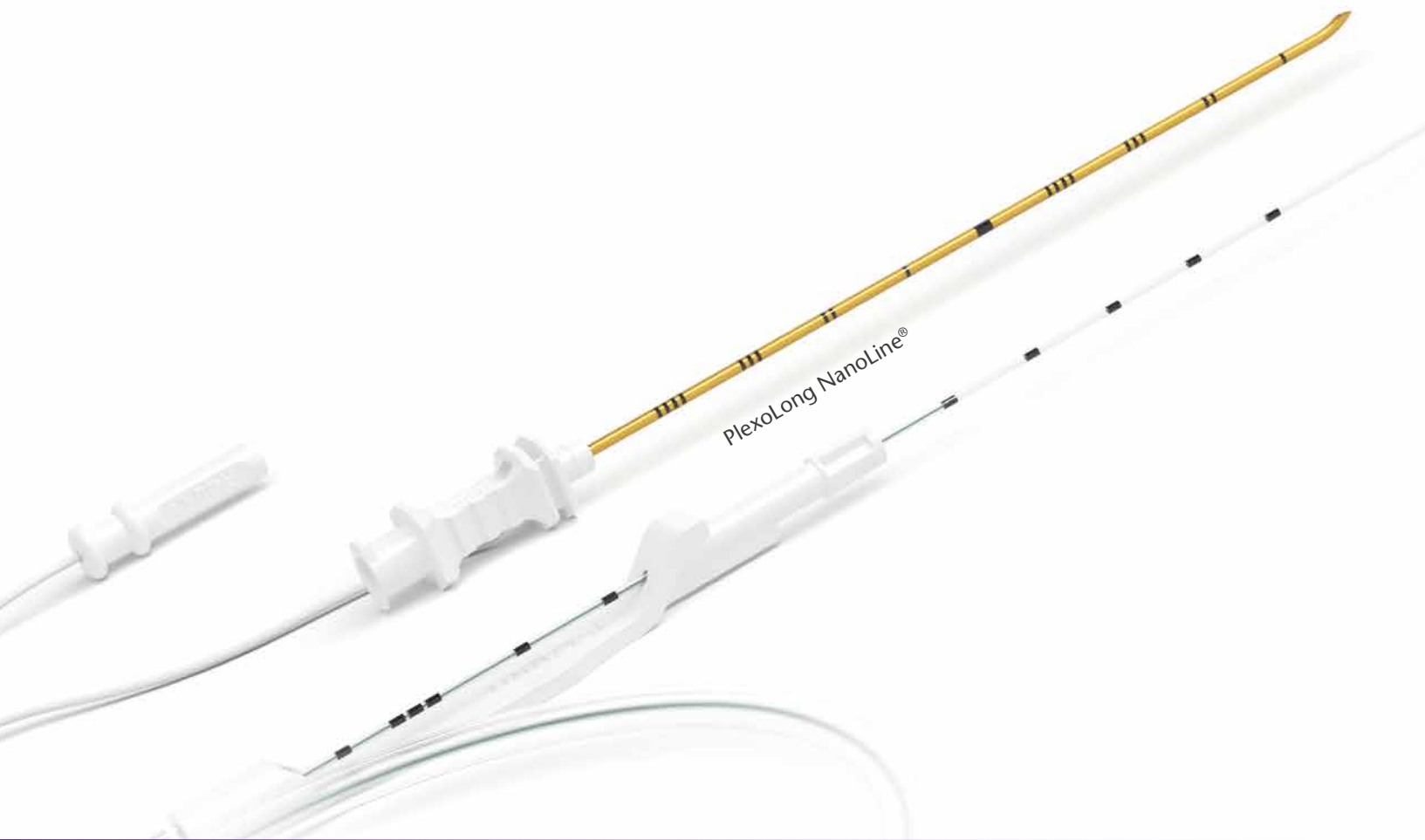


Catheter Sets for CNB Procedures

Ultrasound guided nerve block procedures have radically changed processes in continuous Regional Anaesthesia. This results in new requirements for optimal visibility of the needles and catheters, as well as their handling. PAJUNK® has set a standard for this with the introduction of our Cornerstone Technology for needles, and is also providing echogenic catheters.



