

PAJUNK®

Eco Balloon Systems

The combined disposable and reusable system for maximum profitability



Balloon systems

PAJUNK® Eco Balloon Systems

Safety in 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 forms 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.

Balloon valves



TrocaTec with automatic trap-door valve



TrocaTec with manually and automatically actuated trap-door valve



TrocaPort with silicone valve



Interchangeable silicone valve for TrocaPort

Space-creating balloons



Bilateral dilatation balloon

Unilateral dilatation balloon

Unilateral dilatation balloon Extra Large

Against the background of the growing pressure of costs in the health system, the PAJUNK® Eco balloon systems offer an economical solution in every respect, as they combine the reusability of the high-quality components with cost effective disposable components. In concrete terms this means: You invest once in the high-quality components – the high-precision reusable valve fitting and the corresponding obturators as they can be reused.

Balloons for securing the working access

With the great advantage that these can be combined with all types and forms of balloon, and can therefore be used for a very wide range of applications.

The other components – in particular the balloons – are disposable components, are sterile packed and hence immediately ready for use.



**URO ring-anchor balloon system
for TEP hernias**

**URO ring-anchor balloon system, short,
for abdominal surgery**

**Ring-anchor balloon system
for TEP hernias**

**Ring-anchor balloon system, short,
for abdominal surgery**

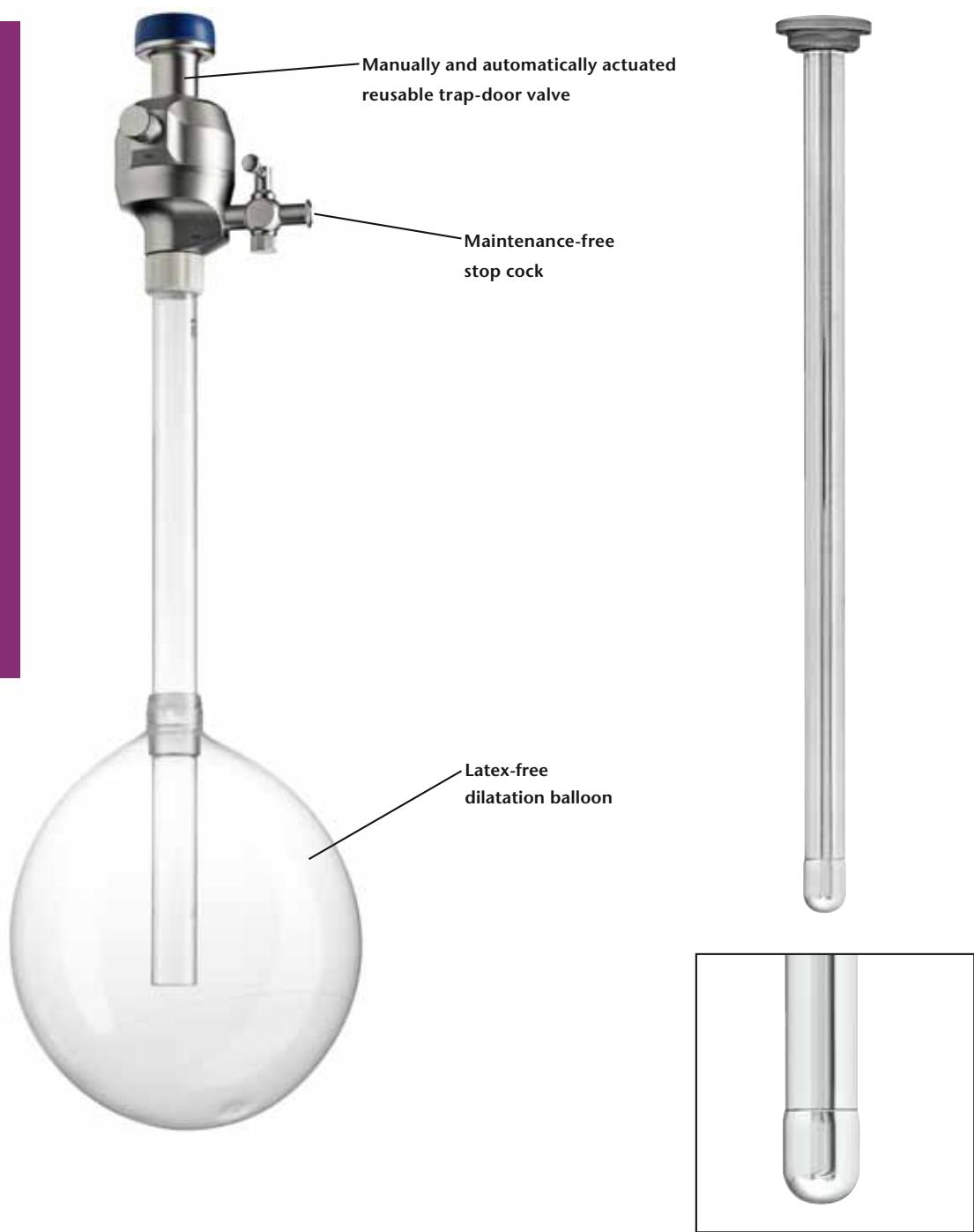
- Economical system
- Combination of high-quality reusable components and cost-effective disposable components
- Can be combined with all balloon types and forms
- Sterile packed disposable components, immediately ready for use

