



Surgical Technique

Vertaux Occipital System

about us

Auxein Medical is an integrated, research based, orthopaedic Implants & instruments manufacturing company, producing a wide range of quality, affordable generic implants, trusted by healthcare professionals and patients across geographies. It is the Company's constant endeavor to provide a wide basket of generic and our innovator products that exceed the highest expectations of customers in term of quality and safety. The company has world-class manufacturing unit established in india and serves customers in over 75 countries worldwide.

Our Achievements



Guidelines

This publication sets forth detailed recommended procedures for using Auxein Medical devices and instruments.

It offers guidance that needs to be heeded. However, with any such technical guide, each surgeon must consider the unique needs of each patient and make appropriate adjustments when and as required.

A workshop training under DAIS Academy by Auxein will provide assistance prior to first surgery. It is vital to know that all non-sterile devices must be cleaned and sterilized before use.

Moreover, multi-component instruments must be disassembled for cleaning. The surgeon must discuss all relevant risks, including the finite lifetime of the device, with the patient, when necessary.

Please NOTE that all the bone screws referenced in this document here are not approved for screw attachment or fixation in the areas not mentioned in this publication.

Warning:

This description is not sufficient for immediate application of the instrumentation. Instruction by a surgeon experienced in handling this instrumentation is highly recommended.



Indications and Contraindications

To provide stabilization and promote fusion of the cervical spine and occipito-cervical junction, the Vertaux Occipital System combined with the Vertaux Occipital System is used.

Indications

1. Occipito-cervical and upper cervical spine instability:

Rheumatoid arthritis, tumours and infections, congenital anomalies, and post-traumatic conditions

2. Instability in the cervical and upper thoracic spine:

Post-traumatic conditions, tumours, iatrogenic instability after laminectomy, etc.

3. Degenerative and painful post-traumatic conditions in the lower cervical and upper thoracic spine an anterior cervical fusion requiring additional posterior stabilization.

Contraindication

Destruction of the spine, accompanied by loss of the ventral support (caused by fractures, tumors, and infections), results in great instability of the cervical spine and upper thoracic spine. In this situation, another front of stabilisation is essential, as stabilisation with this system alone is not enough. also applied in the case of severe osteoporosis.

Vertaux Occipital System

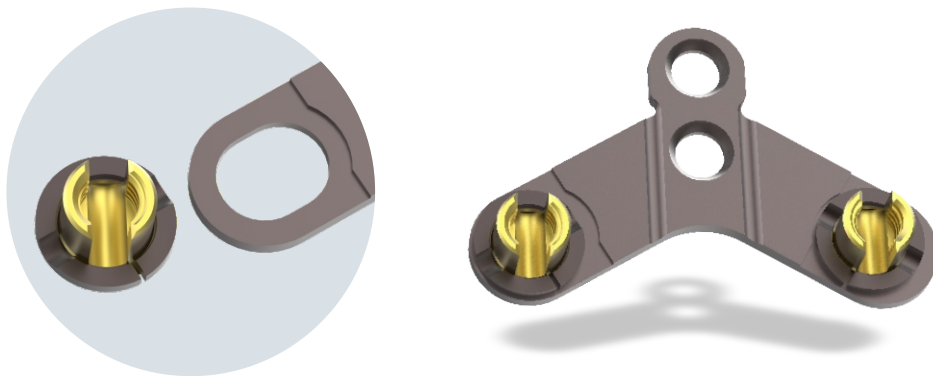
Implants and instruments designed for fixation of the occiput

The Vertaux Occipital System is intended to provide stabilisation of the occipito-cervical junction. The Vertaux Occipital System consists of a complete set of implants and instruments designed for occiput fixation and connection to the spine system.

Occipital Plate

The occipital plate is available as a medial or lateral wedge, 32mm or 37mm wide. The plate attaches to the occiput with screws.

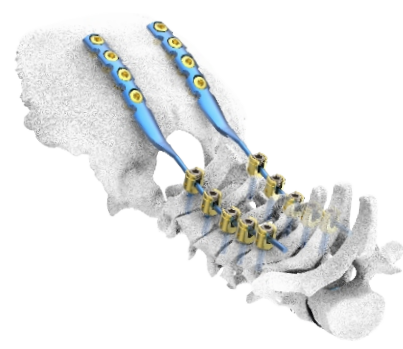
- Bead-blasted lower surface
- Variable rod attachment body to allow for rotation and lateral or medial adjustment
- 2 mm plate profile
- Grooves for bending
- Available to support either 3.2 mm straight or pre-bent rods.



Fixation possibilities for the occiput The Vertaux Occipital System offers several implant options for fixation of the occiput.



Occipital plate, medial



Occiput rods

AO Spine Principles

The four principles to be considered as the foundation for proper spine patient management underpin the design and delivery of the curriculum: stability, alignment, biology, and function.

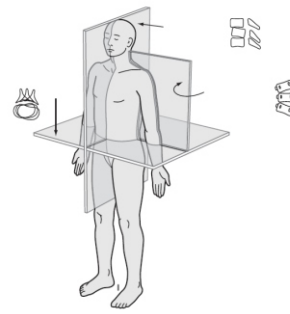
Stability

Stabilization to achieve a specific therapeutic outcome



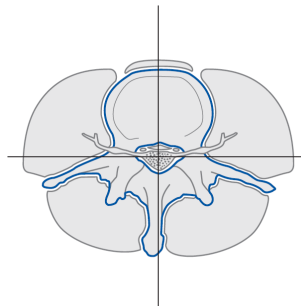
Alignment

Balancing the spine in three dimensions



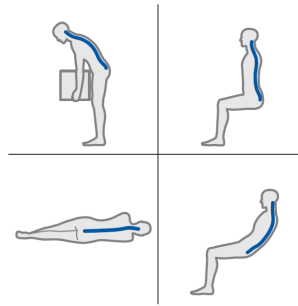
Biology

Etiology, pathogenesis, neural protection, and tissue healing



Function

Preservations and restoration of function to prevent disability

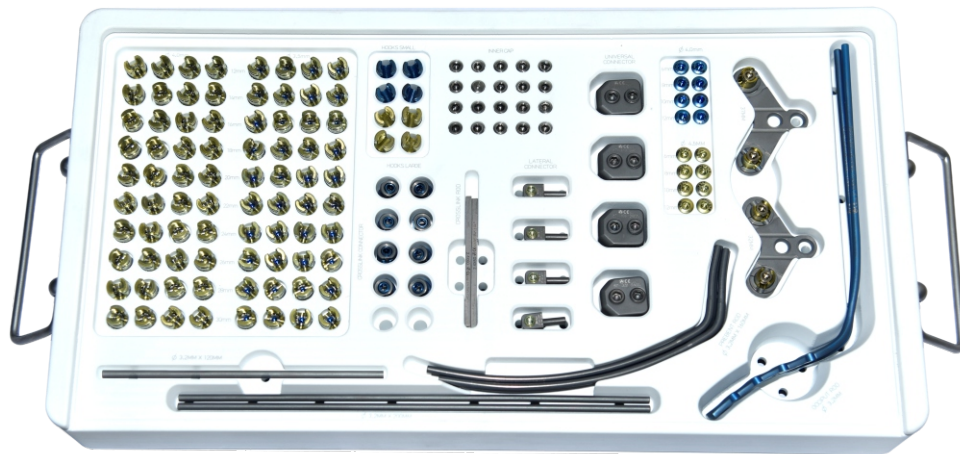


Preparation

1. Preparation

IMP-SP-OCCI VERTAUX - OCCIPITAL Implant Set
SP-1358-37 Container for Vertaux-Occipital Instrument Set

IMP-SP-OCCI VERTAUX - OCCIPITAL Implant Set



SP-1358-37 Container for Vertaux-Occipital Instrument Set



2. Preoperative planning

Implant placement and visualised patient anatomy can be planned via the necessary imaging studies.

3. Position the patient

For an accurate occipital fusion procedure, patient positioning is of the utmost importance.

The patient's head should be securely immobilized, and he or she should be placed in a prone position on the operating table. Before draping, a radiograph and direct visualisation are used to confirm the correct position.

Note: This step is necessary for physiological alignment.

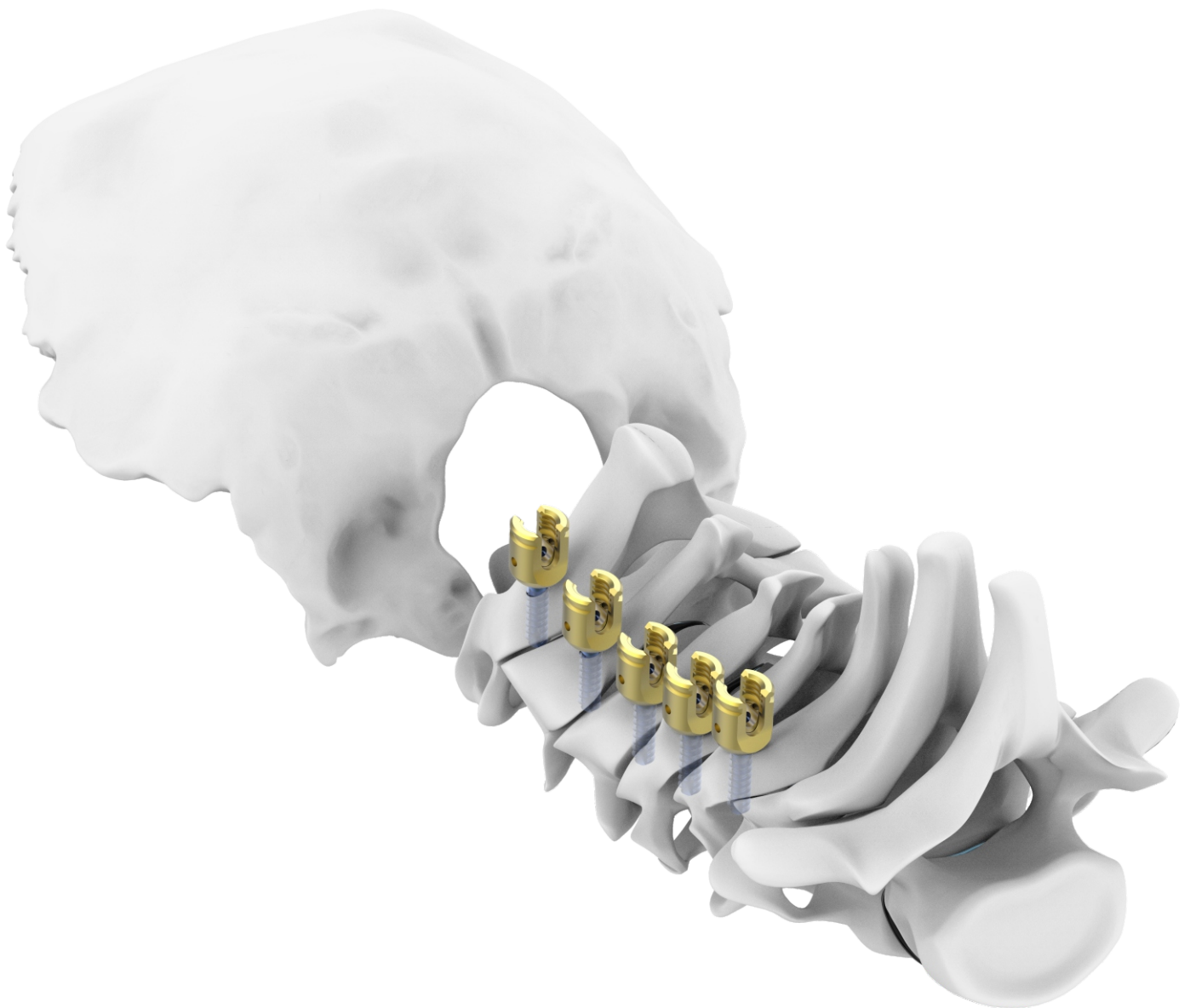
4. Approach

For the fusion process, follow the standard procedure and expose the laminae of the vertebrae. to be fused with the spinous processes and the external occipital protuberance.

