



CESSYS[®] *Dorsal*
Cervical Endoscopic Surgical System

**Posterior endoscopic access for the treatment
of cervical disc herniations and stenosis**

The new member of the **CESSYS®** family

CESSYS® Dorsal

Ideal for cervical decompression applying a posterior endoscopic access (endoscopic "Frykholm")

The CESSYS® Dorsal method is a full-endoscopic minimally invasive surgical procedure, which uses the posterior access to remove disc herniations or to treat stenosis within the cervical spinal canal. The endoscope and instruments have been optimized in diameter and length for decompression within the cervical spinal canal.

The **working channel** of CESSYS® Dorsal endoscope is **4.7 mm**. This allows the use of large punches, forceps and Shrill® shaver blades with OD 4.5 mm for effective removal of hard tissue like bone or hypertrophic, sclerotized ligamentum flavum. At the same time, the endoscope is still small enough to be ideally suited for working within the cervical spinal canal.

Shrill® Handpiece
with Diamond Abrasor for optimal bone resection

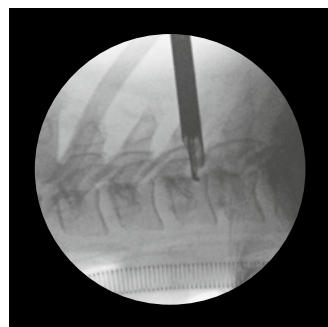
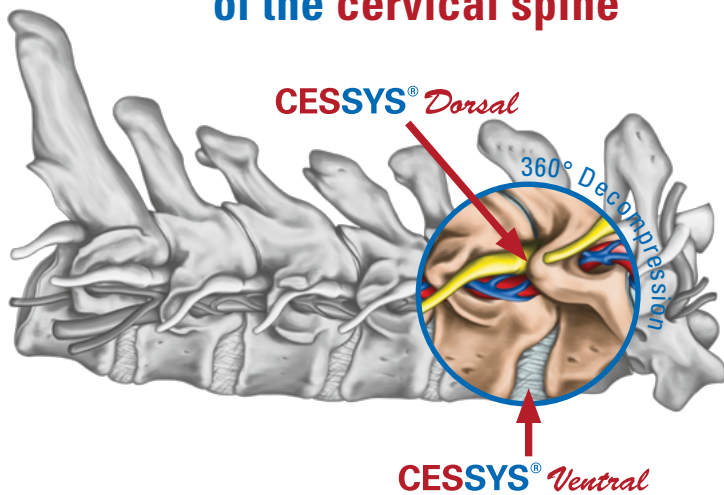
CESSYS® Dorsal FHD Laminoscope 15°
Combo or ocular version
WL 68 mm / WChD 4.7 mm
OD 7.3 mm / 2 x IC 1.5 mm



- Selected Indications**
- Foraminal disc herniations (contained or non-contained)
 - Soft, lateral and medio-lateral herniated discs
 - Foraminal osteophytes with stenosis
 - Cervical recess stenosis
 - Cervical central stenosis

This makes the system particularly suitable for bony decompression (stenosis). The working length of 68 mm and the 15° direction of view of the endoscope makes it excellent for application in the cervical spine using the dorsal approach. Due to irrigation in endoscopic procedures, the visualization is constantly optimized and not compromised by bleeding.

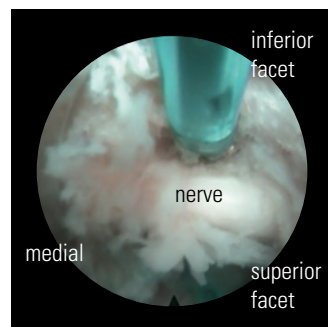
360° decompression of the cervical spine



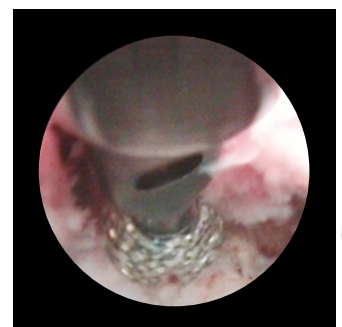
X-ray: Endo-Kerrison



Endoscopic view: Endo-Kerrison



Endoscopic view: Vaporflex® Probe bipolar



Endoscopic view: Shrill® Diamond Abrasor, OD 4.5 mm

The CESSYS® Concept

The CESSYS® methods are exceptionally minimally invasive endoscopic surgical techniques for decompression/deherniation within the cervical spinal canal and as such far less traumatic than microsurgical techniques. The optics of joimax® endoscopes provide an excellent direct view of all structures directly at the site of the surgery. Besides CESSYS® Dorsal using the posterior access, there is another member of the CESSYS® family, the CESSYS® ventral system using the anterior, intradiscal access to the spinal canal. Together both systems realize the joimax® 360° decompression philosophy for the cervical spinal canal. While CESSYS® Ventral with its smaller endoscope and instruments is better suited for removal of small and soft disc herniations in the ventral spinal canal, CESSYS® Dorsal is perfectly suited for treatment of dorsal pathologies such as osseous decompression cases.

