

# PAJUNK®

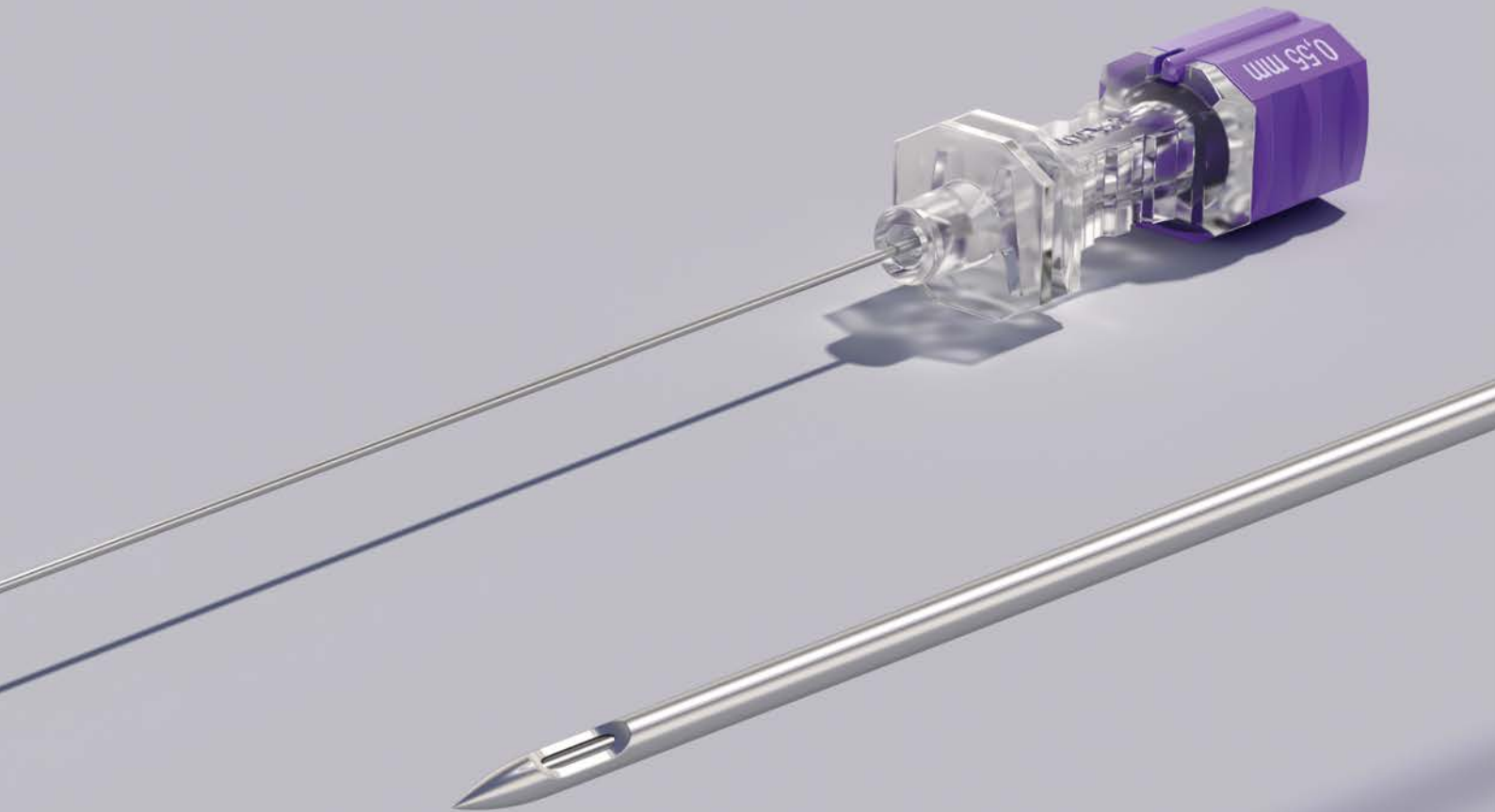


REGIONAL ANAESTHESIA  
& PAIN MANAGEMENT

## SPROTTE®

*Needles for Atraumatic  
Spinal Anaesthesia*

40  
YEARS OF  
SPROTTE®  

MADE IN GERMANY 

# The Pioneer of Atraumatic Dural Puncture

With the introduction of the first atraumatic Sprotte needle at the end of the 1970s, spinal anaesthesia was rehabilitated as a fully accepted alternative to general anaesthesia. A unique tip design is the secret of its success. Sprotte's atraumatic puncture and optimal gliding properties minimise possible injuries and prevent foreign bodies and tissue particles from being carried into the subarachnoid space, while reducing the incidence of post-dural puncture headache (PDPH).



