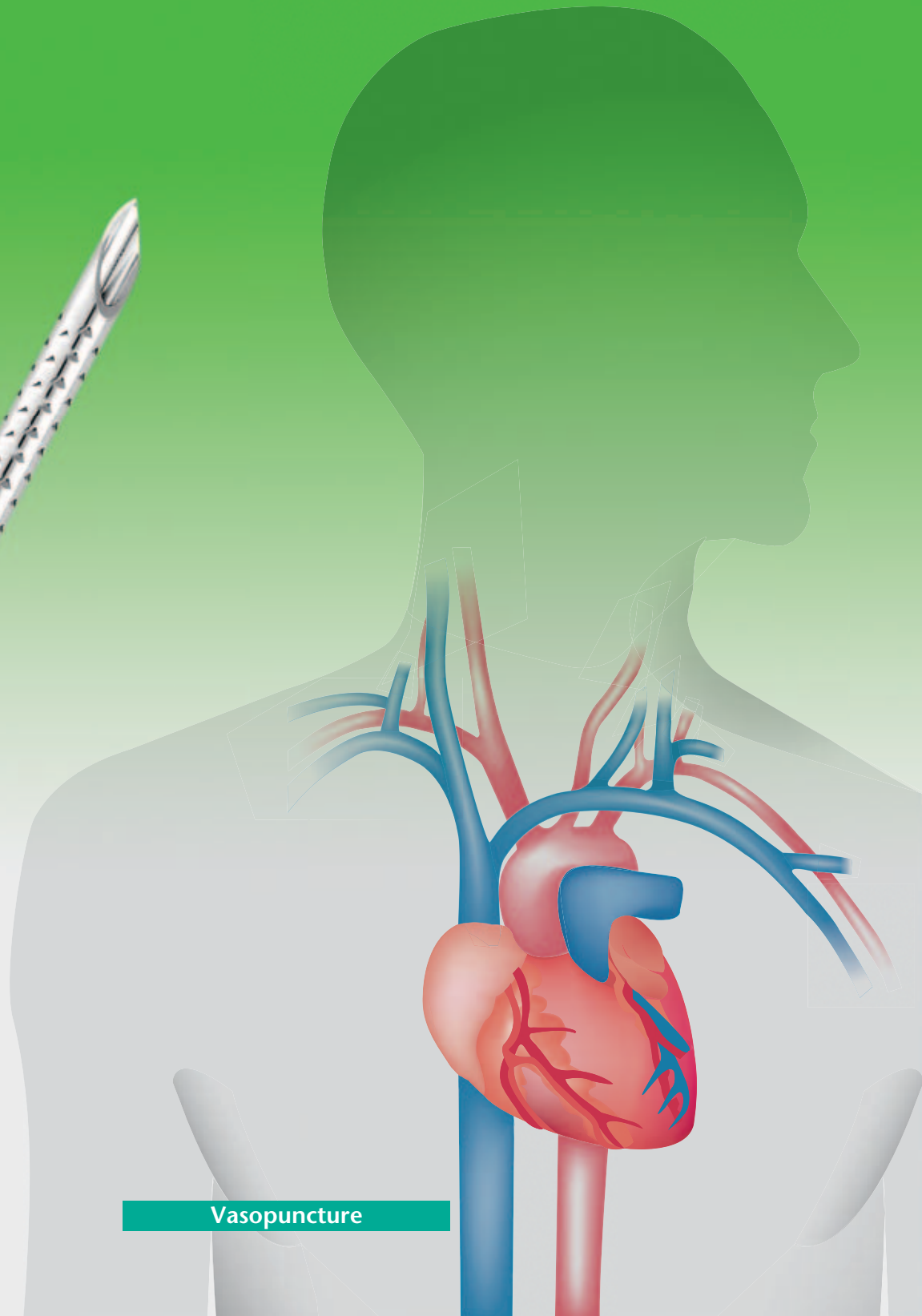
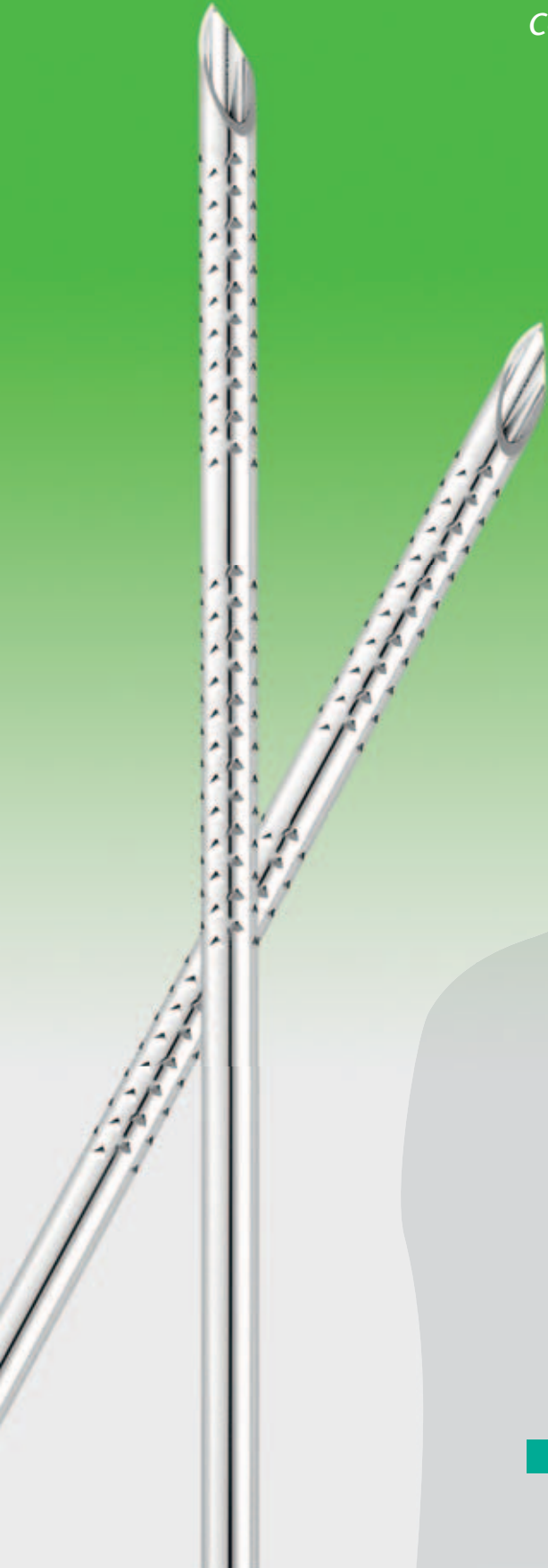


