

VENUS_{nano}

Paediatric Fixation System



The VENUSnano spinal system is a follow-on product of the VENUS system and has been developed for use in the thoracic, lumbar and sacral spine region in children and adults of small stature. It may be used mono-segmentally as well as multi-segmentally. The system stands out due to its high degree of biomechanical stability and user-friendliness. Long head screws and hooks are included too.

Implants for primary fusion and revision surgery

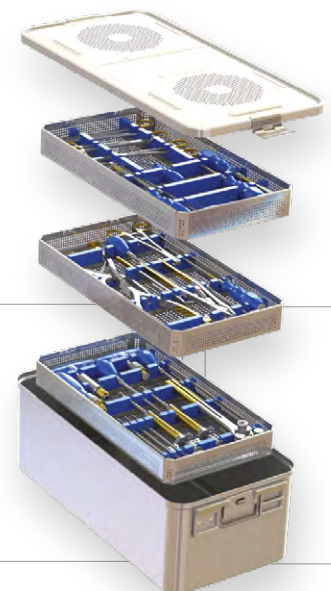
The VENUSnano spinal system is extremely well suited for use in almost all indications of medical conditions requiring surgery and injuries to the thoracic, lumbar and sacral spine, such as instability, degenerative disc disorders, degenerative spondylolisthesis, degenerative stenosis, deformities such as scoliosis and kyphosis, spondylitis as well as revision surgery. The dorsal instrumentation alone is not usually enough to establish the necessary degree of stability of a spinal segment in cases of tumour-related destruction of the segment with loss or absence of the ventral column. Such cases may require supplementary anterior support including vertebral body replacement implants.

We develop and produce all our implants and instruments in Germany, and will continue to do so. To us, Made in Germany is a special quality label, one which we are proud of. Our HumanTech expert team operates all over the world. Solid market analysis and active, renowned surgeons provide us with the know-how for our development and production processes.

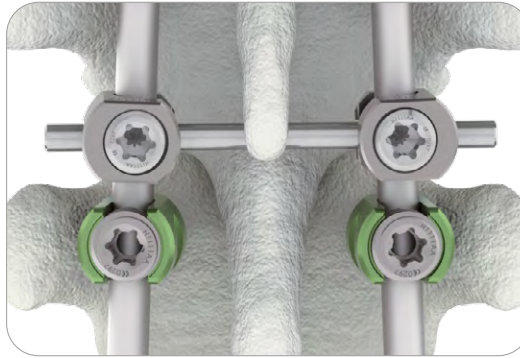
The perfectly crafted VENUSnano implant and instrument system meets every requirement when it comes to style, stability, handling, aesthetics and quality, and conforms to the highest international standards. With the specially developed thread design, the screws can be introduced incredibly gently and are capable of withstanding maximum loading. Our transverse connectors and rods are of outstanding quality. The instruments are highly ergonomic, winning users over with their ease of use.

Product-specific advantages

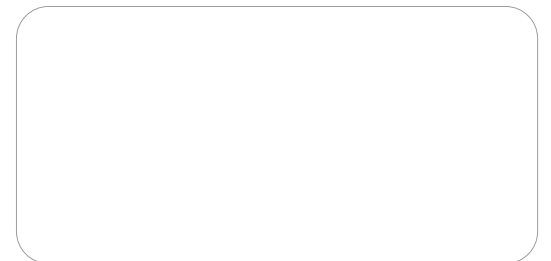
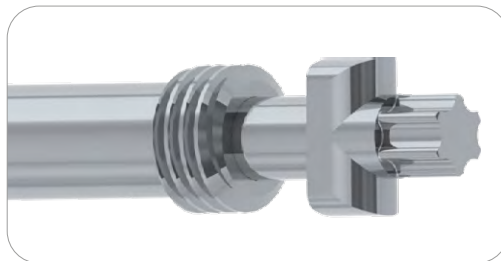
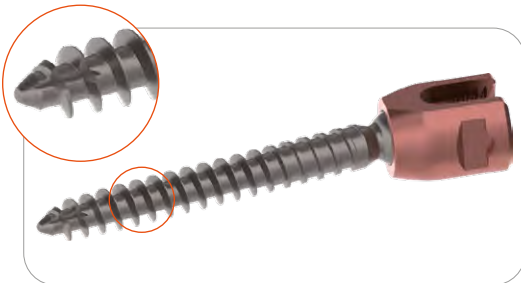
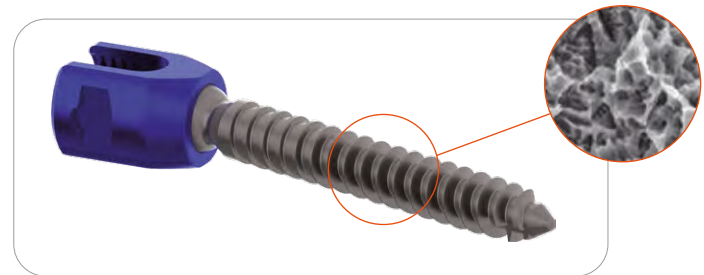
- Modular system
- Simple and precise placement reduction
- Gentle reduction
- Design perfectly adapted to the anatomy
- Secure primary fixation while preserving the tissue at the same time
- Optimum osseointegration of the implant due to special surface structure
- Maximum biomechanical stability
- In-house development and production



VENUSnano



- safe
- anatomical
- transparent
- stable
- flexible



Screws

The screws in the VENUSnano system have low-profile threads to preserve soft tissue and generate minimal trauma in the bone, too. Despite this, the screw still manages to engage the bone immediately while being screwed in. The rounded screw tip is also suitable for anterior fixation due to its profile. The gradient of the screw thread enables the screw to be screwed into the bone quickly and precisely, yet safely. The four different angles in the thread profile guarantee an optimum fit in the bone and thus a secure primary fixation. The surface structure then enables optimum osseointegration of the implant. The long head screws enable the correction and stabilisation of the spine in particularly complicated anatomies. The screw has a detachable screw head extension with an inner thread, using which it is possible to approximate the spine to the desired sagittal or axial profile. The possibilities of this include the reduction of three-dimensional deformities, including kyphosis or spondylolisthesis.



