The new concept of gasless laparoscopy with the Abdo-Lift™

EndoSurgery Ltd., Germany

Illustrated Catalog for Abdo-Lift™ Set, Instruments and Trocars
Lift – Laparoscopy

Lift-Laparoscopy: The new concept of gasless laparoscopy with the Abdo-Lift™

The ABDO-LIFT™ (a reusable abdominal wall retraction system) allows the modern imaging technology of laparoscopy to be combined with standard techniques and operation methods using conventional instruments. This technique is a cost-effective procedure which offers enormous benefits for the patient, surgeon, hospital and health care system. On one hand, the gasless technique enables a simple, effective and economical introduction into surgical laparoscopy, and on the other hand it allows an extension of the spectrum of indications for minimally invasive operations. The working space required for the endoscopic operation is created by raising the abdominal wall mechanically, and because a pneumoperitoneum is not created, flexible, valve-free trocars can be used. This concept of gasless laparoscopy allows numerous intraoperative problems specific to carbon dioxide laparoscopy (due to gas losses, irrigation, aspiration or during the retrieval of tumors or organs) to be avoided. In addition to conventional instruments which, because of their size and shape, are usually used in open surgery, the valve-free trocar allows the introduction of several endoscopic instruments simultaneously, a fact which significantly improves operation versatility. The exchange of instruments is much quicker, and suturing or knot tying procedures can be carried out more easily. The potential to carry out laparovaginal combined operations also opens up new approaches for minimally invasive surgery. Problems and complications arising from iatrogenic insufflation of carbon dioxide are also completely eliminated, so that minimally invasive operations can also be performed in risk patients (cardiac insufficiency or obstructive lung disease) or during pregnancy. The potential for carrying out operative laparoscopy under local anesthesia, i.e. the combination of minimally invasive surgery with a minimally invasive anesthesia, will also create new challenges. Results of experimental studies on animals indicate that application of a gasless technique might prove beneficial for oncological indications, in view of the fact that carbon dioxide exerts an, as yet unexplainable, effect on tumor cell spreading and tumor cell implantation. Because of the surgery-related benefits and other special features, the primary indications for applying gasless laparoscopy technology in gynecology are:

- Myoma enucleation (sufficient conventional suturing possible) and other organ conserving interventions (e.g. cyst enucleation) or organ restoration operations (e.g. refertilizations)
- Total and / or supracervical hysterectomy
- Combined laparovaginal operations (e.g. excision of rectovaginal endometrioses and laparoscopically-assisted vaginal hysterectomy)
- Surgical abdominal interventions from general, urologic and pediatric
- Surgical and diagnostic interventions in tumor surgery (removal of adnexa tumors, pelvic lymphadenectomies in combination with vaginal hysterectomies
- Surgical and diagnostic interventions in risk-group patients and during pregnancy (also possible with local anesthesia)

D. KRUSCHINSKI, M. D., Endoscopic Gynecology Centers, Germany
Abdo-Lift™ System complete
Consisting of:

- LL 1000 A: Crossbar
- LL 1000 B: Lifting instrument (Retractor) size 8
- LL 1000 C: Spring Scale
- LL 1000 D: Lifting instrument (Retractor) size 10
- LL 1000 S: Support
Trocars for Lift - Laparoscopy

LL 1001 TRA

LL 1001 TRAC5  Trocar, with flexible silicone cannula, size 12 mm consisting of:
LL1001 TRAC5A Flexible Silicone Cannula, length 5 cm
LL1001 TRAC5B Trocar, only, with conical tip

LL 1001 TRAB5  Trocar, with flexible silicone cannula, size 12 mm consisting of:
LL1001 TRAC5A Flexible Silicone Cannula, length 5 cm
LL1001 TRAC5C Trocar, only, with blunt tip

LL 1001 TRAC7  Trocar, with flexible silicone cannula, size 12 mm consisting of:
LL1001 TRAC7A Flexible Silicone Cannula, length 7 cm
LL1001 TRAC7B Trocar, only, with conical tip

LL 1001 TRAB7  Trocar, with flexible silicone cannula, size 12 mm consisting of:
LL1001 TRAC7A Flexible Silicone Cannula, length 7 cm
LL1001 TRAC7C Trocar, only, with blunt tip
Lift - Laparoscopy
Special S-shaped hooks and scissors

LL 1001 SH

LL 1001 SH

S-shaped hooks

LL 1001 MS

LL 1001 MS

METZENBAUM Scissors, curved,
length 18 cm

LL 1001 SH

LL 1001 SH

Sponge Holder / Forceps, 1 x 2 teeth,
length 26 cm
Lift - Laparoscopy Instruments

