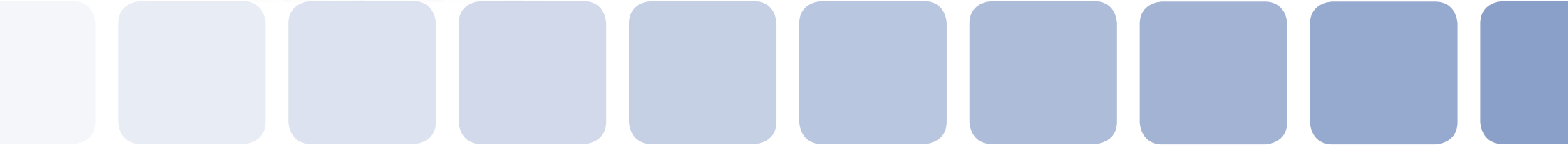




VENUSmini Plus

Add-on kit for long-segment, minimally invasive treatments and distraction/compression



The VENUS®mini pedicle screw fixation system allows minimally invasive, percutaneous correction and stabilisation of the spine in the thoracic and lumbar area and is the logical further development of the innovative design properties of the standard screw system.

It facilitates accurate positioning of the pedicle screws. The head holders are fixed to the screw heads and thus permit uncomplicated, safe guidance during implantation. The rod inserter provides full control and reliable insertion of the rod into the correct position.

The VENUSmini PLUS Add-On Kit is an extension of the existing VENUSmini system. With the extra head holders and longer rods, as many as four segments can now be treated percutaneously and in a minimal invasive manner over a length of up to 300 mm. The extra compression and distraction instrument facilitates enhanced repositioning, thereby increasing once again the variability and intraoperative flexibility.

This allows the surgeon to dissect the area safely and atraumatically. It also provides efficient and stable instrumentation guidance, which protects the ligaments and muscles.

safe

- Safe positioning of the rods through the guidance holes in the head holders
- Extensive options for reposition without enlargement of the incision
- Integrated reposition mechanism for easy manoeuvring of the rod

anatomical

- Minimal muscle trauma thanks to percutaneous technique
- Self-tapping threads without traumatising cutting flutes

transparent

- Colour-coded screws
- Clearly arranged and simple instruments

stable

- Load-optimised implant design
- Head holder and rod holder are designed in such a way that they can withstand the forces required to correct deformities.

flexible

- Versatile application and techniques
- Large selection of implants
- Different spinal segments
- Optimum adaptability to anatomy
- Can be combined with almost all VENUS® implants
- Numerous rod options for different lengths

Six outstanding product features

- 1 No additional skin incision needed to insert the rods
- 2 Pull-out resistance of head holder > 400 N
- 3 Assembly of head holder possible in situ (e.g. during revision surgery)
- 4 Parallel distraction for posterior edge decompression (e.g. for fractures)
- 5 Straightforward, minimally invasive interbody fusion via parallel distraction and compression
- 6 Easy removal of the rod inserter, even where anatomical space is limited

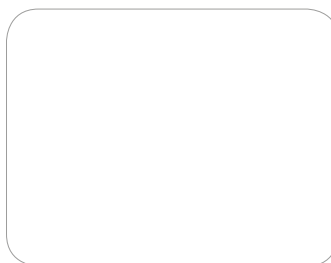
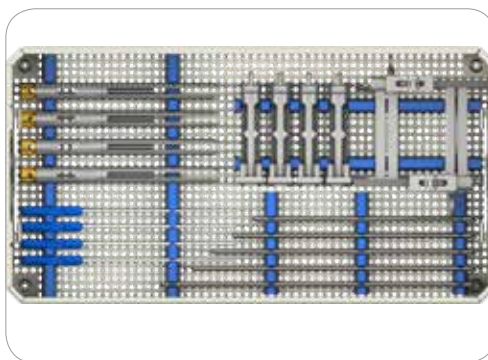
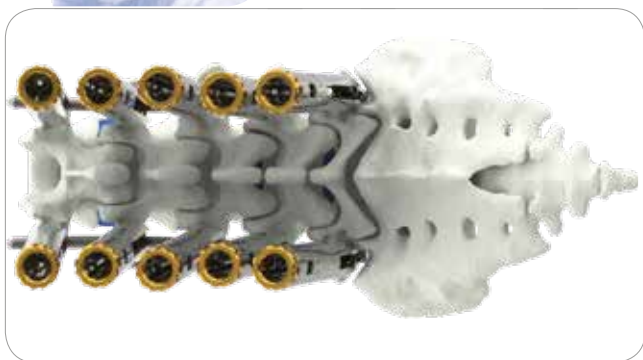




