Dispo Balloon Systems
The disposable solution
ready for immediate use
PAJUNK® Dispo balloon systems
Solutions for extraperitoneal and abdominal surgery

PAJUNK® has made a name for itself with its balloon systems for extraperitoneal and abdominal surgery. These proven system solutions combine two core competences of PAJUNK®: The know-how from many years of production of laparoscopic instruments and the development competence for balloon systems in a very wide range of fields of application. Optimum production conditions that satisfy the highest demands on clean room technology form the basis of the quality guarantee for the high-grade products „Made in Germany“.

The PAJUNK® Dispo balloon system offers the surgeon sterile packed disposable solutions for a wide range of applications that are ready for immediate use. There are two distinct types: “space-creating balloons” and “balloons to secure working access”.

Space-creating balloons
 Mono balloon systems
with standard seal

Unilateral dilation balloon, extra large

Bilateral dilation balloon
Balloons to secure working access

Mono balloon system
with standard seal

Ring-anchor balloon system
URO ring-anchor balloon system
Structural balloon system

Vario balloon system
with universal double seal

Ring-anchor balloon system
Ring-anchor balloon system PROTECT
URO ring-anchor balloon system
URO ring-anchor balloon system PROTECT

Available working lengths:
80 mm und 105 mm

Available working channels:
Ø 5.8 mm und Ø 11 mm

Key

Available working lengths:
80 mm und 105 mm

Available working channels:
Ø 5.8 mm Vario balloons
Ø 11 mm Vario balloons
Ø 11 mm Mono balloons
The whole spectrum

Space-creating balloons

The PAJUNK® space-creating balloon systems permit optimum, fast and effective dissection of the preperitoneal space with direct visualisation. They make orientation much easier. Two different balloon forms are available for unilateral and bilateral hernias.

Two different balloon forms for unilateral and bilateral hernias
Unilateral dilation balloon, extra large

Bilateral dilation balloon
Mono and Vario balloon systems
To secure working access

PAJUNK® offers two different balloon systems to secure working access: the structural balloon system and the ring-anchor balloon system that in addition to the extraperitoneal field can also be used in abdominal surgery. Mono balloons have a tried and tested standard seal system with a silicone valve, and Vario balloon systems have a universal double seal system.

Benefits of PAJUNK® balloons:
- Atraumatic geometry
- Considerate gas-tight sealing
- Stability, minimised risk of collapsing balloon

Mono balloon system
with standard seal
Vario balloon system with universal double seal

Lockable obturator
A bayonet lock connects the obturator securely to the valve housing when it is fully inserted. Easy to unlock, it just needs a twist.

Universal seal
All instruments with diameters between 5 and 11 mm can be inserted so that they are completely gas-tight.

PROTECT tip
The obturator is also available with the PROTECT tip. This allows the balloon system to be placed and dilated without causing trauma as the tip is blunt.

Securing working access in abdominal surgery

Simultaneous anchoring and sealing thanks to the interplay of the balloon and the foam stopper.

The foam stopper allows the balloon to be securely positioned quickly and easily

- Large pivot radius
- Quick and easy fixation
- Material that is gentle to the skin
- Large support area
- Well secured, thanks to the balloon and foam stopper
- Large sealable accesses
- Adapts to different abdominal wall thicknesses
Uses

**PAJUNK® Dispo balloon systems**

PAJUNK® balloon systems can be used in a wide range of procedures, from endoscopic totally extraperitoneal hernioplasty (TEP) through laparoscopic extraperitoneal radical nephrectomy (LERN) to laparoscopic extraperitoneal prostatectomy (LERP). They can also be used in spinal surgery and lymph gland removal. Their use is presented below, taking TEP as an example.

**Totally extraperitoneal hernioplasty**

With this method, the preperitoneal space is dilated by inserting and inflating a balloon, and the point of rupture is reinforced with a plastic mesh.

Exemplary presentation of retroperitoneal dissection of tissue layers with the PAJUNK® Dispo balloon system:

1. The dilation balloon is introduced by means of a blunt obturator parallel to the peritoneum.
2. The obturator is retracted and can be replaced by a laparoscope.
3. Practitioners are advised to place a structural or ring-anchor balloon system to ensure working space access. Carbon dioxide is then injected to maintain the preperitoneal space during the operation.

- No peritoneal opening
- Small incision and wound area, minimising the risk of infection
- Less need for post-surgical pain medication compared to endoscopic dissection
- Low rate of complications

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1 Misra, Kumar, Bansal, Total extraperitoneal (TEP) mesh repair of inguinal hernia ..., 2008; 1
2 Misra, Kumar, Bansal, Total extraperitoneal (TEP) mesh repair of inguinal hernia ..., 2008; 7
3 Hannon et al., Comparison of insufflation vs retractional technique ..., 2000; 14: 304
4 Brunt et al., Endoscopic Axillary Lymph Node Dissection ..., 1998; 10(4): 162
Spinal surgery
In spinal surgery, PAJUNK® balloon systems are used in laparoscopically assisted procedures. This technique can be used supportively in lumbar spine procedures with anterior access. The balloons can be used to dilate the operating space between two access points. ³

Lymph node removal
Here, the balloon creates space for minimally invasive instruments. This allows the benefits of minimally invasive access techniques to be transferred to lymph node removal procedures.⁴

Urology
Balloon dilation is also useful in surgery on the kidneys, ureters and other organs located in the retroperitoneal area, as it allows space to be created for the procedure.

