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PRODUCTS S.R.L.

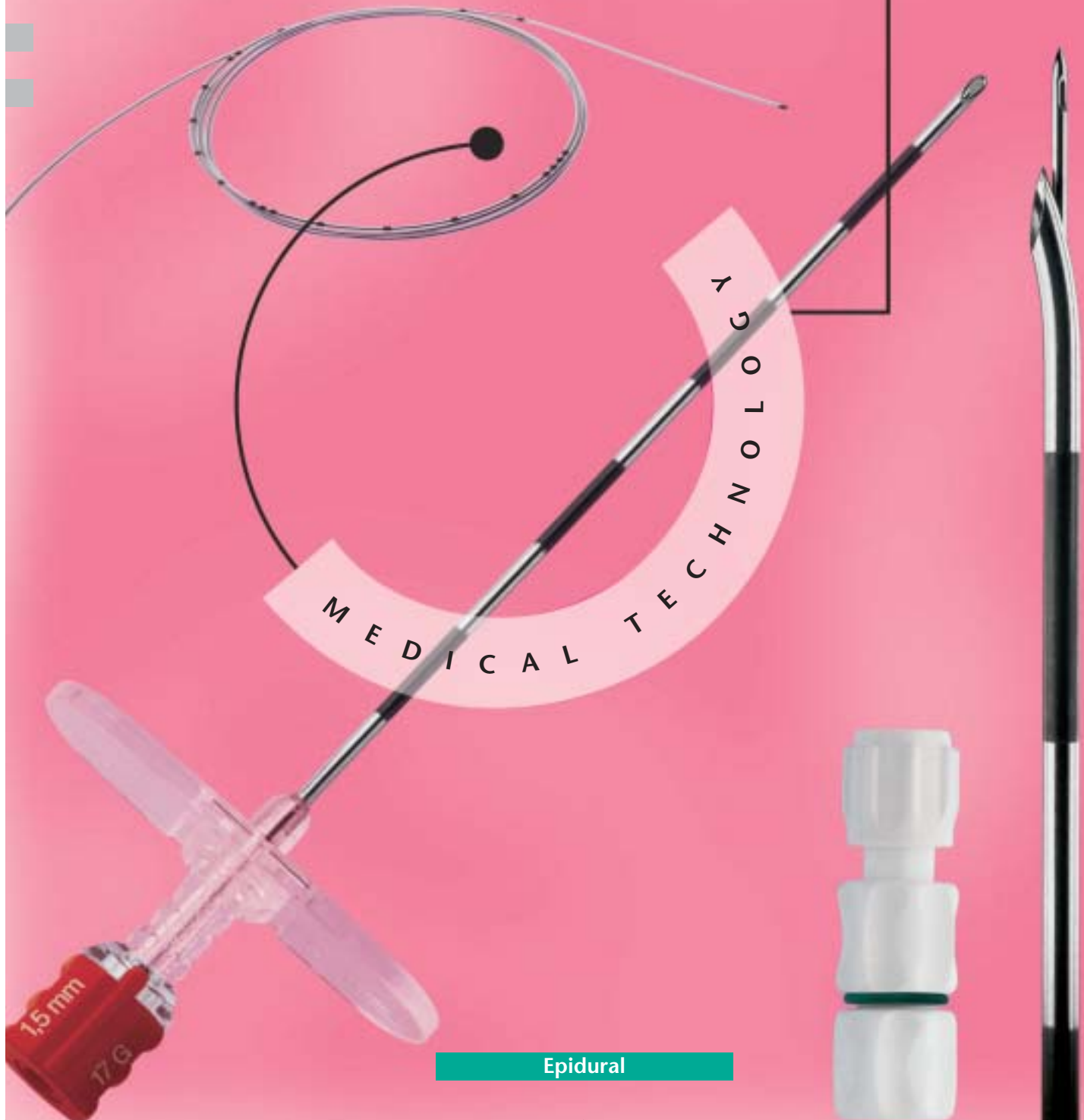
Representante Exclusivo

**Lartigau 1152 • (1875) Wilde
Avellaneda • Buenos Aires
Tel.: 4217-1223 • Fax 4217-1226
e-mail: dcdventas@speedy.com.ar**