AVAILABLE OPTIONS

3 different tip geometries
with or without Cornerstones:



▶ Tuohy Tip



▶ Facet Tip

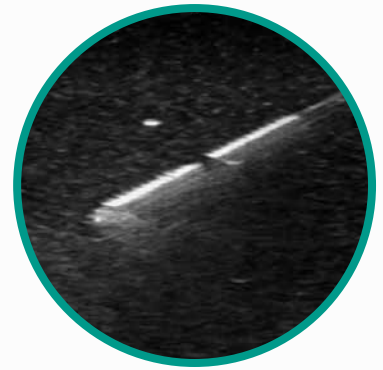
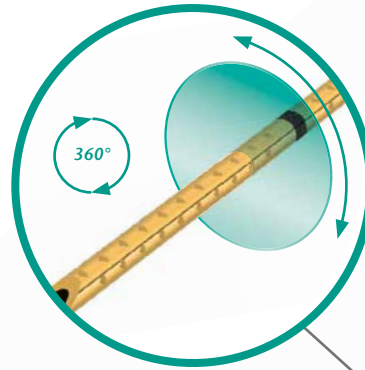


▶ SPROTTE® Special Tip

Cornerstone Reflectors

360 degree graduations on the first 20 mm of the needle

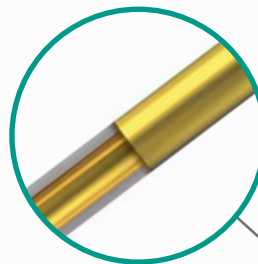
- Optimised ultrasound visibility of needle shaft and needle tip¹
- Reliable and optimised needle visualisation at any angle^{2,3}



NanoLine® Coating

Very thin polymer film on inner and outer needle surface

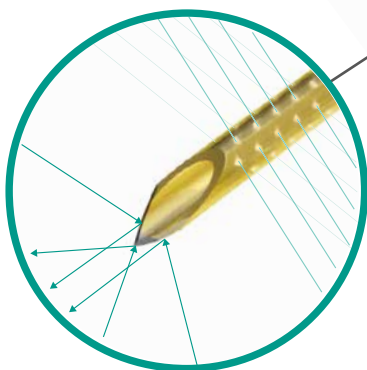
- Excellent puncture and gliding properties through smooth surface
- Improves visibility under ultrasound³
- Precise stimulation through the non-insulated needle tip



Depth Markings

- Easy to read and identify

Facet tip



Echogenic Needle Tip

Facet tip with two inclination angles

- Improves needle tip visibility under ultrasound



Also available in **NRFit**

1. Fuzier R, et al. The echogenicity of nerve blockade needles. *Anesth.* 2015; 70: 462-466
 2. Uppal V, et al. Effect of beam steering on the visibility of echogenic and non-echogenic needles: a laboratory study. *Can. J. Anesth.* 2014 Oct; 61 (10): 909-915
 3. Hebard S, Hocking G. Echogenic technology can improve needle visibility during ultrasound-guided regional anesthesia. *Reg. Anesth. Pain Med.* 2011 March-April; 36(2): 185-189

Echogenic and Non-echogenic Catheters for CTN Systems

PAJUNK® offers the widest nerve block catheter portfolio in the industry. Our portfolio includes amongst others the echogenic, stimulating and non-echogenic Catheter-Through-Needle systems, including a specialty curled catheter.



