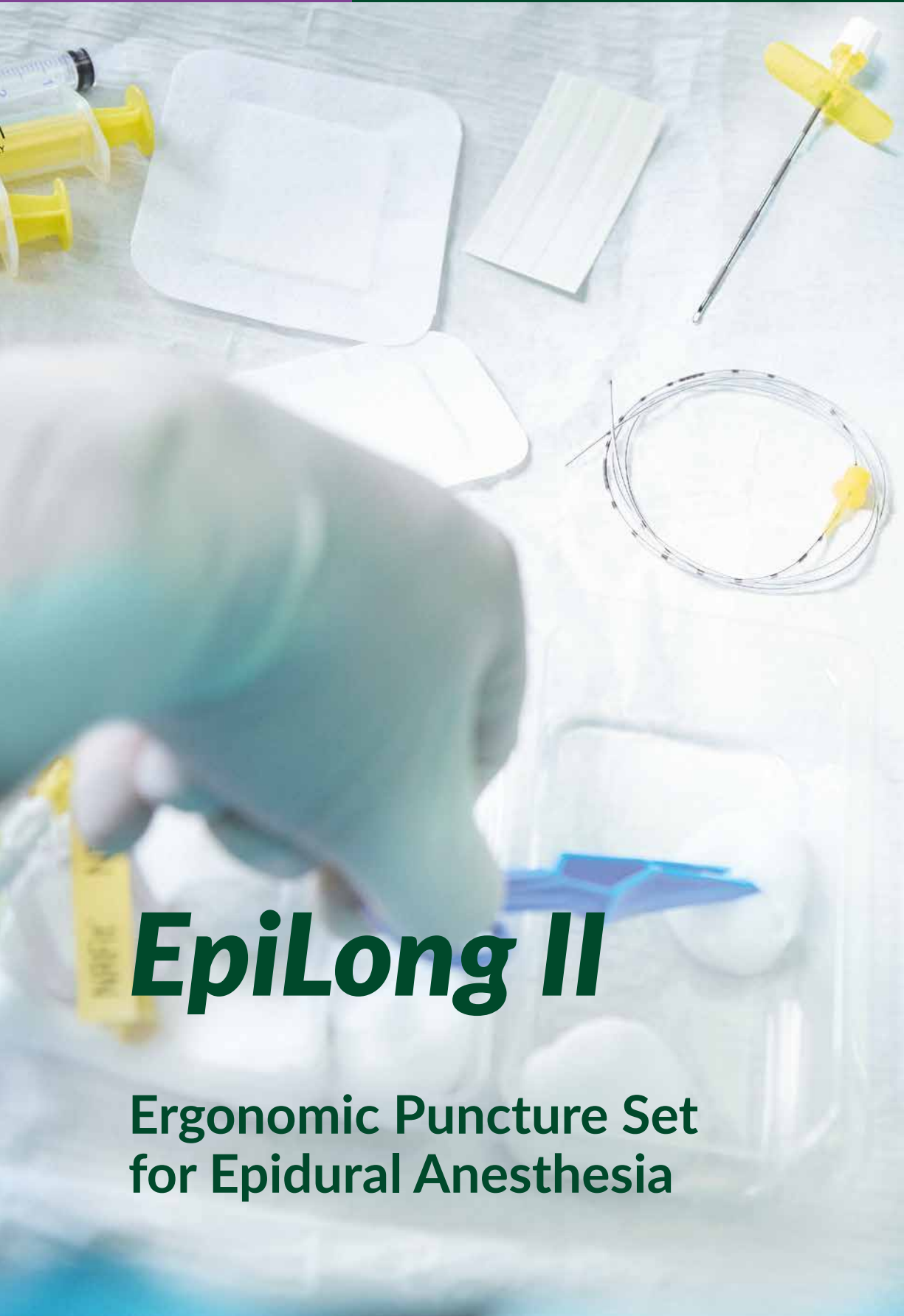




Neuraxial Anesthesia

# PAJUNK®

Real People. Real Care.