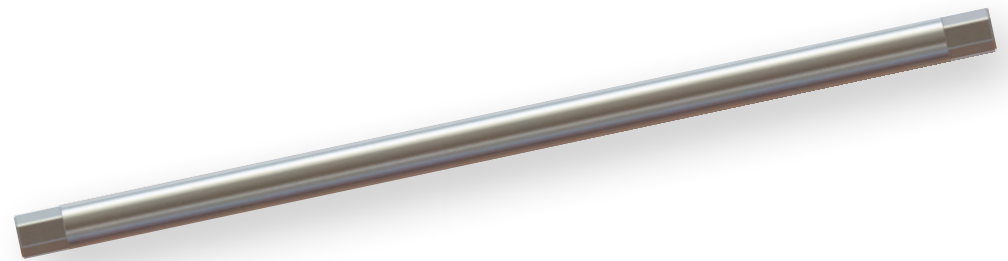
Hooks

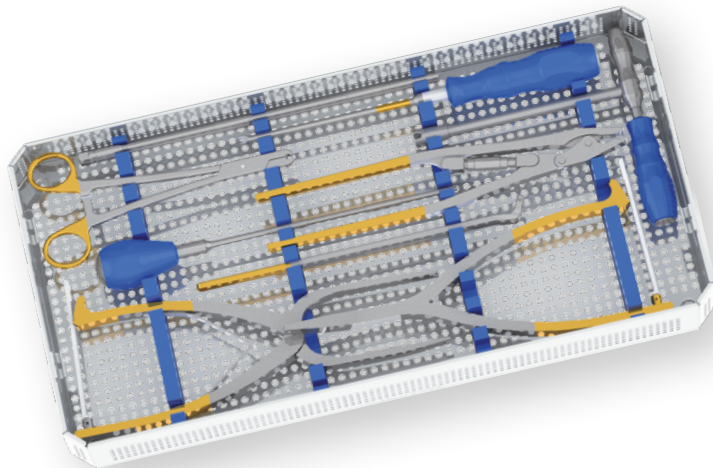
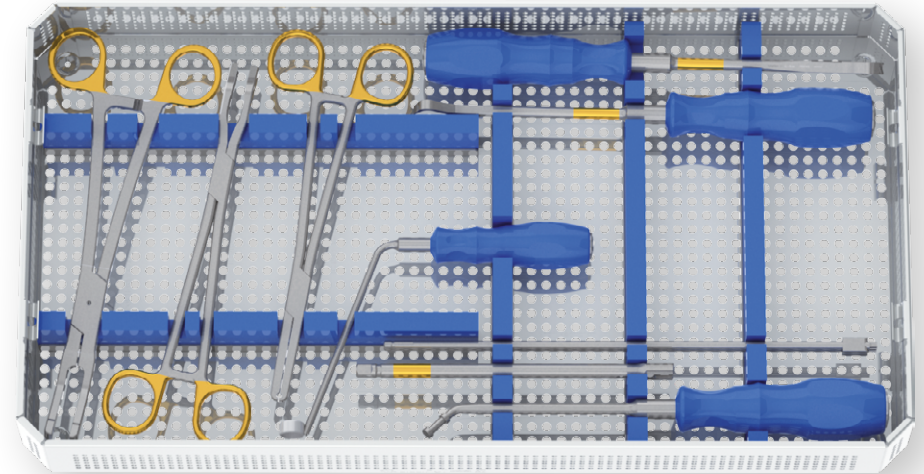
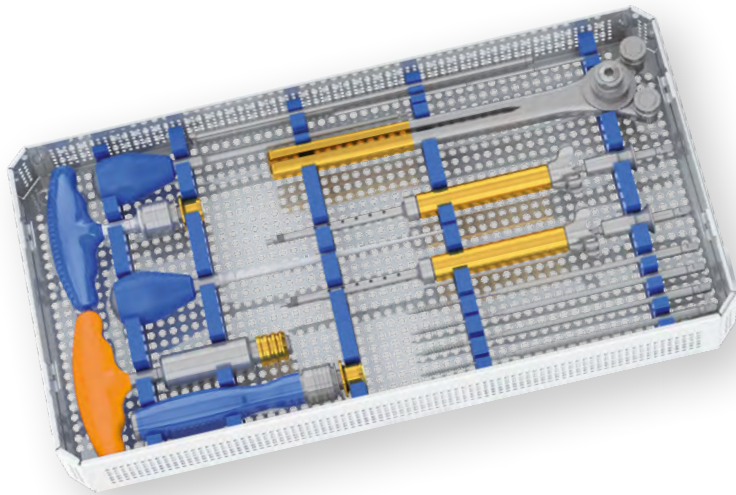
VENUSnano pedicle and lamina hooks complement the screws perfectly. They enable the correction and stabilisation of the spine in particularly complicated anatomies. These can be attached at the pedicle, the transverse process as well as supra-laminar and intra-laminar, both thoracic as well as lumbar. This possibilities of this include the reduction of three-dimensional deformities, including kyphosis or scoliosis. The comprehensive selection of pedicle and lamina hooks as well as domino and lateral connectors maximize the surgeon's intraoperative flexibility and allow him/her enhanced precision with faster and safer implantation.



Rods

The 4.5mm rods in varying lengths reduce the effort involved in cutting the rods to length during the OP to a minimum. Nitinol phantom rods and special alignment markers on the rods enable the rod to undergo optimum preparation before being penetrated into the structure. Rods with hexagonal-shaped ends allow the rod to be rotated before the final fixation, thus making it possible to perform simple corrections of deformities.

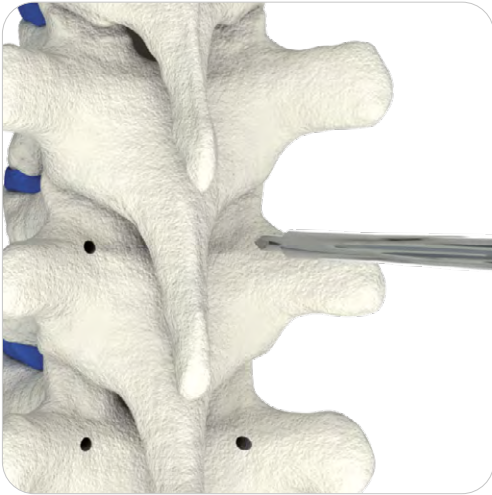




Instruments

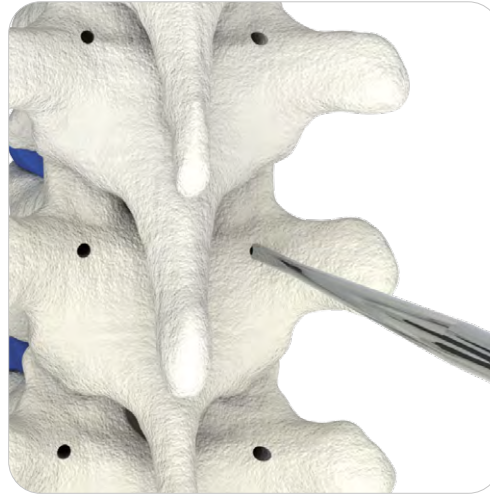
The VENUSnano instrument set, a follow-on product of the tried and tested Venus instrument set, is among the most outstanding surgical instrumentation systems.

The system is the exclusive product of “Made in Germany” engineering skill in line with ISO and EC specifications. The perfection of the instrument set can also be attributed to its simplicity, which ensures optimum sterilisation as well as safe and easy use. Highly-qualified quality management, accurate testing methods and complete traceability ensure the highest production standard, something that our customers can always rely on. Quality and precision are our incentive for developing new, ground-breaking and more effective ways of improving the VENUSnano instrument system. Close contact with users is critical for our developments in this process.



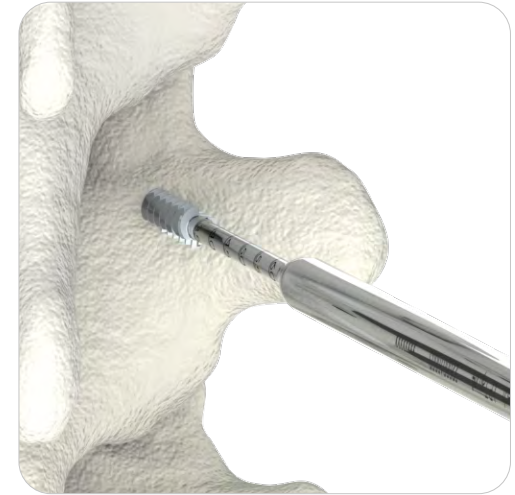
Preparing the pedicle

Set the pedicle insertion point. Open the pedicle canal using the awl.



Awling and probing

The pedicle canal is awled. Using light pressure, the awl is advanced (Pedicle Probe) into the pedicle canal carefully in half rotations.