AVAILABLE CATHETER OPTIONS

Catheter Options

Non-echogenic

Echogenic

Stimulating & Echogenic

Products

▲ PlexoLong NanoLine®

● SonoLong Echo
★ SonoLong Curl Echo

■ StimuLong Sono II



Curled Tip ★

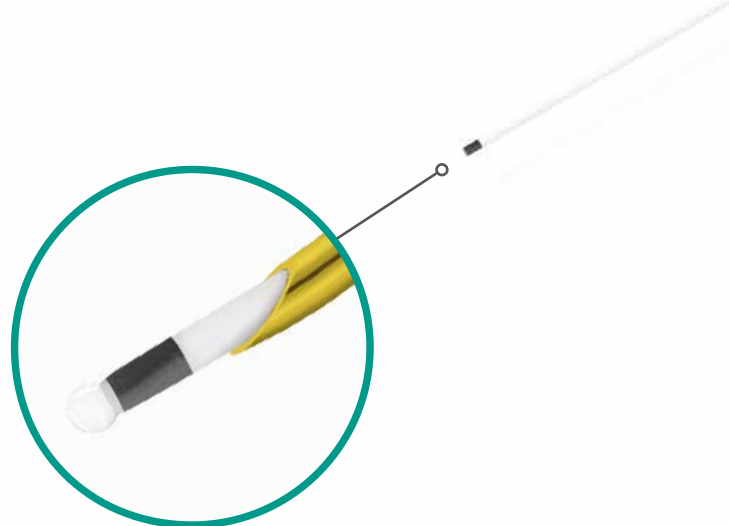
Specialty catheter with curled end, closed tip and six lateral openings
→ Allows for even distribution of local anaesthetic around the nerve^{4,5}



Catheter with Stimulating, Open Tip ■

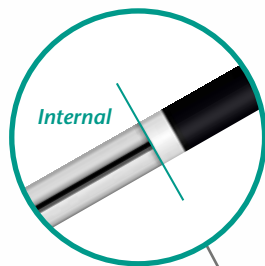
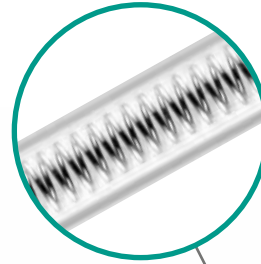
→ Precise conductivity and stimulation capability due to gold-plated catheter tip

Catheter with Open Tip ▲ ● ■



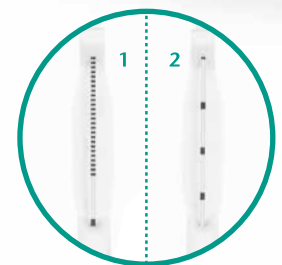
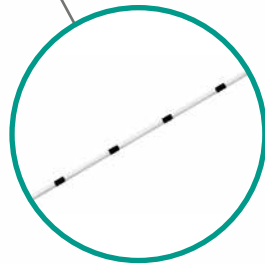
Stainless Steel Helical Coil ★■

- Improved ultrasound visibility
- Improved catheter flexibility and stability resulting in reduced chance of kinking⁶
- Radiopaque



Steel Stylet ▲●■

- Provides the catheter with improved stability
- Is placed in the introductory aid at its end, and is removed automatically with the container after catheter placement



Outlet Markings ★

- 1) 10 mm marking – catheter is exiting the needle tip
- 2) The catheter tip is completely curled up

Depth Markings ▲●★■

- Graduations on the first 30 cm
- Easy determination of catheter positioning
 - Easy to read and identify



Also available in NRFit®

4. Luyet C. et al. Eichenberger U. Placement of coiled catheters into the paravertebral space, *Anaesth.* 2012; 67: 250–255
 5. Luyet C. et al. Newly Designed, Self-Coiling Catheters for Regional Anesthesia – An Imaging Study, *Reg. Anesth. Pain. Med.*, Volume 36 Number 2, 2011; 171–176
 6. Toledano, R. D. et al. Epidural Catheter Design - History, Innovations, and Clinical Implications, *Anesthesiology*, V 121, No 1, 2014