PAJUNK® Eco Balloon Systems

The whole spectrum of space-creating balloons

The space-creating PAJUNK® balloon systems permit an optimal, fast and effective dissection of the preperitoneal space with direct visualisation. They greatly simplify the orientation. Three

different balloon forms are available for unilateral and bilateral hernias.



Blunt reusable obturator for unilateral and bilateral dilatation balloons



Unilateral dilatation balloon



Unilateral dilatation balloon Extra Large



Bilateral dilatation balloon

Securing systems

Balloons for securing the working access

PAJUNK® offers two different balloon systems for securing the 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.

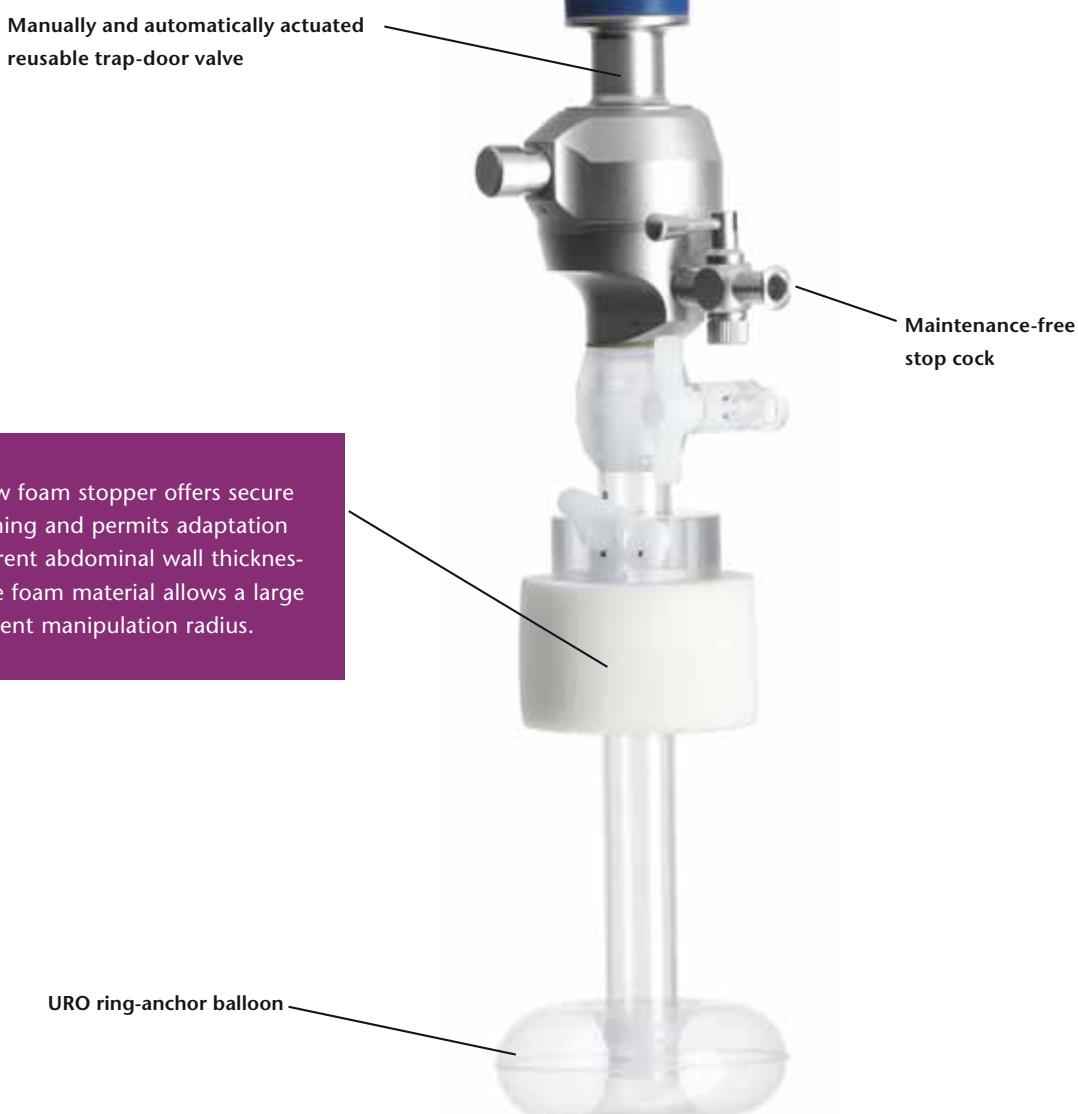
Ring-anchor balloon system

Surgeons are increasingly preferring open laparoscopy as access technique – particularly in patients with earlier abdominal operations. The ring-anchor balloons from PAJUNK® are suitable not only for the TEP hernia surgery described below, but also in particular for accesses with the Hasson technique in abdominal surgery, in bariatric, urological and gynaecological surgery. They provide the surgeon with a securely anchored, gas-tight access to the preperitoneal or intraperitoneal space.