1. Occipito-Cervical Fixation with Occipital Plate

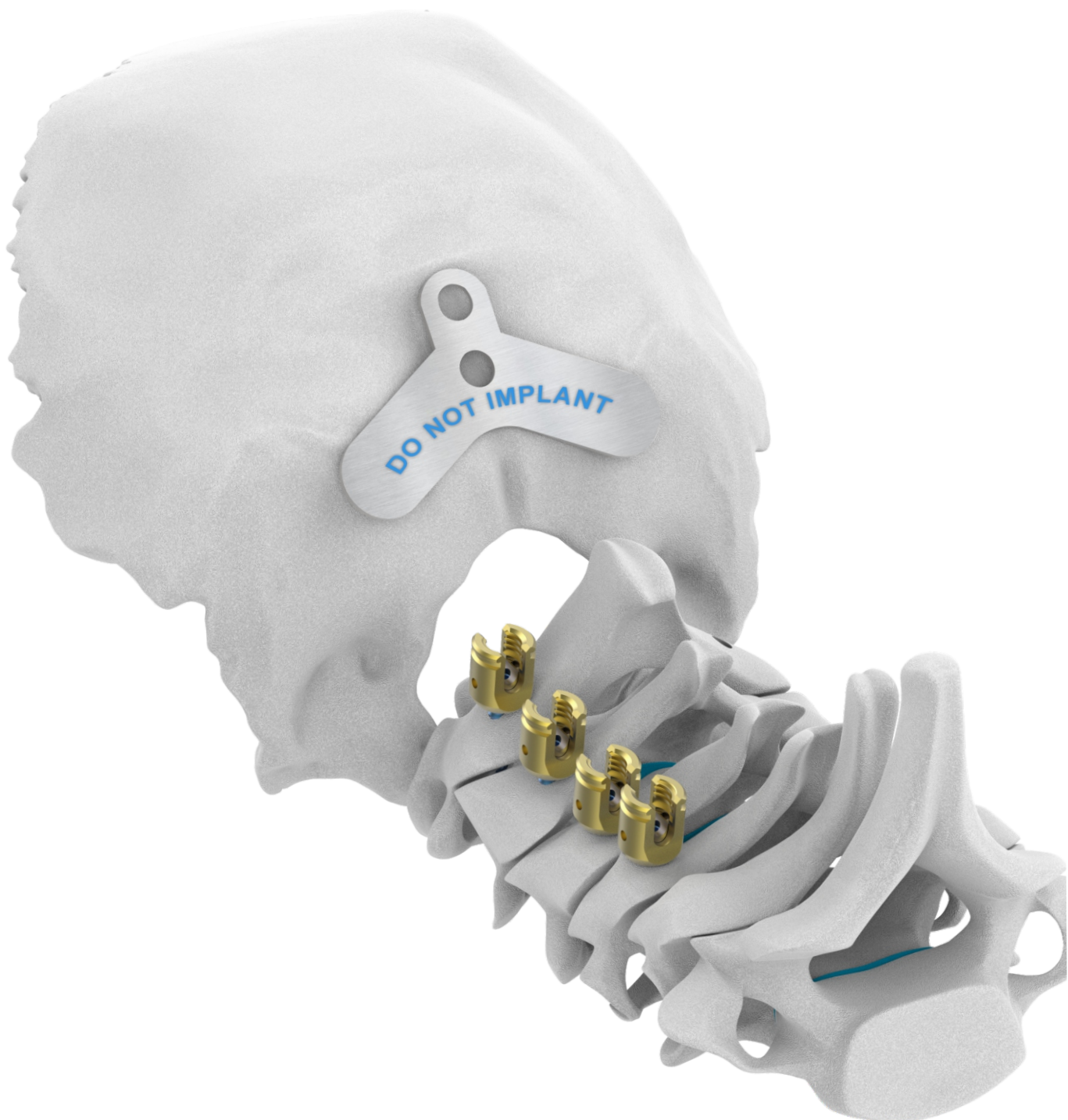
Upper thoracic spine and cervical spine fixation required Set:

VERTAUX: Occipital Polyaxial Pedicle Screw, 3.5mm with Partial Thread (**4-085-10TI**) According to the patient's pathology, insert bone screws into the upper thoracic spine and the cervical. This technique is described in Vertaux Pedicle Surgical Technique.



2. Determine shape and size of occipital plate

Determine the size and shape of the occipital plate. Select a bending template of the plate style calculated to best fit the occiput. Estimate the medial/lateral distance of the rods to determine the accurate plate size. To fit the anatomy, contour the plate template.



3. Plate placement

Use the Plate Hook Forcep **SP-1358-23** to hold and in place the Vertaux occipital plate.



4. Drill pilot hole

Mount the drill and tap the sleeve to the required depth.

Drilling must occur through the occipital plate to ensure proper drilling depth.

SP-1358-01 Occipital System Awl

SP-1358-23 Plate Hook Forcep

SP-1358-32 Double Drill Guide, 10/12mm

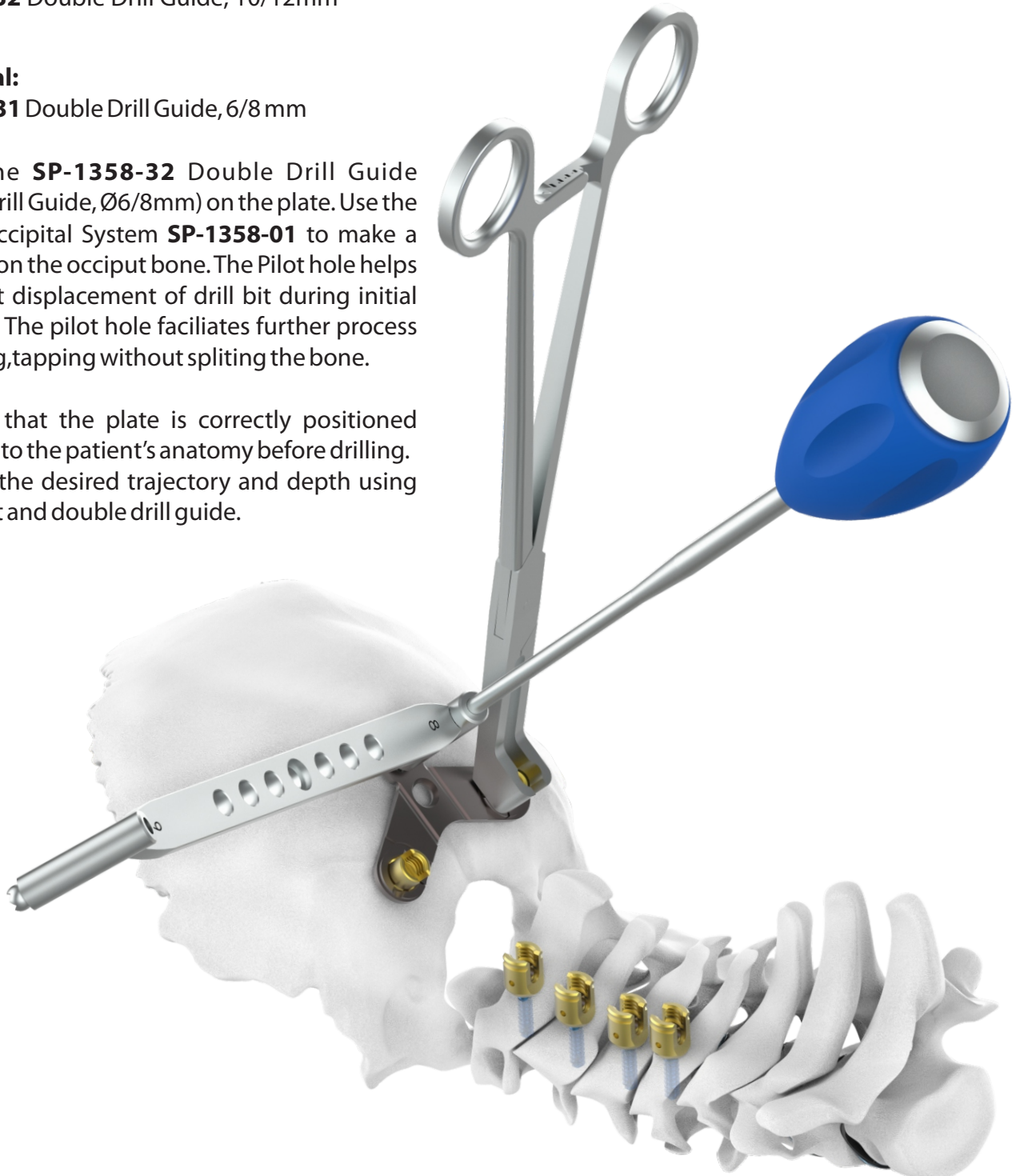
Additional:

SP-1358-31 Double Drill Guide, 6/8 mm

Mount the **SP-1358-32** Double Drill Guide (Double Drill Guide, Ø6/8mm) on the plate. Use the Awl for Occipital System **SP-1358-01** to make a pilot hole on the occiput bone. The Pilot hole helps to prevent displacement of drill bit during initial insertion. The pilot hole facilitates further process like drilling, tapping without splitting the bone.

Warning:

1. Ensure that the plate is correctly positioned according to the patient's anatomy before drilling.
2. Drill to the desired trajectory and depth using the drill bit and double drill guide.



5. Drilling

For occipital fixation, 4.0mm (6,8,10 and 12mm lengths) and 4.5mm (6,8,10 and 12mm lengths) diameter Occipital Bone Screws are available. Select the appropriate drill bit and tap that match the desired screw diameter for occipital fixation.

Select and Couple the desirable drill bit into the quick coupling handle. Mount the drill guide into the plate and facilitate the drill bit into the pilot hole. Drill to desired depth & plate trajectory using drill guide

Instruments:

- SP-1358-28** Quick Coupling Handle, Straight, for Occipital System
- SP-1358-03** Drill Bit, Ø2.4mm x Length 12mm
- SP-1358-04** Drill Bit, Ø2.4mm x Length 14mm
- SP-1358-05** Drill Bit, Ø2.4mm x Length 16mm
- SP-1358-02** Drill Guide for 2.4mm Drill Bit

Additional Instrument:

- SP-1358-06** 2.4mm Adjustable Drill Bit

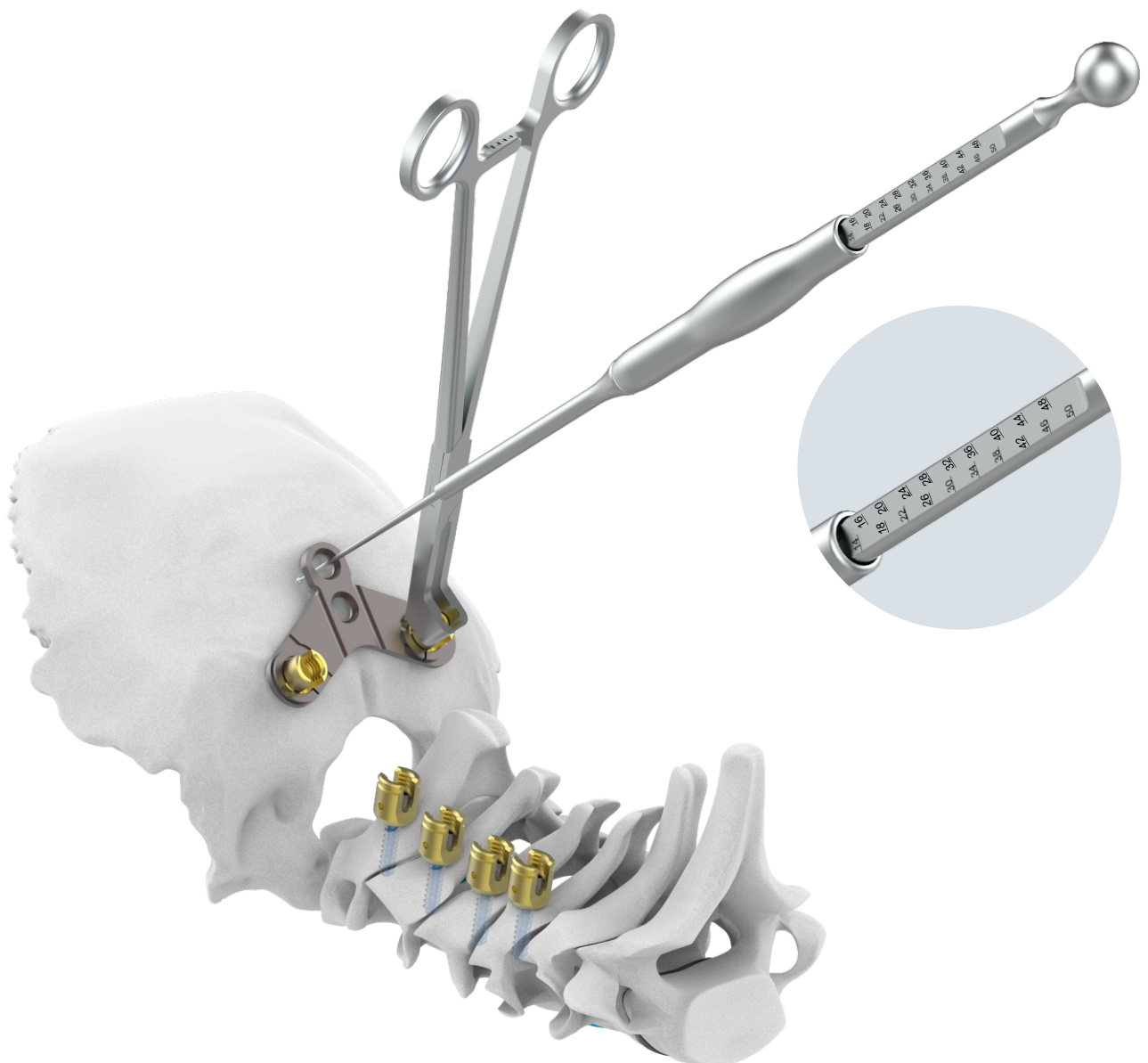


6. Determine screw size

To confirm the hole depth, use the depth gauge and select the corresponding screw length. Place the depth gauge directly on the bone.