## **EpiLong II**

**Ergonomic Puncture Set  
for Epidural Anesthesia**

Made in Germany

## Needles and Catheters for Epidural Anesthesia (EDA)

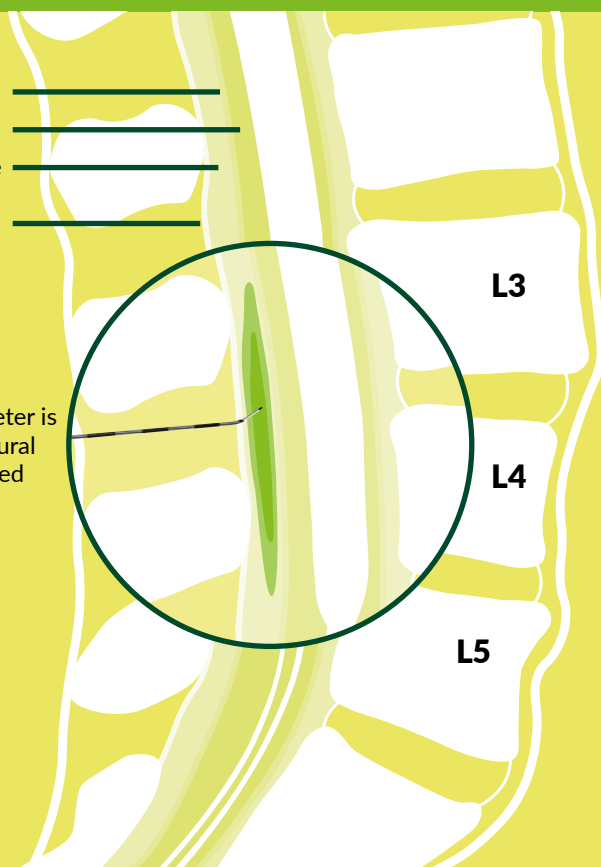
# Priority on Handling During Puncture

Epidural anesthesia is considered the gold standard among anesthesia methods for facilitating labor. It is recommended by the World Health Organisation (WHO) and is estimated to be used in 10 to 64% of cases in high-income countries.<sup>1</sup>

As a neuraxial labor anesthesia technique, it is invasive but remains the most effective and one of the most commonly used methods of pain relief during labor.<sup>2</sup>

Dura mater  
Spinal space  
Epidural space  
Ligamentum flavum

The epidural catheter is placed in the epidural space via the curved Tuohy tip.

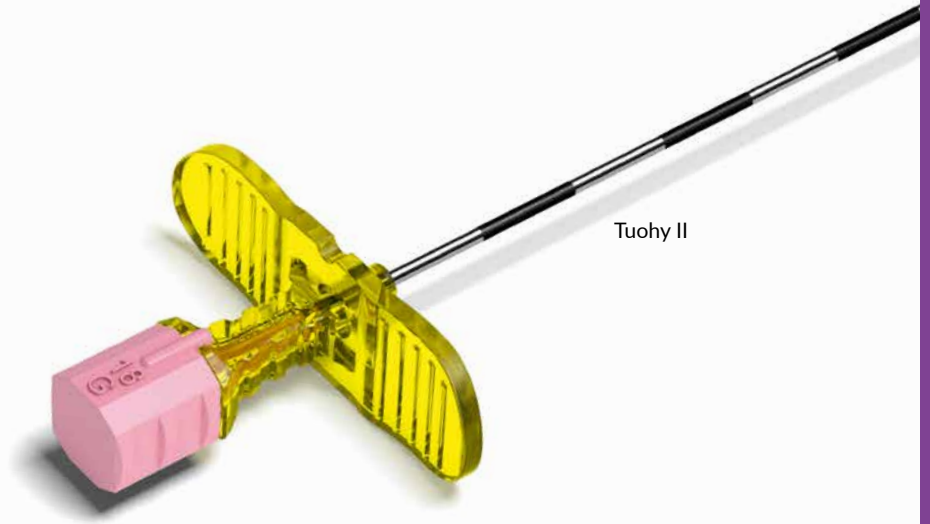


Even after a prior Cesarean section, EDA is advocated by German, British, and American professional societies for subsequent attempts at VBAC (Vaginal Birth after Cesarean Section).<sup>3</sup> As a perioperative anesthesia technique, the epidural is also favored for the majority of open abdominal surgical procedures.<sup>4</sup> It is the most commonly used anesthesia technique for intensive care patients.<sup>5</sup>

1. Halliday, Lucy et al. (2022). Epidural analgesia in labor: A narrative review. *International Journal of Gynecology & Obstetrics*, 159(2), pp. 356–364. DOI: 10.1002/ijgo.14175.
2. Fernando R. et al. (2018). Neuraxial labor analgesia: a focused narrative review of the 2017 literature. *Current Opinion in Anesthesiology*, 31(3): 251–257.
3. Annecke T. et al. (2020). Die geburtshilfliche Analgesie und Anästhesie. S1-Leitlinie der Deutschen Gesellschaft für Anästhesiologie und Intensivmedizin in Zusammenarbeit mit der Deutschen Gesellschaft für Gynäkologie und Geburtshilfe. *AWMF online Portal der wissenschaftlichen Medizin*, 1.
4. Bauer P. A. et al. (2019). Meta-analysis of epidural analgesia in patients undergoing pancreatoduodenectomy. *BJS Open*, 3(5): 559–571.
5. De Andres J. et al. (2019). Regional analgesia techniques for pain management in patients admitted to the intensive care unit. *Edizioni Minerva Medica*, 85(10): 1118–1128.

