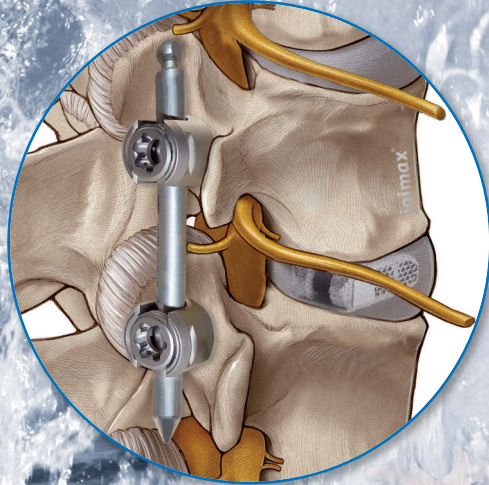


joimax[®]

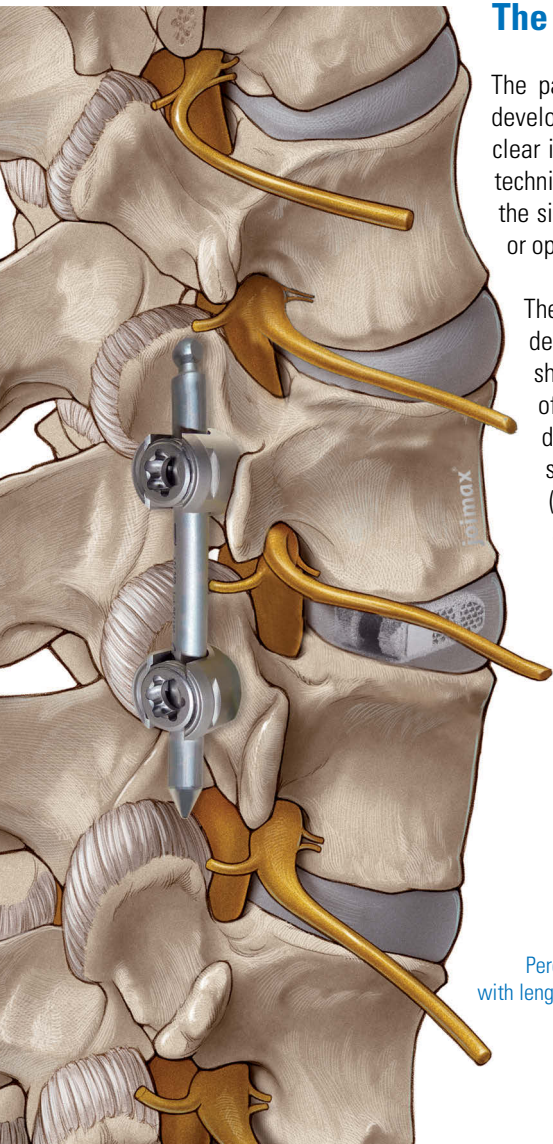


NOT YET FDA CLEARED



Percusys[®]

Percutaneous screw-rod system for
the lumbar dorsal spinal stabilization



The percutaneous posterior stabilization system

The patented Percusys® screw and rod set is developed for vertebral stabilization. The small, clear instrument set is the same for all surgical techniques. Thus it can be decided depending on the situation, whether it is used percutaneously or open.

The Percusys® screws have all the same outer design with the characteristic lengthening shaft. The screws are available in diameters of 5, 6, 7 and 8 mm and depending on diameter lengths from 30 to 55 mm, with screw heads in mono-, poly- and quattoaxial (quattoaxial trans.) design. All screws are also color coded, cannulated, self-tapping and self-drilling and cementable in all

diameters. They are packaged individually and sterilized.