Note: The working length is indicated by the depth gauge. For example, if the measurement is 10 mm on the gauge, select a 10 mm screw. The length indicated on the gauge includes the depth of the bone and the thickness of the plate.

SP-1358-10 Depth Gauge measuring upto 50mm for Occipital System



Warning: Use caution when determining the screw length and do not insert the depth gauge beyond the bone edge.

7. Tap

A tap, drill, and tapping sleeve are required for tapping at the desired depth.

Warning:

A tap must be conducted through the occipital plate to secure the right tapping depth.

Precaution:

Tapping should be conducted for all occipital screws.

Mount the tap into the quick coupling handle & initiate tapping in the drilled hole. the desirable tapping depth can be controlled using double drill guide.

Instruments:

SP-1358-09 3.5mm Cortical Tap

SP-1358-28 Quick Coupling Handle, Straight, for Occipital System

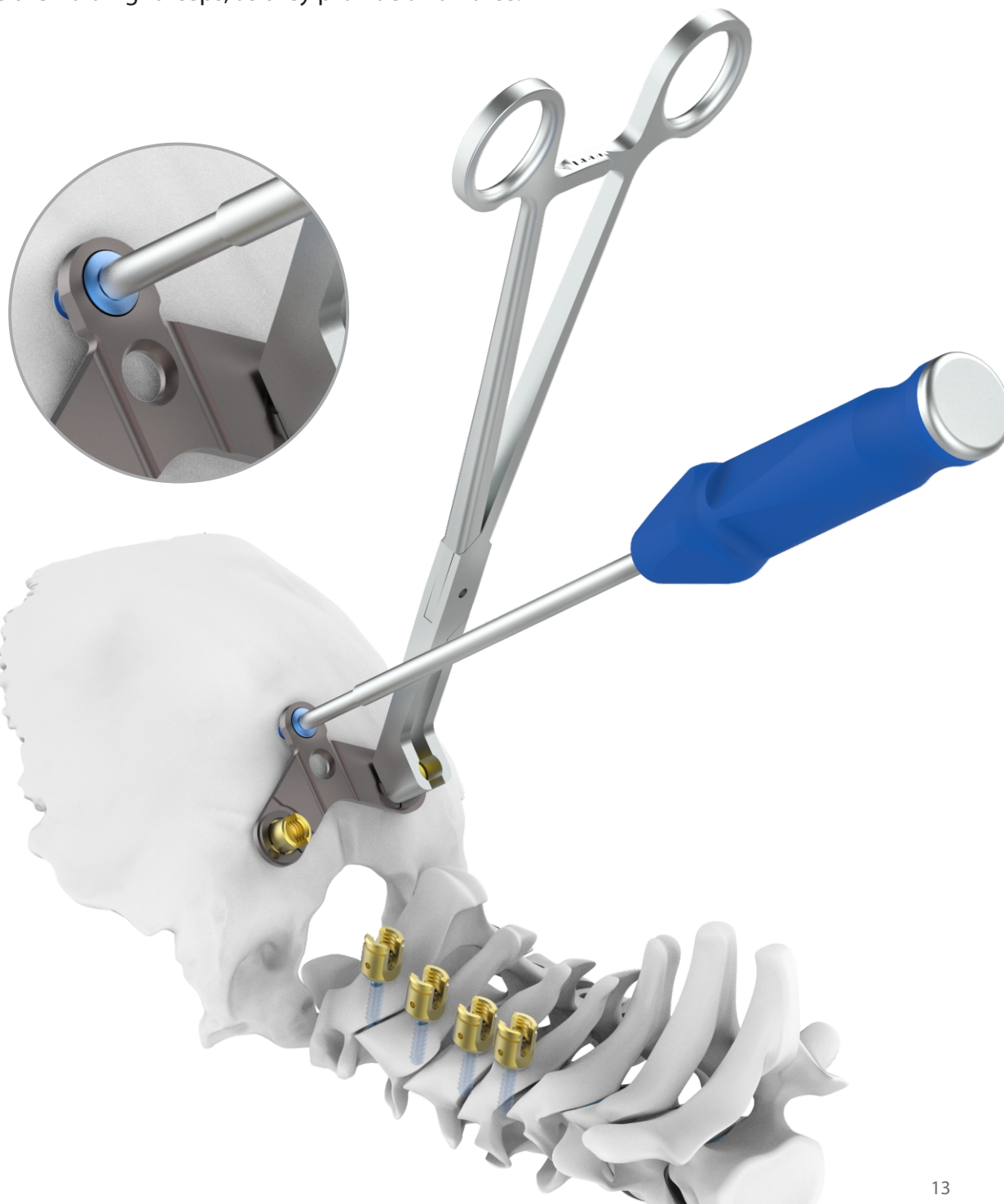


8. Insert Screw

Take the selected 4.0 mm occipital screw from the screw rack and load it. Insert the screw and tighten it temporarily.

Note: Use 4.5 mm occipital screw if the primary screw is not the right fit.

Use the **SP-1358-20** Screwdriver, Hex 3.0mm, for Occipital System used to insert the selected screw. For stability, use the holding forceps, as they provide axial force.



Optional

Take the selected 4.0 mm occipital screw from the screw rack and load it. Insert the screw and tighten it temporarily.

Note: Use a 4.5. mm occipital screw if the primary screw is not the right fit.

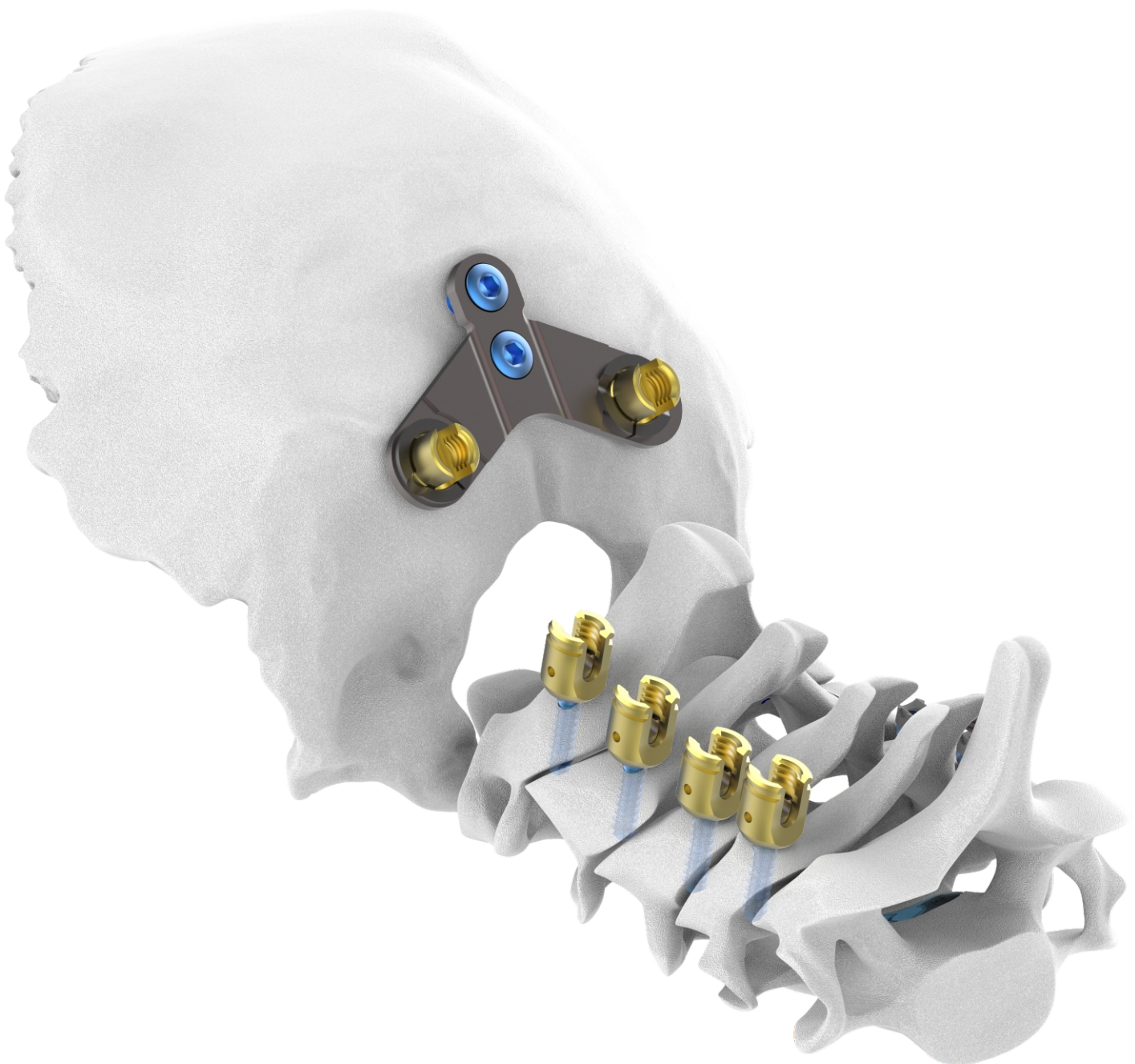
As a substitute, a **SP-1358-35** Flexible Screwdriver, Hex 3.0mm, for Occipital System may be used to insert the selected screw.

For stability, use the holding forceps, as they provide axial force.



9. Insert remaining screws

Repeat steps 4 through 7 in identical order to fix the second occipital screw.



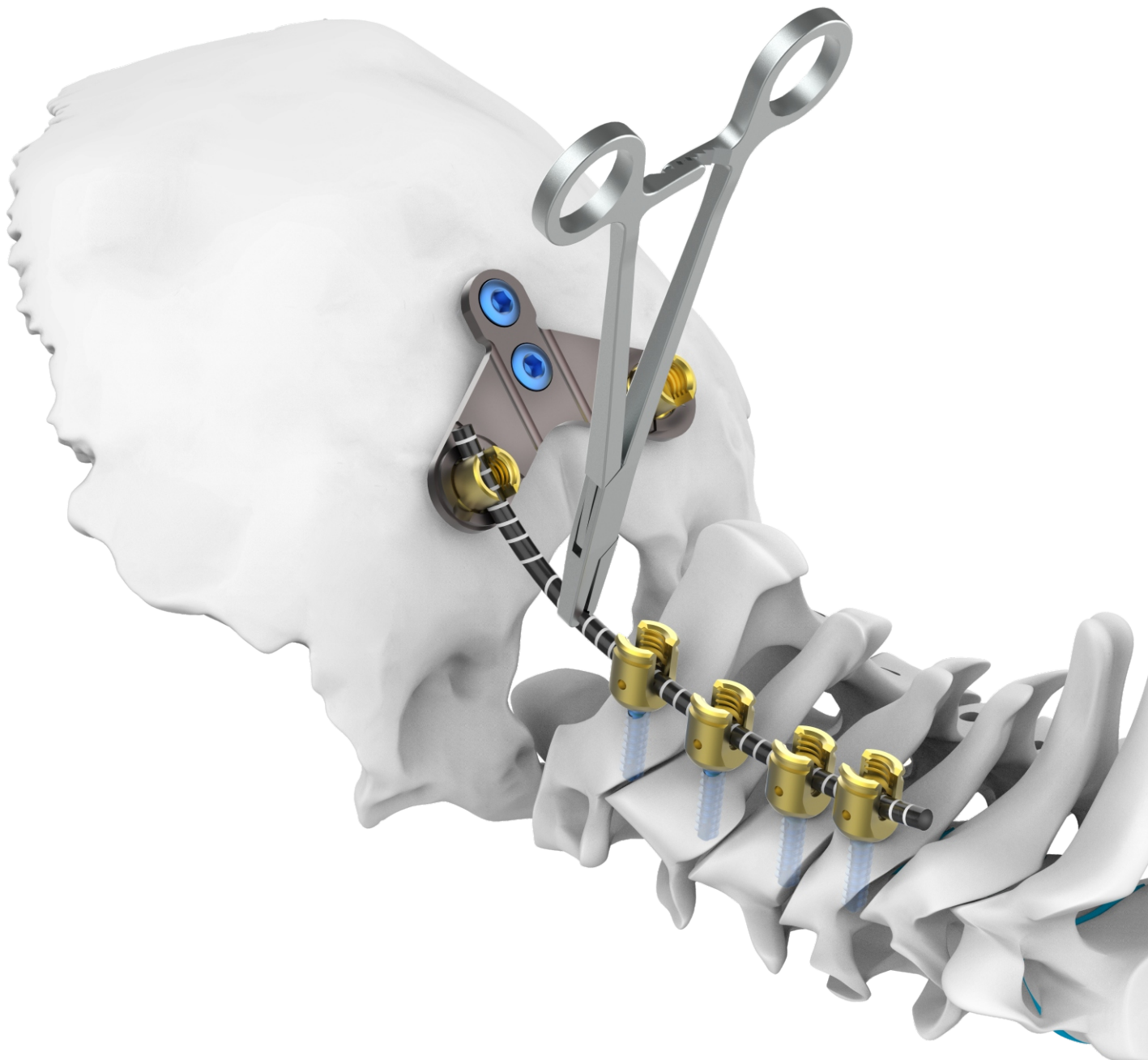
10. Contour trial rod

Contour the trial rod to fit the anatomy and fully seat the bone screws. Execute the occipital-cervical bend and confirm adequate rod length to join with the occipital plate.