**PAJUNK®**

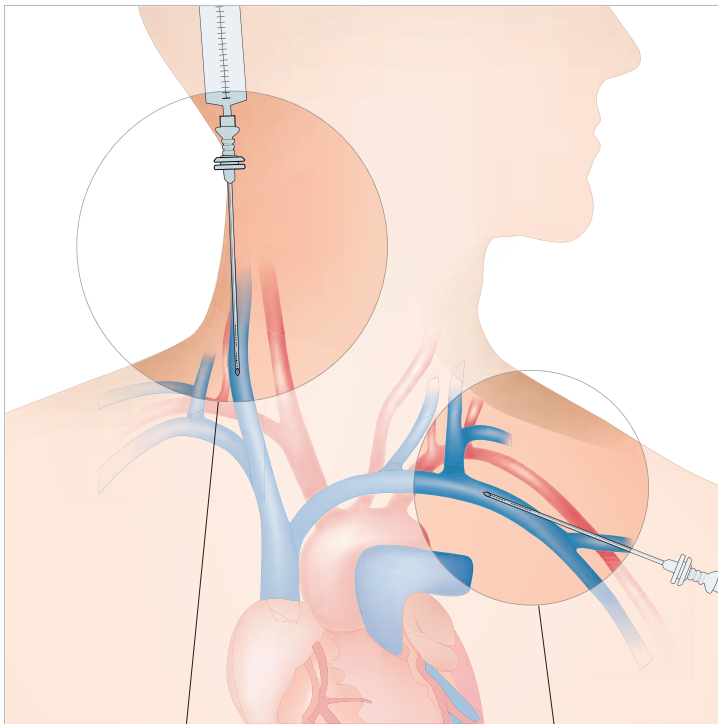
## *VascularSono*

*The cannula visible to ultrasound for  
central venous and arterial punctures*

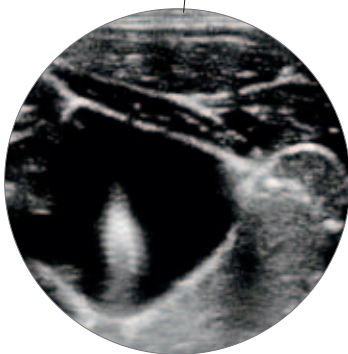


Vasopuncture

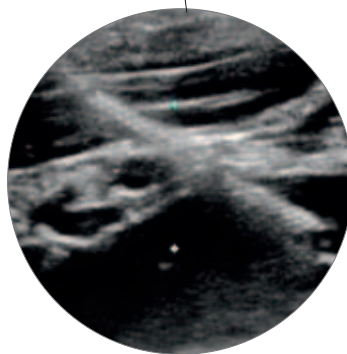
## Field of application of the VascularSono cannula "out-of-plane" and "in-plane"



- ➔ Innovative generation of cannulas with "Cornerstone" reflectors
- ➔ Excellent echogenic properties
- ➔ Guaranteed visibility even for flat puncture angle
- ➔ Risk of complications reduced to a minimum



"Out of plane" view of the VascularSono in the Internal Jugular vein.



"In plane" view of the VascularSono in the Subclavian vein.

### VascularSono



Product	Size	Item no.	PU
VascularSono cannula	21 G x 35 mm *	1187-4F035	25
VascularSono cannula	18 G x 40 mm	1187-4K040	25