PAJUNK®

***EpiLong and EpiSpin
Systems for Epidural
Anesthesia***

Gentle and precise



Epidural

*Gentle Obstetrics***Continuous Epidural Anesthesia**

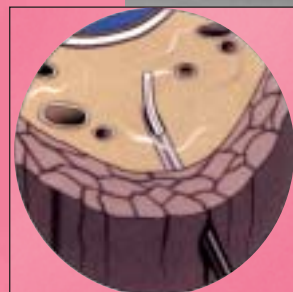
Epidural anesthesia has proven itself to be very effective in obstetrics. Pajunk supports this modern form of puncture - technology close to the spinal cord with its various sets for continuous epidural anesthesia. The main emphasis of development is focused on the optimization of the cannula and of the catheter with regard to gentle and safe application.

One of the most important quality-criteria for the selection of the appropriate cannula to conduct the puncture of the epidural space is, that the cannula should be able to pass through the **tissue and ligaments** optimally.

- PAJUNK has therefore equipped its epidural cannulae with a **special, match-ground stainless steel stylet**. This prevents the distribution and scattering of tissue into the epidural space.

Not only the **flexibility of the catheter during its introduction**, is a decisive factor, especially in continuous epidural anesthesia, but also particularly the **correct placement**.

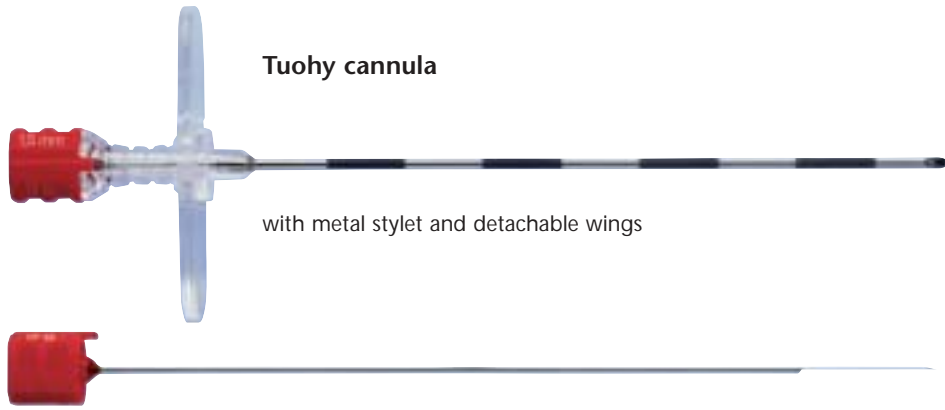
- When Pajunk's EpiLong Set is employed, the catheter is positioned **in the desired direction**, thanks to the **special grind** of the Tuohy cannula. The risk of catheter breakage is evidently reduced by the special geometry of the tip.
- The **EpiLong Soft Tip**, a catheter especially developed by Pajunk for continuous application with an **integrated steel spiral**, ensures optimal flexibility and also the undisturbed flow of the anesthetic over a longer period of time.



Epidural

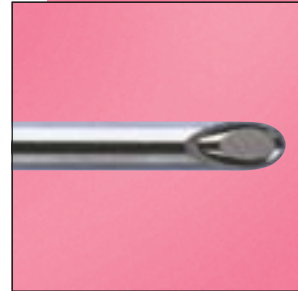
Details make the difference

Systemized Perfection



Tuohy cannula

with metal stylet and detachable wings



As a standard, the Tuohy cannula of the EpiLong I Set is generally equipped with a metal stylet. This renders more stability, particularly for special lengths. And in addition, the outer

cannula and the metal stylet are produced and ground jointly. That is why the introduction of tissue particles into the epidural space during injection can almost be ruled out.

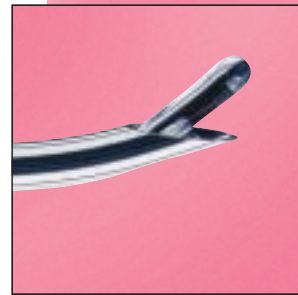
EpiLong catheter



with graduation up to 20 cm and X-ray / radiographic contrast strip

The epidural catheter is manufactured from very flexible and simultaneously rugged nylon material, therefore providing for high tensile strength, as well as excellent tissue compa-

tibility. It is alternatively manufactured with a closed tip and lateral eyes, or with central opening.



Central opening; alternatively also available with a closed tip with three lateral eyes.