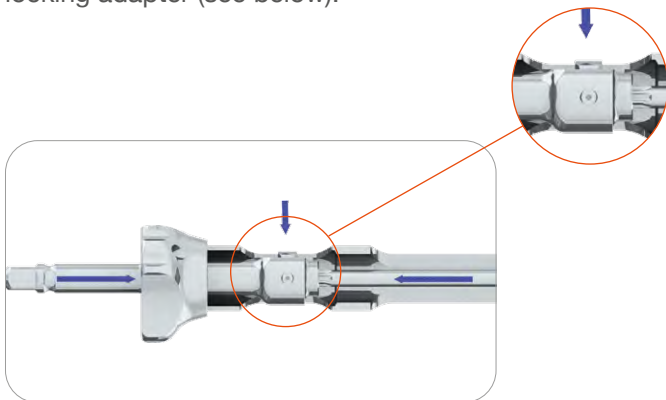


Tapping

All pedicle screws are self-tapping. In cases where there is a very rigid bone structure, making the use of a tap necessary, taps are available to suit all screw diameters.

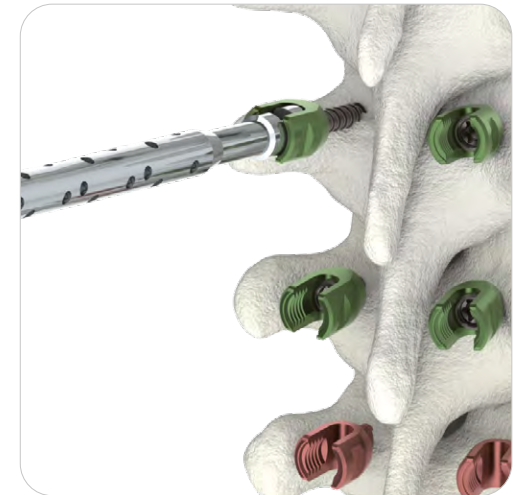


There are various screw driver shafts available for inserting the screws. Depending on the type of screw, insert the inner screwdriver shaft into the LP mono-/poly-axial screw driver guide and secure with the locking adapter (see below).



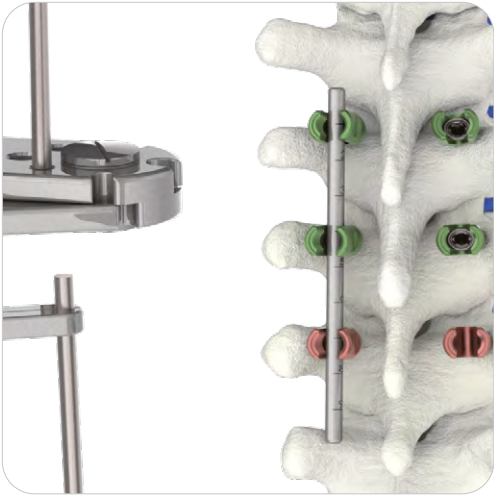
Now insert the tip of the screw driver (inner shaft) depending on the type of screw (mono/poly or reduction) into the screw head and connect the outer guide to the screw head by screwing it into the inner thread of the screw head.

Note:
When fitting the screws (poly/reduction), it must be ensured that the hexalobular head bolt is fitted properly in the recess of the screw.



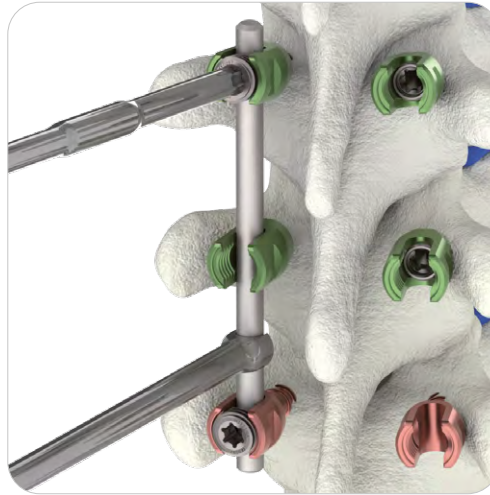
The screw is screwed into the pedicle canal. After screwing it into the final position, release the screwdriver. In order to do so, grip the handle and turn the outer nut counter-clockwise (see below).





Inserting the rod

Set the rod length. A phantom rod is contained in the instruments to make it easier to set the rod length. Insert the rod into the screw heads using the LP rod inserter and, if need be, with the help of your fingertips. The rod profile undergoes fine tuning and the rod is bent to the corresponding radius. If necessary, place the rod using an LP rod pusher or a rocker to ensure the correct positioning in the screw head.

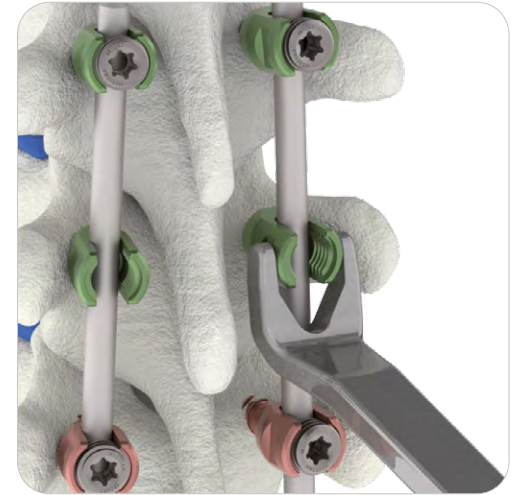


Fixing the rod

Fix the rod in the screw head with the set screw using the LP setscrew inserter. To prevent cross-threading while screwing in the set screw, first screw in a counter-clockwise direction until you clearly feel the thread “click into” the screw head. Then continue to screw in the set screw.

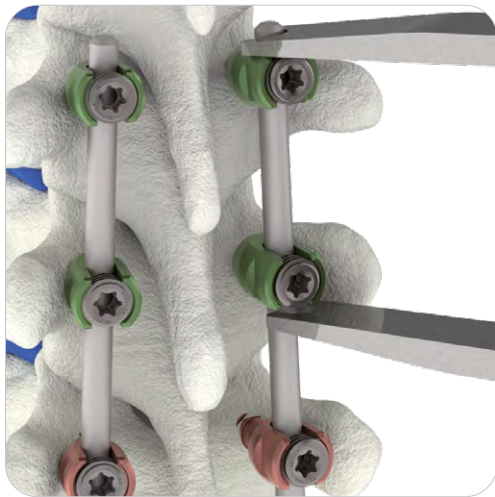
Caution!

Be sure to only screw in the set screw loosely; the final torque is applied using the LP set screwdriver.



Using the rocker

Position the rocker on the screw head by inserting the fork ends into the lateral grooves of the screw head. Crank the rocker shaft until it is sitting on the rod. Then continue to crank it carefully, making visual and, if need be, x-ray checks until the rod and the screw head are interlocked. Insert the set screws and fix the rod in the screw head.

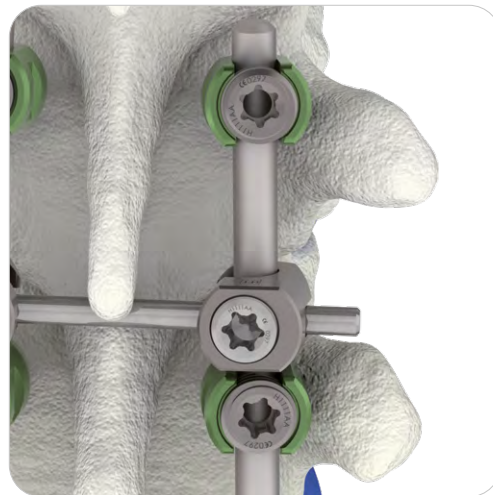


Compression-Distraction

Position the LP compressor or LP distractor on the screw heads and carry out the compression or distraction procedure until the desired position has been achieved. Insert the set screws using the setscrew inserter to ensure the compression or distraction result. Tighten using the LP setscrew driver.