VascularSono cannula	18 G x 70 mm	1187-4K070	25
VascularSono cannula	18 G x 100 mm	1187-4K100	25

Cannula matching with guidance wires up to 0.035 inch.

\* for paediatrics

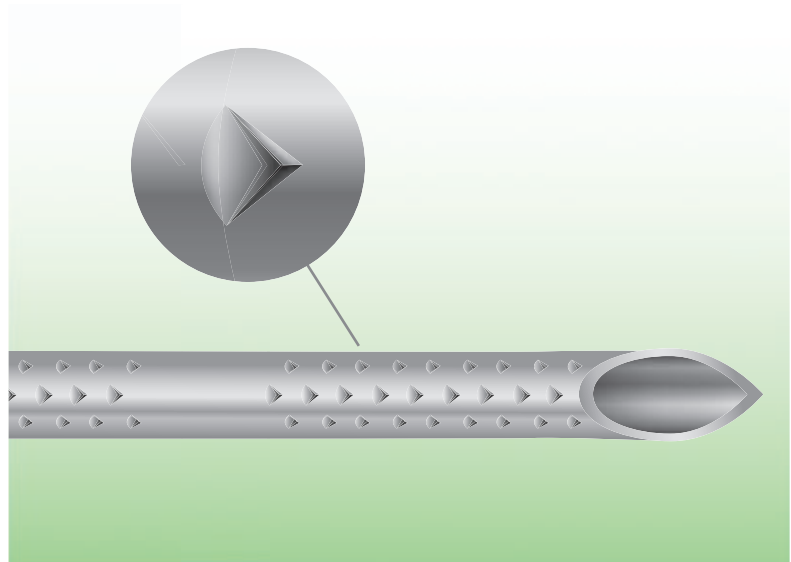
VascularSono

## **The echogenic cannula for ultrasound guided central venous and arterial punctures**

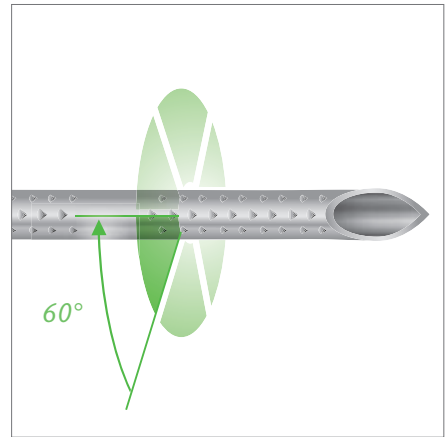
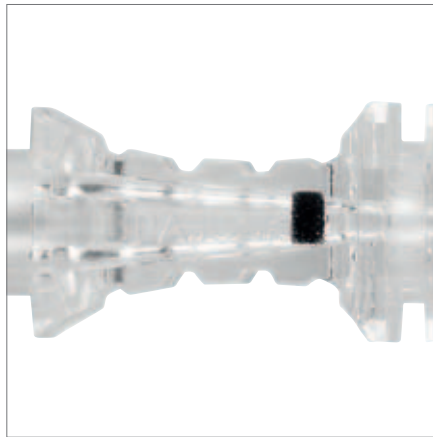
*VascularSono is a brightly echogenic vascular puncture cannula that maximizes the advantages of ultrasound guidance, and hence it will reduce complications. Ultrasound guidance of central venous and arterial access has improved safety and become the standard, but at the steep puncture angle required, the ultrasound waves striking conventional needles are reflected away from the ultrasound transducer making the needle shaft invisible.*