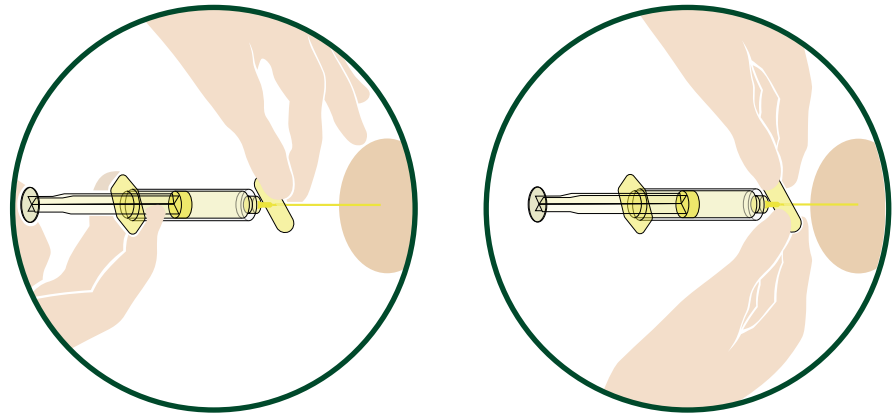
**NEW**

**The ergonomic and ribbed wings are firmly attached to the hub designed for optimized handling.**



**Identification of the epidural space with different gripping techniques**

Advancing the Tuohy needle with one hand or with both hands on the wings. The epidural space is accessed when resistance is lost (loss of resistance technique).



**NEW**

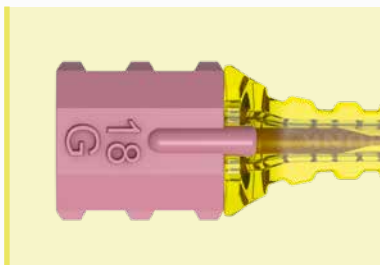
**The extended insertion aid is designed to facilitate advancement of the catheter and optimize its exit.**