While using the device for occipital angles, move the template into the saddle of the occipital plate and pivot the opposite arm until it matches the anatomy as required. To read the required angle indicated, completely remove the template.

SP-1358-18 3.0mm Rod Holding Forcep

SP-1358-12 3.0mm Template



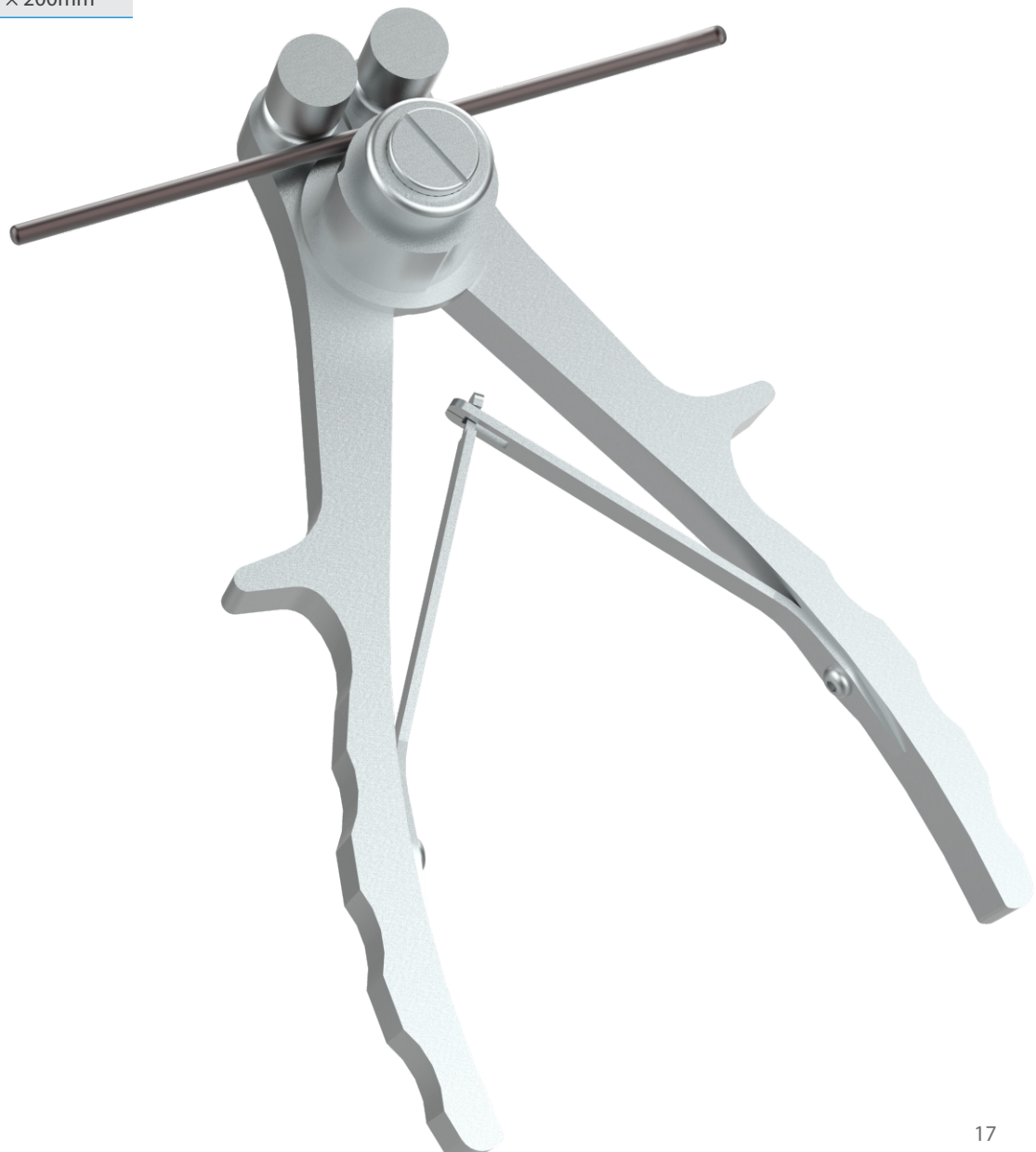
11. Bend and cut rod

Use the Rod Bender Forcep to contour the rod to match the curve of the trial rod. The Vertaux Occipital Straight Rod Ø3.2mm rod can be bent using the bending pliers. Chop the rod with the cutting pliers if needed to get the appropriate length. Bending the rod repeatedly and in reverse can weaken it.

SP-1358-15 Rod Bender Forcep

VERTAUX - Occipital Straight Rod, Ø3.2mm

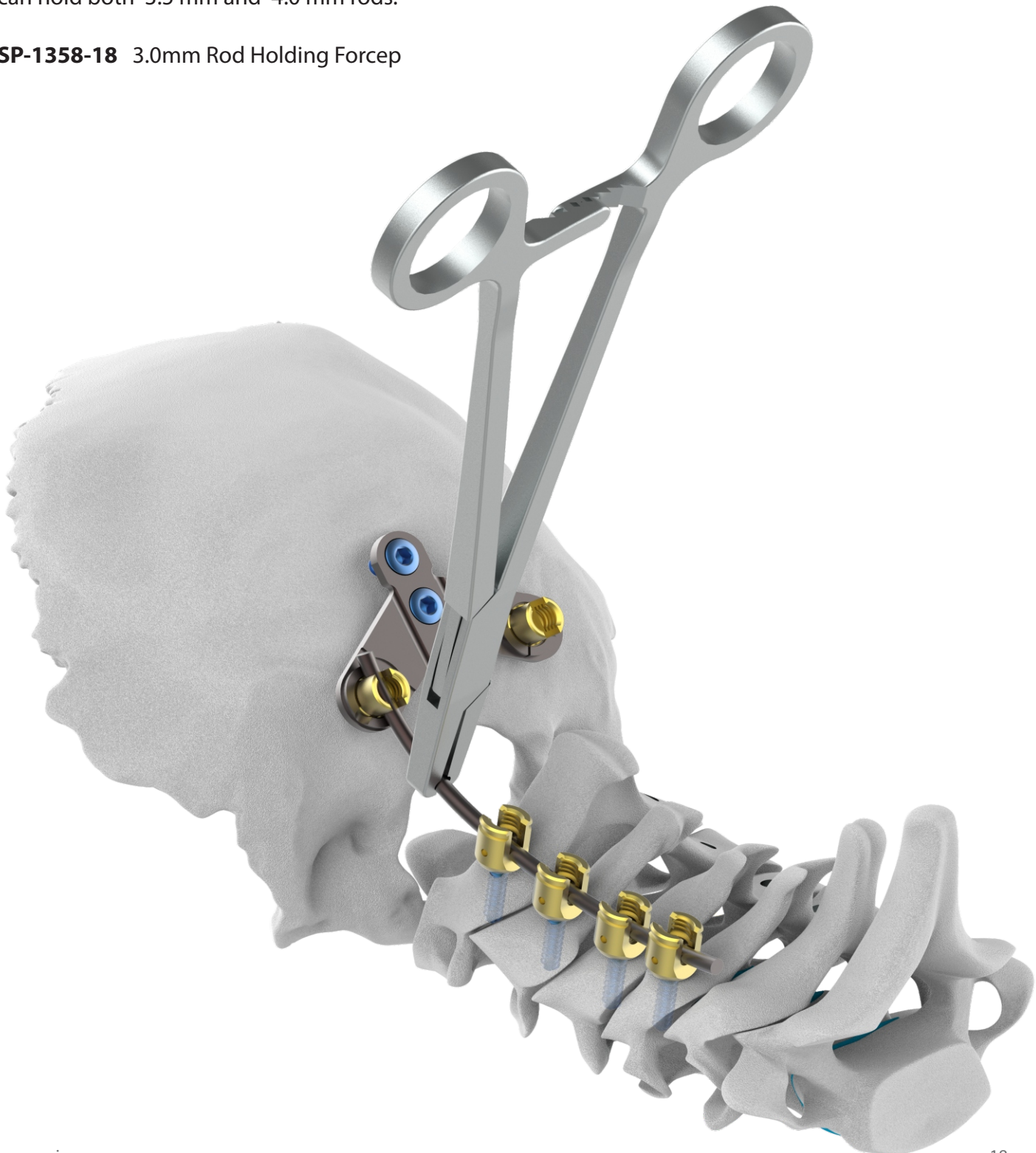
Code	Dia X Length
SP-1342	Ø3.2 × 70mm
SP-1343	Ø3.2 × 120mm
SP-1344	Ø3.2 × 200mm



12. Rod attachment

Rod placement and locking screw insertion can be facilitated using the positioning instrument. Place the rod into the rod attachment body. Make sure that the rod extends slightly past the end of the plate. Make sure to tighten up the locking screw using a power tool or manual equipment. The forceps can hold both 3.5 mm and 4.0 mm rods.

SP-1358-18 3.0mm Rod Holding Forcep



13. Rod fixation

Secure the inner cap screw into the screw driver and Loosely fasten the locking screws. When inserting the locking screws, they may be turned one quarter to one-half turn counterclockwise to seat the thread before tightening

SP-1358-36 Screwdriver, Hex 2.0mm, for Occipital System



Rod fixation

Use the rod pusher to introduce the rod into the variable axis head of VERTAUX - Occipital Polyaxial Pedicle Screw. Place the **SP-1358-21** Counter Torque Rod Pusher over the rod and onto the variable axis head until the tip of the instrument sits below the screw head reduction feature.

Place the reduction forcep for occipital system on to the head of the screw. Make sure that the tip of the reduction forcep fits nicely onto the slot on the screw body beneath screw head top. Fit the inner screw into the elastic screw and introduce this rod into the reduction forcep.