## Highest Processing Quality

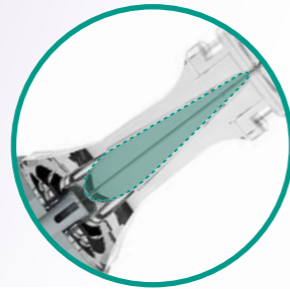
- High quality stainless steel needle for increased stability
- Smoothly polished and burr-free surface and inner lumen designed for optimised gliding properties and CSF backflow
- Consistent feel and reliable performance



## AVAILABLE OPTIONS

### Magnifying Hub

Clear, magnifying needle hub allows for easy visualisation of blood or CSF and easier detection of CSF flashback



### Standard Hub

- Designed for rapid detection of even the smallest quantities of CSF
- Reduced inner space



### Colour-Coded Needle Hub with Size Indication

- Easy identification of needle size



### Portfolio Excellence

- Wide needle range with different diameters and lengths
- Special designs for pediatrics and obese patients

Sprotte Introducer

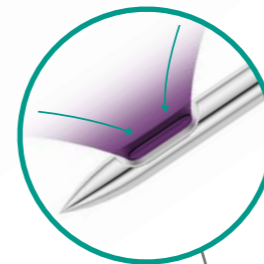
### Introducer with Facet Tip

- Diameter and length perfectly matched to each spinal needle size
- Minimal reduction of useable working length of the spinal needle
- Funnel-shaped hub to reduce chance of spinal needle tip damage during insertion



### Lateral Eye

- Burr-free, rounded atraumatic edges
- Optimised gliding properties
- Minimum chance of tissue coring and carry-over into the subarachnoid space

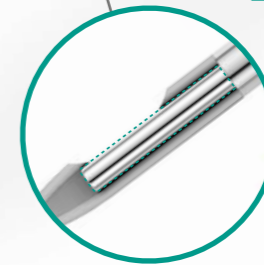


### Optimal Lateral Eye Size and Placement

- Unobstructed backflow, even if the eye is partially blocked by the arachnoid membrane
- Allows for quicker CSF flashback<sup>1</sup>

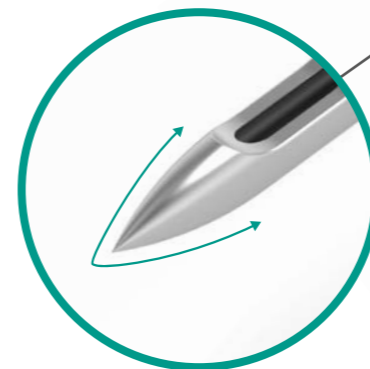
### Precision-Ground Metal Stylet

- Lateral eye closes precisely to minimise chance of tissue coring<sup>2</sup>
- Polished, rounded tip prevents abrasion on the inner needle tube



### Atraumatic Tip Design

- The ogive shaped tip significantly reduces the risk of PDPH and the rounded edges of the lateral eye minimise trauma to the dura mater.
- Minimises chance of PDPH<sup>3</sup>
- Consistent tactile feedback



Also available in NRFit®

1. Saenghirunvattana R. et al. A comparison study between newly-designed pencil-point and cutting needles in spinal anaesthesia. J. Med. Assoc. Thai. 2008; 91 (Suppl 1): S156-161  
2. Armon C., Evans R.V. Addendum to assessment: Prevention of postlumbal puncture headaches Report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology. Neurology, 2005; 65; 510  
3. Cesarini, M. et al. Sprotte needle for intrathecal anaesthesia for Caesarean section: incidence of postdural puncture headache. Anaesthesia 1990; 45: 646-658

