

Highest Quality Engineering:

# The PAJUNK® Balloon Systems for Extraperitoneal Surgery

## Space Creating Balloons

The space creating PAJUNK® Balloon Systems facilitate optimal, fast and effective dissection of the preperitoneal space under direct view. Orientation is made easier and two different shaped balloons are available for either unilateral or bilateral hernias.



Bilateral dilatation balloon



Unilateral dilatation balloon

## Obturator



Blunt obturator for unilateral and bilateral dilatation balloons



## Balloons to Ensure Working Space Access

### Structural balloon system

The structural balloon is particularly suitable for preperitoneal access. The design of the balloon simplifies the separation of the peritoneum from the abdominal wall. Additionally it prevents the preperitoneal space from collapsing in the case of a loss of gas. Contamination of the lens system with dissected tissue is avoided. The gastight sealing of the incision is formed in the same way as the ring-anchor balloon system.



Structural balloon system

### Ring-anchor balloon system

The ring-anchor balloon is also suitable for gastight accessing of the preperitoneal space. The seal is made by inflating the ring-anchor balloon and then advancing and securing the fastening device. Insufflation is performed via the built-in stop cock .



Ring-anchor balloon system

## Obturator



Blunt obturator for the structural balloon system

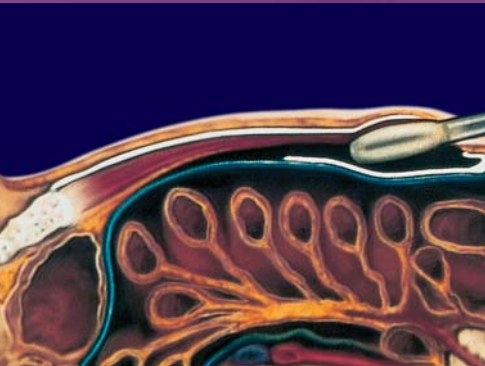


Blunt obturator for the ring-anchor balloon system

Safe and gentle:

# The Totally Extraperitoneal Hernioplasty (TEP)

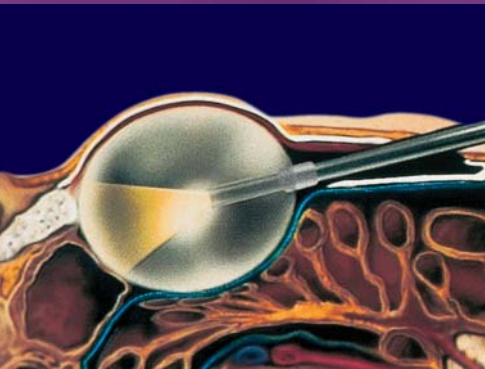
Reinforcement of the abdominal wall is conducted endoscopically by means of a plastic mesh in front of the peritoneum and behind the abdominal musculature in cases of inguinal or femoral/crural hernias.



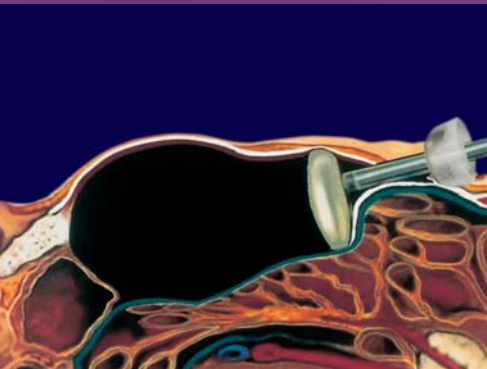
The dilatation balloon is introduced by means of a blunt obturator above the peritoneum and advanced between the posterior fascia and the rectus muscle up to the pubic bone.



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



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



Placement of a double sealed structural or ring-anchor balloon system is made via which carbon dioxide is insufflated. This will maintain the preperitoneal space during the operation. These systems also provide a Ø 11 mm working channel in the created preperitoneal space through which the laparoscope or instruments can be introduced.