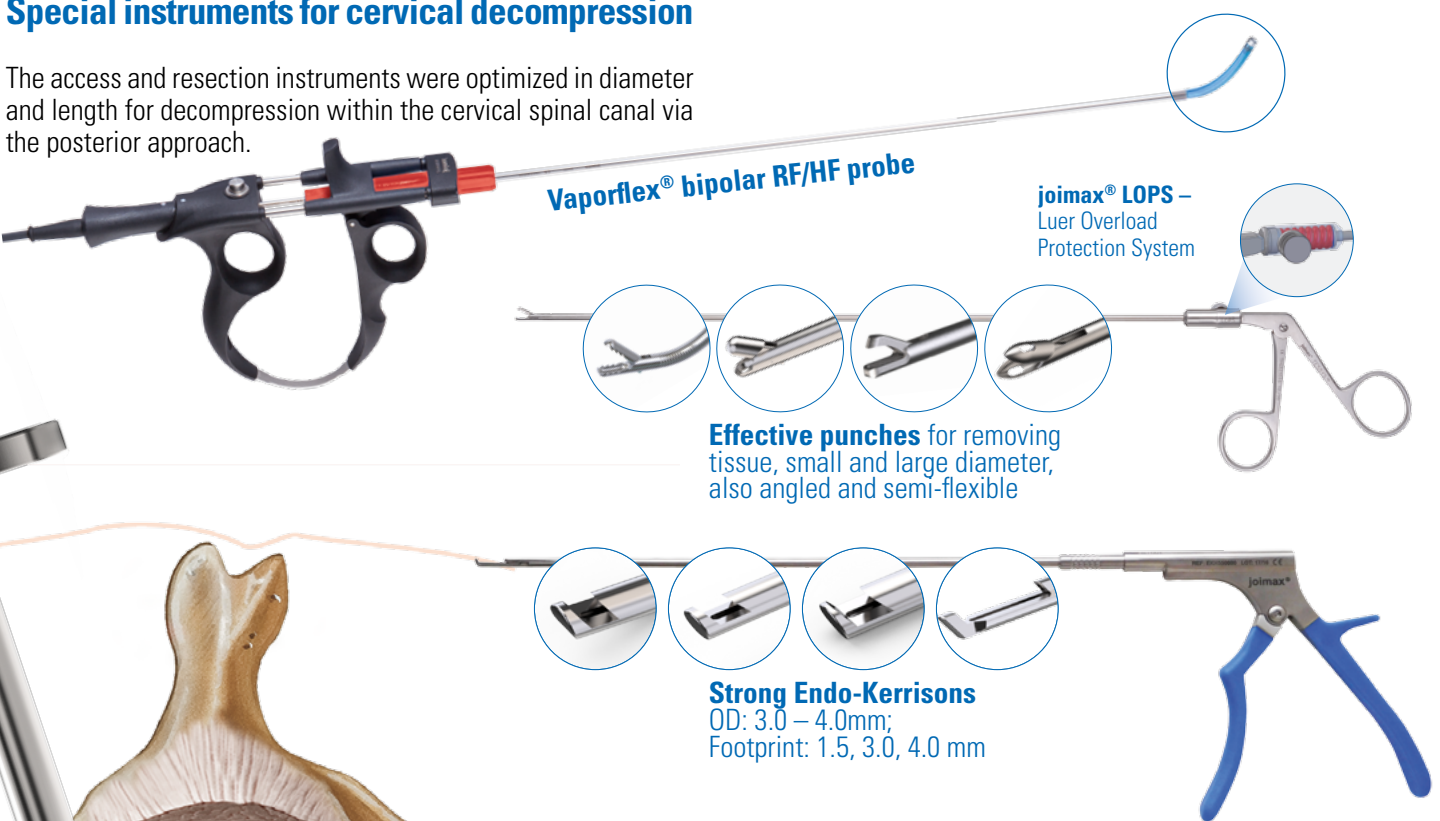
The benefits of endoscopic approaches are evident

- Minimally invasive surgery
- Tissue-conserving surgical access due to gradual dilation
- Visual endoscopic monitoring during the operation
- Minimal destabilization and traumatization
- Stability of spinal column is retained
- Small incision results in less scar tissue
- Reduces the risk of infection
- Short recovery time and rapid return to everyday life

