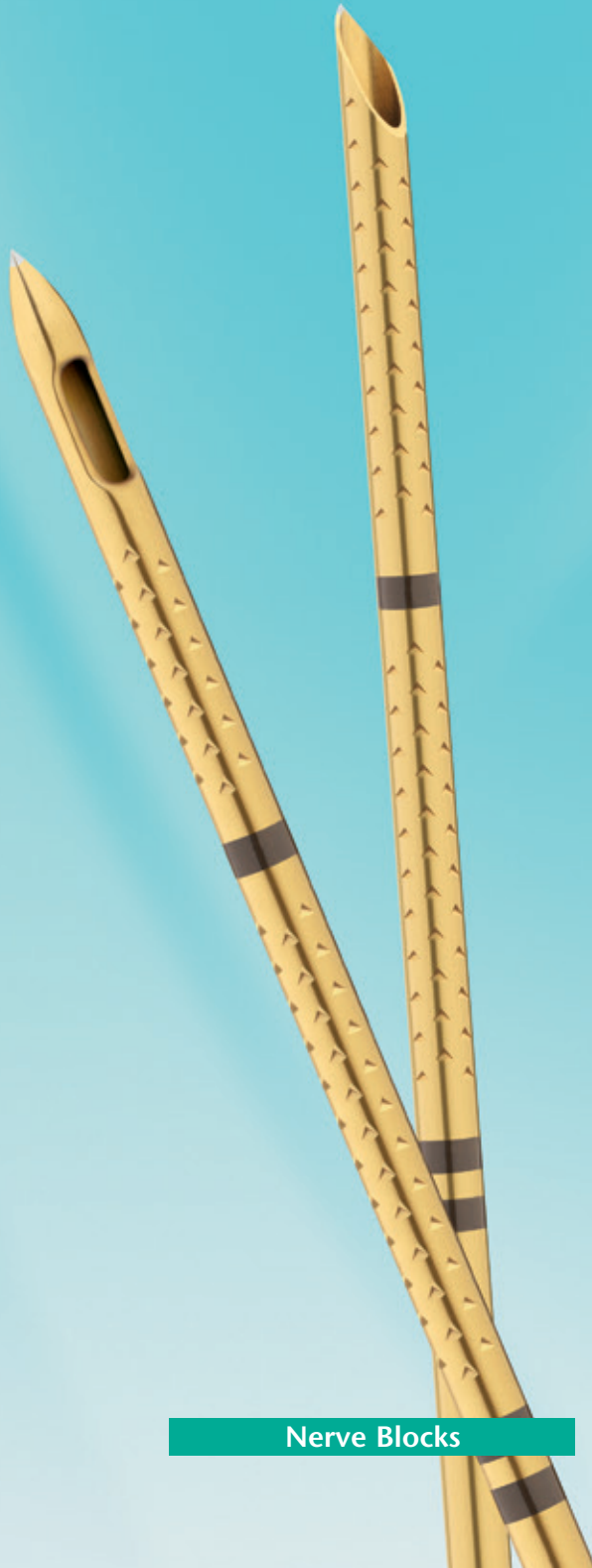


**PAJUNK®**

***SonoPlex/SonoBlock***  
*Echogenic Single Shot Needles for NB*



**Nerve Blocks**

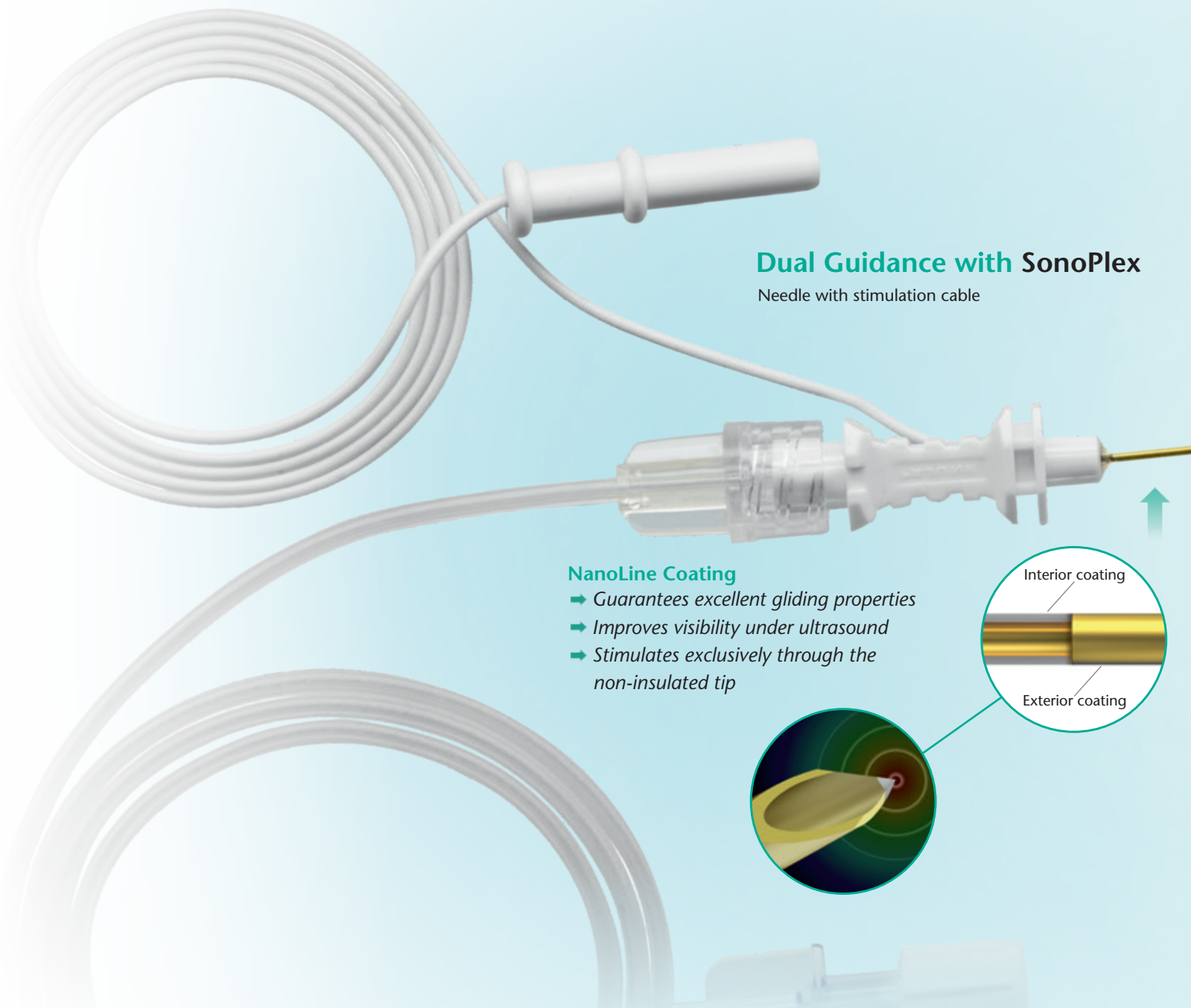
Made in  
**GERMANY** 

## SonoPlex and SonoBlock

# The benchmark in Single Shot Nerve Blocks

Needle shaft and tip identification are major prerequisites to avoid nerve or blood vessel damage when performing ultrasound guided Regional Anesthesia procedures.<sup>1</sup> Many needles do not provide the necessary reflective qualities to allow for a good and safe decision basis on needle positioning, especially at steep angles.<sup>2,3,6</sup>

The patented "Cornerstone Reflectors", that are the major feature of all Pajunk echogenic needles, solve the above problem and provide the best ultrasound visibility possible, irrespective of the insertion angle.<sup>4,5,6</sup>

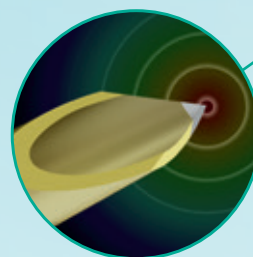
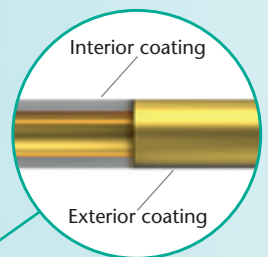