*The tips of conventional needles are also difficult to see and it is often necessary to infer the needle tip position from tissue movement. Due to these difficulties, complications such as failure to insert the guide wire, arterial puncture, haematoma and pneumothorax continue to occur.*

*VascularSono incorporates "Cornerstone" reflectors, which are on the distal 2 cm of the cannula. This technology, developed by PAJUNK®, is already being used successfully in PAJUNK® regional anaesthesia needles. The "Cornerstone" reflectors guarantee the visibility of the cannula shaft, independent of the puncture angle. When a blood vessel is viewed in "short axis" and the VascularSono cannula is advanced in an "out of plane" orientation, the tip is easily guided to the middle of the vessel. In addition the VascularSono cannula can be easily viewed "in plane" which facilitates exact positioning of the tip within the vessel, optimizing insertion of the guide wire.*



The "Cornerstone" reflectors (patent pending) are arranged around the VascularSono cannula. The "three-walled" indentation guarantees reflection of ultrasound waves independent of the cannula puncture angle.



### Marking

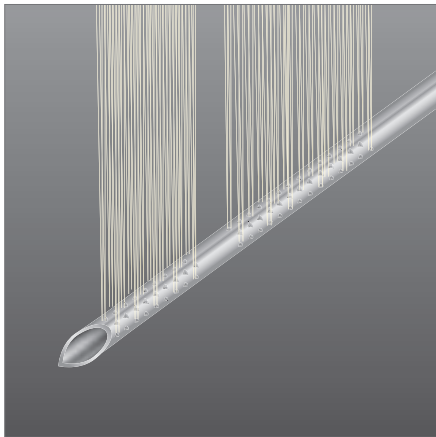
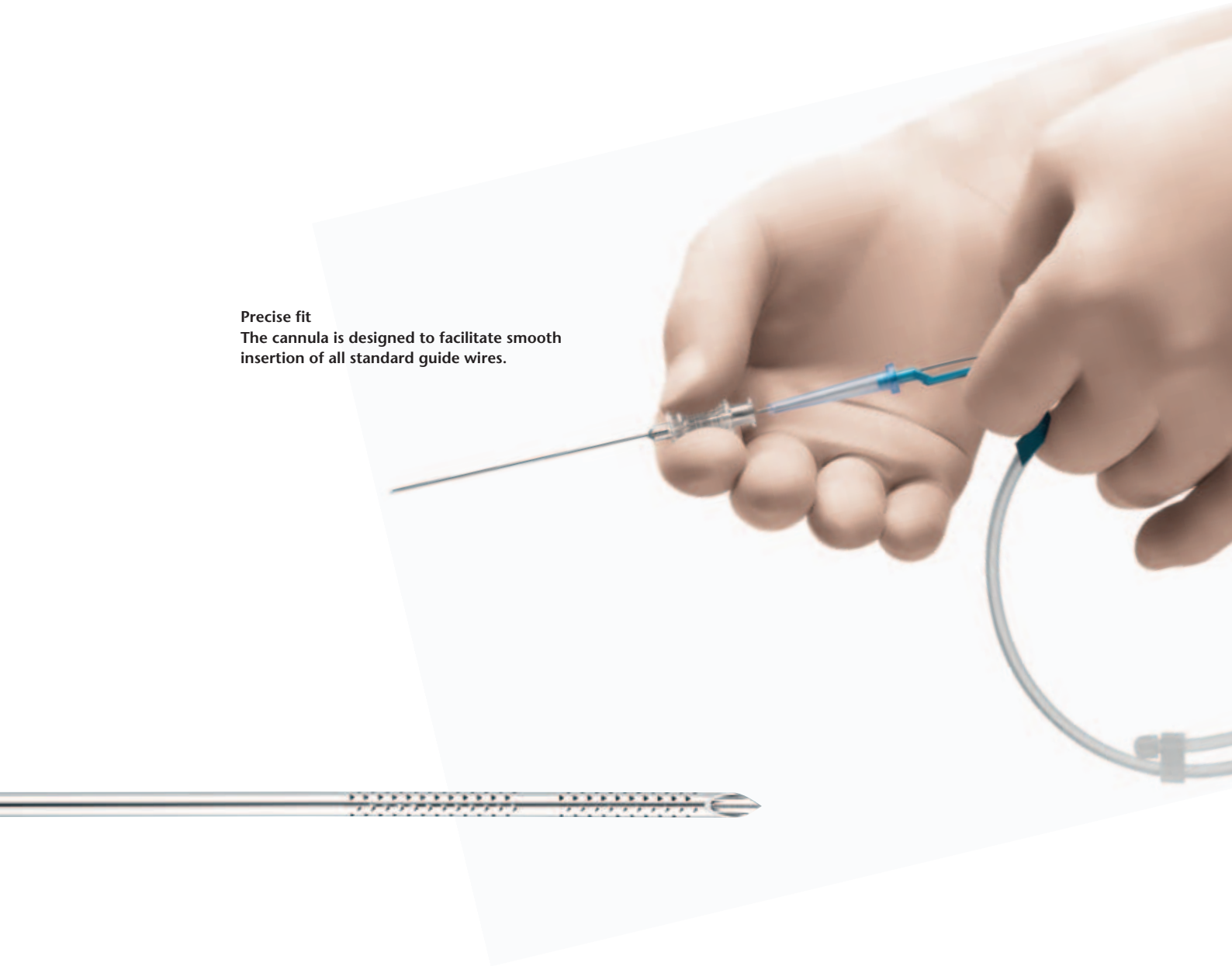
The black marking on the cannula hub simplifies checking the position of the cannula tip.

