

iLESSYS[®] Pro

Interlaminar Endoscopic Surgical System

**Interlaminar endoscopic access for
the treatment of herniated discs and stenosis**

A Member of the iLESSYS® Family

iLESSYS® Pro

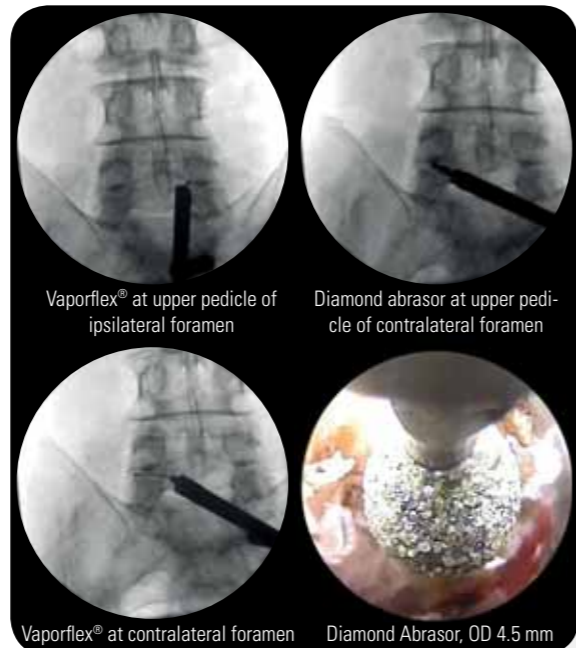
The iLESSYS® method is an endoscopic minimally invasive surgical procedure, which uses the interlaminar access path to remove disc herniation or treat stenosis. With the iLESSYS® Pro instrument set, joimax® expands its iLESSYS® system family for the interlaminar endoscopic access. The endoscope and instruments for access and resection have been optimized for decompression within the spinal canal in collaboration with **Dr. Christoph Hofstetter**. The new set exhibits excellent properties especially for ipsi- and contralateral intraspinal bony decompression and deherniation. Another focus of development was the aspect of surgical efficiency, streamlining of the procedure and improvement of ergonomics.

Selected Indications:

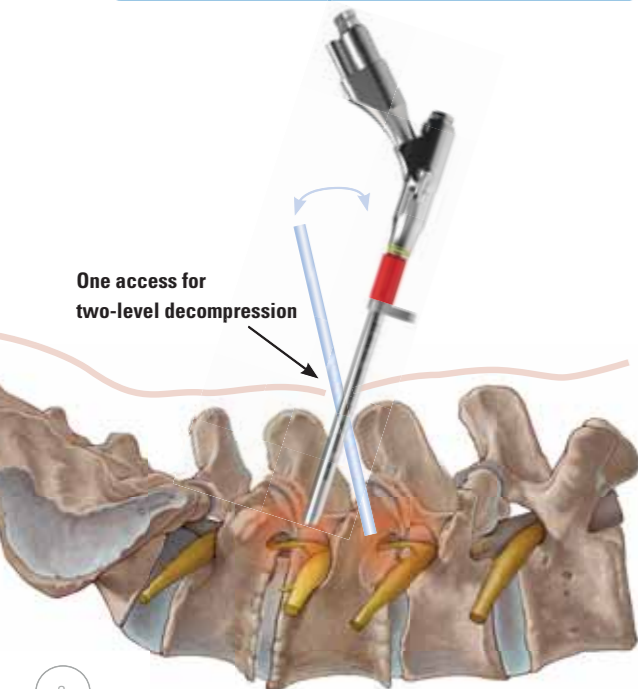
- Lumbar herniated discs dorsal and lateral to the spinal nerves
- Spinal stenosis grade A1-4
- Hypertrophic ligamentum flavum
- Facet joint cysts
- Lumbar central stenosis and recessus stenosis
- Foraminal stenosis both sides

Ideal for intraspinal, ipsi- and contralateral decompression and deherniation

The working channel of iLESSYS® Pro Laminoscope is **4.7 mm**. This allows the use of large punches, forceps and shaver blades 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 spinal canal. The working length of 150 mm and the 15° direction of view makes it excellent for contralateral procedures without compromises for optimal ipsilateral application. Due to irrigation in endoscopic procedures, the visualization is constantly optimized and not compromised by bleeding. The instrument set and scope are ideal for treatment of osseous stenosis and disc herniations.