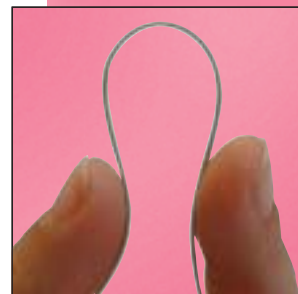
EpiLong Soft Tip catheter



with integrated metal spiral

The EpiLong Soft Tip catheter has one central opening, it is very flexible and it resists buckling /creasing at the same time. This ensures, that

the supply of the anesthetic is not dislocated during long-term application of the catheter.



Absolute freedom of selection

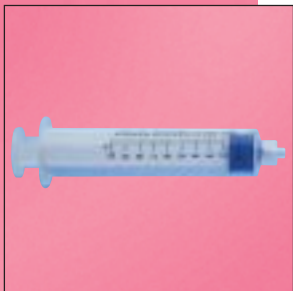
EpiLong Sets for Continuous Epidural Anesthesia



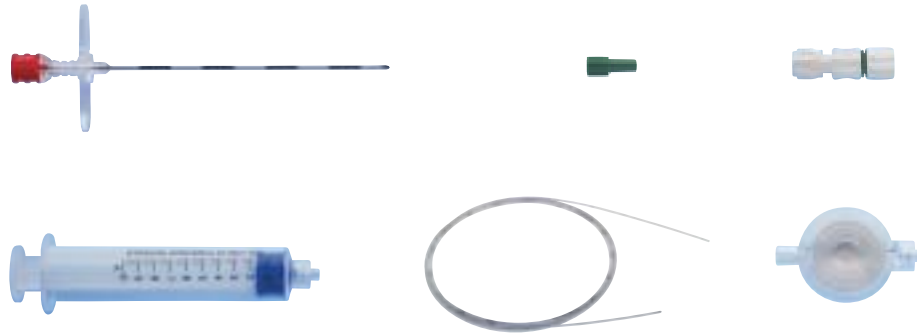
0.2 µm flat filter
The 0.2 µm flat filter prevents the passage of particles.



Luer-Lock adapter
The Tuohy Borst adapter ensures safe attachment of the syringe by means of a Luer-Lock connection. The plastic holding fixture inside provides for best possible sealing and fixation, and for trouble-free flow.



Loss-of-Resistance syringe
The LOR syringe facilitates the easy and reliable identification of the epidural space by injection of air or of common salt (sodium chloride) saline solution.



The various types of sets

EpiLong I Peridural Mini Sets

- available with closed tip and 3 lateral eyes or with central opening

EpiLong II Peridural Mini Sets

- available with closed tip and 3 lateral eyes or with central opening

EpiLong Soft Tip

Specific equipment features:

Tuohy cannula **with metal stylet**



Tuohy cannula **with plastic stylet**



Epidural catheter **with integrated metal spiral**



An everyday-problem leads to a world novelty

Protected freedom of movement with Fixolong

Till now, the way of fastening catheters and filters to the patient has been left up to the anesthesiologist. Problems arising especially during continuous application are, to safeguard that the catheter isn't inadvertently pulled out if the patient moves, or that the supply of the anesthetic is

obstructed by an unfavorable position. But now this will change. Because Pajunk has recognized the need for freedom of movement, while at the same time guaranteeing safe and secure fixation, and therefore Pajunk is offering the perfect solution for catheters of the sizes 19 and 20 G.

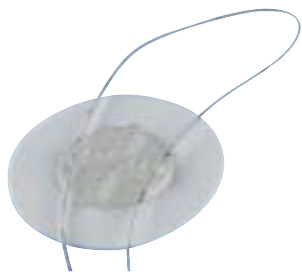
Step by step progress towards more freedom of movement