The lengthening shaft allows the percutaneous screw placement and is designed very slim. It serves as a

Indications

- Degenerative instabilities,
- Spondylolisthesis grade I and II (Meyerding)
- Fractures with sufficient anterior support by dislocations
- Unstable vertebral fractures
- Failed previous fusion (pseudarthrosis)
- Spinal tumors (without anterior damage)

Monoaxial
Percusys® screw with lengthening shaft



Polyaxial
Percusys® screw with lengthening shaft (50°)

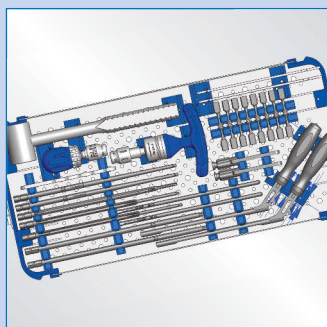


Quattoaxial
Percusys® screw with lengthening shaft (25° / 5°) especially for the sagittal alignment

Quattoaxial trans.
Percusys® screw with lengthening shaft (5° / 25°) especially for derotation



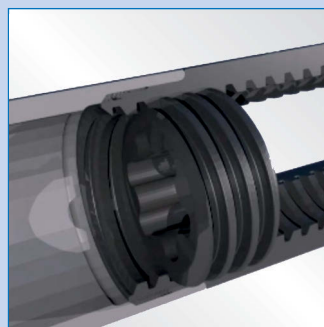
Advantages: efficient, extremely slim and a unique screw design



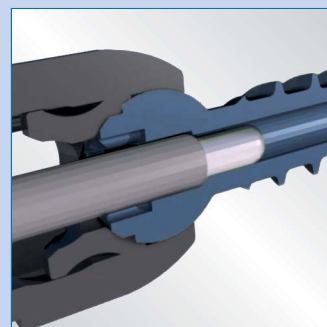
One instrument tray for all screws and common surgical applications. This causes an easy instrumentation, shortens the learning curve and minimizes the reprocessing effort.



All screws are cannulated, fenestrated, self-drilling and self-tapping and provided with a double-barreled thread. The thread design with larger flanks and increased adhesion surface for higher stability in the vertebral body.



Pre-assembled pedicle rod and set-screw that saves surgery steps and offers a wide range of adjustments for the reposition / reduction of vertebrae to restore the physiological alignment – **without additional instruments.**



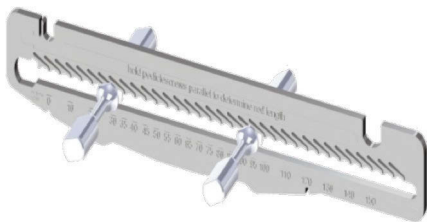
One system for minimally invasive and open surgical techniques. The coupling system inside the screw head for cementing gives more safety during the surgery.

guide for the rod and includes the pre-assembled set-screw. The rods with 5.5 mm diameter are pre-bent lordotically from 30 to 120 mm length. Longer rods in straight version are available from 130 to 300 mm.

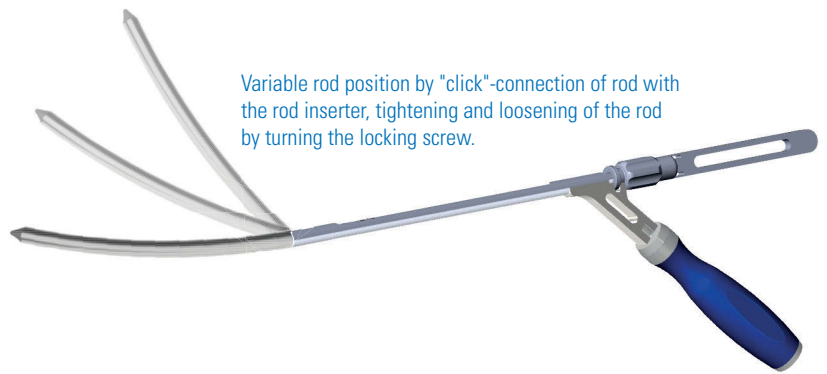
All operation steps are done via the intelligent extension shaft, connected firmly with the tulip, without the use of further instruments: driving the screw into the pedicle, measuring the rod length, cement application – if necessary – insertion of the rod, reduction, distraction and compression, raising the vertebrae to restore the physiological alignment and fixation of the rod.

