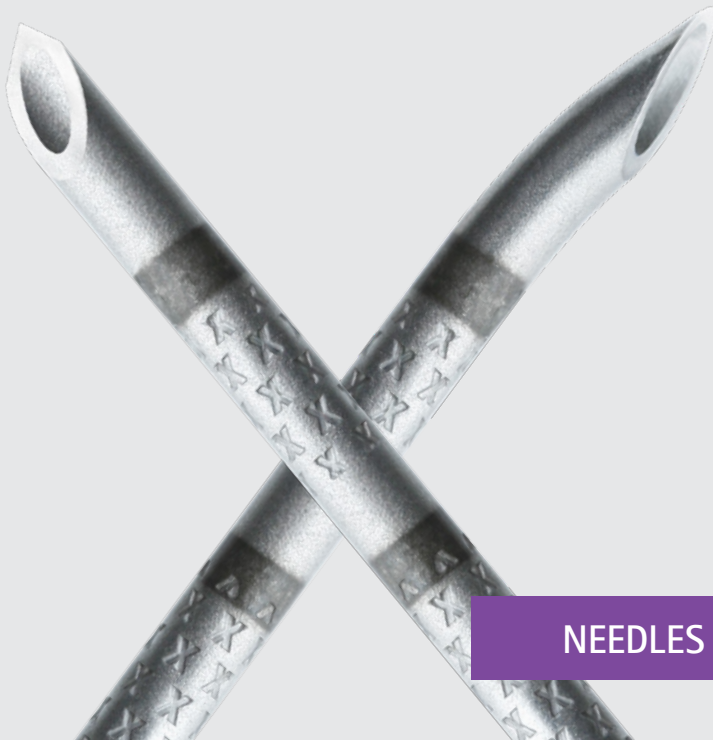


# Accuracy Matters

Peripheral Nerve Block Solutions Designed for Improved Outcomes

**B|BRAUN**  
SHARING EXPERTISE



NEEDLES



CATHETERS



MONITORS



TRAYS



# Peripheral Nerve Block Solutions Impact Patient Outcomes



*The Stimplex® Ultra 360® Needle was ranked highest in a study<sup>1</sup> comparing four manufacturers' needles (Pajunk's Sonoplex, Arrow's StimuQuick Echo, Vygon's Echoplex and B. Braun's Stimplex Ultra 360).*



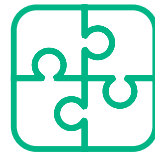
With over **600** epidural, spinal and peripheral nerve block products available, we're focused on providing the broadest portfolio to not only meet patient needs, but to exceed them.

The use of Regional Anesthesia, pain management and B. Braun nerve block products are important choices in improving patient and facility outcomes.



# Reimagining Regional Anesthesia

## B. Braun Medical is a Market Leader in Regional Anesthesia



### Solutions for Your PNB Challenges

When performing a peripheral nerve block, there is no such thing as being too safe. The Stimuplex® Ultra 360® Needle, Stimuplex HNS12 Nerve Stimulator and B-Smart™ Injection Pressure Monitor help take away the guesswork. Stimuplex HNS12 Nerve Stimulator and B-Smart Injection Pressure Monitor offer objective information. They are designed to help avoid nerve injury and lead to more accurate nerve block injections.



### Next Generation of Echogenic Needle

Stimuplex Ultra 360, the most preferred needle on the market, as well as the Ultraplex 360® and Contiplex® Ultra 360 needles feature B. Braun's echogenic 360 X-pattern. This unique "X" shape combined with a clear coating helps reflect more ultrasound waves back to the probe than previous designs.<sup>2</sup> These needles are designed to provide visibility without compromising puncture characteristics.



### Triple-Check Is the New Double-Check

The Ultra 360 Needles under ultrasound visualization, combined with the Stimuplex HNS12 Nerve Stimulator and B-Smart Injection Pressure Monitor can help lead to more accurate nerve block injections. The use of synergistic, complementary monitors provides a greater level of situational awareness to help guide more informed decisions on needle placement and injections.