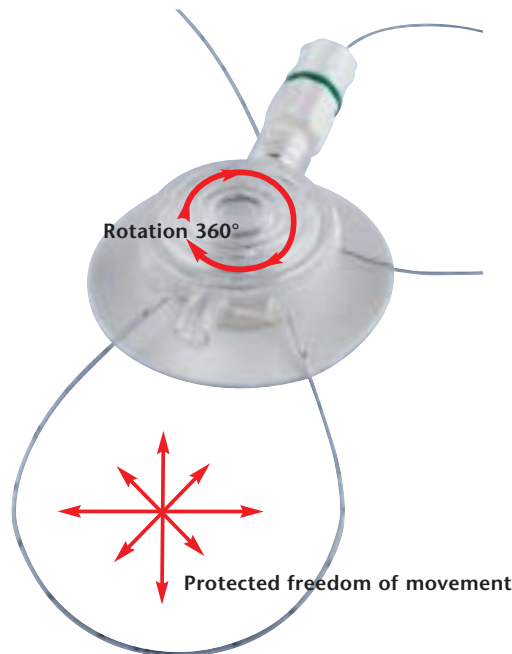
1. The Pajunk adhesive bandage with the fixated catheter cross is fastened in the vicinity of the catheter exit.



2. The catheter is snapped onto the fastening clips. This guarantees maximum freedom of movement while simultaneously fixating the catheter.

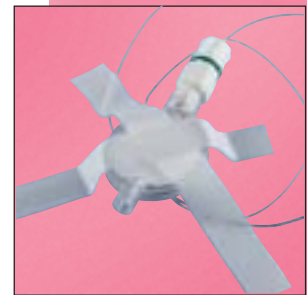


3. The rotatable filter adapter is plugged onto the catheter cross.



4. The flat filter is locked in position on the filter adapter (rotation 360 °).

The result: protected freedom of movement during all continuous applications



Conventional method

Epidural

Fast effectiveness

Combined Spinal Epidural Anesthesia



The combined spinal epidural anesthesia, which is widespread and common in the USA, is also becoming very popular in Europe. The fast anesthetic effect of the spinal anesthesia helps to avoid waiting times in the operating room.

Furthermore, the anesthesia can be maintained for as long as necessary by using epidural catheters.

With **EpiSpin II Safety**, Pajunk is offering a special Tuohy-puncture cannula, which permits you to optimize your **CSE applications**,

thanks to the most advanced technology.

And these are the features of EpiSpin II Safety:

- faster and dependable effect through spinal anesthesia
- minimization of post spinal headache by using the original Sprotte spinal puncture cannula
- prolonged blockade through epidural anesthesia
- optimal safety by using the fixation adapter and connection of the Sprotte cannula
- visual recognition of the penetration depth through markings located at the cannula shaft.

Epidural

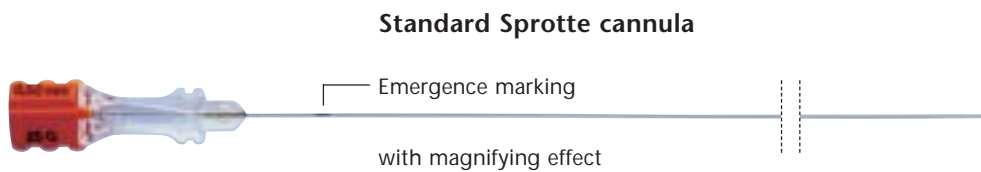
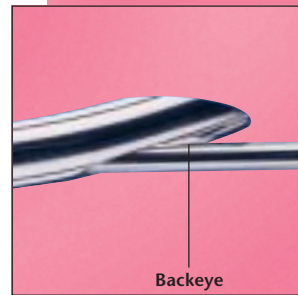
Perfect synergy

EpiSpin II Safety



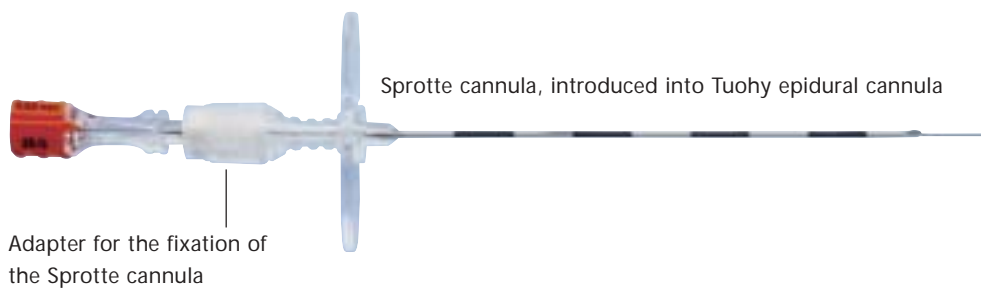
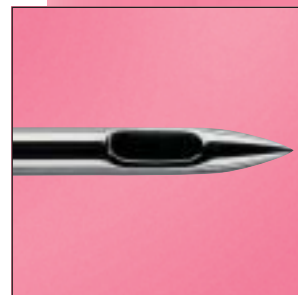
As a standard, the Tuohy cannula of this set is generally equipped with a metal stylet. This renders more stability, particularly for special lengths. And in addition, the outer cannula and metal stylet are jointly produced and sharpened. That is why the introduction of tissue