Once the rods are fixed in the tulip, the rod inserter is decoupled from the rod. The lengthening shaft, which is connected to the tulip by a breakaway, can now be severed burr-free with an instrument through the shaft.

Percusys® is designed to make the surgery easier for the surgeon and offers a more efficient surgical technique with more safety, better control and with less operational steps. The patient benefits seen with shorter rehabilitation period, due to significantly smaller incisions.



Distraction and compression tool with movable pins. Due to their change of position, distraction and compression is easily and individually feasible. The vertebral body reduction is carried out with self holding screwdrivers.



Variable rod position by "click"-connection of rod with the rod inserter, tightening and loosening of the rod by turning the locking screw.



Shearing of the lengthening shaft is possible without effort by a 360° degree rotation of the shaft break-off instrument.

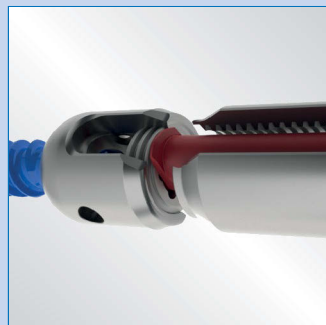


The cage implantation

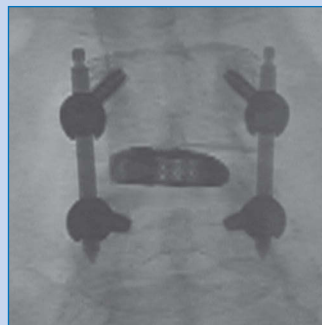
It is recommended to do with the EndoLIF® O(blique) cage. This has been designed specifically for minimally invasive endoscopic fusion surgeries and consists of titanium alloy (Ti6Al4V ELI). More informations on the EndoLIF® method and EndoLIF® implants are available in the EndoLIF® brochure.



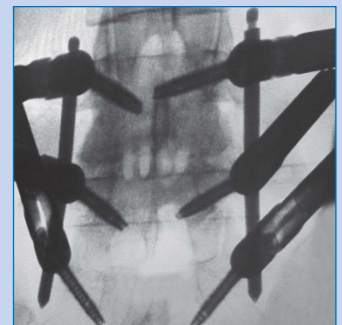
The lengthening shaft – multi-functional and particularly slim design – suitable for all screws and thus reduces the need for (additional) instruments. Due to the rigid connection with the tulip high forces can be transmitted.



Shaft breaker, a special instrument, easy to use with minimal force due to T-handle for controlled burr-free break-off the shaft from the tulip.



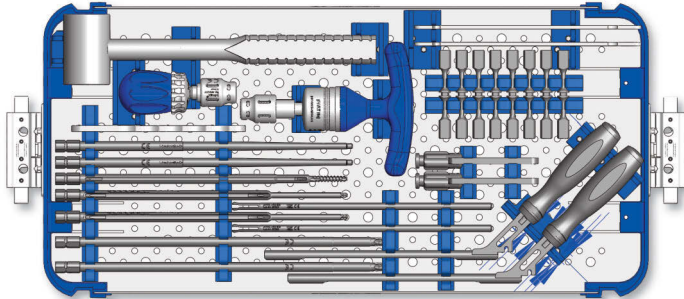
a/p view: single level fusion with the EndoLIF® O-Cage and the Percusys® screw-rod system.



a/p view: bi-segmental supply also with the EndoLIF® O-Cage and the Percusys® screw-rod system.

Percusys® Instrument Set

The Percusys® instrument set includes all the necessary instruments for spine stabilization and is perfectly matched to the latest LIF methods – such as the EndoLIF® O-Cage fusion technique.