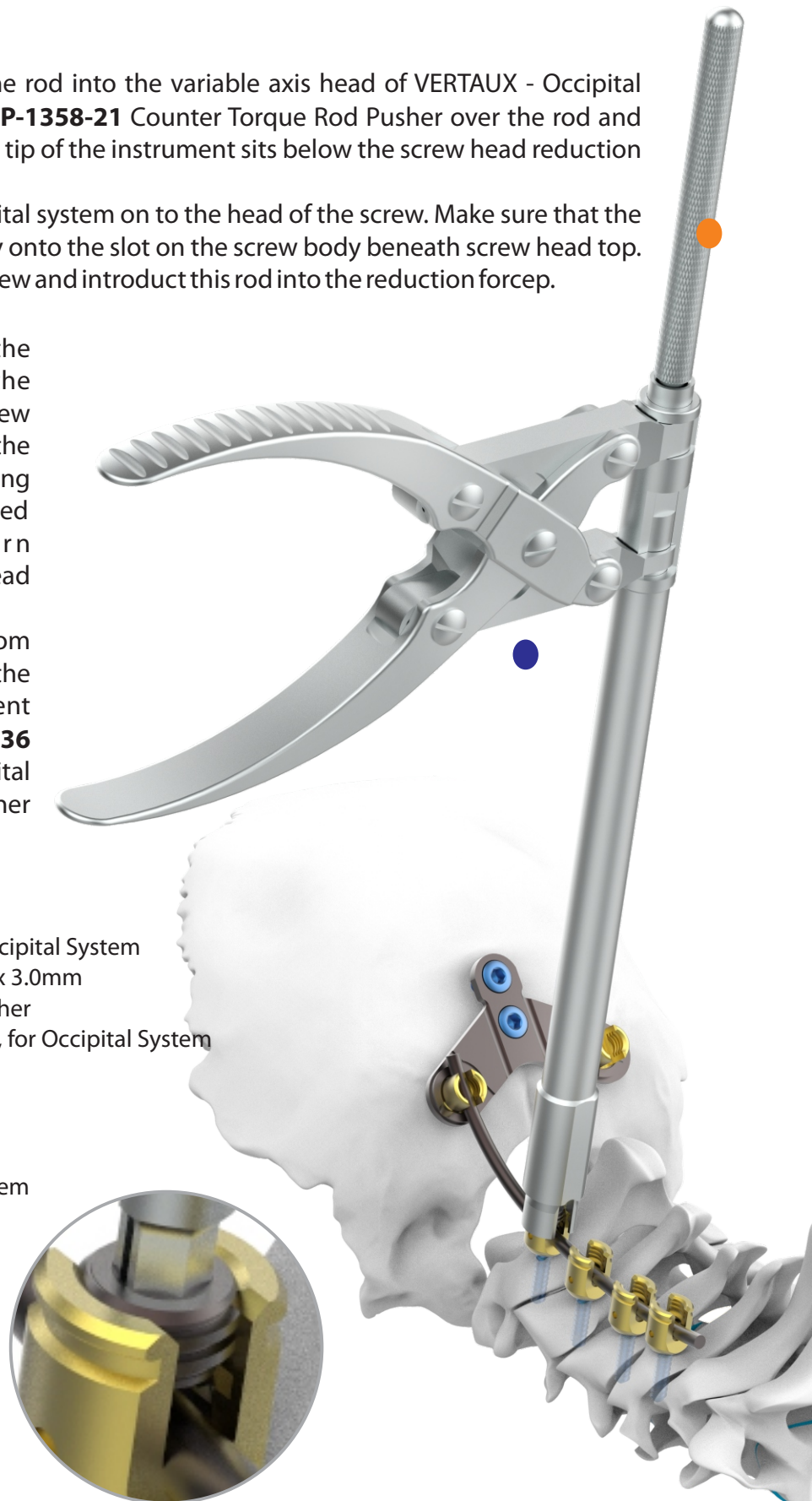
Squeeze the handle to engage the instrument and Loosely fasten the locking screws using the elastic screw holder through the cannulation of the reduction instrument. When inserting the locking screws, they may be turned one-quarter to one-half turn counterclockwise to seat the thread before tightening.

Remove the elastic screw driver from the reduction forcep. De-squeeze the handle and remove the instrument from screw driver. Use the **SP-1358-36** Screwdriver, Hex 2.0mm, for Occipital System for final tightening of the inner screw.

Instruments:

- SP-1358-26** Reduction Forcep for Occipital System
- SP-1358-19** Elastic Screw Holder, Hex 3.0mm
- SP-1358-21** Counter Torque Rod Pusher
- SP-1358-36** Screwdriver, Hex 2.0mm, for Occipital System

- Elastic Screw Holder, Hex 3.0mm
- Reduction Forcep for Occipital System



14. Locking Inner Cap of Pedicle Screw

Use the SP-1358-36 Screwdriver, Hex 2.0mm, for Occipital System for final tightening of the inner screw



15. Final tightening

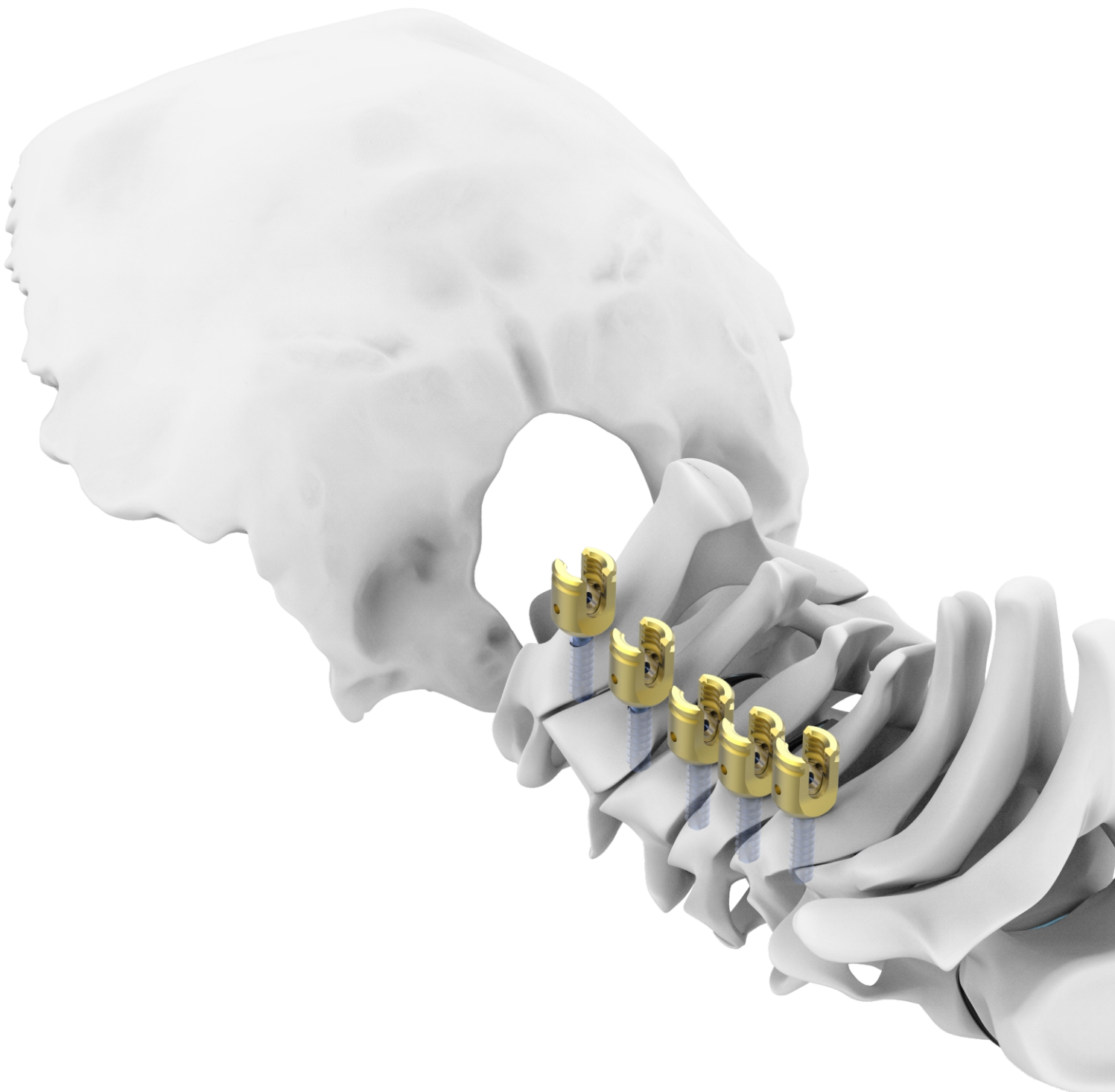
Tighten all occipital and locking screws completely with a power tool or manual tool with a handle and quick coupling. To provide counter-torque for tightening the locking screws, the positioning instrument may be used. Alternatively, the screwdriver shaft with cardan joint may be used for the final tightening of the occipital and locking screws. To provide stability and axial force, use the holding forceps. Use positioning equipment to provide counter-torque for tightening up the locking screws.



Occipito-Cervical Fixation with Occipital Pre Bent Rod

1. Fixation to the cervical and upper thoracic spine

Insert bone screws and/or hooks into the cervical and upper thoracic spine as required by the patient's pathology.



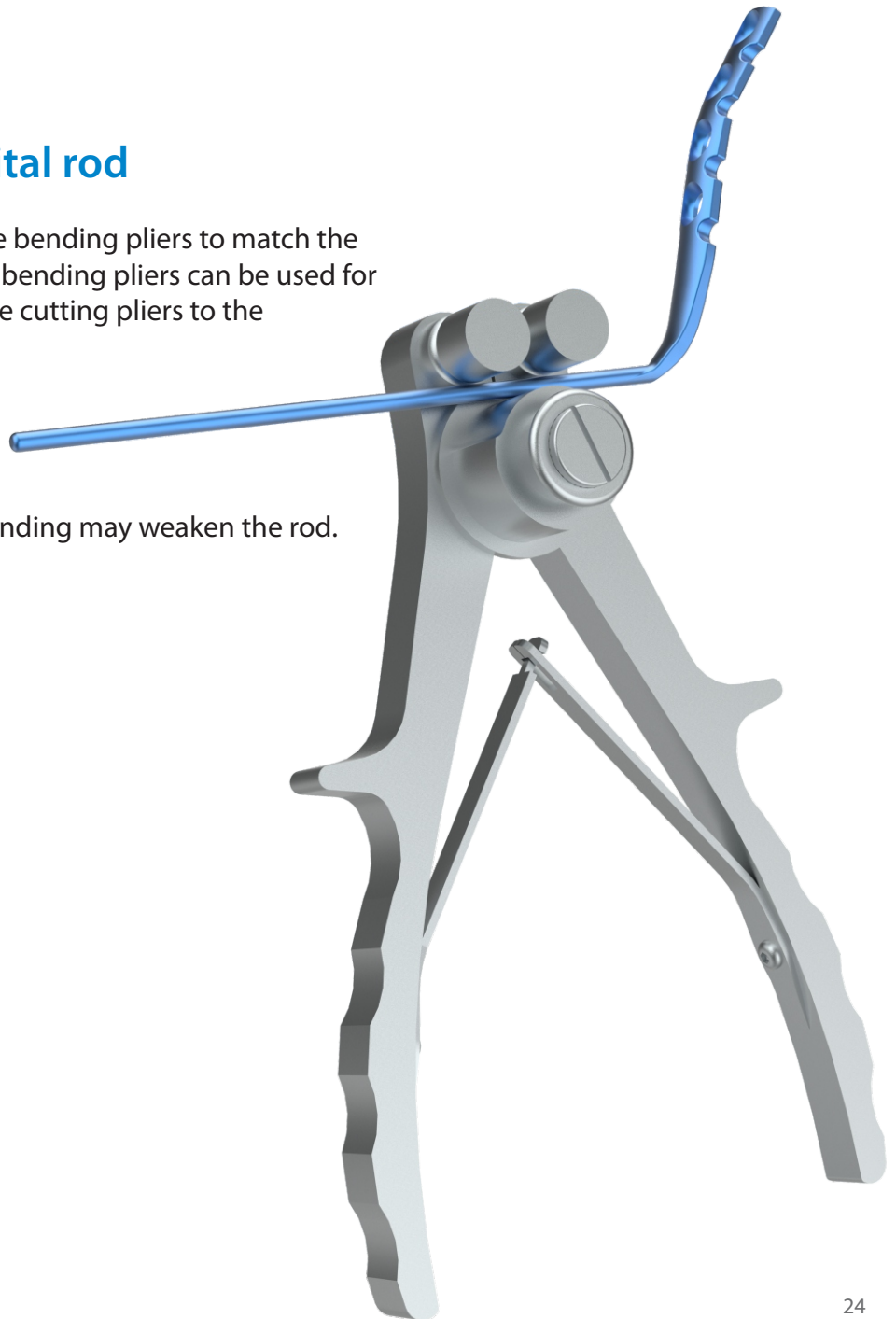
3. Bend and cut rod

Contour the rod using the bending pliers to match the curve of the trial rod.
The bending pliers can be used for both 3.2 mm rod.
Cut the rod with the cutting pliers to the appropriate length.
Warning: Repeated or reverse bending may weaken the rod.

3. Bend and cut occipital rod

Contour the occiput rod using the bending pliers to match the curve of the occiput trial rod. The bending pliers can be used for both 3.2 mm. Cut the rod with the cutting pliers to the appropriate length.

Warning: Repeated or reverse bending may weaken the rod.



4. Drill pilot hole/Awl

Mount the drill and tap the sleeve to the required depth.

Drilling must occur through the occipital plate to ensure proper drilling depth.