**LL 1001 NH**

**Needle Holder**, with ratchet, length 26 cm

**LL 1001 BD**

**Bozeman-Douglas Clamp**, strong, curved, length 26 cm
Lift - Laparoscopy Instruments

LL 1001 ATS

LL 1001 TF  **Tenaculum Forceps**, length 26 cm

LL 1001 ATS

LL 1001 CF  **Claw Forceps**, length 26 cm

LL 1001 ATS

LL 1001 ATS  **Atraumatic Clamp**, length 26 cm
Lift - Laparoscopy Instruments

**LL 1001 ATC**

**Atraumatic Clamp**, curved, length 26 cm

**LL 1001 MF**

**Myoma Fixation Instrument**, curved, length 30 cm

**LL 1001 KT**

**Knot tier**, size 5mm, length 36 cm
**Lift - Laparoscopy**  
**Instruments - Set**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LL 1000</td>
<td><strong>Abdo-Lift™ System</strong> complete</td>
</tr>
<tr>
<td>1</td>
<td>LL 1001 TRAC5</td>
<td><strong>Trocar</strong>, with <strong>conical tip</strong> and with <strong>flexible silicone cannula</strong>, size 12 mm, length 5 cm</td>
</tr>
<tr>
<td>1</td>
<td>LL 1001 TRAB5</td>
<td><strong>Trocar</strong>, with <strong>blunt tip</strong> and <strong>flexible silicone cannula</strong>, size 12 mm, length 5 cm</td>
</tr>
<tr>
<td>1</td>
<td>LL 1001 TRAC7</td>
<td><strong>Trocar</strong>, with <strong>conical tip</strong> and <strong>flexible silicone cannula</strong>, size 12 mm, length 7 cm</td>
</tr>
<tr>
<td>1</td>
<td>LL 1001 TRAB7</td>
<td><strong>Trocar</strong>, with <strong>blunt tip</strong> and <strong>flexible silicone cannula</strong>, size 12 mm, length 7 cm</td>
</tr>
<tr>
<td>2</td>
<td>LL 1001 TRAC5D</td>
<td><strong>Flexible Silicone Cannula</strong>, length 5 cm</td>
</tr>
<tr>
<td>2</td>
<td>LL 1001 SH</td>
<td><strong>S-shaped hooks</strong></td>
</tr>
<tr>
<td>1</td>
<td>LL 1001 MS</td>
<td><strong>METZENBAUM Scissors</strong>, curved, length 18 cm</td>
</tr>
<tr>
<td>2</td>
<td>LL 1001 SH</td>
<td><strong>Sponge Holder / Forceps</strong>, 1 x 2 teeth, length 26 cm</td>
</tr>
<tr>
<td>1</td>
<td>LL 1001 NH</td>
<td><strong>Needle Holder</strong>, with ratchet, length 26 cm</td>
</tr>
<tr>
<td>2</td>
<td>LL 1001 BD</td>
<td><strong>Bozeman-Douglas Clamp</strong>, strong, curved, length 26 cm</td>
</tr>
<tr>
<td>1</td>
<td>LL 1001 TF</td>
<td><strong>Tenaculum Forceps</strong>, length 26 cm</td>
</tr>
<tr>
<td>1</td>
<td>LL 1001 CF</td>
<td><strong>Claw Forceps</strong>, length 26 cm</td>
</tr>
<tr>
<td>1</td>
<td>LL 1001 ATS</td>
<td><strong>Atraumatic Clamp</strong>, length 26 cm</td>
</tr>
<tr>
<td>1</td>
<td>LL 1001 ATC</td>
<td><strong>Atraumatic Clamp</strong>, curved, length 26 cm</td>
</tr>
<tr>
<td>1</td>
<td>LL 1001 MF</td>
<td><strong>Myoma Fixation Instrument</strong>, curved, length 30 cm</td>
</tr>
<tr>
<td>1</td>
<td>LL 1001 KT</td>
<td><strong>Knot tier</strong>, size 5mm, length 36 cm</td>
</tr>
</tbody>
</table>

This instrument set allows you to start Lift-Laparoscopy. You can handle every case, ligatures are made by sutures.

To order additionally **silicon canulas**, which are disposable:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LL 1001 TRAC5A</td>
<td><strong>Flexible Silicone Cannula</strong>, length 5 cm</td>
</tr>
<tr>
<td>LL 1001 TRAC7A</td>
<td><strong>Flexible Silicone Cannula</strong>, length 7 cm</td>
</tr>
</tbody>
</table>
Gasless Laparoscopic Diathermy Operation - Instruments
are bipolar clamps and scissors for safe coagulation and cutting at the same time, without a change of instruments to decrease procedure time.

In order to coagulate and cut structures, you can purchase additionally the bipolar GlaDiaThOr – Instruments for coagulation and dissect structures.

<table>
<thead>
<tr>
<th></th>
<th><strong>LL1002 GF</strong></th>
<th>Bozemann-Douglas forceps, double jointed, bipolar, length 26 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>LL1002 GS</strong></td>
<td>Scissors, double jointed, bipolar, length 26 cm</td>
</tr>
</tbody>
</table>

This instruments can be used around 30 times, which depends on the procedures of manipulation.
The Abdo-Lift™ and all instruments can be prepared for instrumentation

The Abdo-Lift™ and all components can be stored for sterilisation in an ordinary sterile container
Lift – Laparoscopy
Other basic instruments for laparoscopy

Conditio sine qua non for starting laparoscopy is that you need following instruments to approach the abdominal cavity:

Backhaus forceps
Pincettes

And a basic tool for endoscopy:

Endoscope
Light cable
Suction irrigation handle
Camera system
Bipolar forceps
Suction canula

As well as:

Endoscopic camera
Bipolar generator
Suction / Irrigation device
Light source

But than that's all you need to start laparoscopic surgery!
Lift - Laparoscopy

The new concept of gasless laparoscopy with the Abdo-Lift™

EndoSurgery Ltd., Germany

Email: info@EndoSurgery.de
Fax: +49 69 2557 7150