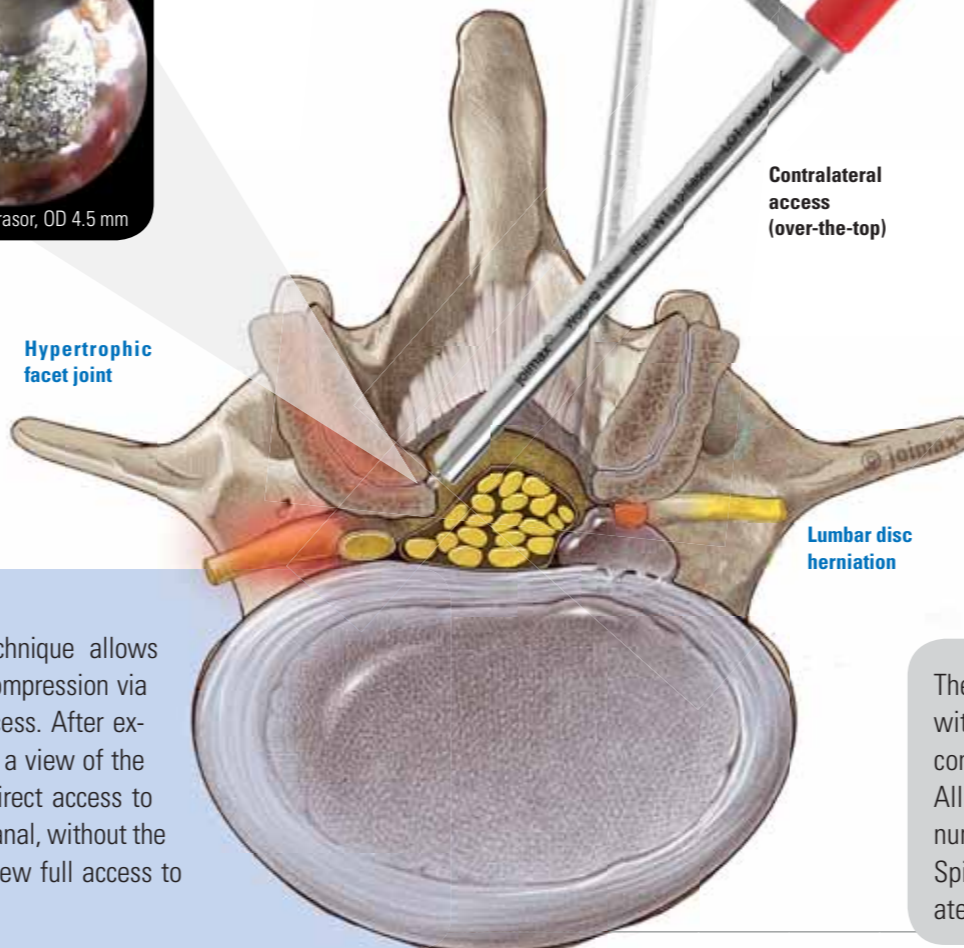
Source: Dr. Wagner, Frankfurt a.M.



Over-the-top technique

The over-the-top or cross-over technique allows for the treatment of a bilateral decompression via a unilateral endoscopic surgical access. After extension of the interlaminar window, a view of the contralateral side is present. The direct access to the contralateral side of the spinal canal, without the need for a second incision, offers new full access to the decompression.

Hypertrophic facet joint



The iLESSYS® Concept

The iLESSYS® method is an exceptionally minimally invasive endoscopic surgical technique for pathologies of the dorsal spinal canal, especially in the lower lumbar spinal column due to the large interlaminar window. As an endoscopic minimally invasive surgical procedure, it is far less traumatic than microsurgical techniques. The optics of joimax® laminoscope (endoscope) provide an excellent direct view of all structures at the site of the surgery. Besides iLESSYS® Pro, there are two other members of the iLESSYS® family, iLESSYS® and iLESSYS® Delta. The iLESSYS® instrument set with the smaller laminoscope is ideally suited for the treatment of disc herniations, dorsal facet joint cysts and mild-to-moderate stenosis. The iLESSYS® Delta System is particularly suited for large-area osseous decompression.

iLESSYS® Pro FHD Laminoscope 15°,
 Combo or ocular version
 WL 150 mm
 WChD 4.7 mm
 OD 7.3 mm
 2 x IC 1.5 mm