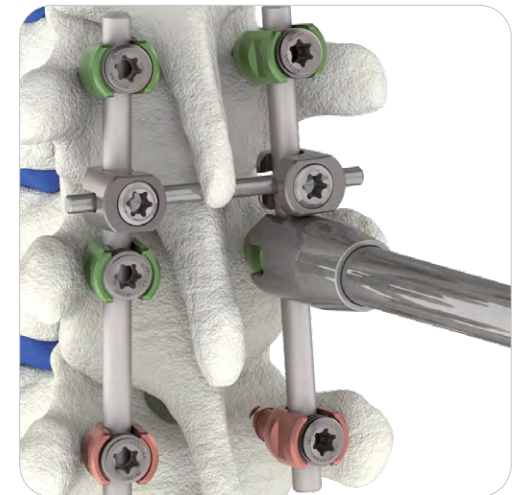
Note:

The set screws must not be fully tightened during this manoeuvre. If need be, loosen the set screws carefully using the LP setscrew driver.



Transverse Stabiliser

Attach a transverse stabiliser hook with the help of the LP transverse connector inserter. Connect the second hook with the transverse connector rod which is inserted via the LP transverse connector rod holder and attach it to the second rod of the instrument. Align the elements and connect the transverse connector hooks using the transverse connector rod. Screw the set screws all the way into the transverse connector hook using the LP setscrew driver.

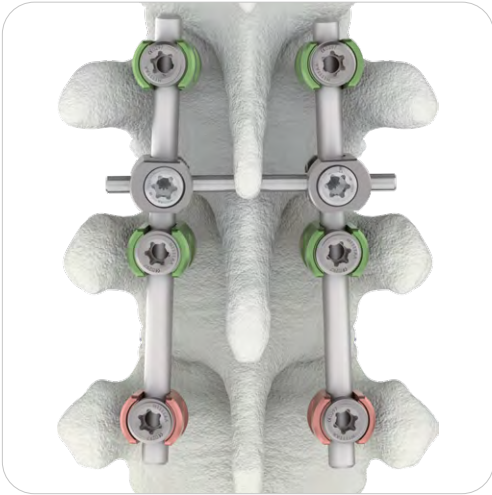


Subsequent Tightening

Slot the LP setscrew driver and the LP torque driver into one another, and then insert both components into the LP counter holder. Attach the combined instrument to the screw head. It is also possible to attach the two instruments separately. Tighten the set screw. Same approach for all other set screws.

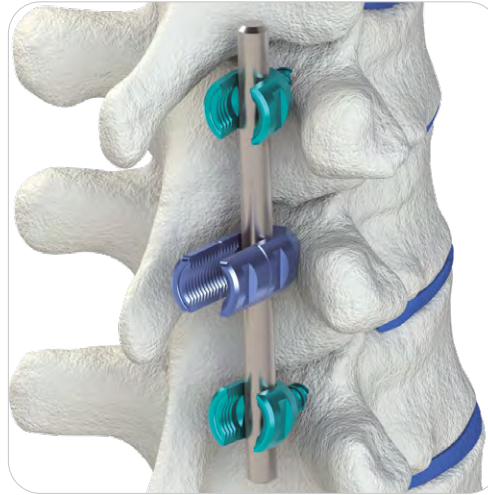
Note:

The full torque of 10Nm is reached when an audible signal is heard.



Final Structure

Final check on the structure with X-ray control images taken in two planes. Cleanse the surgical area and wound closure.

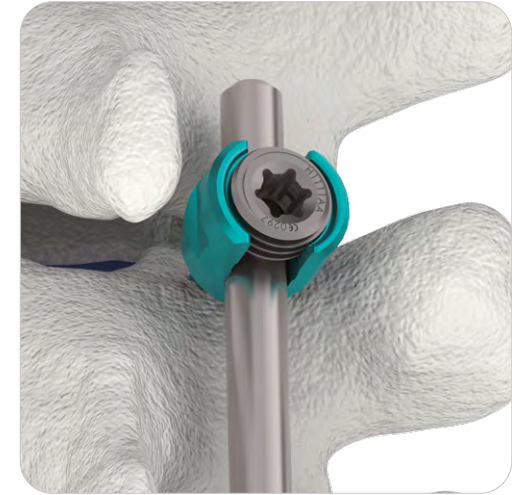


Inserting the rod for reduction/reposition

Insert the rod into the screw heads using the LP rod inserter and, if need be, with the help of your fingertips. The rod profile undergoes fine tuning and the rod is bent to the corresponding radius. If necessary, place the rod using an LP rod pusher or a rocker to ensure the correct positioning in the screw head.

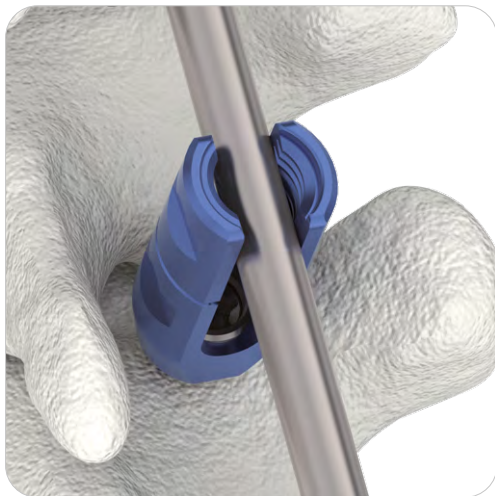
Note:

When inserting the rod, care should be taken to ensure as little tension as possible in order to prevent the long flanks from breaking prematurely.



Fixing the rod

Fix the rod into the segment above and below. The segment in question with the reduction screw should remain unfixed initially. If need be, distraction can be carried out between the segments above and below to free up the segment to be reduced considerably.



Reduction

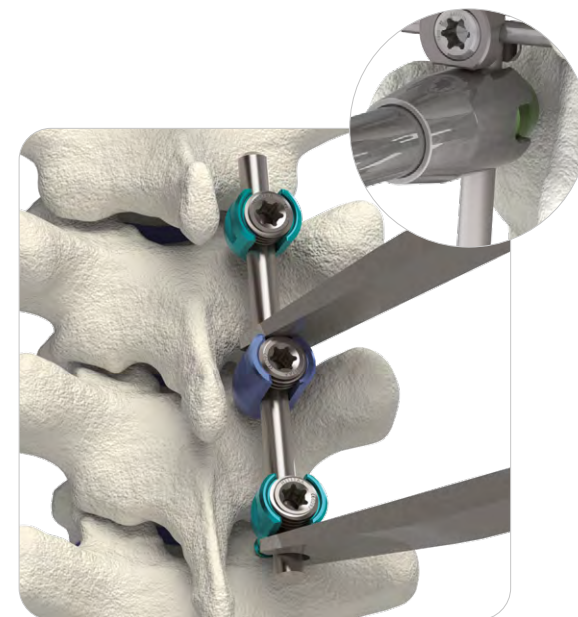
In order to be able to carry out the reduction process in as gentle a manner and with as little tension as possible, the rod must be inserted at least to the upper end of the reduction screw. If necessary, this position can be achieved by gently pulling the rocker.

In order to protect the screw flanks from breaking off: Attach the LP long head sleeves and simultaneously guide them during the screw-in process of the setscrew. Carefully screw in the setscrew while making visual checks or, if need be, x-ray checks until the rod interlocks into the screw head.