REF	Description
JMPS1000ST	Percusys® Instrument Set
	Pedicle opener
	Screw inserter
	Screwdriver set screw
	T-Handle with torque limiter
	Anti torque handle
	Palm handle with ratchet
	Shaft break-off instrument
	Rod inserter, Ø 5.5 mm
	Distraction and compression instrument
	Distraction / Compression Pins
	Metal Hammer, L 225 mm

Optional Instruments

JMPS1031ST	Rod bender, Ø 5.5 mm
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Implants (sterile and single packaged)

Percusys® Rods	
lordotical pre-bent	Ø 5.5 mm, length 30-120 mm
straight	Ø 5.5 mm, length 130-300 mm

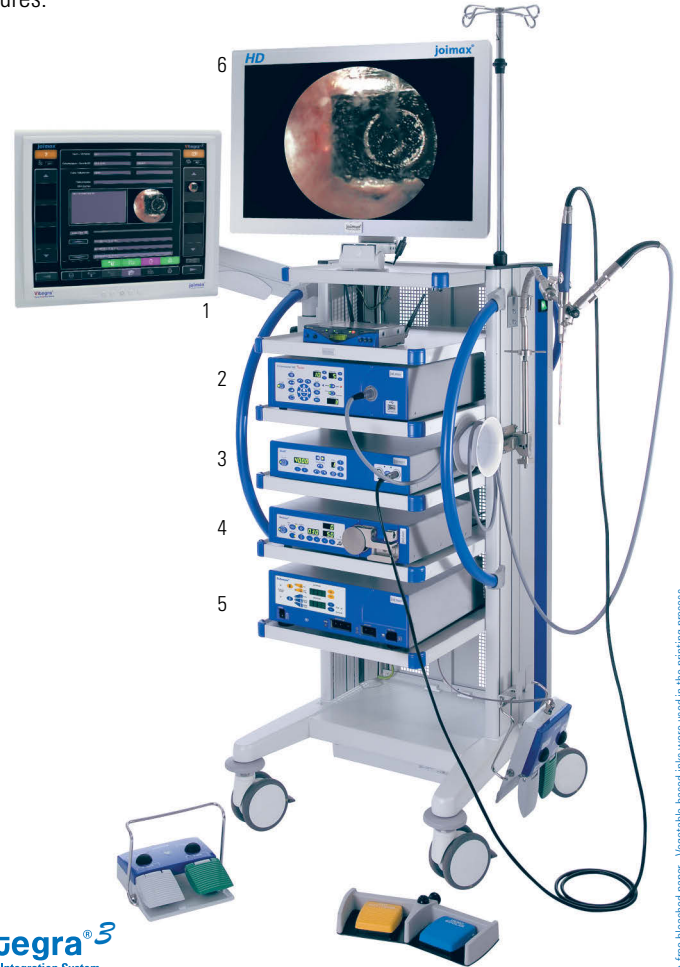
Percusys® Pedicle Screws

mono-, poly-, quattoaxial or quattoaxial trans	Ø 5-8 mm, length 35-55 mm
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All product details see data sheet.

joimax® HD Endoscopy Tower

The expert solution for spinal surgery and neurosurgery. All devices are perfectly matched and designed specifically for sensitive neural structures.



- 1 **Vitegra® 3**
Visual Integration System
- 2 **C-Camsource® HD**
Twister
- 3 **Shrill®**
Shaver Drill System
- 4 **Versicon®**
Versatile Irrigation Control
- 5 **Endovapor®**
Dual High Radio Frequency System
- 6 **JFMS 2410** 24" | **JFMS 4200** 42"
High Definition Flatscreen Monitor | High Definition Flatscreen Monitor



joimax® Percusys® - 07_2014 - BROPERCULEN - Printed on chlorine-free bleached paper - Vegetable-based inks were used in the printing process

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