Gentle sealing is effected by advancing and inflating the ring-anchor balloon and fixing the foam stop cock. The balloon is inflated via the integral one-way tap.

The ring anchor balloon systems are available in two lengths:

- Long version for TEP hernias
- Short version for abdominal surgery.



Blunt reusable obturator for the ring-anchor balloon systems

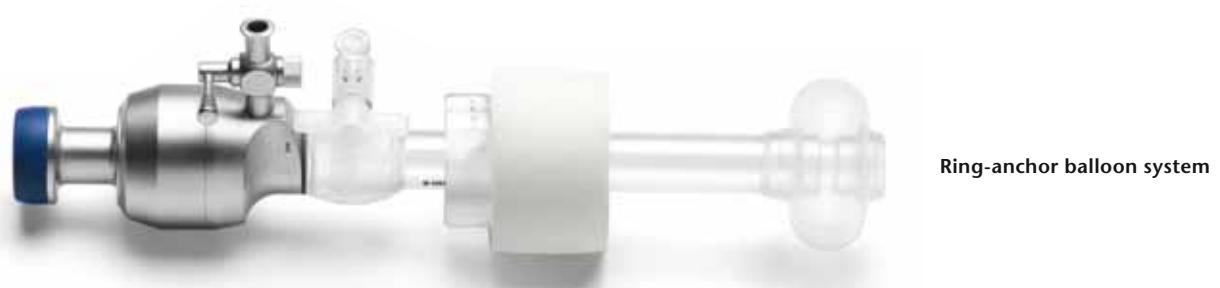
Structural balloon system

The structural balloon is particularly suitable for the preperitoneal access. The shape of the balloon thereby assists the separation of peritoneum and abdominal wall. In addition it prevents the collapse of the preperitoneal space in the event of a loss of gas.

Contamination of the laparoscope lens by dislocated tissue is prevented. The gas-tight sealing of the incision is performed in the same way as with the ring-anchor balloon system.



Structural balloon



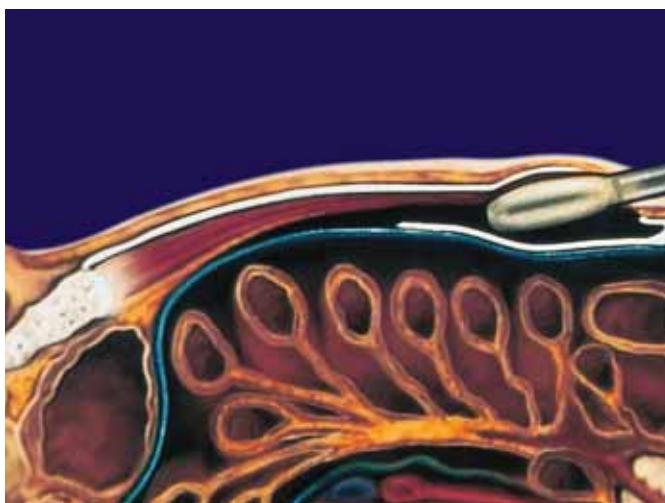
Ring-anchor balloon system

Safe and gentle

The totally extraperitoneal hernioplasty (TEP)