CESSYS® Dorsal INSTRUMENTS

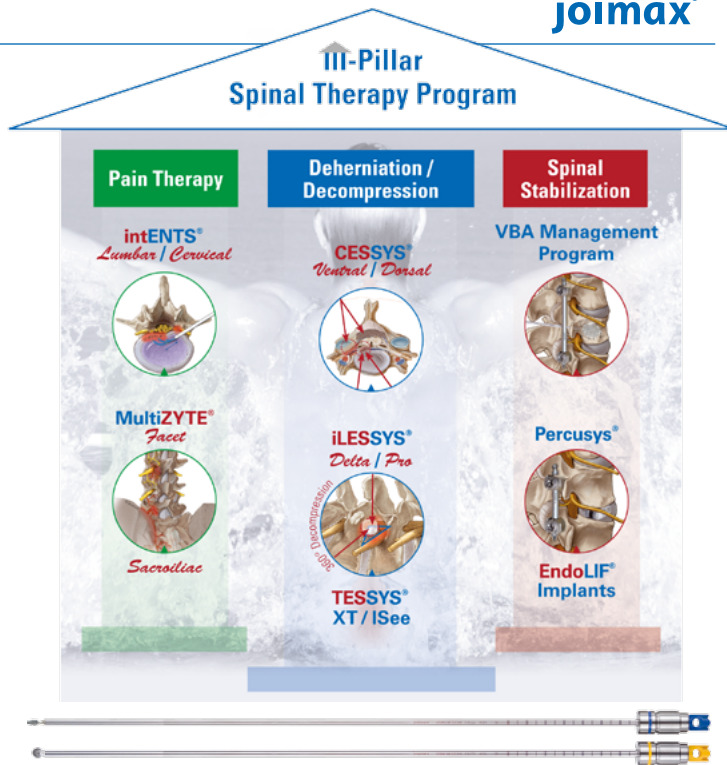
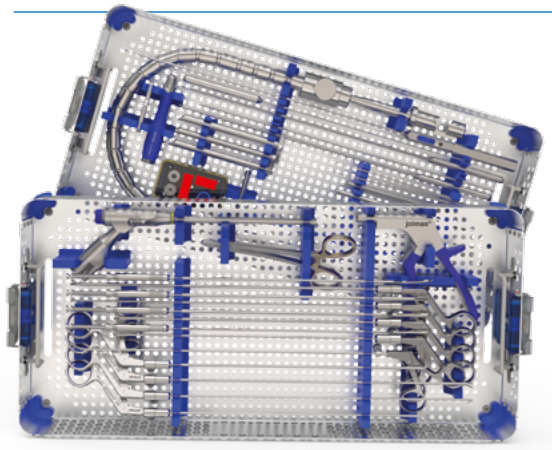
Special instruments for cervical decompression

The access and resection instruments were optimized in diameter and length for decompression within the cervical spinal canal via the posterior approach.



The **Endovapor® 2** is a smart all-in-one RF generator with an intuitive and easy-to-operate user concept including the latest functionalities. All device settings are pre-programmed for numerous standard procedures. The modes Spine-Vap or Spine-Coag are used to operate the Vaporflex® RF-Probes.





REF	Description
CESSYS DORS	Instrument Set incl. Container, without Laminoscope
LS7347068C	Full HD Laminoscope for CESSYS® Dorsal, Combo*
LS7347068O	Full HD Laminoscope for CESSYS® Dorsal, Ocular*

*Working Length (WL) 68 mm, Outer Diameter (OD) 7.3 mm, Working Channel Diameter (WChD) 4.7 mm, Optical angle 15°, 2 x Irrigation Channel Diameter (IC) 1.5 mm

Disposables

JSBDA194543	Diamant Abrasor, Ball Tip	L 185 mm / OD 4.5 mm / Ball OD 4.3 mm
JSBDA194543C	Diamant Abrasor, Ball Tip, coarse	L 185 mm / OD 4.5 mm / Ball OD 4.3 mm
JSBBT194543	Bone Resector, Bullet Tip	L 185 mm / OD 4.5 mm / Bullet OD 4.3 mm
JVP28024	Vaporflex® Probe bipolar, Ball Tip	WL 275 mm / max. 1200 Vp

Handpieces

JVUH10010	Vaporflex® Handle	
JVHS28030	Vaporflex® Shaft 275	WL 275 mm / OD 3.0 mm
JVC35020	Vaporflex® Cable for Endovapor® 2	L 3.5 m
Other cables are available on request.		
JVK2-280	Vaporflex® KIT 2 incl. Vaporflex® Handle, Shaft, Cable, Sterilization Tray and spare sealing rings.	



4K Endoscopic Tower

The expert solution for spinal surgery and neurosurgery. All devices work in unison with one another and are designed specifically for the treatment of sensitive structures.

joimax® Training Program
joimax® provides a 3-step training concept to learn the CESSYS® technique and all the other surgical techniques.
Find out more: www.joimax.com/workshops



joined minimal access

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