# Integrated Ergonomic Wings

**Precision Work -  
Made in Germany**

**Highest  
Processing  
Quality**

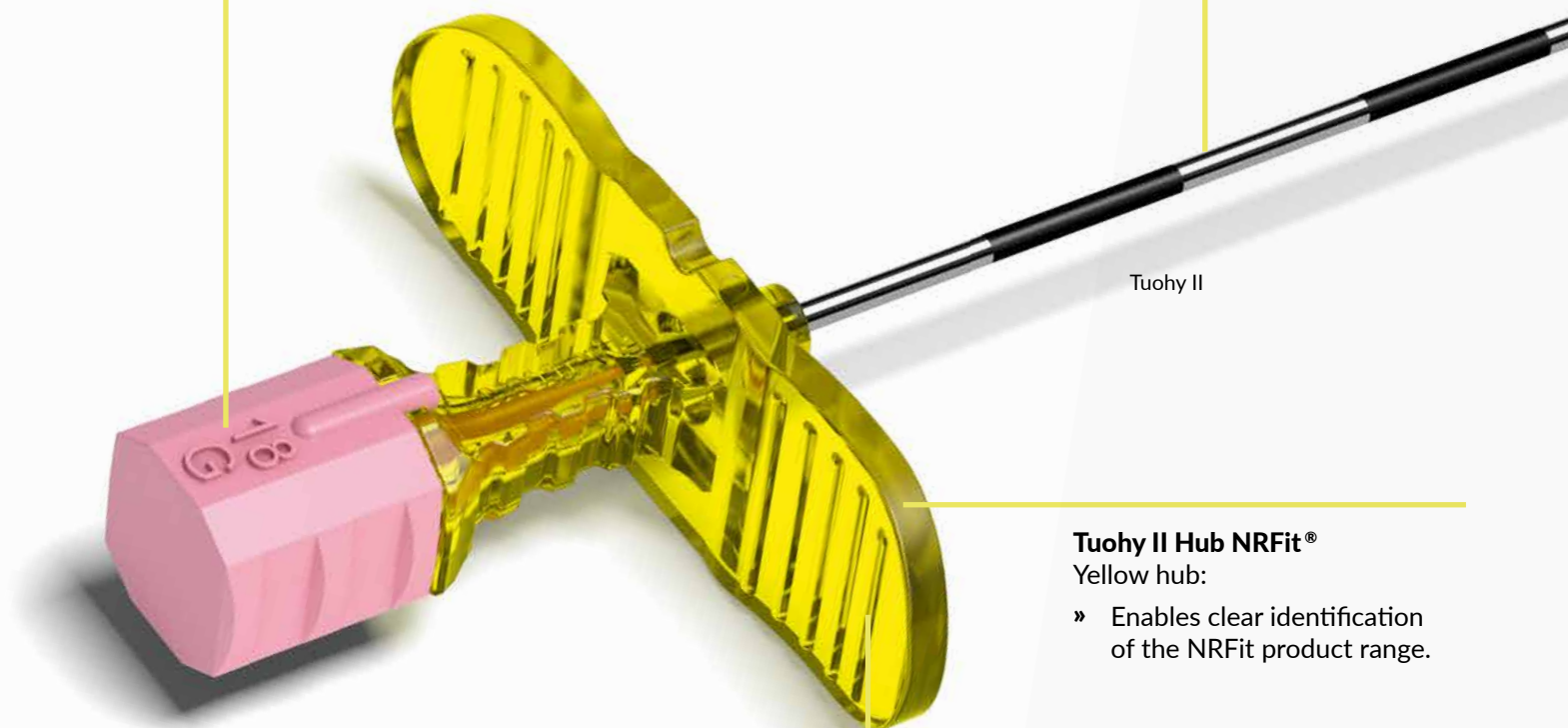


**Color-Coded Stylet**  
With size indication:

- » For easy identification of the needle size.

**High-Quality  
Stainless Steel Needle**  
Manufactured to the highest quality standards:

- » Supports needle stability.
- » Facilitates consistent feel during insertion.



Tuohy II

**Tuohy II Hub NRFit®**  
Yellow hub:

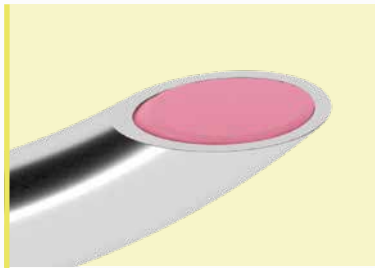
- » Enables clear identification of the NRFit product range.

**Designed for  
Optimized  
Handling**

**NEW**

**Integrated Ergonomic Wings**  
The ribbed wings are firmly attached to the hub:

- » Designed for optimized handling for different gripping techniques.



**Precision-Manufactured Plastic Stylet**

Flush ends of plastic stylet and needle:

- » Designed to prevent tissue coring.
- » Developed to stabilize the needle.



**Depth Markings**

In an intense black color:

- » Helps ensure visualization of insertion depth during needle placement.



# Extended Insertion Aid



## Different Depth Markings for LUER and NRFit®

Due to the extended NRFit hub, the depth markings on the NRFit catheter are slightly different to those of the LUER version.

### Depth Markings

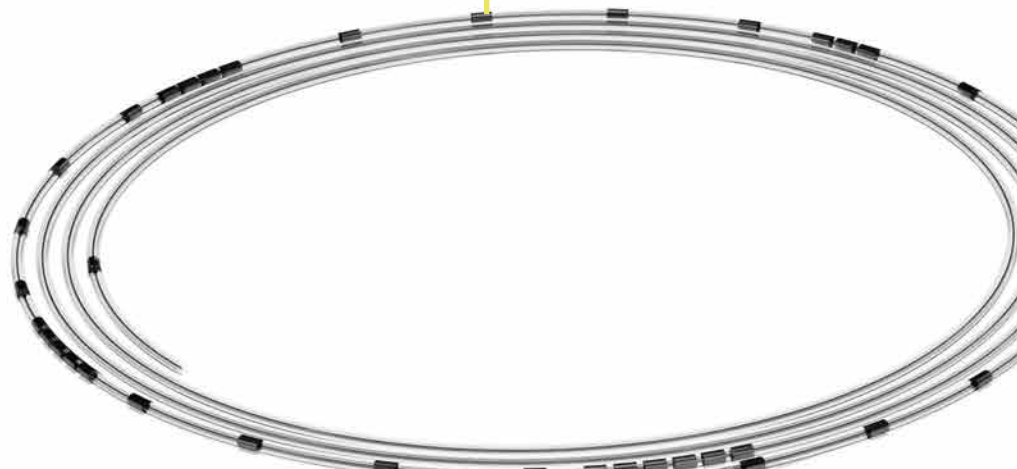
Graduations on the first 30 cm:  
» Helps ensure visualization of insertion depth during catheter placement.