SP-1358-01 Occipital System Awl

SP-1358-23 Plate Hook Forcep

SP-1358-32 Double Drill Guide, 10/12mm

Additional:

SP-1358-31 Double Drill Guide, 6/8 mm

Mount the **SP-1358-32** Double Drill Guide (Double Drill Guide, Ø6/8mm) on the plate. Use the Awl for Occipital System **SP-1358-01** to make a pilot hole on the occiput bone. The Pilot hole helps to prevent displacement of drill bit during initial insertion. The pilot hole facilitates further process like drilling, tapping without splitting the bone.

Warning:

1. Ensure that the plate is correctly positioned according to the patient's anatomy before drilling.
2. Drill to the desired trajectory and depth using the drill bit and double drill guide.



4. Drilling

For occipital fixation, 4.0mm (6,8,10 and 12mm lengths) and 4.5mm (6,8,10 and 12mm lengths) diameter Occipital Bone Screws are available. Select the appropriate drill bit and tap that match the desired screw diameter for occipital fixation.

Select and Couple the desirable drill bit into the quick coupling handle. Mount the drill guide into the plate and facilitate the drill bit into the pilot hole. Drill to desired depth & plate trajectory using drill guide

Instruments:

SP-1358-28 Quick Coupling Handle, Straight, for Occipital System

SP-1358-29 3.0mm Drill Bit

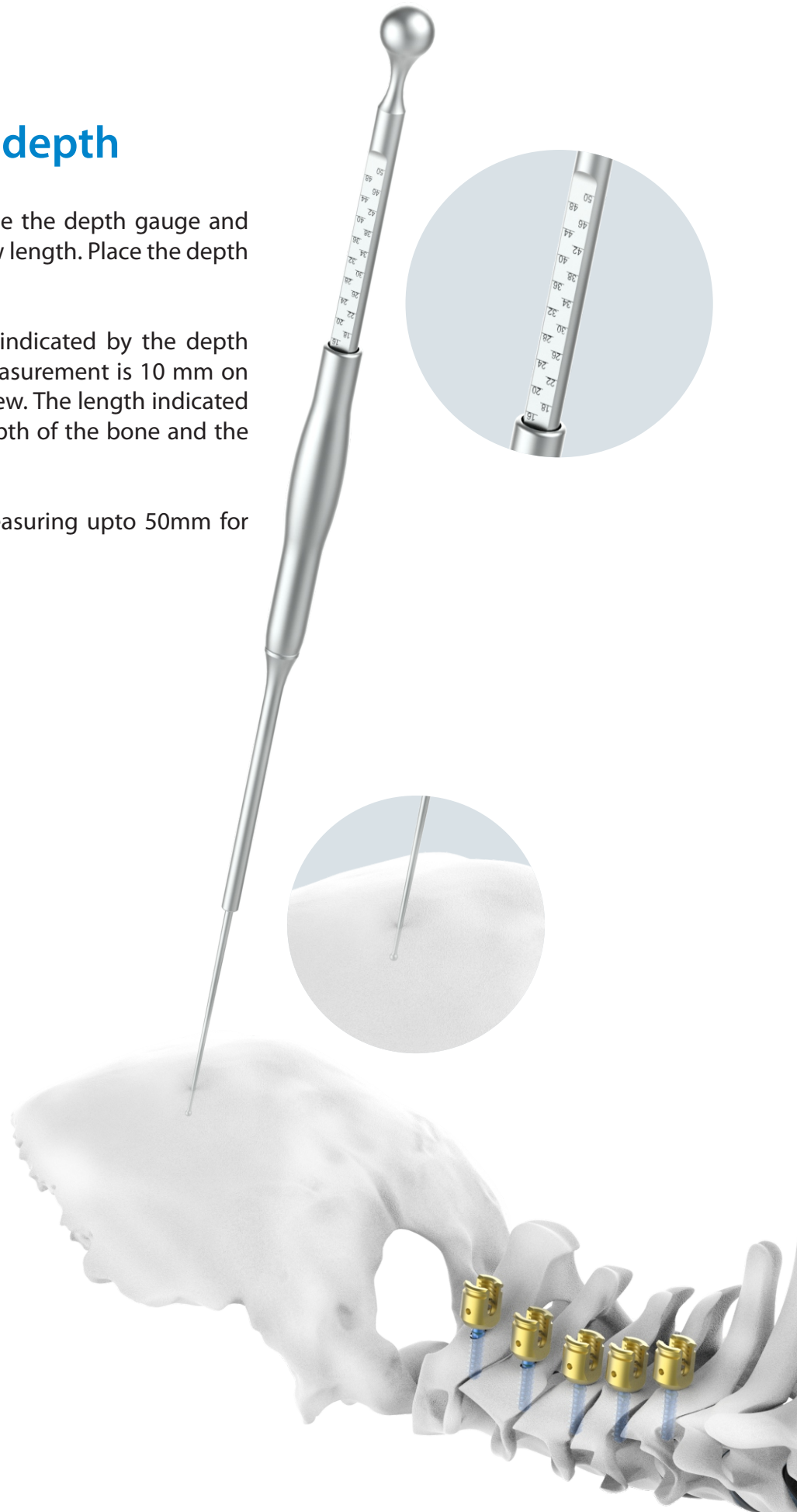


5. Measure hole depth

To confirm the hole depth, use the depth gauge and select the corresponding screw length. Place the depth gauge directly on the bone.

Note: The working length is indicated by the depth gauge. For example, if the measurement is 10 mm on the gauge, select a 10 mm screw. The length indicated on the gauge includes the depth of the bone and the thickness of the plate.

SP-1358-10 Depth Gauge measuring upto 50mm for Occipital System



7. Tap

A tap, drill, and tapping sleeve are required for tapping at the desired depth.

Warning:

A tap must be conducted through the occipital plate to secure the right tapping depth.

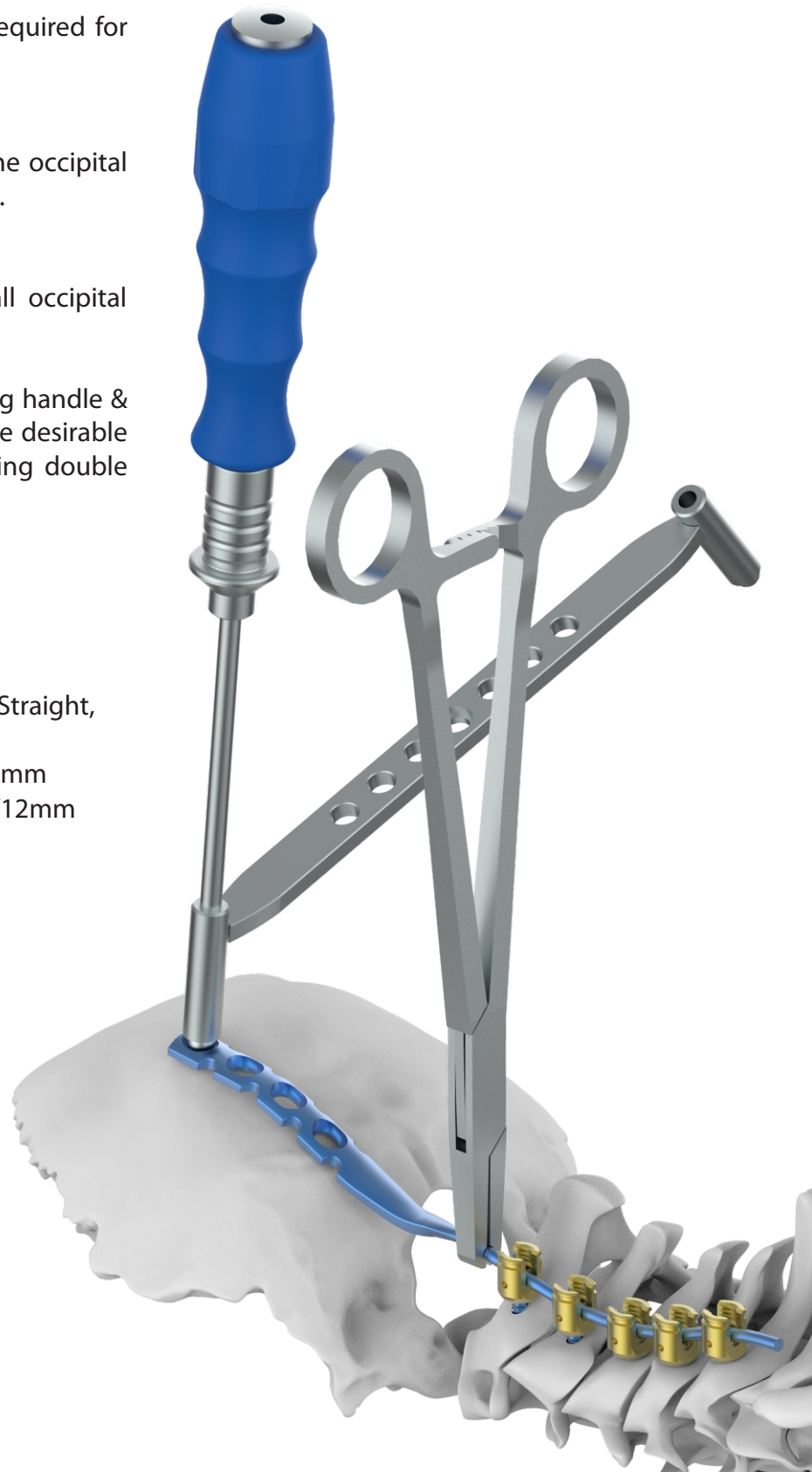
Precaution:

Tapping should be conducted for all occipital screws.

Mount the tap into the quick coupling handle & initiate tapping in the drilled hole. the desirable tapping depth can be controlled using double drill guide.

Instruments:

- SP-1358-30** Tap, Ø4.0mm
- SP-1358-28** Quick Coupling Handle, Straight, for Occipital System
- SP-1358-31** Double Drill Guide, Ø6/8mm
- SP-1358-32** Double Drill Guide, Ø10/12mm



7. Insert screw

Load the selected 4.5 mm occipital screw from the screw rack. Insert the screw and tighten it provisionally.

SP-1358-20 Screwdriver, Hex 3.0mm, for Occipital System



Optional

Load the selected 4.5 mm occipital screw from the screw rack. Insert the screw and tighten it provisionally.

SP-1358-35 Flexible Screwdriver, Hex 3.0mm, for Occipital System



Inserting the inner screw

Use the rod pusher to introduce the rod into the variable axis head of VERTAUX - Occipital Polyaxial Pedicle Screw. Place the **SP-1358-21** Counter Torque Rod Pusher over the rod and onto the variable axis head until the tip of the instrument sits below the screw head reduction feature.

Place the reduction forcep for occipital system on to the head of the screw. Make sure that the tip of the reduction forcep fits nicely onto the slot on the screw body beneath screw head top. Fit the inner screw into the elastic screw and introduce this rod into the reduction forcep.

Squeeze the handle to engage the instrument and Loosely fasten the locking screws using the elastic screw holder through the cannulation of the reduction instrument. When inserting the locking screws, they may be turned one-quarter to one-half turn counterclockwise to seat the thread before tightening.

Remove the elastic screw driver from the reduction forcep. De-squeeze the handle and remove the instrument from screw driver. Use the **SP-1358-36** Screwdriver, Hex 2.0mm, for Occipital System for final tightening of the inner screw.

