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

**iLESYS® Pro**
Interlaminar Endoscopic Surgical System

**NEW**
The New 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 new 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 channel 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.

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.

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

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.

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.

INSTRUMENTS

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The benefits of endoscopic approaches are evident:
- Minimally invasive surgery
- Tissue-conserving surgical access due to gradual dilatation
- 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.

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

Strong Endo-Kerrisons

Vaporflex® at upper pedicle of ipsilateral foramen
Diamond Abrasor at upper pedicle of contralateral foramen

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

Laminoscope 15°, (over-the-top)

Lumbar disc herniation

The Endovapor® 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**

<table>
<thead>
<tr>
<th>REF Description</th>
<th>LS7347150C: Full HD Laminoscope for iLESSYS® Pro, Combo*</th>
<th>LS7347150O: Full HD Laminoscope for iLESSYS® Pro, Ocular*</th>
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<tbody>
<tr>
<td>Shrill® Deflector</td>
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<tr>
<td>JSBD0274545 Deflector Shaft</td>
<td>L 265 mm / OD 4.5 mm</td>
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<tr>
<td>Disposables</td>
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<tr>
<td>JSBD03115 Deflector Diamond Abrasor</td>
<td>L 310 mm / Ball OD 4.5 mm / steerable Deflector Bone Resector Ball- and Bullet Tip Shaver Blades</td>
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<tr>
<td>JSBBR274543 Bone Resector, Ball-Tip</td>
<td>L 265 mm / OD 4.5 mm / Ball OD 4.3 mm</td>
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<tr>
<td>JSBBTT274543 Bone Resector, Bullet-Tip</td>
<td>L 265 mm / OD 4.5 mm / Ball OD 4.3 mm</td>
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<tr>
<td>JSBDA274544 Diamond Abrasor, Ball-Tip</td>
<td>L 265 mm / OD 4.5 mm / Ball OD 4.4 mm</td>
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<tr>
<td>JSBDA274544C Diamond Abrasor, Ball-Tip, Coarse</td>
<td>L 265 mm / OD 4.5 mm / Ball OD 4.4 mm</td>
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<tr>
<td>JWPI204 Vaporflex® Probe bipolar, Ball Tip</td>
<td>W 275 mm / max. 1200 Vp</td>
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<tr>
<td>Handpieces</td>
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<tr>
<td>JWUH10010 Vaporflex® Handle</td>
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<tr>
<td>JWHS28030 Vaporflex® Shaft 275</td>
<td>W 275 mm / OD 3.0 mm</td>
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<tr>
<td>JVC35020 Vaporflex® Cable for Endovapor® 2</td>
<td>L 3.5 m</td>
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<tr>
<td>JWK2-280 Vaporflex® KIT 2 incl. Vaporflex® Handle, Shaft, Cable, Sterilization Tray and spare sealing rings</td>
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</table>

**joimax® Education Program**

joimax® provides a 3-step training concept to learn the iLESSYS® technique. Find out more: [www.joimax.com/workshops](http://www.joimax.com/workshops)

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