No restrictions:

# A Greater Scope of Action – More Combination Options

**Essential advantages of the TEP method**

- low relapse quota (< 2%)
- full recovery after 12 to 14 days (compared to conventional operations of 6 to 7 weeks)
- smaller incision resulting in a lower risk of infection
- reduced need for pain medication (post operative)
- shorter stay in the clinic



The space creating PAJUNK® Balloon Systems are well suited for endoscopic totally extraperitoneal hernioplasty (TEP).

In this gentle procedure, introduction and inflation of a balloon results in a pneumatic dilation of the extraperitoneal space so that the abdominal wall can be reinforced by means of an implanted mesh.

This considerably reduces the risk of infection as well as the size of

the incision. It also minimizes the time required for recovery post-operatively.

Together with the trocar systems, the balloon systems provide a modular combination system of PAJUNK® instruments addressing all the requirements for extraperitoneal surgery.

The PAJUNK® Balloon System offers clinical benefits in addition to exceptional value for money.

## Balloon Systems

**Unilateral dilatation balloon**

Product	Order No.
Sterile, disposable set, Ø 11 mm, for extraperitoneal surgery with dilatation balloon (round) 5 pieces per pack	1285-10-11



**Bilateral dilatation balloon**

Product	Order No.
Sterile, disposable set, Ø 11 mm, for extraperitoneal surgery with bilateral dilatation balloon (oval) 5 pieces per pack	1285-50-11



**Structural balloon system**

Product	Order No.
Sterile, disposable set, Ø 11 mm, for extraperitoneal surgery with structural balloon and instrument channel 5 pieces per pack	1285-20-11



**Ring-anchor balloon system**

Product	Order No.
Sterile, disposable set, Ø 11 mm, for extraperitoneal surgery with ring-anchor balloon and instrument channel 5 pieces per pack	1285-30-11



**Unilateral double balloon set**

Product	Order No.
Sterile, disposable set, Ø 11 mm, for extraperitoneal surgery with unilateral dilatation balloon (round), ring-anchor balloon and instrument channel 5 pieces per pack	1285-10-20



**Bilateral double balloon set**

Product	Order No.
Sterile, disposable set, Ø 11 mm, for extraperitoneal surgery with bilateral dilatation balloon (oval), ring-anchor balloon and instrument channel 5 pieces per pack	1285-50-20



**Unilateral double balloon set**

Product	Order No.
Sterile, disposable set, Ø 11 mm, for extraperitoneal surgery with unilateral dilatation balloon (round), structural balloon and instrument channel 5 pieces per pack	1285-10-24



**Bilateral double balloon set**

Product	Order No.
Sterile, disposable set, Ø 11 mm, for extraperitoneal surgery with bilateral dilatation balloon (oval), structural balloon and instrument channel 5 pieces per pack	1285-50-24



## TrocaPort

Product	Ø 11 mm	Order No.
<b>TrocaPort – modular trocar sleeve with silicone valve</b> The integrated silicone valve is replaceable. Ergonomic valve housing with quick-lock. Easy to clean, low weight, maintenance-free stop cock for gas insufflation 1 piece per pack		1285-21-11



## Obturator

**Blunt Obturator for dilatation balloons**

Product	Order No.
Reusable, blunt obturator Ø 11 mm, for the introduction of unilateral and bilateral dilatation balloons 1 piece per pack	1285-94-11



**Blunt obturator for structural balloon system**

Product	Order No.
Reusable, blunt obturator Ø 11 mm, for the introduction of structural balloons 1 piece per pack	1285-95-11



**Blunt obturator for ring-anchor balloon system**

Product	Order No.
Reusable, blunt obturator Ø 11 mm, for the introduction of ring-anchor balloons 1 piece per pack	1285-96-11



## TrocaTec

Product	Ø 11 mm	Order No.
<b>TrocaTec – modular trocar sleeve with manual and automatic trap door valve operation</b> With short-stroke push-button for manual trap door activation, ergonomic valve housing, easy to clean, low weight, quick-lock, maintenance-free stop cock for gas insufflation 1 piece per pack		1285-13-11



Product	Ø 11 mm	Order No.
<b>TrocaTec – modular trocar sleeve with automatic trap door valve</b> Ergonomic valve housing, easy to clean, low weight, quick-lock, maintenance-free stop cock for gas insufflation 1 piece per pack		1285-26-11