Instruments:

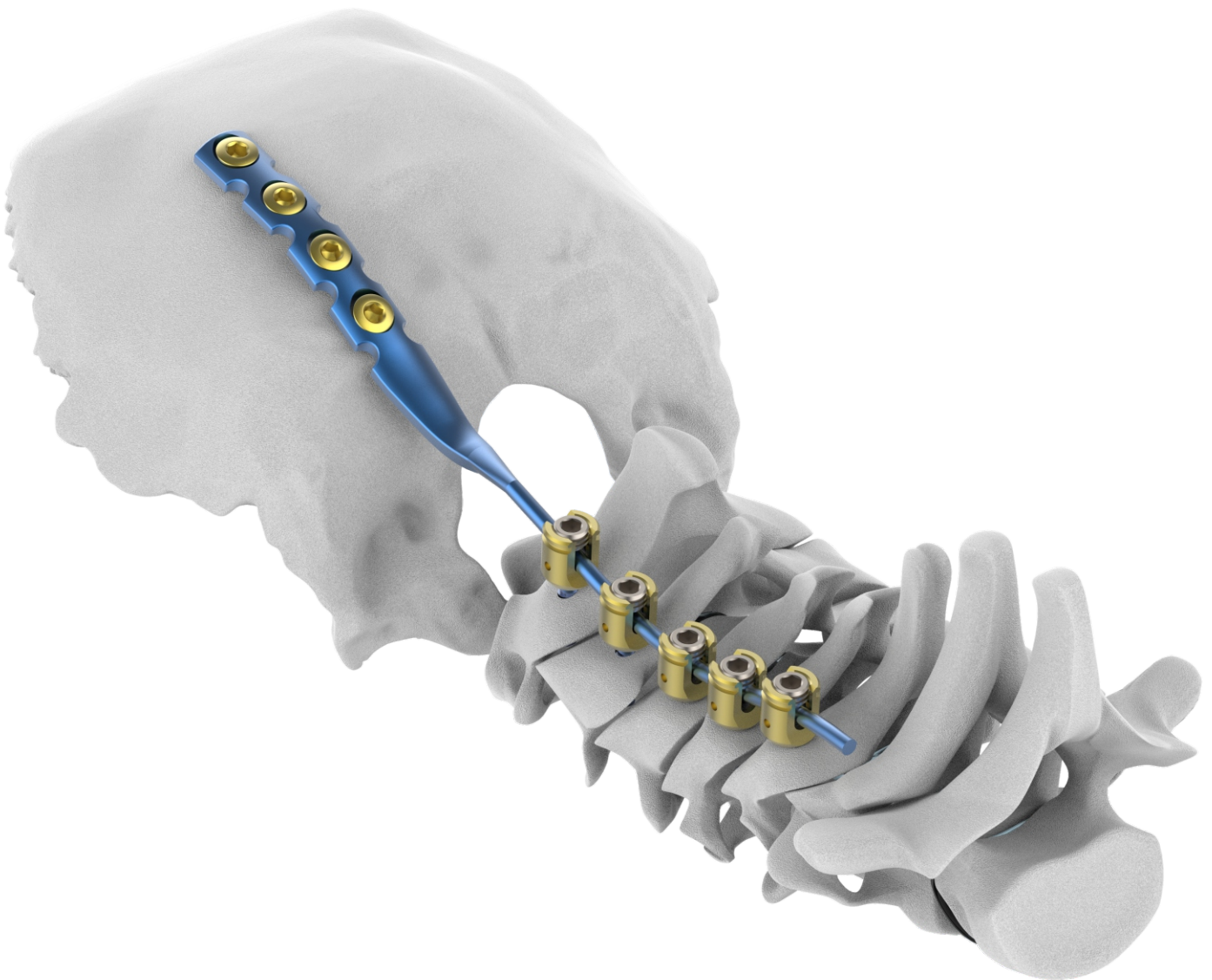
- SP-1358-26** Reduction Forcep for Occipital System
- SP-1358-19** Elastic Screw Holder, Hex 3.0mm
- SP-1358-21** Counter Torque Rod Pusher
- SP-1358-36** Screwdriver, Hex 2.0mm, for Occipital System

- Elastic Screw Holder, Hex 3.0mm
- Reduction Forcep for Occipital System



8. Insert remaining screws

Repeat steps 4–7 to insert the remaining screws.

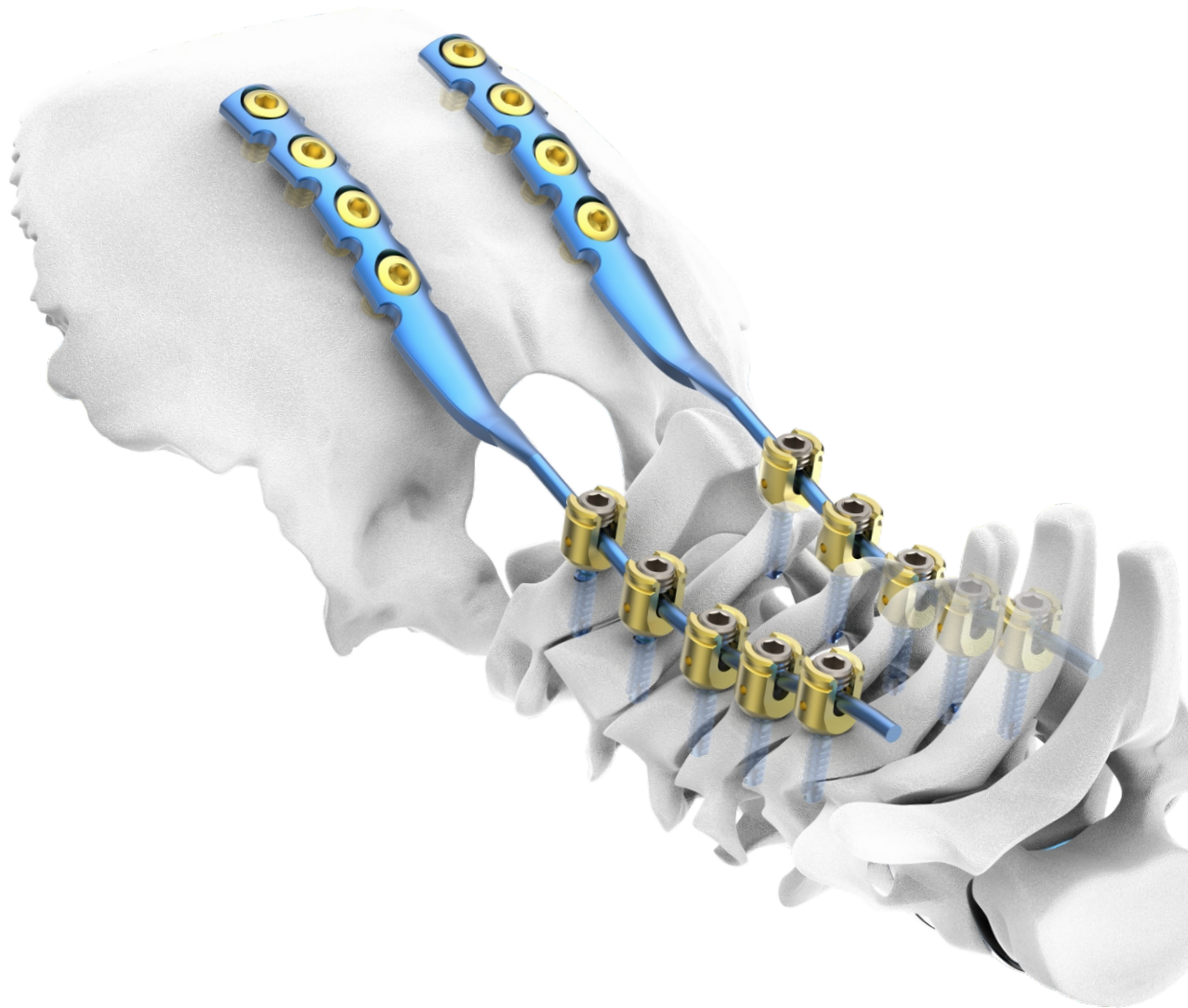


9. Insert second occiput rod and corresponding screws

Repeat steps 2–8 to insert the second occiput rod and corresponding screws.

10. Final tightening

Firmly tighten all occipital screws using the screwdriver shaft with the handle connected by a quick coupling.



For final tightening of the occipital screws, use the screwdriver shaft with cardan joint. Use the holding forceps to provide axial force and stability.

VERTAUX

OCCIPITAL SYSTEM

VERTAUX - Occipital Polyaxial Pedicle Screw, Ø3.5mm

Code	Dia X Length
SP-1317	Ø3.5mm x 10mm
SP-1319	Ø3.5mm x 12mm
SP-1320	Ø3.5mm x 14mm
SP-1321	Ø3.5mm x 16mm
SP-1322	Ø3.5mm x 18mm
SP-1323	Ø3.5mm x 20mm
SP-1324	Ø3.5mm x 22mm
SP-1325	Ø3.5mm x 24mm
SP-1326	Ø3.5mm x 26mm
SP-1327	Ø3.5mm x 28mm
SP-1328	Ø3.5mm x 30mm
SP-1610	Ø3.5mm x 32mm
SP-1619	Ø3.5mm x 34mm
SP-1611	Ø3.5mm x 36mm
SP-1612	Ø3.5mm x 38mm
SP-1613	Ø3.5mm x 40mm



Self-Tapping

VERTAUX - Occipital Polyaxial Pedicle Screw, Ø4.0mm

Code	Dia X Length
SP-1388	Ø4.0mm x 10mm
SP-1329	Ø4.0mm x 12mm
SP-1330	Ø4.0mm x 14mm
SP-1331	Ø4.0mm x 16mm
SP-1332	Ø4.0mm x 18mm
SP-1333	Ø4.0mm x 20mm
SP-1334	Ø4.0mm x 22mm
SP-1335	Ø4.0mm x 24mm
SP-1336	Ø4.0mm x 26mm
SP-1337	Ø4.0mm x 28mm
SP-1338	Ø4.0mm x 30mm
SP-1614	Ø4.0mm x 32mm
SP-1618	Ø4.0mm x 34mm
SP-1615	Ø4.0mm x 36mm
SP-1616	Ø4.0mm x 38mm
SP-1617	Ø4.0mm x 40mm



Self-Tapping

VERTAUX - Occipital Polyaxial Pedicle Screw, Partial Thread, Ø3.5mm

Code	Dia X Length	Partial Thread Length
4-085-10TI	Ø3.5mm x 10mm	5mm
4-085-12TI	Ø3.5mm x 12mm	5mm
4-085-14TI	Ø3.5mm x 14mm	5mm
4-085-16TI	Ø3.5mm x 16mm	6mm
4-085-18TI	Ø3.5mm x 18mm	7mm
4-085-20TI	Ø3.5mm x 20mm	8mm
4-085-22TI	Ø3.5mm x 22mm	9mm
4-085-24TI	Ø3.5mm x 24mm	10mm
4-085-26TI	Ø3.5mm x 26mm	12mm
4-085-28TI	Ø3.5mm x 28mm	14mm
4-085-30TI	Ø3.5mm x 30mm	14mm
4-085-32TI	Ø3.5mm x 32mm	14mm
4-085-34TI	Ø3.5mm x 34mm	14mm
4-085-36TI	Ø3.5mm x 36mm	14mm
4-085-38TI	Ø3.5mm x 38mm	14mm
4-085-40TI	Ø3.5mm x 40mm	14mm



Self-Tapping

VERTAUX - Occipital Polyaxial Pedicle Screw, Partial Thread, Ø4.0mm

Code	Dia X Length	Partial Thread Length
4-086-10TI	Ø4.0mm x 10mm	5mm
4-086-12TI	Ø4.0mm x 12mm	5mm
4-086-14TI	Ø4.0mm x 14mm	5mm
4-086-16TI	Ø4.0mm x 16mm	6mm
4-086-18TI	Ø4.0mm x 18mm	7mm
4-086-20TI	Ø4.0mm x 20mm	8mm
4-086-22TI	Ø4.0mm x 22mm	9mm
4-086-24TI	Ø4.0mm x 24mm	10mm
4-086-26TI	Ø4.0mm x 26mm	12mm
4-086-28TI	Ø4.0mm x 28mm	14mm
4-086-30TI	Ø4.0mm x 30mm	14mm
4-086-32TI	Ø4.0mm x 32mm	14mm
4-086-34TI	Ø4.0mm x 34mm	14mm
4-086-36TI	Ø4.0mm x 36mm	14mm
4-086-38TI	Ø4.0mm x 38mm	14mm
4-086-40TI	Ø4.0mm x 40mm	14mm



Self-Tapping

VERTAUX - Occipital Inner Screw Cap

Code	Product Specification
SP-1339	M6



VERTAUX - Occipital Pre Bent Rod

Code	Dia
SP-1318	Ø3.2mm



VERTAUX - Occipital Laminar Hook

Code	Product Specification
SP-1340	Small
SP-1341	Large

Small



Large



VERTAUX - Occipital Straight Rod, Ø3.2mm

Code	Dia X Length
SP-1342	Ø3.2 x 70mm
SP-1343	Ø3.2 x 120mm
SP-1344	Ø3.2 x 200mm



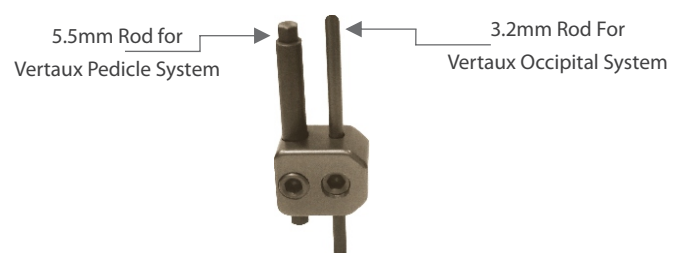
VERTAUX - Occipital Crosslink

Code	Length
SP-1345	60mm



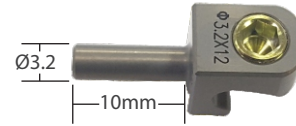
Universal Connector

Code	Material
SP-1358	TI



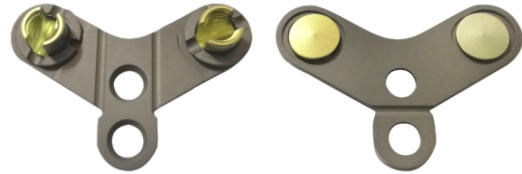
VERTAUX - Occipital Lateral Offset Connector