**NEW**

### Catheter Insertion Aid

Extended catheter insertion aid:

- » Designed for trouble-free advancement and
- » optimized catheter exit.



Standard catheter



## Optimizes Distribution of the Anesthetic

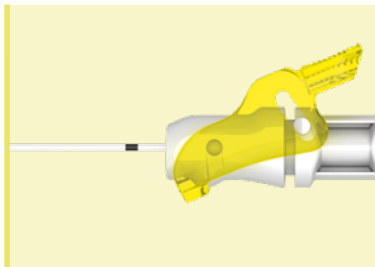


### Standard Catheter\*

Closed tip and three lateral openings arranged around the first 1.8 cm:

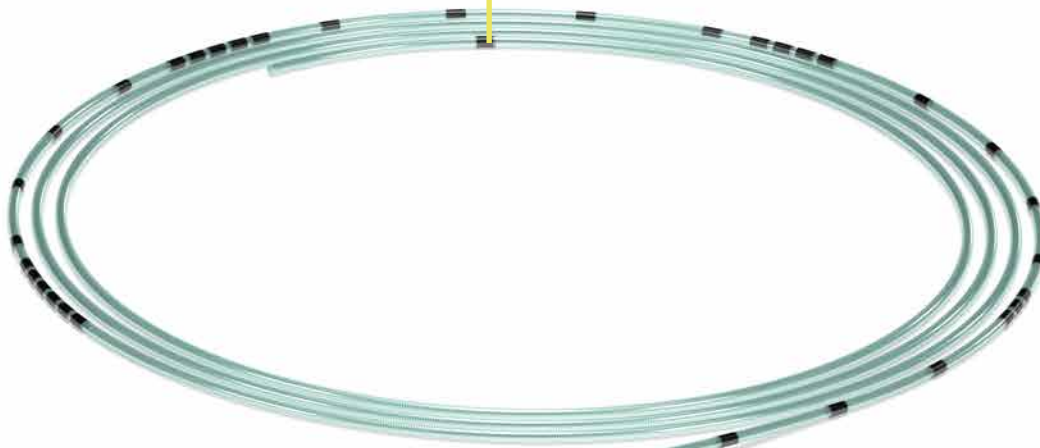
- » Contributes to the even distribution of the anesthetic.

\*Optionally available with steel stylet.

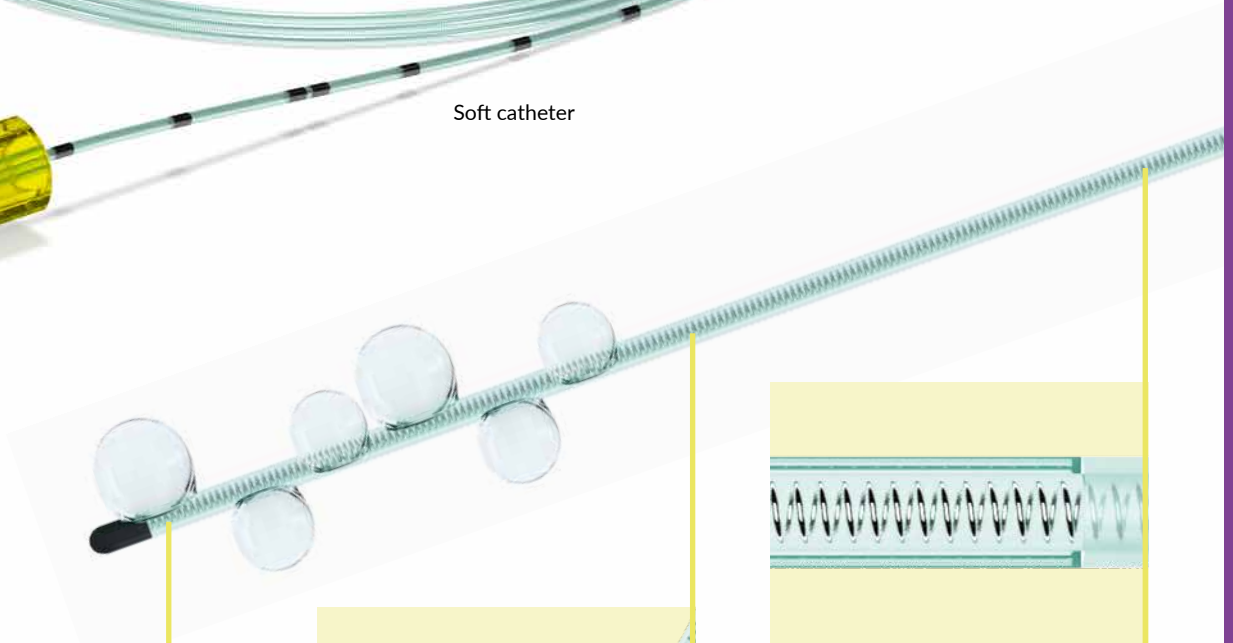


### Marking for Clamping Adapter

Indicates how far the catheter should be inserted into the clamping adapter.