### Sophisticated Cornerstone texture

The distal end of the VascularSono cannula is equipped with two Cornerstone-segments 10 mm each (circumferential array, 60° staggered).

➔ Identification of the cannula in every position is optimized.

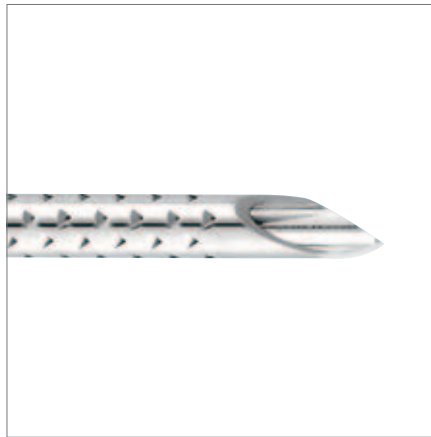
**Precise fit**  
The cannula is designed to facilitate smooth insertion of all standard guide wires.



**Visibility – independent of the puncture angle**

The alignment of the "Cornerstone" reflectors was designed to maximise the reflection when the cannula is inserted at a steep puncture angle.

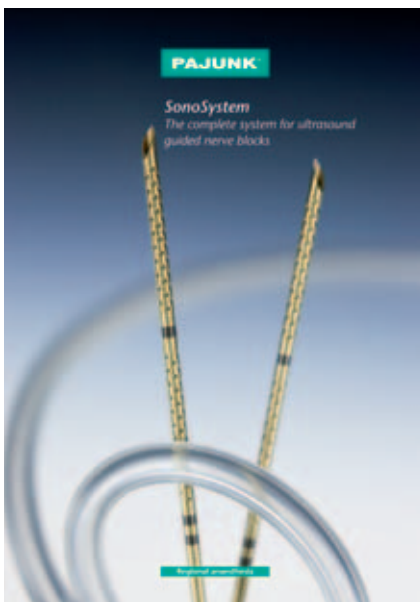
➔ The effect is that the cannula is perfectly visible at every puncture angle.



**Perfect antifriction properties**

Cannula version with bevelled tip

➔ Excellent antifriction properties in all tissue layers.



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