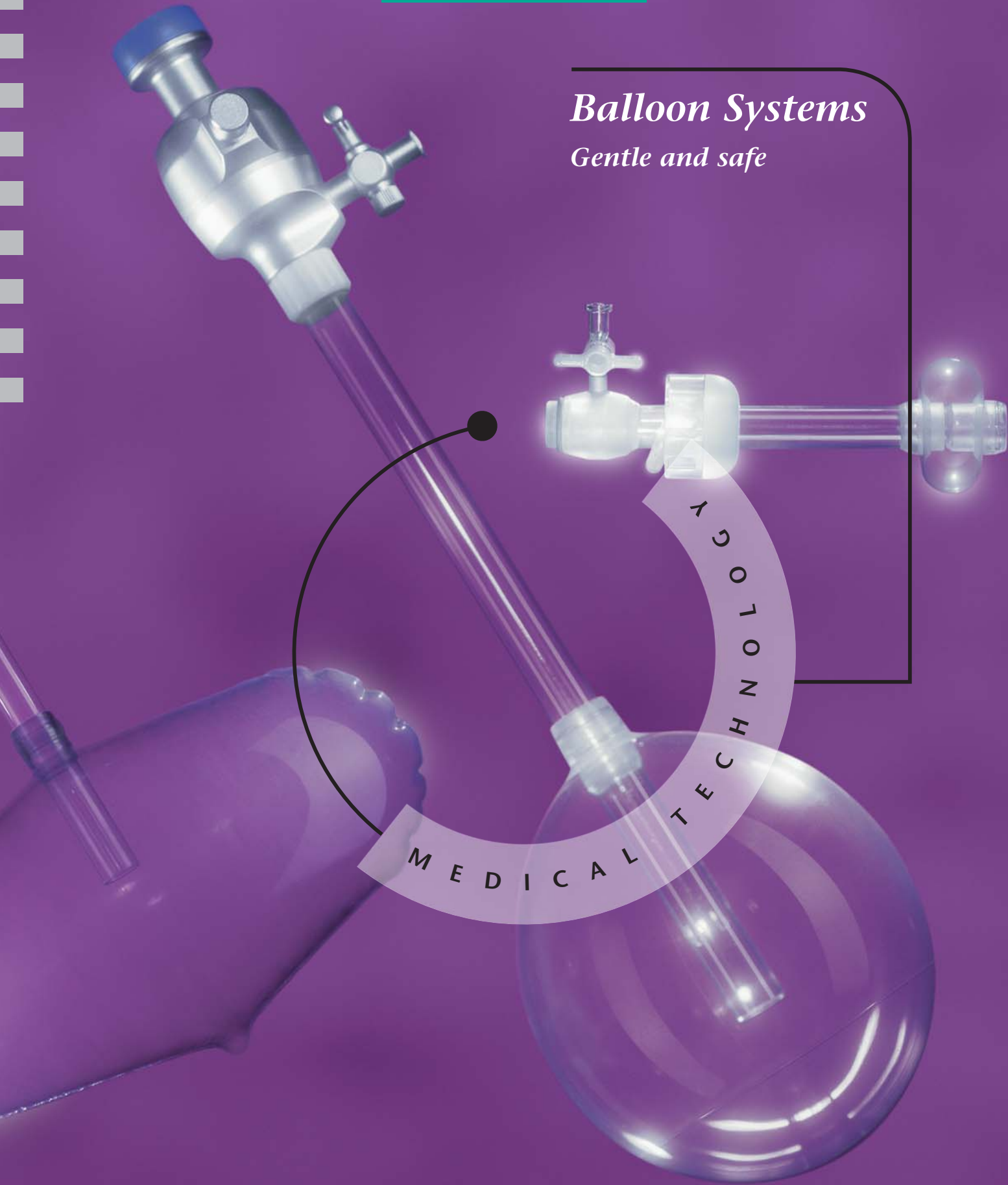
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**PAJUNK®**

# Balloon Systems

*Gentle and safe*



Balloon Systems