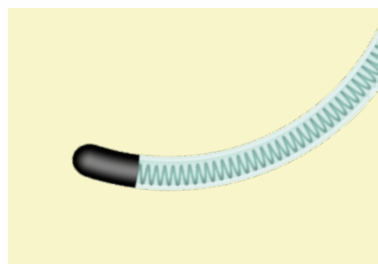
Soft catheter



### Soft Catheter

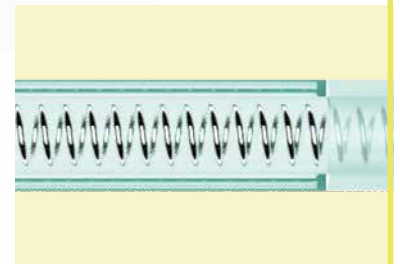
Closed tip, six lateral openings arranged around the first 2.2 cm:

- » Designed for even distribution of the anesthetic.



### Soft Catheter Material

- » Developed to prevent injuries to blood vessels and the dura.

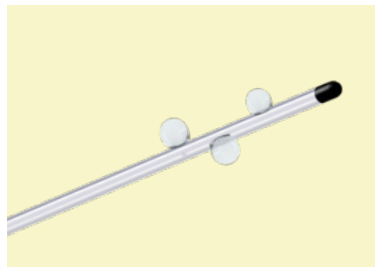


### Integrated Stainless Steel Helical Coil

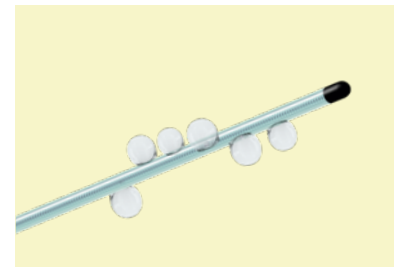
- » Prevents kinking, improves flexibility, and ensures a stable inner lumen.<sup>6</sup>
- » Radiopaque.



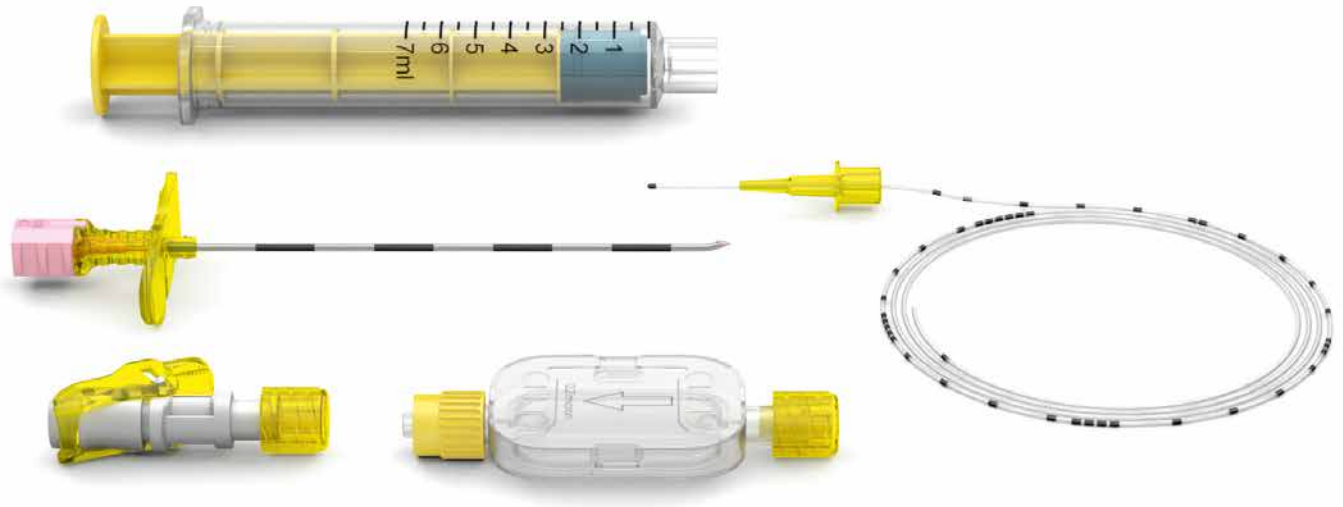
# EpiLong Sets with Standard or Soft Catheter