*These symbols are used throughout the brochure for easy identification of products with enhanced echogenicity and/or stimulation capability.*



ENHANCED  
NEEDLE  
ECHOGENICITY



ENHANCED  
CATHETER  
ECHOGENICITY



STIMULATING  
NEEDLE



STIMULATING  
CATHETER



## Why Regional Anesthesia?

Regional Anesthesia (RA) and peripheral nerve blocks (PNBs) improve patient outcomes. RA and multimodal analgesia have revolutionized pain management to reduce dependency on opioids and gas anesthesia.<sup>3</sup>

# Single Shot PNB Needles

## Stimuplex® Ultra 360® Needle

### For Dual Guidance Techniques

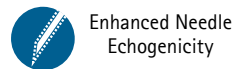
- Echogenic markings along first 2 cm
- Stimulation capability
- 30° bevel
- Ergonomic hub



Gauge	Length	Order No.
22	1 3/8 in. (35 mm)	333640
22	2 in. (50 mm)	333642
22	3 1/8 in. (80 mm)	333644
20	4 in. (100 mm)	333648
20	6 in. (150 mm)	333646

### Stimuplex Ultra 360 Needle Trays

Needle	Cover & Gel	Product Code	Order No.
2 in.	Yes	SNB200U3	332135
4 in.	Yes	SNB400U3	332137



### System Advantages

#### Stimuplex Ultra 360 Needle and Ultraplex 360® Needle

- Designed for better echogenicity - X-pattern and clear coating results in better ultrasound visualization and tip identification<sup>2</sup>
- 360° visibility - 360° markings designed for ultrasound visibility from all sides
- 30° Back-Cut Bevel - designed for consistent puncture

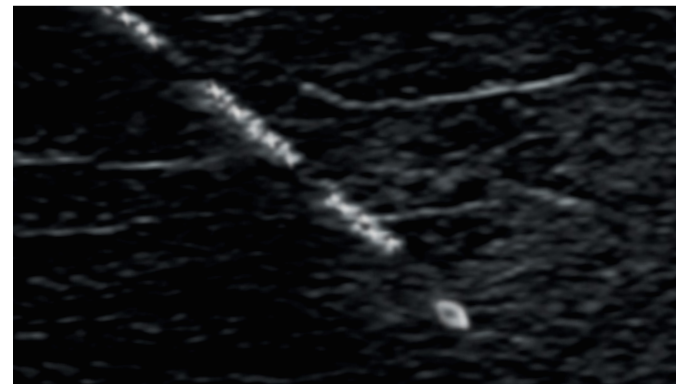
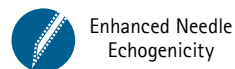
## Ultraplex 360® Needle

### For Ultrasound-Only Techniques

- Echogenic markings along first 2 cm
- 30° bevel
- Ergonomic hub



Gauge	Length	Order No.
22	2 in. (50 mm)	333630
22	3 1/8 in. (80 mm)	333632
20	4 in. (100 mm)	333634
20	6 in. (150 mm)	333636



22 Ga. Stimuplex Ultra 360 Needle in simulation model

# Continuous PNB Sets and Trays

## Better Echogenicity—Better Results

## Contiplex® C Catheter-Over-Needle System

### For Dual Guidance Techniques

- 7.5 in. catheter-over-needle design
- 30° bevel configuration
- Catheter visible under ultrasound
- Insulated needle with exposed tip