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, therefore hardly any scar tissue
- Reduced risk of infection
- Short recovery time and rapid return to everyday life

Instruments

The access instruments were ergonomically optimized and the resection instruments, such as the Endo-Kerrisons and punching forceps, were specifically adapted for this application.

joimax® LOPS –
 Luer Overload Protection
 System

Effective punches for removing tissue, small and big diameter, also angled and semi-flexible

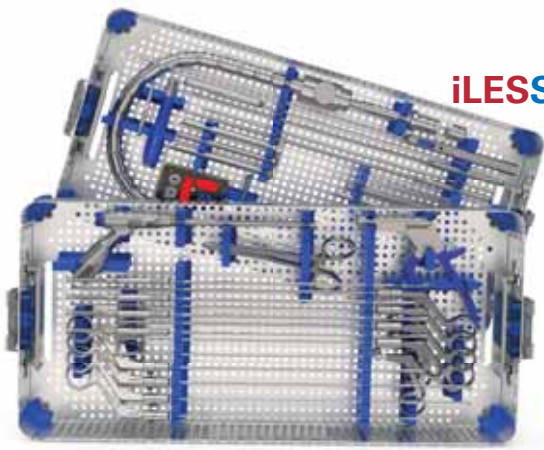
Strong Endo-Kerrisons
 OD: 3.0 – 4.0mm;
 Footprint: 1.5, 3.0, 4.0 mm

Vaporflex® bipolar RF/HF probe

Vaporflex® probe bipolar

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.





iLESSYS® Pro – INSTRUMENT SET

joimax®



REF Description

ILESSYSPRO Instrument Set incl. Container, without Laminoscope

LS7347150C Full HD Laminoscope for iLESSYS® Pro, Combo*

LS7347150O Full HD Laminoscope for iLESSYS® Pro, Ocular*

*Working Length (WL) 150 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

Shrill® Deflector

JSBDS2745 Deflector Shaft L 265 mm / OD 4.5 mm



Disposables

JSBDD3115 Deflector Diamond Abrasor L 310 mm / Ball OD 4.5 mm / steerable
Also available: Deflector Bone Resector Ball Tip and Bullet Tip Shaver Blades.

JSBBR274543 Bone Resector, Ball Tip L 265 mm / OD 4.5 mm / Ball OD 4.3 mm

JSBBT274543 Bone Resector, Bullet Tip L 265 mm / OD 4.5 mm / Ball OD 4.3 mm

JSBDA274544C Diamond Abrasor, Ball Tip, Coarse L 265 mm / OD 4.5 mm / Ball OD 4.4 mm

JVP28024 Vaporflex® Probe bipolar, Ball Tip WL 275 mm / max. 1200 Vp

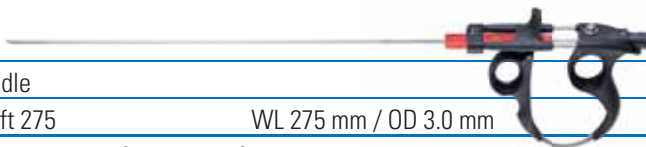
Handpieces

JVUH10010 Vaporflex® Handle

JVHS28030 Vaporflex® Shaft 275 WL 275 mm / OD 3.0 mm

JVC35020 Vaporflex® Cable for joimax® Endovapor® 2 L 3.5 m
Other cables are available on request.

JVK2-280 Vaporflex® Kit 2 for joimax® Endovapor® 2 incl. Vaporflex® Handle, Shaft, Cable, Sterilization Tray and Spare Sealing Rings.



Full HD Endoscopy Tower

The optimal solution for spinal surgery and neurosurgery. All devices are aligned with each other. They are designed specifically for treatment of sensitive structures.

joimax® provides a 3-step training concept to learn the iLESSYS® techniques.

Find out more: www.joimax.com/workshops



joimax® GmbH
Amalienbadstrasse 41, RaumFabrik 61
76227 Karlsruhe, Germany

Phone +49 (0) 721 255 14-0
Fax +49 (0) 721 255 14-920
E-Mail info@joimax.com
Net www.joimax.com

joimax®, Inc.
140 Technology Drive, Suite 150
Irvine, CA 92618, USA

Phone +1 949 859 3472
Fax +1 949 859 3473
E-Mail info@joimaxusa.com
Net www.joimax.com

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