Removing the long flanks

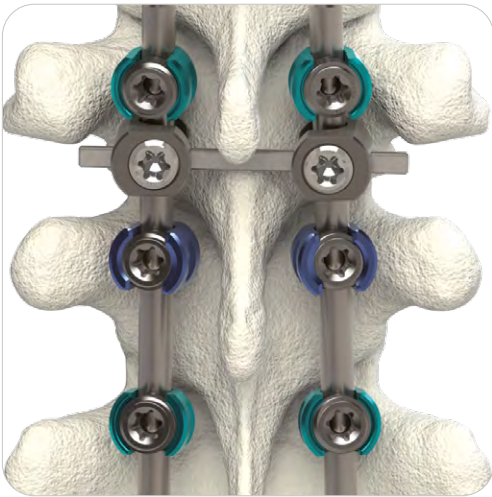
Break off the protruding long flanks using the LP crown breaker. Slide the LP crown breaker over the flanks. The flanks break off after several lever movements (medial-lateral) at the designated breaking point. Preferably break the flank in the direction of the centre of the spine. The crown breaker is designed in such a way that the fragment remains in the instrument. The special screw head design prevents a burr formation at the breakage points.



Compression / Distraction

Fix the rod into the segment above and below. The segment in question with the reduction screw should remain unfixed initially. If need be, distraction can be carried out between the segments above and below to free up the segment to be reduced considerably.

Attach the combined instrument to the screw head. It is also possible to attach the two instruments separately (first LP counter holder, then LP setscrew driver with LP torque driver - max. 10Nm). Tighten the set screw. Same approach for all other set screws.



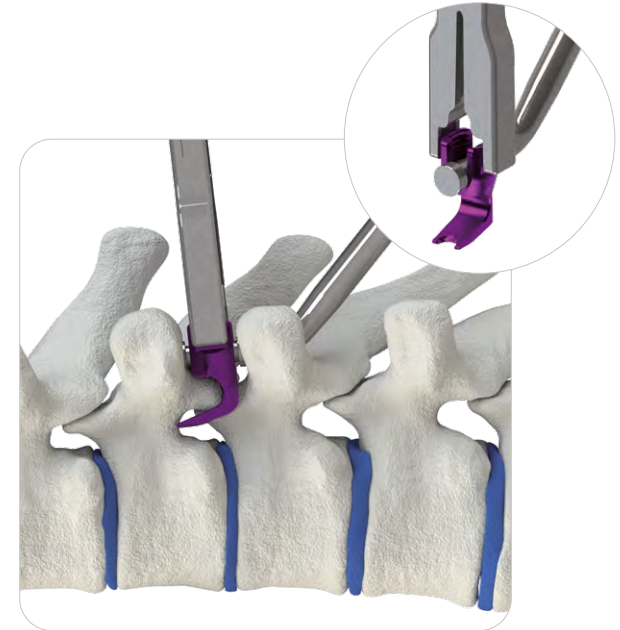
Final Structure

The actual correction process is usually a combination of various manoeuvres or techniques. The advantage of long head screws is that the correction is carried out slowly, and the forces are distributed across several segments. The final structure has the same biomechanical strength as a standard fixation.



Placing the pedicle hook

Pedicle hooks are available in different sizes and for different applications. Pedicle hooks can be used only in the thoracic region, in the cranial direction. For this, the caudal facet joint is resected at a right angle. Below this, the cranial articular facet of the vertebra positioned caudally of it is visible. The pedicle is palpated using the instrumentation by undercutting the facet of the cranial vertebra on the facet which has been rendered visible.



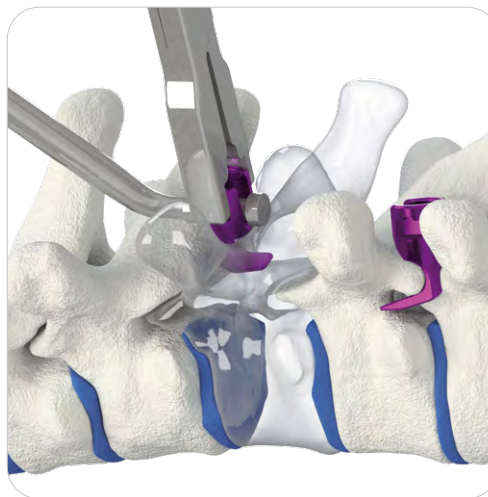
Inserting the pedicle hook

In order to facilitate the insertion of the pedicle hook, remove a small part of the lower facet with an osteotome. Insert the LP hook impactor into the LP hook holder. With this combination of instruments, the pedicle hooks can be easily pressed into the pedicle hook position. Assist with gentle hammer blows if need be. Move the LP hook holder laterally and cranially to check for the optimum position. Do not press medially.



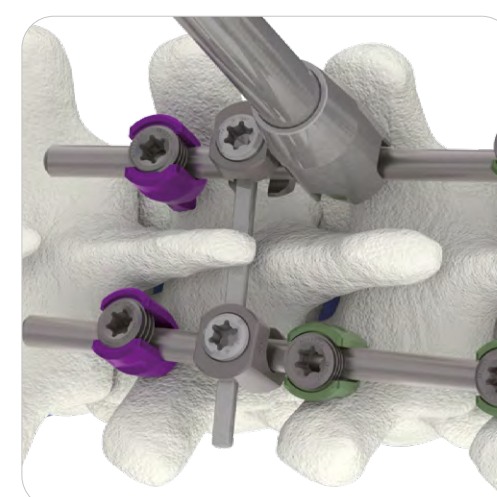
Placing the lamina hook

Lamina hooks are available in different sizes and for different applications. Lamina hooks can be used in both the thoracic and lumbar regions (in the caudal-cranial, cranial-caudal direction and in the transverse processes). The hook position is prepared on the transverse process by means of cranial bypass with the lamina finder. For caudal setting of lamina hooks, following a partial flavectomy the hook is placed in a supra laminar, supra thoracic or lumbar position. If necessary, the spinous processes must be shortened until the ligamentum flavum is visible.



Inserting the lamina hook

For a secure identification and placement of the hook position, the ligamentum flavum is removed with a rongeur up to a point where the dura is visible. The hooks are inserted with the instrument combination LP hood, holder and LP hook inserter. Make sure that the hook is not too deep or presses on the spinal cord.



Subsequent Tightening

Slot the LP torque driver and the LP counter holder into one another. Attach the combined instrument to the screw head. It is also possible to attach the two instruments separately. Tighten the set screw. Same approach for all other set screws.

Note:
The full torque of 10Nm is reached when an audible signal is heard.



Preassembly of LP Offset Hooks

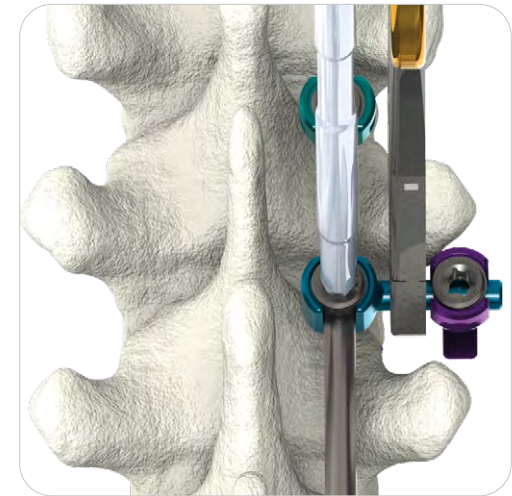
The LP Pedicle screws as well as other hooks and the rods are already installed. The seat for the LP Offset Hook is already prepared.