### Contiplex C Catheter-Over-Needle System Sets with C-Grip

Bevel	Product Code	Order No.
30°	CONTIPLEXC/30	333697

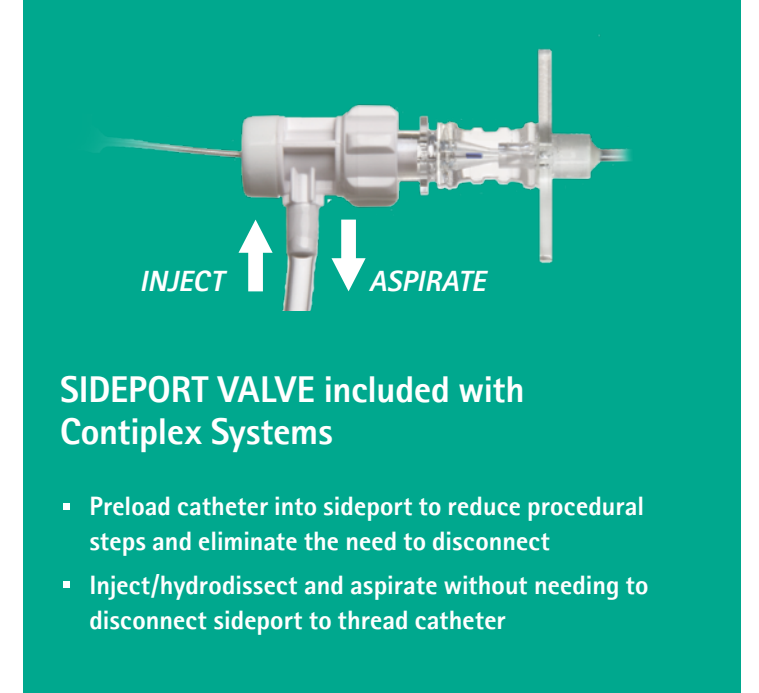
Stimulating Needle

Enhanced Catheter Echogenicity



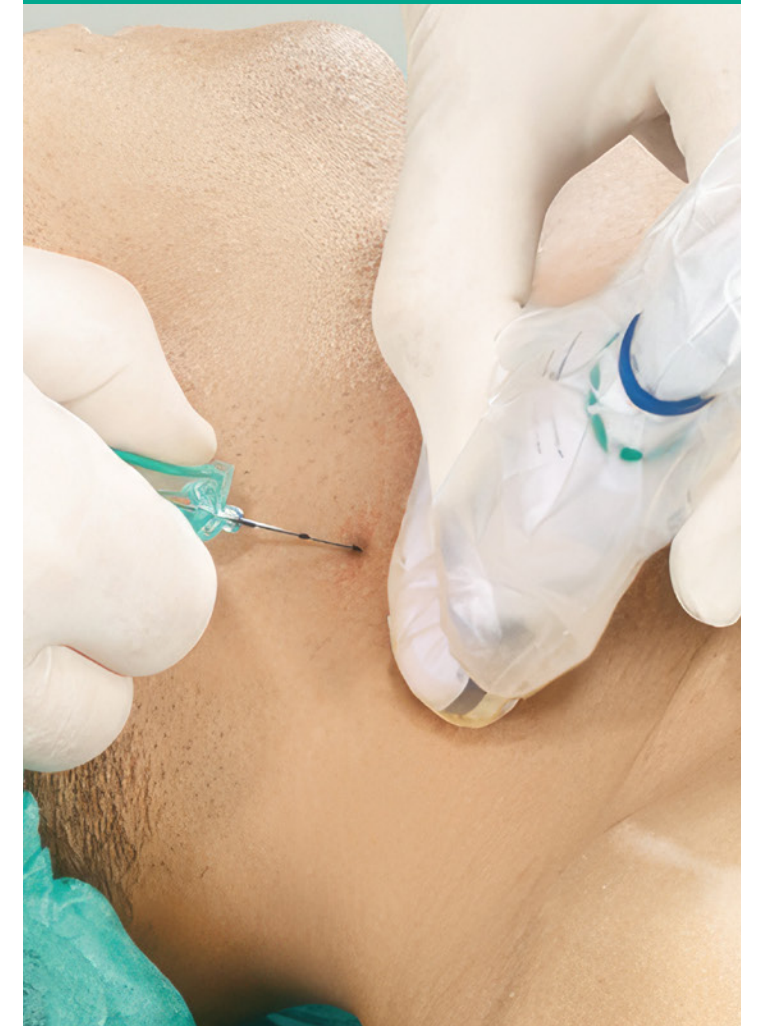
### SYSTEM ADVANTAGES

- **One step** – Once the catheter-over-needle system is in the right location, remove the needle—the catheter is in place
- **Help reduce leakage** – When the needle is removed, the catheter is designed to seal the puncture site to help reduce leakage
- **Bevel design** – Contiplex C 30° bevel and small 25 Ga. needle



### SIDEPORT VALVE included with Contiplex Systems

- Preload catheter into sideport to reduce procedural steps and eliminate the need to disconnect
- Inject/hydrodissect and aspirate without needing to disconnect sideport to thread catheter



