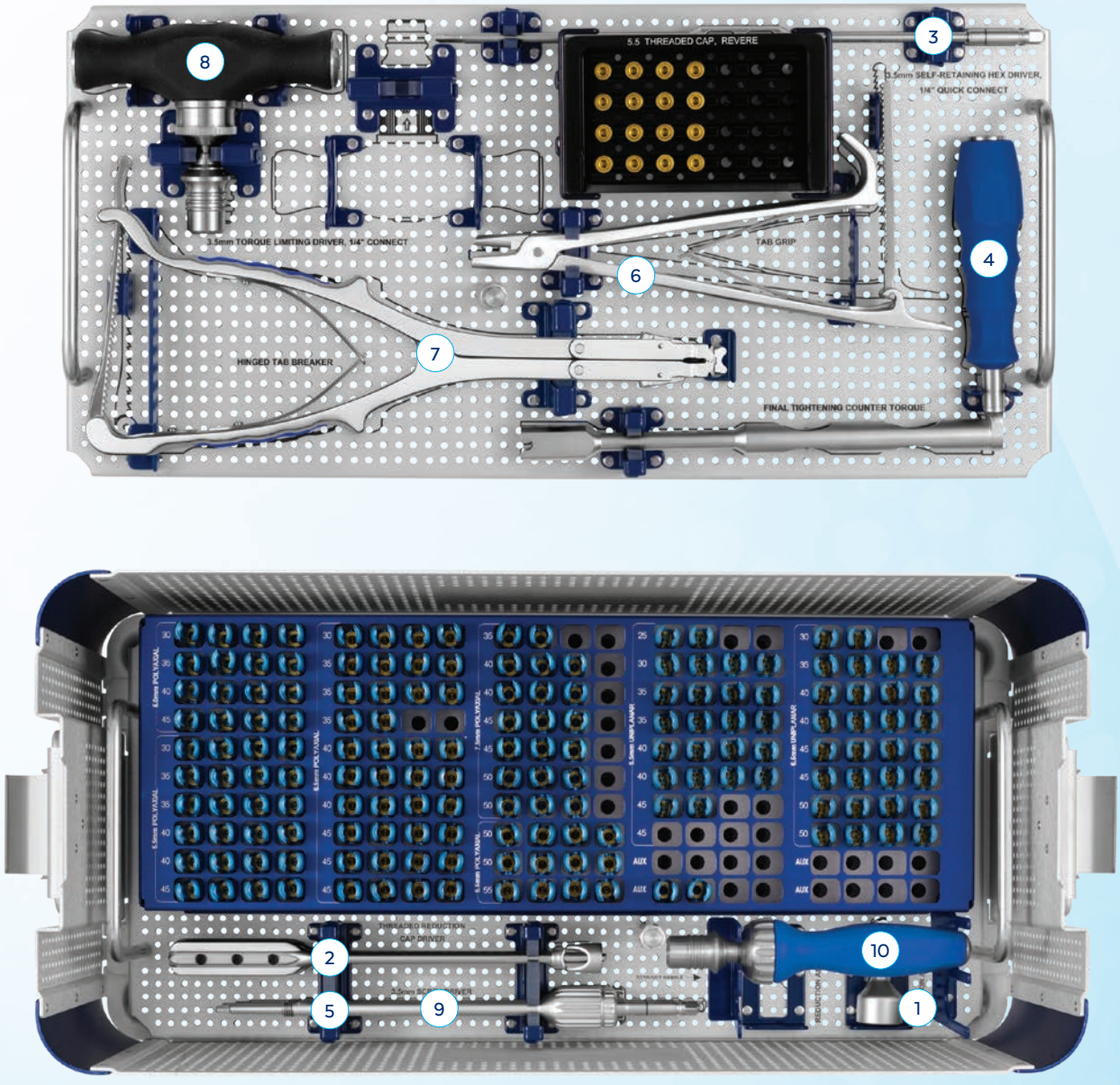
Other Sets Required

Part No.	Description
924.931	REVERE™ Extended Implants (including rods)
924.902	REVERE™ Instruments I
924.903	REVERE™ Instruments II
924.904	REVERE™ Deformity Instrument Set

Items in gray are additionally available.

NOTE: Set configuration may vary depending on location. Please consult your Globus Medical Sales Representative.

REVERE™ THREADED REDUCTION
IMPLANT AND INSTRUMENT SET 924.939



NOTE: Set configuration may vary depending on location.
Please consult your Globus Medical Sales Representative.

NOTES

NOTES

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