The PAJUNK® balloon systems are ideally suited to the endoscopic totally extraperitoneal hernioplasty (TEP). With this gentle method, the preperitoneal space is dilated pneumatically by inserting and inflating a balloon and the abdominal wall is reinforced with a plastic mesh. Not only the risk of infection, but also the size of the incision is significantly reduced, and at the same time the necessary recovery time after the operation is minimised.

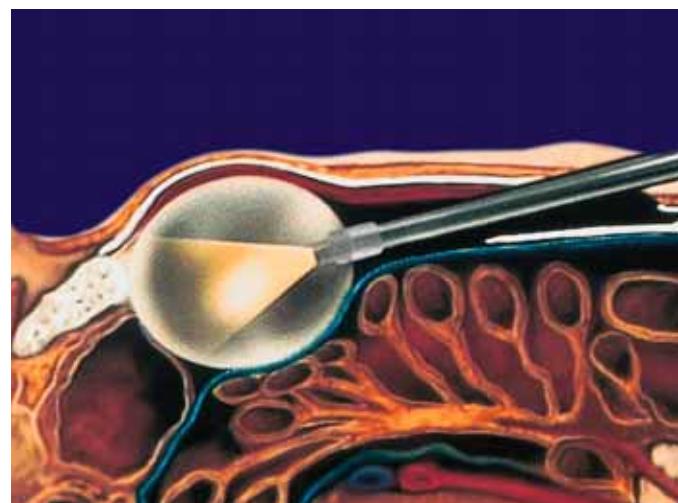
Endoscopically performed reinforcement of the abdominal wall by means of a plastic mesh in front of the peritoneum and behind the abdominal muscle in the event of an inguinal or femoral hernia:



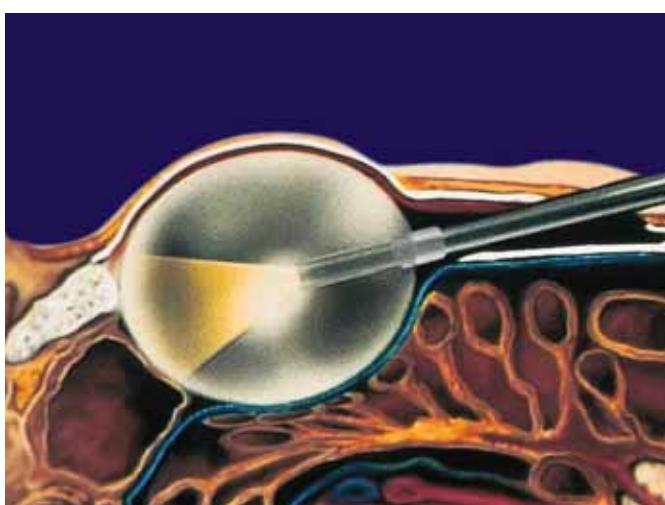
The dilatation balloon is introduced by means of a blunt obturator above the peritoneum and advanced between posterior fascia and rectus muscle up to the pubic bone.

The balloon systems together with the trocar systems offer you a modular kit of PAJUNK® instruments with all you need for extraperitoneal surgery.

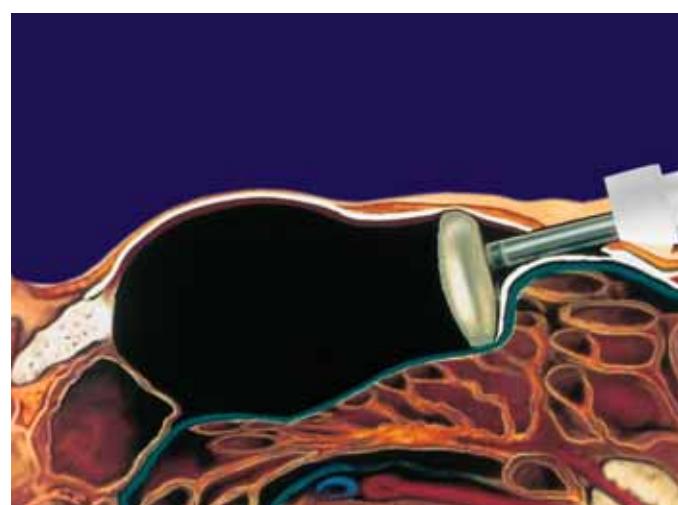
The medical arguments speak just as much in favour of the PAJUNK® balloon system as the economic arguments.