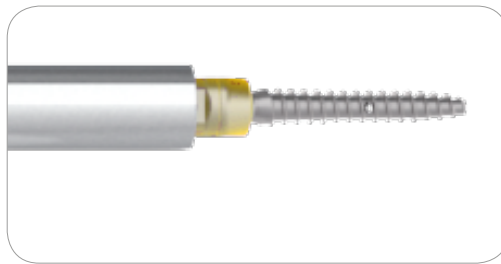
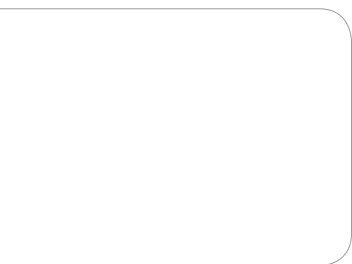
Minimally-invasive fixation system

VENUSmini Plus

Product-specific advantages



- anatomical
- transparent
- stable
- flexible
- safe



Surgical technique



After removing the MIS rod holder

The sequence of surgical techniques up to this point is the same as that in the VENUSmini system.



Inserting the MIS distractor

To distract/compress the vertebrae, the sleeves of the MIS distractor are guided over the head holder. In this process, the pins fixed to the sides of the sleeves are pointing upwards. Then these are pushed into the holes of the distraction unit and locked at the upper connection. Both locking plates can be opened to release the sleeves.

Distraction/compression

By turning the setting wheel, a distraction (or compression as the case may be) can be triggered. Using the lever on the distraction unit you can adjust to enable distraction or compression.

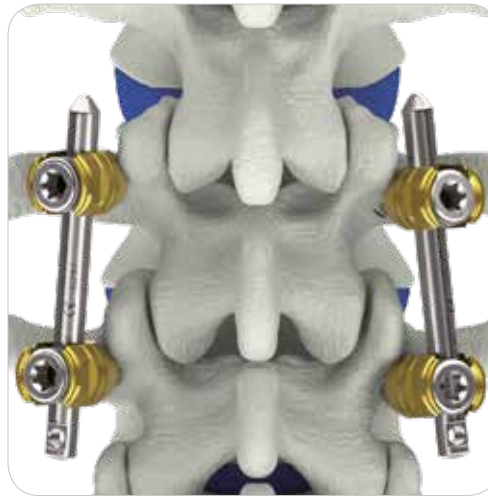
After repositioning, the entire distractor can be removed from the head holders.





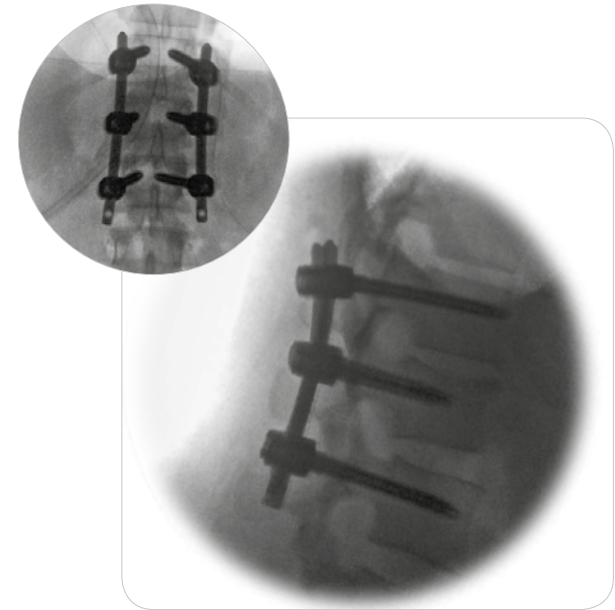
Long rods

The extra MIS head holders and the longer rods now allow up to 4 segments over a length of up to 300 mm to be tended to percutaneously in a minimally-invasive manner.



Final construction



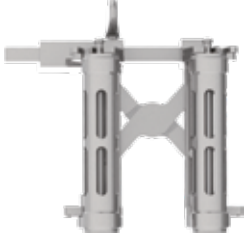




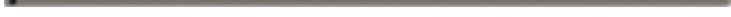
Cleanse the surgical area and close the wound.



Final construction

Final check on the structure with X-ray control images taken in two planes.