parts into the epidural space during injection can almost be ruled out. The additional distal eye - "backeye" - of the Tuohy tip geometry permits the **original Sprotte spinal puncture cannula to be positioned optimally.**



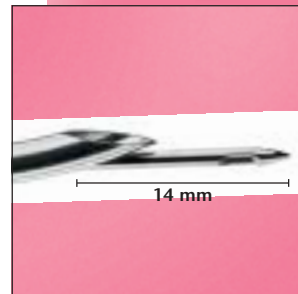
The standard Sprotte cannula with its special operational length permits atraumatic spinal-/epidural combinations. A marking is attached

proximally to the cannula shaft of the Sprotte cannula for visual identification of the point of emergence of the spinal cannula.



When the marking on the Sprotte puncture cannula is covered up by the fixation adapter, the spinal puncture cannula will be distally protruding the opening of the "backeye" by up to 14 mm. This visual indication consequently makes the placement of the spinal cannula

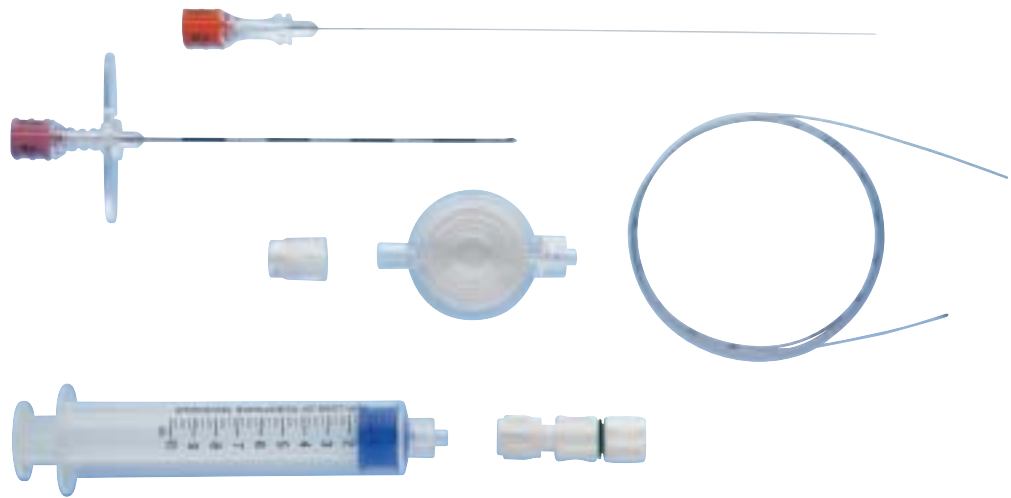
considerably easier. The practice-oriented adaptation of the cannula lengths permits safe dura-puncture for spinal anesthesia. An "adapter", especially developed for CSE-techniques, locks the spinal cannula in position in the Tuohy cannula by slight rotation.



EpiSpin Sets

EpiSpin II Safety for Combined Spinal Epidural Anesthesia

EpiSpin Sets with Tuohy cannula with backeye, as well as Sprotte standard cannula with magnifying hub



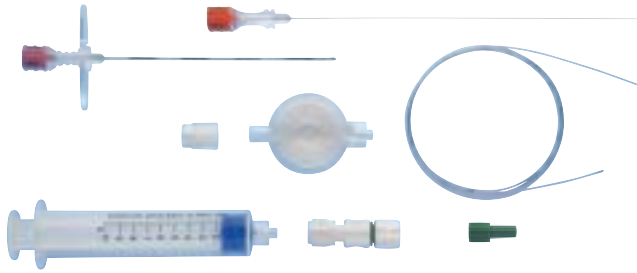
consisting of:

- Tuohy cannula with backeye and wings
- Sprotte cannula with magnifying effect and fixation adapter
- Catheter with closed tip and three lateral eyes
- Filter 0.2 µm
- Tuohy Borst adapter
- LOR syringe

Proficient Selection

Complete Solutions in Any Size

EpiSpin II Safety



X-ray contrast catheter guide
0.2 µm flat filter
Tuohy Borst adapter
10-ml-LL-LOR syringe

Product	Size	Catheter	Item no.	Pieces per Pack
EpiSpin II Safety				
Tuohy with backeye and wings	18 G x 90 mm	20 G x 90 cm	0001351-18	10 • • •
Sprotte standard with magnifying hub 25 G				
EpiSpin II Safety				
Tuohy with backeye and wings	18 G x 90 mm	20 G x 90 cm	0021351-18	10 • • • •
Sprotte standard with magnifying hub 25 G				
EpiSpin II Safety				
Tuohy with backeye and wings	18 G x 90 mm		0011351-18	10
Sprotte standard with magnifying hub 25 G				
EpiSpin II Safety				
Tuohy with backeye and wings	18 G x 90 mm	20 G x 90 cm	0001351-30	10 • • •
Sprotte standard with magnifying hub 27 G				
EpiSpin II Safety				
Tuohy with backeye and wings	18 G x 90 mm	20 G x 90 cm	0021351-30	10 • • • •
Sprotte standard with magnifying hub 27 G				
EpiSpin II Safety				
Tuohy with backeye and wings	18 G x 90 mm		0011351-30	10
Sprotte standard with magnifying hub 27 G				

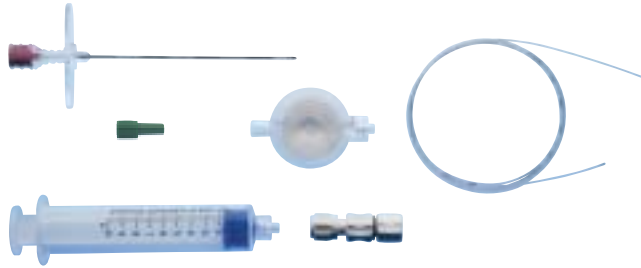
Tuohy cannulae



Product	Size	Item no.	Pieces per Pack
Tuohy cannula, pediatrics			
½ cm graduation, metal stylet, with wings	19 G x 50 mm	1150-4I050	25
	18 G x 50 mm	1150-4K050	25
Tuohy cannula			
1 cm graduation, metal stylet, with wings	19 G x 80 mm	1150-4I080	25
	19 G x 90 mm	1150-4I090	25
	18 G x 80 mm	1150-4K080	25
	18 G x 90 mm	1150-4K090	25
	18 G x 120 mm	1150-4K120	10
	18 G x 152 mm	1150-4K150	10
	18 G x 200 mm	1150-4K200	10
	17 G x 80 mm	1150-4M080	25
	17 G x 90 mm	1150-4M090	25
	17 G x 120 mm	1150-4M120	10
	17 G x 150 mm	1150-4M150	10
	16 G x 80 mm	1150-4O080	25
	16 G x 90 mm	1150-4O090	25
16 G x 120 mm	1150-4O120	10	
Tuohy cannula			
1 cm graduation, plastic stylet, with wings	19 G x 90 mm	1150-6I090	25
	18 G x 90 mm	1150-6K090	25
	17 G x 90 mm	1150-6M090	25
	16 G x 90 mm	1150-6O090	25