Code	Dia X Length
SP-1346	Ø3.2mm x 12mm



VERTAUX - Occipital Plate

Code	Length
SP-1347	32mm
SP-1348	37mm



VERTAUX - Occipital Pre Bent Rod for Plate

Code	Dia X Length
SP-1349	Ø3.2mm x 160mm



VERTAUX - Occipital Screw, Ø4.0mm

Code	Dia X Length
SP-1350	Ø4.0mm x 6mm
SP-1351	Ø4.0mm x 8mm
SP-1352	Ø4.0mm x 10mm
SP-1353	Ø4.0mm x 12mm

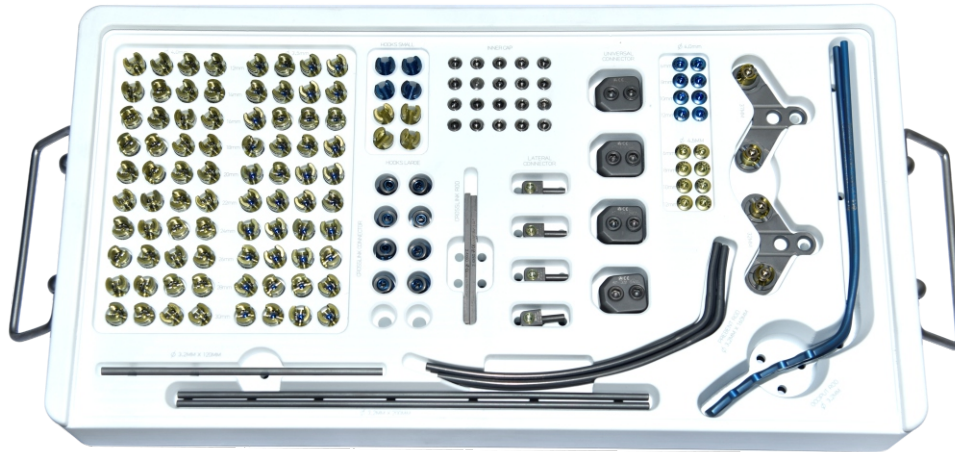


VERTAUX - Occipital Screw, Ø4.5mm

Code	Dia X Length
SP-1354	Ø4.5mm x 6mm
SP-1355	Ø4.5mm x 8mm
SP-1356	Ø4.5mm x 10mm
SP-1357	Ø4.5mm x 12mm



IMP-SP-OCCI VERTAUX - OCCIPITAL Implant Set



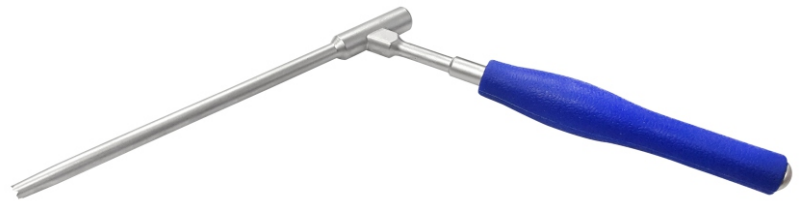
Code	Product Specification	Qty.
SP-1319	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 3.5 × Length 12mm	4
SP-1320	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 3.5 × Length 14mm	4
SP-1321	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 3.5 × Length 16mm	4
SP-1322	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 3.5 × Length 18mm	4
SP-1323	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 3.5 × Length 20mm	4
SP-1324	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 3.5 × Length 22mm	4
SP-1325	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 3.5 × Length 24mm	4
SP-1326	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 3.5 × Length 26mm	4
SP-1327	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 3.5 × Length 28mm	4
SP-1328	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 3.5 × Length 30mm	4
SP-1329	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 4.0 × Length 12mm	4
SP-1330	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 4.0 × Length 14mm	4
SP-1331	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 4.0 × Length 16mm	4
SP-1332	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 4.0 × Length 18mm	4
SP-1333	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 4.0 × Length 20mm	4
SP-1334	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 4.0 × Length 22mm	4
SP-1335	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 4.0 × Length 24mm	4
SP-1336	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 4.0 × Length 26mm	4
SP-1337	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 4.0 × Length 28mm	4
SP-1338	Vertaux - Occipital Polyaxial Pedicle Screw, Ø 4.0 × Length 30mm	4
SP-1340	Vertaux Occipital Laminar Hook, Small	4
SP-1341	Vertaux Occipital Laminar Hook, Large	4
SP-1339	Vertaux Occipital Inner Screw Cap(M6)	20
SP-1318	Vertaux - Occipital Pre Bent Rod, Ø 3.2mm, Titanium	2

Code	Product Specification	Qty
SP-1342	Vertaux - Occipital Straight Rod, Ø 3.2mm x Length 70mm	2
SP-1343	Vertaux - Occipital Straight Rod, Ø 3.2mm x Length 120mm	2
SP-1344	Vertaux - Occipital Straight Rod, Ø 3.2mm x Length 200mm	2
SP-1346	Vertaux - Occipital Lateral Offset Connector, Ø3.2mm x Length 12mm	4
SP-1345	Vertaux - Occipital Crosslinks, Length 60mm	10
SP-1350	Vertaux - Occipital screw, Ø4.0mm x Length 6mm	2
SP-1351	Vertaux - Occipital screw, Ø4.0mm x Length 8mm	2
SP-1352	Vertaux - Occipital screw, Ø4.0mm x Length 10mm	2
SP-1353	Vertaux - Occipital screw, Ø4.0mm x Length 12mm	2
SP-1354	Vertaux - Occipital screw, Ø4.5mm x Length 6mm	2
SP-1355	Vertaux - Occipital screw, Ø4.5mm x Length 8mm	2
SP-1356	Vertaux - Occipital screw, Ø4.5mm x Length 10mm	2
SP-1357	Vertaux - Occipital screw, Ø4.5mm x Length 12mm	2
SP-1358	Universal Connector	4
SP-1347	Vertaux - Occipital Plate, Length 32mm	1
SP-1348	Vertaux - Occipital Plate, Length 37mm	1
SP-1349	Vertaux - Occipital Pre Bent Rod for Plate, Ø3.2mm x Length 160mm	2
4-015-01	Tray for VERTAUX - OCCIPITAL Implant Set	1

SP-1358-01 Awl for Occipital System



SP-1358-02 Drill Guide for 2.4mm Drill Bit



SP-1358-03 Drill Bit, Ø2.4mm x Length 12mm



SP-1358-04 Drill Bit, Ø2.4mm x Length 14mm



SP-1358-05 Drill Bit, Ø2.4mm x Length 16mm



SP-1358-06 2.4mm Adjustable Drill Bit



SP-1358-07 Sounding Probe



SP-1358-08 Ball Handle Probe



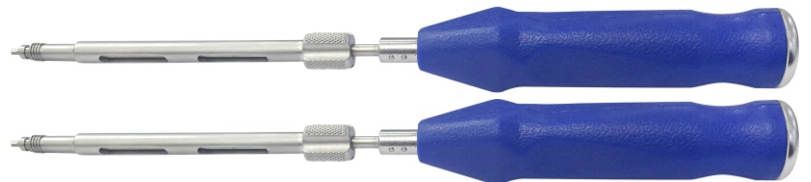
SP-1358-09 3.5mm Cortical Tap



SP-1358-10 Depth Gauge measuring upto 50mm for Occipital System



SP-1358-11 Polyaxial Screwdriver



SP-1358-12 3.0mm Template



SP-1358-13 Rod Forcep, Large



SP-1358-14 Rod Cutter Forcep



SP-1358-15 Rod Bender Forcep



SP-1358-16 Rod Bender, Left



SP-1358-17 Rod Bender, Right



SP-1358-18 3.0mm Rod Holding Forcep



SP-1358-19 Elastic Screw Holder, Hex 3.0mm



SP-1358-20 Screwdriver, Hex 3.0mm, for Occipital System



SP-1358-21 Counter Torque Rod Pusher



SP-1358-22 Hook Probe



SP-1358-23 Plate Hook Forcep



SP-1358-24 Distractor for Occipital System



SP-1358-25 Compressor for Occipital System



SP-1358-26 Reduction Forcep for Occipital System



SP-1358-27 T-Handle with Quick Coupling for Occipital System



SP-1358-28 Quick Coupling Handle, Straight, for Occipital System



SP-1358-29 3.0mm Drill Bit



SP-1358-30 Tap, Ø4.0mm



SP-1358-31 Double Drill Guide, Ø6/8mm



SP-1358-32 Double Drill Guide, Ø10/12mm



SP-1358-33 Marker, Left



SP-1358-34 Marker, Right



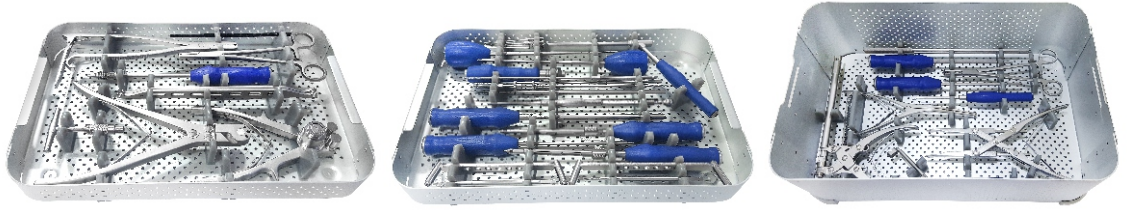
SP-1358-35 Flexible Screwdriver, Hex 3.0mm, for Occipital System



SP-1358-36 Screwdriver, Hex 2.0mm, for Occipital System



SP-1358-39 Instrument Tray Vertaux-Occipital Instrument Set



SP-1358-37 Container for Vertaux-Occipital Instrument Set



SP-1358-000 VERTAUX - Occipital Instrument Set



SP-1358-000 VERTAUX - Occipital Instrument Set

Code	Set Consisting of	Qty.
SP-1358-01	Awl for Occipital System	1
SP-1358-02	Drill Guide for 2.4mm Drill Bit	1
SP-1358-03	Drill Bit, Ø2.4mm x Length 12mm	1
SP-1358-04	Drill Bit, Ø2.4mm x Length 14mm	1
SP-1358-05	Drill Bit, Ø2.4mm x Length 16mm	1
SP-1358-06	2.4mm Adjustable Drill Bit	1
SP-1358-07	Sounding Probe	1
SP-1358-08	Ball Handle Probe	1
SP-1358-09	3.5mm Cortical Tap	1
SP-1358-10	Depth Gauge measuring upto 50mm for Occipital System	1
SP-1358-11	Polyaxial Screwdriver	2
SP-1358-12	3.0mm Template	2
SP-1358-13	Rod Forcep, Large	1
SP-1358-14	Rod Cutter Forcep	1
SP-1358-15	Rod Bender Forcep	1
SP-1358-16	Rod Bender, Left	1
SP-1358-17	Rod Bender, Right	1
SP-1358-18	3.0mm Rod Holding Forcep	1
SP-1358-19	Elastic Screw Holder, Hex 3.0mm	2
SP-1358-20	Screwdriver, Hex 3.0mm, for Occipital System	2
SP-1358-21	Counter Torque Rod Pusher	1
SP-1358-22	Hook Probe	1
SP-1358-23	Plate Hook Forcep	1
SP-1358-24	Distractor for Occipital System	1
SP-1358-25	Compressor for Occipital System	1
SP-1358-26	Reduction Forcep for Occipital System	1
SP-1358-27	T-Handle with Quick Coupling for Occipital System	1
SP-1358-28	Quick Coupling Handle, Straight, for Occipital System	1
SP-1358-29	3.0mm Drill Bit	2
SP-1358-30	Tap, Ø4.0mm	1
SP-1358-31	Double Drill Guide, Ø6/8mm	1
SP-1358-32	Double Drill Guide, Ø10/12mm	1
SP-1358-33	Marker, Left	3
SP-1358-34	Marker, Right	3
SP-1358-35	Flexible Screwdriver, Hex 3.0mm, for Occipital System	1
SP-1358-36	Screwdriver, Hex 2.0mm, for Occipital System	1
SP-1358-39	Instrument Tray Vertaux-Occipital Instrument Set	3
SP-1358-37	Container for Vertaux-Occipital Instrument Set	1



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