Standard Catheter



Soft Catheter



## EpiLong II

Catheter with closed tip and 3 lateral openings

Needle size	Catheter size	Item no.	NRFit® Item no.	PU	LOR	Clamping Adapter + Filter	FixoLong	FixoCath	Syringe/NRFit filter needle
18G x 80 mm (3 1/4")	20G	033115301-51		10	Lock	•			
		053115301-51		10	Slip	•	•		
		033116301-51		10	Slip	•			
		133116301-51		10	Slip	•			•
18G x 90 mm (3 1/2")	20G	033115201-51		10	Lock	•			
		033125201-51		10	Lock	•		•	
		053115201-51		10	Slip	•	•		
		033116201-51		10	Slip	•			
		133116201-51		10	Slip	•			•
17G x 80 mm (3 1/4")	19G	033115301-48		10	Lock	•			
		033116301-48		10	Slip	•			
		133116301-48		10	Slip	•			•
16G x 90 mm (3 1/2")	19G	033115201-49		10	Lock	•			
		033116201-49		10	Slip	•			



## EpiLong Soft

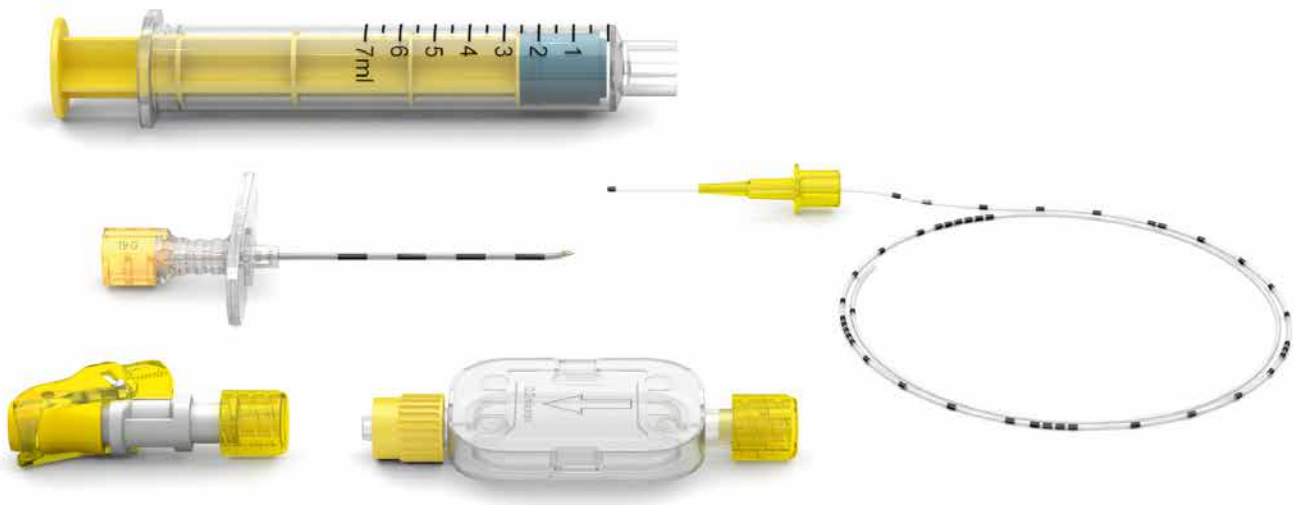
Catheter with closed tip and 6 lateral openings

Needle size	Catheter size	Item no.	NRFit Item no.	PU	LOR	Clamping Adapter + Filter	FixoLong	FixoCath	Syringe/NRFit filter needle
18G x 90 mm (3 1/2")	20G	0431157-51		10	Lock	•	•		•
			1432167-51	10	Slip	•	•		•
17G x 90 mm (3 1/2")	19G	0431157-48		10	Lock	•	•		•
			1432167-48	10	Slip	•	•		•

## EpiLong Short Length



Needle Size 19G

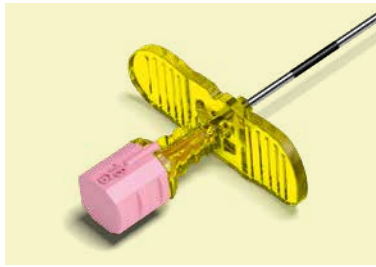


## EpiLong Short Length

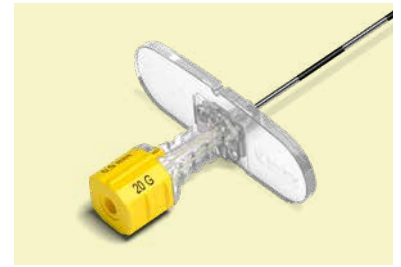
Catheter with closed tip and 3 lateral openings