Preassembly of the LP Offset Hook on the LP Lateral Connector and prefixation with the LP Set Screw.



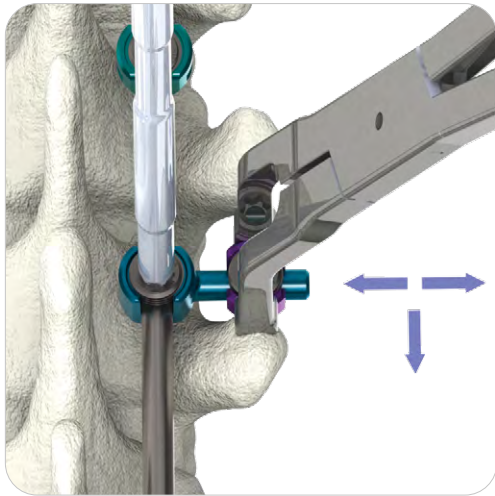
Pick up the unit

Pick the preassembled unit with the LP Rod Inserter



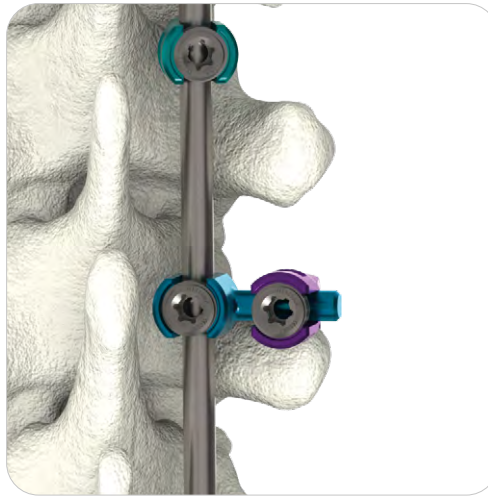
Insertion of preassembled unit

Insert the preassembled unit and prefix on the rod.



Positioning of LP Offset Hooks

Adjustment of the LP Offset Hook on the LP Lateral Connector. Then fixation of the LP Offset Hook on the prepared Seat.

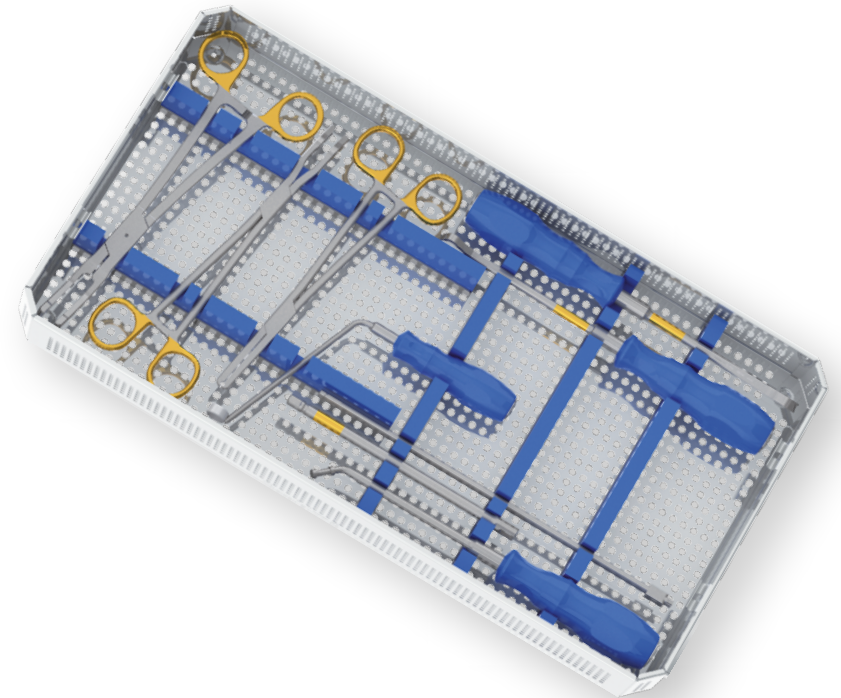


Final fixation

Final Tightening of the Setscrews as described in the Surgical Technique.




Note:

The full torque of 10Nm is reached when an audible signal is heard.