**Sprotte  
needle**

Size	Introducer	Item no. Standard	Item no. Magnifying hub	NRFit® Item no. Magnifying hub	NRFit Sets* Item no. Magnifying hub	PU
27G x 25 mm (1")			101151-27A			25
27G x 35 mm (1 1/3")			111151-27A			25
27G x 70 mm (2 3/4")	30 mm (1 1/5")		121151-27B			25
27G x 90 mm (3 1/2")	30 mm (1 1/5")		121151-27A	021163-27A	021166-27A	25
27G x 90 mm (3 1/2")	40 mm (1 3/5")			211163-27A	211166-27A	25
27G x 103 mm (4")	40 mm (1 3/5")		141151-27A	041163-27A	041166-27A	25
27G x 123 mm (4 4/5")			231151-27A			10
27G x 120 mm (4 3/4")				231163-27A		10
27G x 120 mm (4 3/4")	40 mm (1 3/5")		151151-27A	031163-27A	031166-27A	10
25G x 35 mm (1 1/3")		001151-29E		001163-29E	001166-29E	25
25G x 70 mm (2 3/4")	30 mm (1 1/5")	021151-29B				25
25G x 90 mm (3 1/2")		501151-29A		501163-29A	501166-29A	25
25G x 90 mm (3 1/2")	30 mm (1 1/5")	021151-29A	511151-29A	021163-29A	021166-29A	25
25G x 90 mm (3 1/2")	40 mm (1 3/5")			211163-29A	211166-29A	25
25G x 103 mm (4")	40 mm (1 3/5")	041151-29A	161151-29A	041163-29A	041166-29A	25
25G x 120 mm (4 3/4")		031151-29A		031163-29A	031166-29A	10
25G x 120 mm (4 3/4")	40 mm (1 3/5")	051151-29A	171151-29A	051163-29A	051166-29A	10
25G x 123 mm (4 4/5")		151151-29A				10
25G x 150 mm (6")				261163-29A		10
25G x 150 mm (6")	40 mm (1 3/5")	061151-29A			061166-29A	10
24G x 25 mm (1")		001151-30D		001163-30D	001166-30D	25
24G x 35 mm (1 1/3")		001151-30E		001163-30E	001166-30E	25
24G x 70 mm (2 3/4")		001151-30B			001166-30B	25
24G x 70 mm (2 3/4")	30 mm (1 1/5")	021151-30B		021163-30B		10
24G x 90 mm (3 1/2")		001151-30A		001163-30A	001166-30A	25
24G x 90 mm (3 1/2")	30 mm (1 1/5")	121151-30A		121163-30A	121166-30A	25
24G x 103 mm (4")	40 mm (1 3/5")	021151-30A		021163-30A	521166-30A	25
24G x 120 mm (4 3/4")		031151-30A				10
24G x 120 mm (4 3/4")	40 mm (1 3/5")	041151-30A		041163-30A	041166-30A	10
24G x 150 mm (6")		141151-30A				10
24G x 150 mm (6")	40 mm (1 3/5")	131151-30A		131163-30A	131166-30A	10
24G x 200 mm (8")	40 mm (1 3/5")	0051151-30				10
22G x 50 mm (2")		071151-30C		071163-30C	071166-30C	25
22G x 70 mm (2 3/4")		051151-30C				25
22G x 70 mm (2 3/4")	30 mm (1 1/5")	051151-30B				25
22G x 90 mm (3 1/2")		001151-30C		001163-30C		25
22G x 90 mm (3 1/2")	30 mm (1 1/5")	021151-30C		021163-30C	021166-30C	25
22G x 103 mm (4")		521151-30C		521163-30C		25
22G x 103 mm (4")	40 mm (1 3/5")	221151-30C		221163-30C	221166-30C	25
22G x 120 mm (4 3/4")				031163-30C		10
22G x 120 mm (4 3/4")	40 mm (1 3/5")	131151-30C		131163-30C		10
22G x 150 mm (6")		041151-30C				10
22G x 150 mm (6")	40 mm (1 3/5")	141151-30C		141163-30C	141166-30C	10

**Sprotte  
introducer**

Size	Matching Sprotte Size	Item no.	NRFit Item no.	PU
22G x 30 mm (0.70 mm x 1 1/5")	27G	071151-30L		25
21G x 30 mm (0.80 mm x 1 1/5")	24G, 25G	021151-30L	021163-30L	25
21G x 40 mm (0.80 mm x 1 3/5")	24G, 25G	021151-30M	021163-30M	25
20G x 30 mm (1.00 mm x 1 1/5")	22G	001151-30L	001163-30L	25
20G x 40 mm (1.00 mm x 1 3/5")	22G	001151-30M	001163-30M	25
19G x 30 mm (1.10 mm x 1 1/5")	21G	051151-30L		25
17G x 30 mm (1.30 mm x 1 1/5")	19G	091151-30L		25

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