Non-stimulating, Non-echogenic Catheter Sets

PlexoLong NanoLine® ▲

PlexoLong NanoLine with Facet tip	Size Needle	Size Catheter central opening	Item no.	NRFit® Item no.	PU	FixoLong	Filter	Clamping Adaptor
	19G x 50 mm (2")	20G x 50 cm (20")	531156-31A	531166-31A	10	•	•	•
	19G x 100 mm (4")	20G x 50 cm (20")	521156-31A	521166-31A	10	•	•	•
	19G x 150 mm (6")	20G x 50 cm (20")	511156-31A	511166-31A	10	•	•	•

PlexoLong NanoLine with Tuohy tip	Size Needle	Size Catheter central opening	Item no.	NRFit Item no.	PU	FixoLong	Filter	Clamping Adaptor
	18G x 50 mm (2")	20G x 50 cm (20")	531156-31C	531166-31C	10	•	•	•
	18G x 100 mm (4")	20G x 50 cm (20")	521156-31C	521166-31C	10	•	•	•

Non-stimulating, Echogenic Catheter Sets

SonoLong Echo ●

SonoLong Echo with Facet tip	Size Needle	Size Catheter central opening	Item no.	NRFit Item no.	PU	FixoLong	Filter	Clamping Adaptor
	19G x 50 mm (2")	20G x 50 cm (20")	531185-31A	531165-31A	10	•	•	•
	19G x 75 mm (3")	20G x 50 cm (20")	561185-31A	561165-31A	10	•	•	•
	19G x 100 mm (4")	20G x 50 cm (20")	521185-31A	521165-31A	10	•	•	•
	19G x 150 mm (6")	20G x 50 cm (20")	511185-31A	511165-31A	10	•	•	•

SonoLong Echo with Sprotte Special tip	Size Needle	Size Catheter central opening	Item no.	NRFit Item no.	PU	FixoLong	Filter	Clamping Adaptor
	19G x 60 mm (2 1/4")	20G x 50 cm (20")	531185-31B	531165-31B	10	•	•	•
	19G x 120 mm (4 3/4")	20G x 50 cm (20")	521185-31B	521165-31B	10	•	•	•

SonoLong Echo with Tuohy tip	Size Needle	Size Catheter central opening	Item no.	NRFit Item no.	PU	FixoLong	Filter	Clamping Adaptor
	18G x 50 mm (2")	20G x 50 cm (20")	531185-31C	531165-31C	10	•	•	•
	18G x 100 mm (4")	20G x 50 cm (20")	521185-31C	521165-31C	10	•	•	•
	18G x 150 mm (6")	20G x 50 cm (20")	511185-31C	511165-31C	10	•	•	•

SonoLong Curl Echo ★

SonoLong Curl Echo with Tuohy tip	Size Needle	Size Catheter closed tip and 6 lateral openings	Item no.	NRFit Item no.	PU	FixoLong	Filter	Clamping Adaptor
	18G x 50 mm (2")	20G x 50 cm (20")	531188-31C	531168-31C	10	•	•	•
	18G x 100 mm (4")	20G x 90 cm (35")	521188-34C	521168-34C	10	•	•	•

Stimulating, Echogenic Catheter Sets

StimuLong Sono II* ■

StimuLong Sono II
with Tuohy tip

Size Needle	Size Catheter central opening	Item no.	PU	FixoLong	Filter	StimuLong Clamping Adapter
18G x 50 mm (2")	20G x 50 cm (20")	531187-32C	10	•	•	•
18G x 100 mm (4")	20G x 50 cm (20")	521187-32C	10	•	•	•

*with connecting cable

StimuLong Sono II
with Facet tip

Size Needle	Size Catheter central opening	Item no.	PU	FixoLong	Filter	StimuLong Clamping Adapter
19G x 50 mm (2")	20G x 50 cm (20")	531187-32A	10	•	•	•
19G x 100 mm (4")	20G x 50 cm (20")	521187-32A	10	•	•	•



Scan now!

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