The obturator is retracted and replaced by a laparoscope. This ensures ideal viewing during the subsequent pneumatic dilatation of the preperitoneal space.



The layers are separated by the pneumatic dilatation, and any minor haemorrhaging is prevented immediately by the pressure of the balloon. The laparoscope and the deflated balloon are then removed.

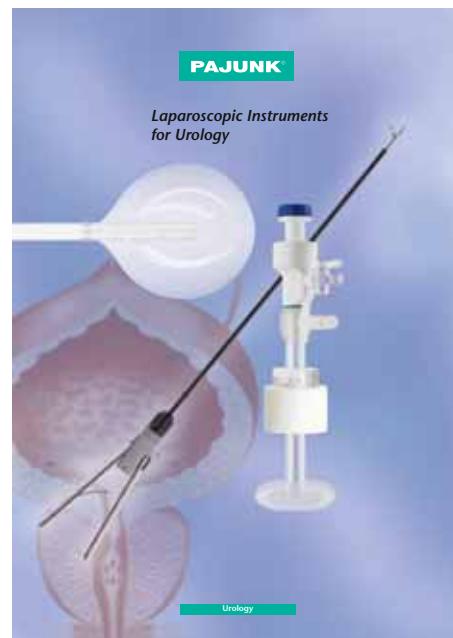
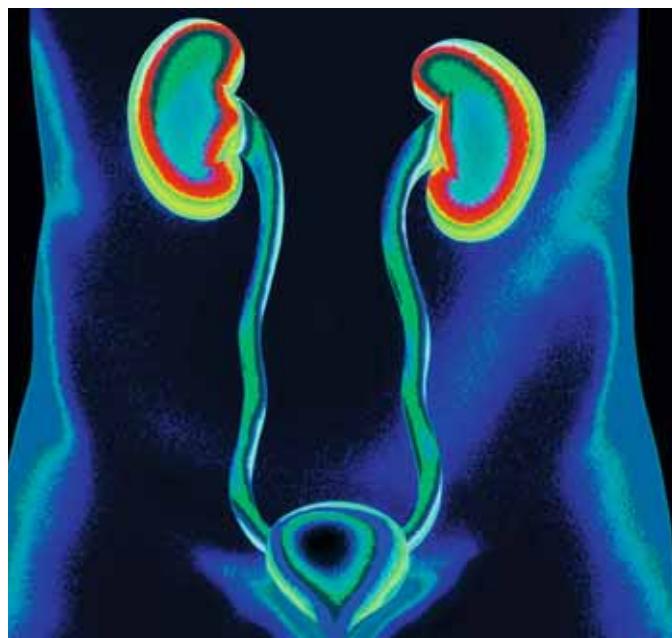


Positioning of a double-sealed structural or ring-anchor balloon system via which carbon dioxide is injected. This maintains the preperitoneal space during the operation. In addition the systems offer a working channel with a diameter of 11 millimetres in the created preperitoneal space via which the laparoscope or instruments can be inserted.

Main advantages of the TEP method

- No opening of the peritoneum, hence no risk of damaging abdominal organs
- No mesh fixing with clips necessary
- Ideally suitable for relapse hernias
- Low relapse quota (< 2 %)
- Full recovery after only 12 to 14 days (compared to six to seven weeks with conventional operation)
- Small incision, small wound area and hence low risk of infection
- Reduced need for pain medication (post operative)
- Shorter stay in the hospital

Further fields of application of the PAJUNK® balloon systems



For further fields of application of the unilateral dilatation balloon and the URO ring-anchor balloon in the field of LERN (laparoscopic, extraperitoneal radical nephrectomy and LERP (laparoscopic, extraperitoneal prostatectomy), please refer to our special brochure „Laparoscopic instruments for urology“.