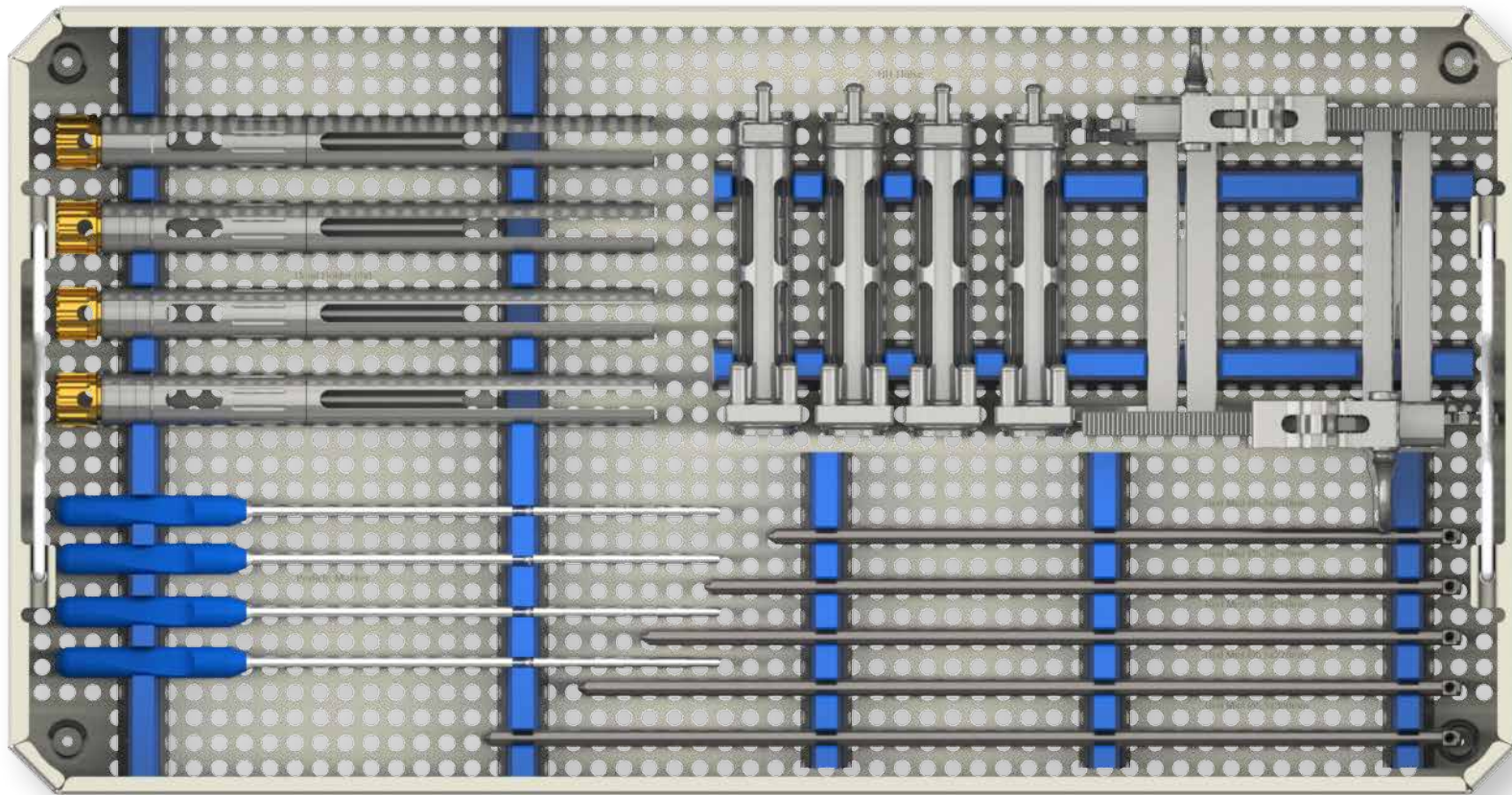


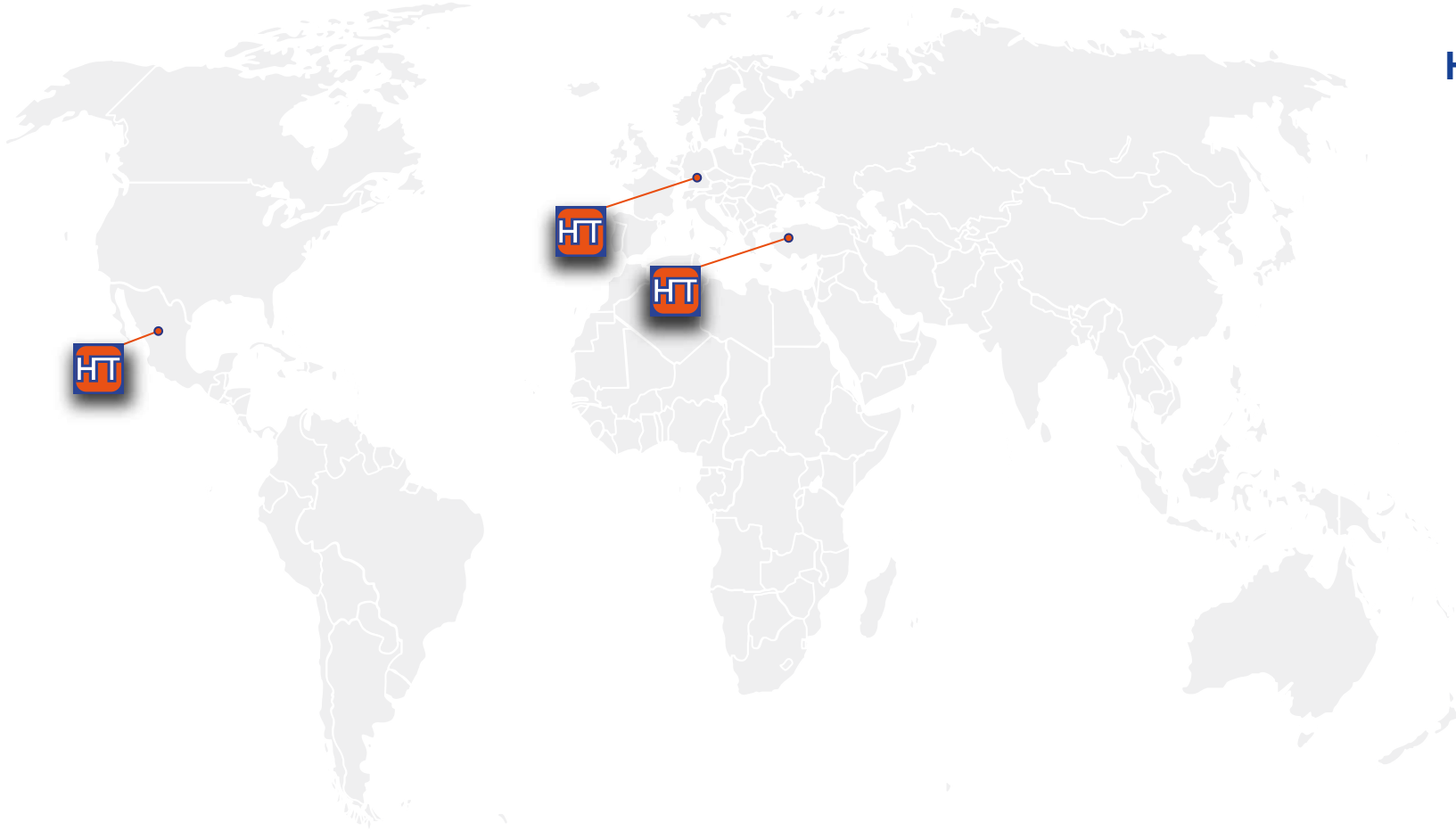
Item no.	Name	
1008010010	MIS head holder (MIS Head Holder)	
1008010013	Pedicule marker (MIS Pedicle Marker)	 <p data-bbox="1469 485 1585 520">optional</p>
1008010020	Distractor (MIS Distractor)	
VL-RM2-5-210	Stab Mini2 Ø 5.5 mm x 210 mm (Rod Mini2 Ø 5.5 mm x 210 mm)	
VL-RM2-5-230	Stab Mini2 Ø 5.5 mm x 230 mm (Rod Mini2 Ø 5.5 mm x 230 mm)	
VL-RM2-5-250	StabMini2 Ø 5.5 mm x 250 mm (Rod Mini2 Ø 5.5 mm x 250 mm)	
VL-RM2-5-270	StabMini2 Ø 5.5 mm x 270 mm (Rod Mini2 Ø 5.5 mm x 270 mm)	
VL-RM2-5-300	Stab Mini2 Ø 5.5 mm x 300 mm (Rod Mini2 Ø 5.5 mm x 300 mm)	



Minimally-invasive fixation system

VENUSmini Plus





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