### Dual Guidance with SonoPlex

Needle with stimulation cable

#### NanoLine Coating

- ➔ Guarantees excellent gliding properties
- ➔ Improves visibility under ultrasound
- ➔ Stimulates exclusively through the non-insulated tip



1 Wiesmann et al., Compound imaging technology and echogenic needle ..., 2013; 38(5): 452-455

2 Uppal, Sondekoppam, Ganapathy, Effect of beam steering on ..., 2014; 61(10): 909-915

3 Sviggum, Ahn, Dilger, Smith, Needle echogenicity in sonographically ..., 2013; 32(1): 143-148

4 Hebard, Hocking, Echogenic technology can improve needle visibility ..., 2011; 36(2): 185-189

5 Edgcombe, Hocking, Sonographic identification of needle tip ..., 2010; 35(2): 207-211

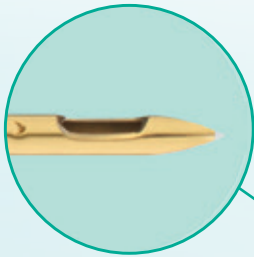
6 Fuzier et al., The echogenicity of nerve block needles, 2015; 70: 462-466

### Echogenic needle tip

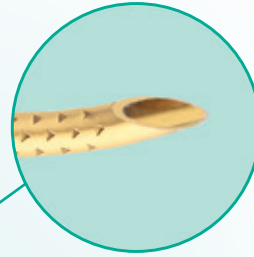
➔ The facet grinding with two inclination angles improves needle tip visibility under ultrasound