Needle size	Catheter size	Item no.	NRFit Item no.	PU	LOR	Clamping Adapter + Filter	FixoLong	FixoCath	Syringe/NRFit filter needle
19G x 50 mm (2")	23G	0131153-50		10	Lock	•			
			0131163-50	10	Slip	•			





**Tuohy II**



**Tuohy**

**Tuohy Needles**

**Tuohy II**  
With plastic stylet and integrated wings

Needle size	Item no.	NRFit® Item no.	PU
19G x 90 mm (3 1/2")	1170-6I091	1176-6I091	10
18G x 80 mm (3 1/4")	1170-6K081	1176-6K081	10
18G x 90 mm (3 1/2")	1170-6K091	1176-6K091	10
18G x 120 mm (4 3/4")	1170-6K120	1176-6K120	10
17G x 90 mm (3 1/2")	1170-6M091	1176-6M091	10
17G x 120 mm (4 3/4")	1170-6M120	1176-6M120	10

**Tuohy**  
With metal stylet and detachable wings

Needle size	Item no.	NRFit Item no.	PU
20G x 90 mm (3 1/2")	1150-4G090		25
18G x 150 mm (6")	1150-4K150		10
17G x 150 mm (6")	1150-4M150		10

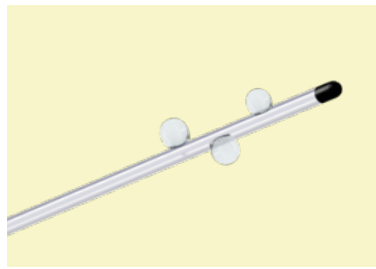


**Caudal**

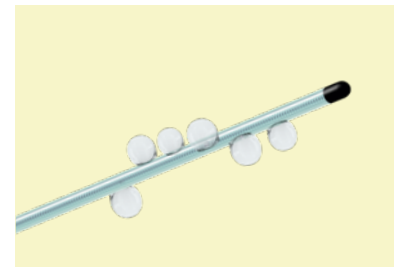
**Caudal Needle**

**Caudal**  
With Crawford tip

Needle size	Item no.	NRFit Item no.	PU
25G x 25 mm (1")		1163-12C025	25
23G x 25 mm (1")	1149-12D025		25
22G x 40 mm (1 5/8")	1149-12E040	1163-12E040	25
22G x 60 mm (2 3/8")	1149-12E060		25



**EpiLong**



**EpiLong Soft**

### EpiLong Catheter

**EpiLong**  
Closed tip and  
3 lateral openings

Catheter size	Item no.	NRFit Item no.	PU	Steel stylet	Stainless steel helical coil	Clamping Adapter
20G x 90 cm (35")	001151-37C		10	•		•
20G x 90 cm (35")	021151-37C	021163-37C	10			•
19G x 90 cm (35")	001151-37A		10	•		•
19G x 90 cm (35")		021163-37A	10			•

**EpiLong Soft**  
Closed tip,  
6 lateral openings,  
integrated stainless  
steel helical coil

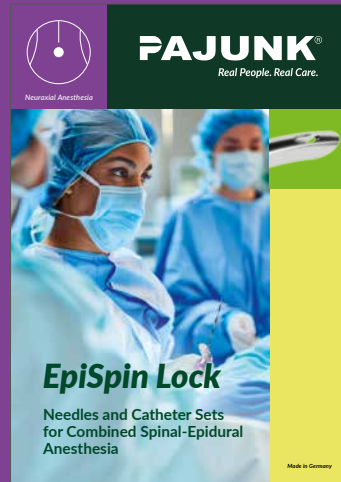
Catheter size	Item no.	NRFit Item no.	PU	Steel stylet	Stainless steel helical coil	Clamping Adapter
20G x 90 cm (35")	041151-37R	041163-37R	10		•	•
19G x 90 cm (35")	041151-37P		10		•	•

### Epidural Accessories

Product	Description	Item no.	NRFit Item no.	PU
LOR Syringe	Lock	0001151-45		10
LOR Syringe	Slip		0001166-45	10
Filter		001151-37Q	001163-62	10
FixoLong		001151-47	001163-60	10
FixoLong + Filter		001151-48	001163-61	10
Clamping Adapter	yellow, < 20G	001151-37V	001163-37V	10
Clamping Adapter	white, ≥ 20G	001151-38C	001163-38C	10
FixoCath		001151-37Z		10



Further PAJUNK® devices from our portfolio  
for the field of neuraxial anesthesia:



**More Information  
on EpiLong II**

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