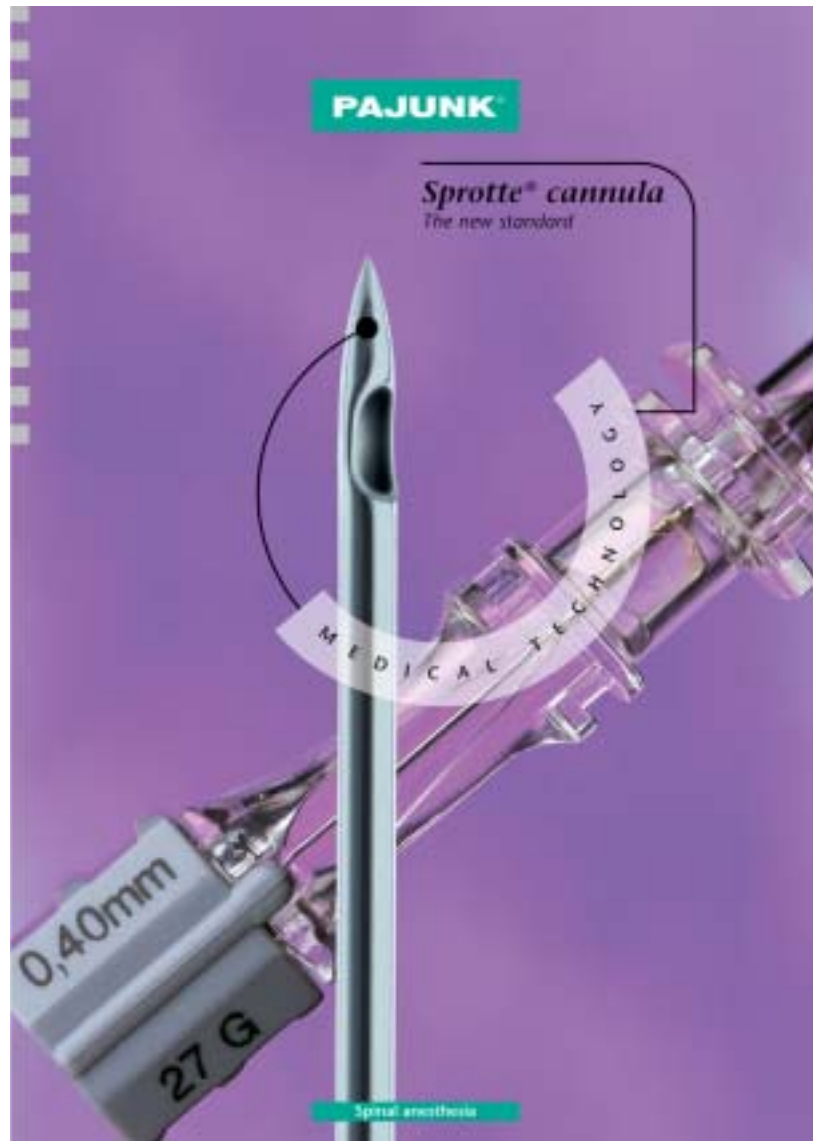


EpiLong Sets



X-ray contrast catheter guidance
0.2 µm flat filter
Tuohy Borst adapter
10-ml LL-LOR syringe

Product	Size	Catheter with closed tip	Item no.	Pieces per Pack
EpiLong Set I				
Tuohy cannula	17 G x 90 mm	19 G x 90 cm	0431155-48	10 • • • •
Tuohy cannula	18 G x 90 mm	20 G x 90 cm	0431155-51	10 • • • •
EpiLong Set I pediatrics				
Tuohy cannula	19 G x 45 mm	23 G x 45 cm	0131153-50	10 • • • •
EpiLong Set II				
Tuohy cannula	16 G x 90 mm	19 G x 90 cm	0431152-49	10 • • • •
Tuohy cannula	17 G x 80 mm	19 G x 90 cm	0431153-48	10 • • • •
Tuohy cannula	18 G x 80 mm	20 G x 90 cm	0431153-51	10 • • • •
EpiLong Soft Tip Catheter with integrated spiral	17 G x 90 mm	19 G x 90 cm	0421157-48	10 • • • •
Kit components:				
Catheter with closed tip and 3 lateral eyes		19 G x 90 cm	021151-37A	10 • •
Catheter with central opening		19 G x 90 cm	031151-37A	10 • •
Catheter with Teflon-coated steel stylet and closed tip, 3 lateral eyes		19 G x 90 cm	001151-37A	10 • •
		20 G x 90 cm	001151-37C	10 • •
Catheter with Teflon-coated steel stylet and with central opening		20 G x 90 cm	021151-37C	10 • •
Tuohy Borst adapter			001151-37H	10
LOR syringe			0001151-45	10
Flat filter			0001151-37J	10
Fixolong				
Adhesive bandage with catheter cross, filter adapter			001151-40	10
Adhesive bandage with catheter cross, filter adapter, filter			001151-41	10



PAJUNK GmbH

Medical Technology

Karl-Hall-Straße 1

D-78187 Geisingen

Phone: +49 (0) 77 04/92 91-0

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

www.pajunk.com

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