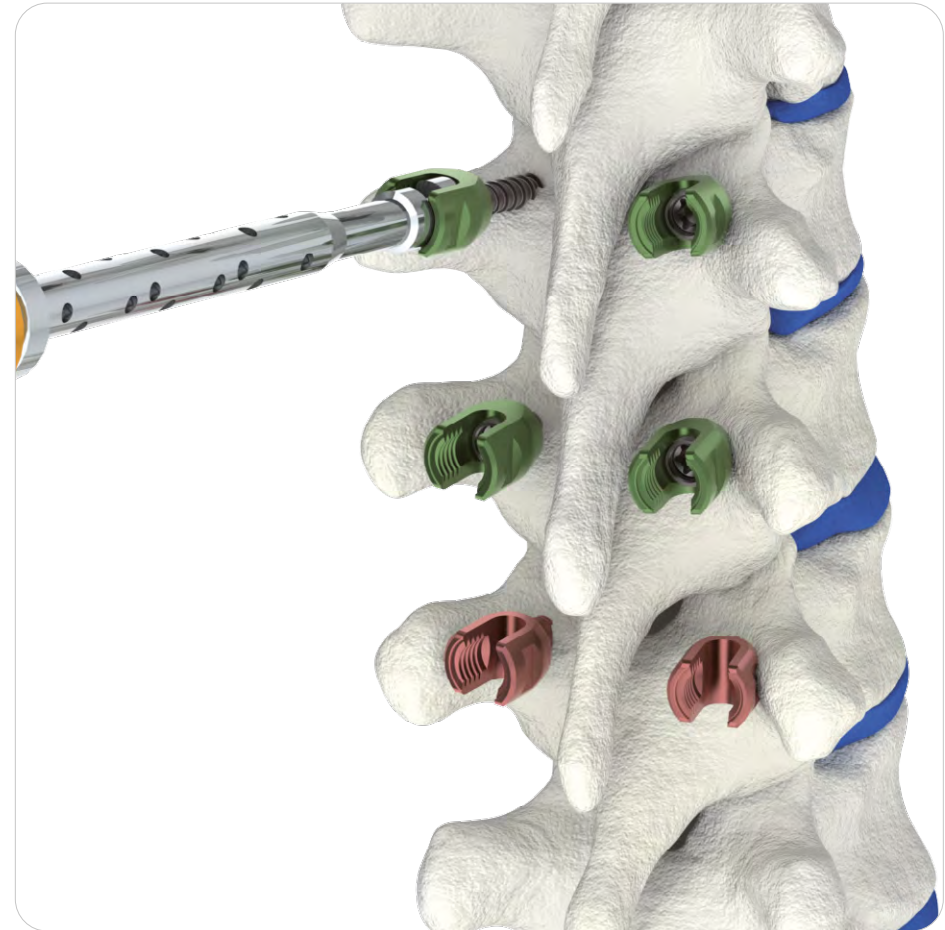
Polyaxial- und Monoaxial Screws

| Art.No. | Description | Image |
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| 2200044025 | Polyaxial Screw LP Ø4x25mm | |
| 2200044030 | Polyaxial Screw LP Ø4x30mm | |
| 2200044035 | Polyaxial Screw LP Ø4x35mm | |
| 2200044040 | Polyaxial Screw LP Ø4x40mm | |
| 2200044045 | Polyaxial Screw LP Ø4x45mm | |
| | Polyaxial Screws LP Ø5 mm | |
| 2200045025 | Polyaxial Screw LP Ø5x25mm | |
| 2200045030 | Polyaxial Screw LP Ø5x30mm | |
| 2200045035 | Polyaxial Screw LP Ø5x35mm | |
| 2200045040 | Polyaxial Screw LP Ø5x40mm | |
| 2200045045 | Polyaxial Screw LP Ø5x45mm | |
| 2200045050 | Polyaxial Screw LP Ø5x50mm | |
| 2200045060 | Polyaxial Screw LP Ø5x60mm | |
| 2200045070 | Polyaxial Screw LP Ø5x70mm | |
| | Polyaxial Screws LP Ø5.5 mm | |
| 2200045525 | Polyaxial Screw LP Ø5.5x25mm | |
| 2200045530 | Polyaxial Screw LP Ø5.5x30mm | |
| 2200045535 | Polyaxial Screw LP Ø5.5x35mm | |
| 2200045540 | Polyaxial Screw LP Ø5.5x40mm | |
| 2200045545 | Polyaxial Screw LP Ø5.5x45mm | |
| 2200045550 | Polyaxial Screw LP Ø5.5x50mm | |
| 2200045560 | Polyaxial Screw LP Ø5.5x60mm | |
| 2200045570 | Polyaxial Screw LP Ø5.5x70mm | |











| Art.No. | Description | Image |
|------------|---------------------------------|--|
| | Monoaxial Screws Ø4 mm |  |
| 2200064025 | Monoaxial Screw LP Ø4x25mm | |
| 2200064030 | Monoaxial Screw LP Ø4x30mm | |
| 2200064035 | Monoaxial Screw LP Ø4x35mm | |
| 2200064040 | Monoaxial Screw LP Ø4x40mm | |
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| 2200064050 | Monoaxial Screw LP Ø4x50mm | |
| | Monoaxial Screws Ø5 mm | |
| 2200065025 | Monoaxial Screw LP Ø5x25mm | |
| 2200065030 | Monoaxial Screw LP Ø5x30mm | |
| 2200065035 | Monoaxial Screw LP Ø5x35mm |  |
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| | Monoaxial Screws Ø5.5 mm | |
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| 2200065535 | Monoaxial Screw LP Ø5.5x35mm | |
| 2200065540 | Monoaxial Screw LP Ø5.5x40mm | |
| 2200065545 | Monoaxial Screw LP Ø5.5x45mm | |
| 2200065550 | Monoaxial Screw LP Ø5.5x50mm | |
| | Monoaxial Screws Ø6 mm |  |
| 2200066025 | Monoaxial Screw LP Ø6x25mm | |
| 2200066030 | Monoaxial Screw LP Ø6x30mm | |
| 2200066035 | Monoaxial Screw LP Ø6x35mm | |
| 2200066040 | Monoaxial Screw LP Ø6x40mm | |
| 2200066045 | Monoaxial Screw LP Ø6x45mm | |
| 2200066050 | Monoaxial Screw LP Ø6x50mm | |

Reduktion Screws

| Art.No. | Description | Image |
|------------|--------------------------------|---|
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| 2200054025 | Reduction Screw LP Ø4x25mm | |
| 2200054030 | Reduction Screw LP Ø4x30mm | |
| 2200054035 | Reduction Screw LP Ø4x35mm | |
| 2200054040 | Reduction Screw LP Ø4x40mm | |
| 2200054045 | Reduction Screw LP Ø4x45mm | |
| | Reduction Screw LP Ø5 | |
| 2200055025 | Reduction Screw LP Ø5x25mm | |
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| 2200055060 | Reduction Screw LP Ø5x60mm | |
| 2200055070 | Reduction Screw LP Ø5x70mm | |
| | Reduction Screw LP Ø5.5 | |
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| 2200055535 | Reduction Screw LP Ø5.5x35mm | |
| 2200055540 | Reduction Screw LP Ø5.5x40mm | |
| 2200055545 | Reduction Screw LP Ø5.5x45mm | |
| 2200055550 | Reduction Screw LP Ø5.5x50mm | |
| 2200055560 | Reduction Screw LP Ø5.5x60mm | |
| 2200055570 | Reduction Screw LP Ø5.5x70mm | |








Rods and Setscrews





| Art.No. | Description | Image |
|-------------|-------------------------------------|---|
| LP-PMS | LP Set Screw |  |
| 2200150000 | LP Connector Set Screw | |
| Art.No. | Description | Image |
| 2200084503 | Rod straight LP CoCr Ø4.5x30mm |  |
| 2200084505 | Rod straight LP CoCr Ø4.5x50mm | |
| 2200084507 | Rod straight LP CoCr Ø4.5x70mm | |
| 2200084510H | Rod straight LP CoCr Ø4.5x100mm Hex | |
| 2200084515H | Rod straight LP CoCr Ø4.5x150mm Hex | |
| 2200084520H | Rod straight LP CoCr Ø4.5x200mm Hex | |
| 2200084548H | Rod straight LP CoCr Ø4.5x480mm Hex | |
| Art.No. | Description | Image |
| 2200094503 | Rod straight LP Ø4.5x30mm |  |
| 2200094505 | Rod straight LP Ø4.5x50mm | |
| 2200094507 | Rod straight LP Ø4.5x70mm | |
| 2200094510H | Rod straight LP Ø4.5x100mm Hex | |
| 2200094515H | Rod straight LP Ø4.5x150mm Hex | |
| 2200094520H | Rod straight LP Ø4.5x200mm Hex | |
| 2200094548H | Rod straight LP Ø4.5x480mm Hex |  |
| Art.No. | Description | Image |
| 2200140000 | LP Transverse Connector Hook Ø4.5 |       |
| 2200140040 | LP Transverse Connector Rod 40mm | |
| 2200140050 | LP Transverse Connector Rod 50mm | |
| 2200140060 | LP Transverse Connector Rod 60mm | |
| 2200140070 | LP Transverse Connector Rod 70mm | |
| 2200140080 | LP Transverse Connector Rod 80mm | |

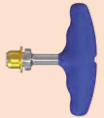
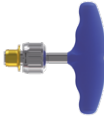
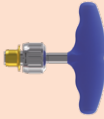





Hooks and Connectors

| Art.No. | Description | Image |
|-------------|----------------------------------|-------|
| 2200100040 | LP Lamina Hook 4mm | |
| 2200100050 | LP Lamina Hook 5mm | |
| 2200100060 | LP Lamina Hook 6mm | |
| 2200101040 | LP Offset Hook 4mm | |
| 2200101050 | LP Offset Hook 5mm | |
| 2200101060 | LP Offset Hook 6mm | |
| 2200102040 | LP Pedicle Hook 4mm | |
| 2200102050 | LP Pedicle Hook 5mm | |
| 2200102060 | LP Pedicle Hook 6mm | |
| 2200100040L | LP Lamina Hook Left 4mm | |
| 2200100050L | LP Lamina Hook Left 5mm | |
| 2200100060L | LP Lamina Hook Left 6mm | |
| 2200100040R | LP Lamina Hook Right 4mm | |
| 2200100050R | LP Lamina Hook Right 5mm | |
| 2200100060R | LP Lamina Hook Right 6mm | |
| Art.No. | Description | Image |
| 2200110015 | LP Lateral Connector 15mm | |
| 2200110025 | LP Lateral Connector 25mm | |
| 2200110050 | LP Lateral Connector 50mm | |
| Art.No. | Description | Image |
| 2200124545 | LP Domino Connector Ø4.5/4.5 | |
| 2200124555 | LP Domino Connector Ø4.5/5.5 | |
| Art.No. | Description | Image |
| 2200134545 | LP Inline Rod Connector Ø4.5/4.5 | |
| 2200134555 | LP Inline Rod Connector Ø4.5/5.5 | |