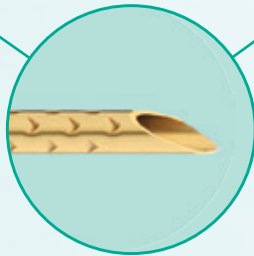
### Available tip geometries



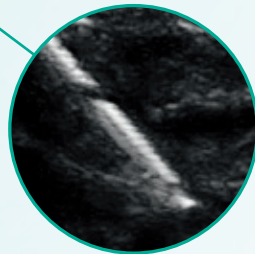
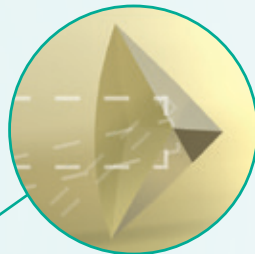
SPROTTE® tip



Tuohy tip



Facet tip



### “Cornerstone Reflectors” for best echogenicity

- ➔ Optimized ultrasound visibility of needle shaft
- ➔ Reliable needle visualization at any angle
- ➔ 360 degree graduations on the first 20mm of the needle

## Ultrasound Guidance with SonoBlock

Needle without stimulation cable



# Studies

- **Edgcombe H., Hocking G.** Sonographic identification of needle tip by specialists and novices: a blinded comparison of 5 regional block needles in fresh human cadavers, *Reg. Anesth. Pain Med.* 2010 March–April; 35(2): 207–211
- **Fuzier R., Casalprim J., Bataille B., Harper I., Magues J. P.,** The echogenicity of nerve blockade needles, *Anaesthesia* 2015; 70: 462–466
- **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
- **Sviggum H. P., Ahn K., Dilger J. A., Smith H. M.** Needle echogenicity in sonographically guided regional anesthesia: blinded comparison of 4 enhanced needles and validation of visual criteria for evaluation, *J. Ultrasound Med.* 2013 Jan; 32(1): 143–148
- **Uppal V., Sondekoppam R. V., Ganapathy S.** 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
- **Wiesmann T., Borträger A., Zoremba M., Neff M., Wulf H., Steinfeldt T.** Compound imaging technology and echogenic needle design: effects on needle visibility and tissue imaging, *Reg. Anesth. Pain Med.* 2013 Sep–Oct; 38(5): 452–455

## SonoPlex

Echogenic, stimulating needle with injection tubing & stimulation cable

Size	Item no.	PU
22 G x 1 5/8" (40 mm) with facet tip	001187-70	10
22 G x 2" (50 mm) with facet tip	001187-74	10
22 G x 3 1/4" (80 mm) with facet tip	001187-71	10
21 G x 4 (100 mm) with facet tip	001187-77	10
20 G x 4 3/4" (120 mm) with facet tip	001187-72	10
20 G x 6" (150 mm) with facet tip	001187-76	10
<hr/>		
24 G x 1" (25 mm) with facet tip, dull version	001185-75	10
22 G x 1 5/8" (40 mm) with facet tip, dull version	001185-70	10
22 G x 2" (50 mm) with facet tip, dull version	001185-74	10
22 G x 3 1/4" (80 mm) with facet tip, dull version	001185-71	10
21 G x 4 (100 mm) with facet tip, dull version	001185-77	10
20 G x 4 3/4" (120 mm) with facet tip, dull version	001185-72	10
20 G x 6" (150 mm) with facet tip, dull version	001185-76	10
<hr/>		
24 G x 1 5/8" (40 mm) with SPROTTE® tip	001185-30G	10
22 G x 2" (50 mm) with SPROTTE tip	001185-31G	10
22 G x 2 3/4" (70 mm) with SPROTTE tip	001185-31H	10
22 G x 3 1/2" (90 mm) with SPROTTE tip	001185--31J	10
<hr/>		
18 G X 2" (50 mm) with Tuohy tip	501185-31H	10
18 G X 4" (100 mm) with Tuohy tip	501185-31G	10
18 G X 6" (150 mm) with Tuohy tip	501185-31I	10

## SonoBlock

Echogenic, non-stimulating needle with injection tubing

Size	Item no.	PU
22 G x 1 5/8" (40 mm) with facet tip	001181-70	10
22 G x 2" (50 mm) with facet tip	001181-74	10
22 G x 3 1/4" (80 mm) with facet tip	001181-71	10
21 G x 4" (100 mm) with facet tip	001181-77	10
20 G x 4 3/4" (120 mm) with facet tip	001181-72	10
<hr/>		
22 G x 1 5/8" (40 mm) with facet tip, dull version	001180-70	10
22 G x 2" (50 mm) with facet tip, dull version	001180-74	10
22 G x 3 1/4" (80 mm) with facet tip, dull version	001180-71	10
21 G x 4" (100 mm) with facet tip, dull version	001180-77	10
20 G x 4 3/4" (120 mm) with facet tip, dull version	001180-72	10
<hr/>		
24 G x 1 5/8" (40 mm) with SPROTTE tip	001180-30G	10
22 G x 2" (50 mm) with SPROTTE tip	001180-31G	10
22 G x 2 3/4" (70 mm) with SPROTTE tip	001180-31H	10
22 G x 3 1/2" (90 mm) with SPROTTE tip	001180-31J	10



Go to [www.pajunkusa.com/sonocannula.php](http://www.pajunkusa.com/sonocannula.php)  
for product details and video

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