Examples of uses.

Creation of retroperitoneal space for spinal surgery.

Creation of retroperitoneal space for urological kidney surgery.
## Balloon systems

### All the information at a glance

<table>
<thead>
<tr>
<th>Space-creating balloons</th>
<th>Size</th>
<th>Item no.</th>
<th>PU</th>
</tr>
</thead>
<tbody>
<tr>
<td>MonoBalloon DIL-XL</td>
<td>Ø 11 mm</td>
<td>1284-60-11</td>
<td>5 •</td>
</tr>
<tr>
<td>Sterile disposable kit with unilateral dilation balloon (round, extra large)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| MonoBalloon DIL-BI      | Ø 11 mm | 1284-50-11 | 5 • |
| Sterile disposable kit with bilateral dilation balloon (oval) |

<table>
<thead>
<tr>
<th>Balloons to secure working access</th>
<th>Size</th>
<th>Item no.</th>
<th>PU</th>
</tr>
</thead>
<tbody>
<tr>
<td>MonoBalloon SB</td>
<td>Ø 11 mm</td>
<td>1284-20-11S</td>
<td>5 •</td>
</tr>
<tr>
<td>Sterile disposable kit with structural balloon and instrument channel</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

| MonoBalloon RA                  | Ø 11 mm | 1284-30-11S | 5 • |
| Sterile disposable kit with ring-anchor balloon and instrument channel |

| MonoBalloon RA-S                | Ø 11 mm | 1284-40-11S | 5 • |
| Sterile disposable kit with ring-anchor balloon and instrument channel |

| MonoBalloon URO                 | Ø 11 mm | 1284-70-11S | 5 • |
| Sterile disposable kit with flat ring-anchor balloon and instrument channel |

| MonoBalloon URO-S               | Ø 11 mm | 1284-75-11S | 5 • |
| Sterile disposable kit with flat ring-anchor balloon and instrument channel |
### Balloon systems – kits

#### Double balloon kits

<table>
<thead>
<tr>
<th>Product</th>
<th>Size</th>
<th>Item no.</th>
<th>PU</th>
<th>Ball pump</th>
<th>Syringe 30ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>MonoBalloonDuo DIL-XL + RA</td>
<td>Ø 11 mm</td>
<td>1284-60-20S</td>
<td>S</td>
<td>• •</td>
<td></td>
</tr>
<tr>
<td>Sterile disposable kit with unilateral dilation balloon (round, extra large), ring-anchor balloon and instrument channel</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MonoBalloonDuo DIL-XL + SB</td>
<td>Ø 11 mm</td>
<td>1284-60-24S</td>
<td>S</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Sterile disposable kit with unilateral dilation balloon (round, extra large), structural balloon and instrument channel</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MonoBalloonDuo DIL-XL + URO</td>
<td>Ø 11 mm</td>
<td>1284-60-28S</td>
<td>S</td>
<td>• •</td>
<td></td>
</tr>
<tr>
<td>Sterile disposable kit with unilateral dilation balloon (round, extra large), URO ring-anchor balloon and instrument channel</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MonoBalloonDuo DIL-BI + RA</td>
<td>Ø 11 mm</td>
<td>1284-50-20S</td>
<td>S</td>
<td>• •</td>
<td></td>
</tr>
<tr>
<td>Sterile disposable kit with bilateral dilation balloon (oval), ring-anchor balloon and instrument channel</td>
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<td>MonoBalloonDuo DIL-BI + SB</td>
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## Balloon systems

### All the information at a glance

#### Vario balloon systems with universal double seal

<table>
<thead>
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<th>Product</th>
<th>Size</th>
<th>Item no.</th>
<th>PU</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VarioBalloon RA</strong></td>
<td>Ø 11 mm</td>
<td>1283-30-11S</td>
<td>5</td>
</tr>
<tr>
<td>Sterile disposable kit with ring-anchor balloon, instrument channel and obturator</td>
<td>Ø 5.8 mm</td>
<td>1283-30-58S</td>
<td>5</td>
</tr>
<tr>
<td><strong>VarioBalloon RA PROTECT</strong></td>
<td>Ø 5.8 mm</td>
<td>1283-31-58S</td>
<td>5</td>
</tr>
<tr>
<td>Sterile disposable kit with ring-anchor balloon, instrument channel and PROTECT-obturator</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>VarioBalloon URO</strong></td>
<td>Ø 11 mm</td>
<td>1283-70-11S</td>
<td>5</td>
</tr>
<tr>
<td>Sterile disposable kit with flat ring-anchor balloon, instrument channel and obturator</td>
<td>Ø 5.8 mm</td>
<td>1283-70-58S</td>
<td>5</td>
</tr>
<tr>
<td><strong>VarioBalloon URO PROTECT</strong></td>
<td>Ø 5.8 mm</td>
<td>1283-71-58S</td>
<td>5</td>
</tr>
<tr>
<td>Sterile disposable kit with flat ring-anchor balloon, instrument channel and PROTECT-obturator</td>
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</table>

#### Syringes

- Syringe 30 ml
- Syringe 20 ml
- Syringe 10 ml

### Balloons to secure working access

- **VarioBalloon RA**
- **VarioBalloon RA PROTECT**
- **VarioBalloon URO**
- **VarioBalloon URO PROTECT**

### Studies


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