Instruments

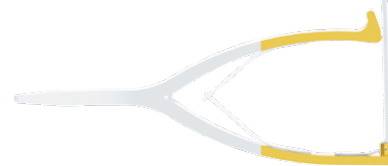
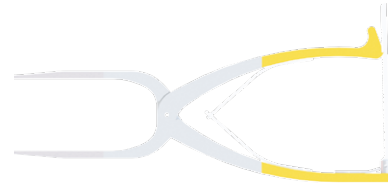
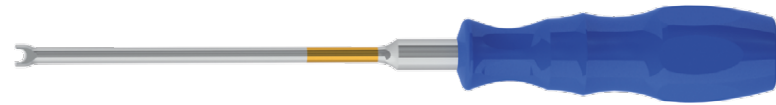
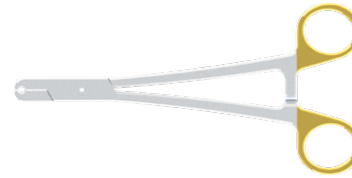
| Art.No. | Description | |
|--|--|--|
| 2200010000 | LP Awl |  |
| 2200010002 | Pedicle Probe 2.5mm |  |
| 2200010003 2200010004 2200010005 2200010006 | LP Tap Ø4 LP Tap Ø5 LP Tap Ø5.5 LP Tap Ø6 |  |
| 2200010011 | LP Rocker |  |
| 2200010008 | LP Set Screw Driver |  |
| 2200010009 | LP Set Screw Inserter |  |
| 2200010007 | LP Counter Holder |  |
| 2200010016 | LP Mono/Polyaxial Screw Driver |  |
| 2200010013 | LP Reduction Crown Breaker |  |

| Art.No. | Description | |
|------------|---------------------------------|---|
| 2200010014 | LP Shaft Monoaxial Screw Driver |  |
| 2200010015 | LP Shaft Polyaxial Screw Driver |  |
| 2200010046 | LP Shaft Reduction Screw Driver |  |
| 2200010012 | LP Long Head Sleeve |  |

| Art.Nr. | Bezeichnung | |
|------------|---|--|
| 1006010600 | T-Handle Cannulated |  optional |
| 1006010701 | Ratchet T-Handle Cannulated T30 |  |
| 1006010711 | Ratchet-ST T-Handle Can. T30 |  optional |
| 1006010900 | Handle Straight Cannulated |  optional |
| 1006010801 | Ratchet Handle Straight Cannulated T30 |  |
| 1006010811 | Ratchet-ST Handle Straight Can. T30 |  optional |
| 1006010501 | Ratchet Handle Pear Shaped Cannulated T30 |  optional |
| 1006010511 | Ratchet-ST Handle Pear Shaped Can. T30 |  optional |

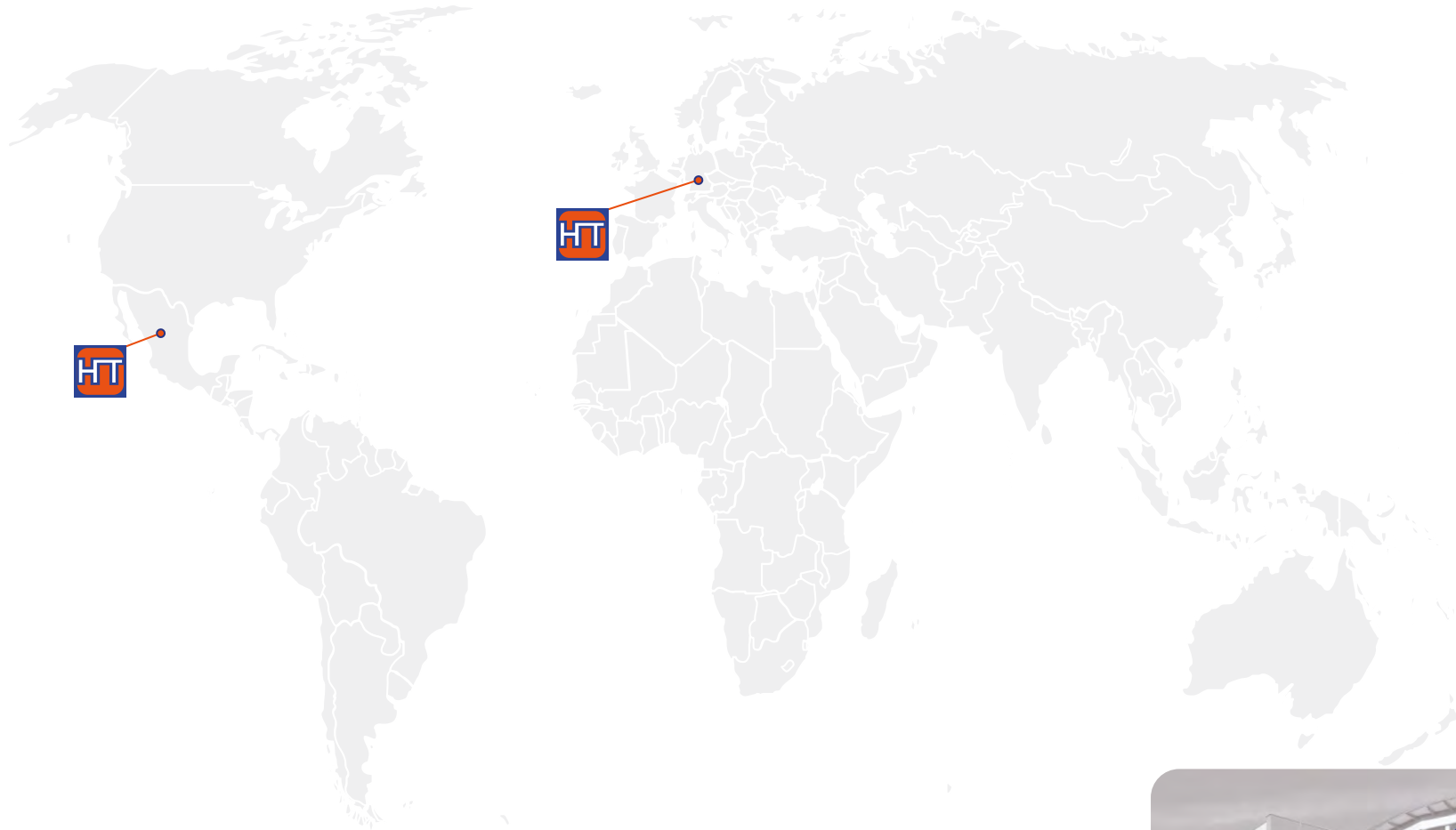


| Art.No. | Description |
|------------|------------------|
| 2200010017 | LP Rod Inserter |
| 2200010018 | LP Rod Bender |
| 2200010019 | LP Rod Pusher |
| 2200010020 | LP Compressor |
| 2200010021 | LP Distractor |
| 2200010022 | LP TC Inserter |
| 2200010023 | LP TC Rod Holder |



| Art.No. | Description |
|------------|------------------------|
| 2200010024 | LP Lamina Finder |
| 2200010025 | LP Pedicle Finder |
| 2200010031 | LP Hook Impactor |
| 2200010030 | LP Hook Holder Curved |
| 055084 | Rod Cutter |
| 2200010055 | Derotation Forceps 4.5 |
| 2200010054 | Torque Driver-10 |





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