The systems at a glance

Balloon systems



Space-creating balloons

Product	Size	Art. No.	PU	Ball pump	30 ml syringe
Unilateral dilatation balloon Sterile disposable set with dilatation balloon (round)	Ø 11 mm	1285-10-11	5	•	
Unilateral dilatation balloon Sterile disposable set with dilatation balloon (round, Extra Large)	Ø 11 mm	1285-60-11	5	•	
Bilateral dilatation balloon Sterile disposable set with bilateral dilatation balloon (oval)	Ø 11 mm	1285-50-11	5	•	

Balloons for securing the working access

Product	Size	Art. No.	PU	Ball pump	30 ml syringe
Structural balloon system Sterile disposable set with structural balloon and instrument channel	Ø 11 mm	1285-20-11S	5	•	
Ring-anchor balloon system Sterile disposable set with ring-anchor balloon and instrument channel	Ø 11 mm	1285-30-11S	5	•	
Ring-anchor balloon system, short Sterile disposable set with ring-anchor balloon and instrument channel	Ø 11 mm	1285-40-11S	5	•	
URO ring-anchor balloon system Sterile disposable set with flat ring-anchor balloon and instrument channel	Ø 11 mm	1285-70-11S	5	•	
URO ring-anchor balloon system, short Sterile disposable set with flat ring-anchor balloon and instrument channel	Ø 11 mm	1285-75-11S	5	•	

Balloon system sets

Product	Size	Art. No.	PU	Ball pump	30 ml syringe
Unilateral double balloon set Sterile disposable set with dilatation balloon (round), ring-anchor balloon and instrument channel	Ø 11 mm	1285-10-20S	5	•	•
Unilateral double balloon set Sterile disposable set with unilateral dilatation balloon (round), structural balloon and instrument channel	Ø 11 mm	1285-10-24S	5	•	
Unilateral double balloon set Sterile disposable set with unilateral dilatation balloon (round), URO ring-anchor balloon and instrument channel	Ø 11 mm	1285-10-28S	5	•	•
Unilateral double balloon set Extra Large Sterile disposable set with unilateral dilatation balloon (round, Extra Large), ring-anchor balloon and instrument channel	Ø 11 mm	1285-60-20S	5	•	•
Unilateral double balloon set Extra Large Sterile disposable set with unilateral dilatation balloon (round, Extra Large), structural balloon and instrument channel	Ø 11 mm	1285-60-24S	5	•	
Unilateral double balloon set Extra Large Sterile disposable set with unilateral dilatation balloon (round, Extra Large), URO ring-anchor balloon and instrument channel	Ø 11 mm	1285-60-28S	5	•	•
Bilateral double balloon set Sterile disposable set with bilateral dilatation balloon (oval), ring-anchor balloon and instrument channel	Ø 11 mm	1285-50-20S	5	•	•
Bilateral double balloon set Sterile disposable set with bilateral dilatation balloon (oval), structural balloon and instrument channel	Ø 11 mm	1285-50-24S	5	•	
Bilateral double balloon set Sterile disposable set with bilateral dilatation balloon (oval), URO ring-anchor balloon and instrument channel	Ø 11 mm	1285-50-28S	5	•	•

Balloon valves

All reusable balloon valves are characterised by an ergonomic valve housing and are easy to clean. They have a low weight, a quick coupler and a maintenance-free stop cock for gas inflation.



Product	Size	Art. No.	PU
TrocaTec – with manually and automatically actuated trap-door valve	Ø 11 mm	1285-13-11	1



TrocaTec – with automatic trap-door valve	Ø 11 mm	1285-26-11	1
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TrocaPort – with interchangeable silicone valve	Ø 11 mm	1285-21-11	1
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Obturators

Blunt obturators for reusable balloon systems



Product	Size	Art. No.	PU
Blunt obturator For the insertion of unilateral and bilateral dilatation balloons	Ø 11 mm	1285-94-11	1



Blunt obturator For the insertion of structural balloons	Ø 11 mm	1285-95-11	1
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Blunt obturator For the insertion of ring-anchor balloons	Ø 11 mm	1285-96-11	1
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Blunt obturator, short For the insertion of short ring-anchor balloons	Ø 11 mm	1285-97-11	1
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PAJUNK GmbH

Medizintechnologie

Karl-Hall-Strasse 1

D-78187 Geisingen/Germany

Telefon +49 (0) 77 04/92 91-0

Telefax +49 (0) 77 04/92 91-6 00

www.pajunk.com