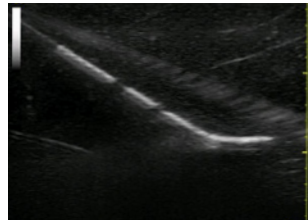


# Continuous PNB Sets and Trays

## Contiplex® Echo Echogenic Catheter and Needle System

### For Dual Guidance Techniques

- Includes stimulating 18 Ga. Contiplex Ultra 360 Tuohy Needle
- Echogenic markings along first 2 cm of needle
- 20 Ga. Contiplex Echo Catheter - available in open and closed tip

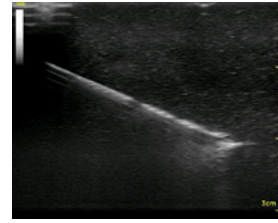


18 Ga. Contiplex Ultra 360 Needle with 20 Ga. Contiplex Echo catheter in simulation model

## Contiplex® Ultra 360 Needle

### For Dual Guidance Techniques

- Includes stimulating 18 Ga. Contiplex Ultra 360 Tuohy Needle
- Echogenic markings along first 2 cm of needle
- 20 Ga. Contiplex polyamide catheter - closed tip



18 Ga. Contiplex Ultra 360 Needle in simulation model

### Contiplex Echo Echogenic Catheter and Needle System Sets with Contiplex Ultra 360 Needle

Needle	Catheter	Product Code	Order No.
4 in.	Open Tip	CNB400TU3E0	331766
2 in.	Closed Tip	CNB200TU3EC	331767
4 in.	Closed Tip	CNB400TU3EC	331768



Stimulating Needle Enhanced Needle Echogenicity Enhanced Catheter Echogenicity

### Contiplex Ultra 360 Needle Sets with Perifix Standard Catheter

Needle	Product Code	Order No.
2 in.	CNB200TU3	331640
4 in.	CNB400TU3	331641
6 in.	CNB600TU3	331642



Stimulating Needle Enhanced Needle Echogenicity

### Contiplex Echo Echogenic Catheter and Needle System Tray with Contiplex Ultra 360 Needle

Needle	Cover & Gel	Product Code	Order No.
4 in.	Yes	CNB400TU3KUE	332170



Stimulating Needle Enhanced Needle Echogenicity Enhanced Catheter Echogenicity

### Contiplex Ultra 360 Needle Trays with Perifix Standard Catheter

Needle	Cover & Gel	Product Code	Order No.
2 in.	Yes	CNB200TU3KU	332142
4 in.	Yes	CNB400TU3KU	332143



Stimulating Needle Enhanced Needle Echogenicity

## SYSTEM ADVANTAGES



- Contiplex Echo Catheter:** Entire catheter length constructed with flat metal coils designed to be echogenic

- Perifix Standard Catheter:** Kink-resistant design

### Contiplex Ultra 360 Needle:

- Better echogenicity - X-pattern and clear coating result in better ultrasound visualization and tip identification?
- 360° visibility - 360° markings designed for ultrasound needle visibility from all sides on needle

# Support and Design Options® Tray Solutions

## Support Trays

For providers that want flexibility in choice of procedural needle while maintaining convenience and consistency

- Configured for single shot or continuous procedures
- Configurations available focusing on Ultrasound-Only, Dual Guidance Monitoring and Stimulation procedures



### Single Shot and Continuous Catheter Support Trays

Description	Product Code	Order No.
Single Shot Support Tray	NB100	332100
Continuous Catheter Support Tray	NB300	332105
Continuous Catheter Support Tray with ultrasound probe cover and gel	NB400	332103

## SYSTEM ADVANTAGES

- Flexibility to choose different needle for each procedure
- Available with Ultrasound Probe Cover and Gel

## Design Options Pain Management Trays

For providers that want an individualized solution

- Trays can be designed precisely the way individual technique and procedures require



Contact your B. Braun representative for complete set and tray components. Trays not available in Canada.

## SYSTEM ADVANTAGES

- Quality** - Offers the same high quality procedural components found in our standard trays
- Convenience** - Assists with standardizing by customizing and avoiding the cost and complications associated with stocking multiple products
- Value** - Ability to choose from many existing tray configurations in our Design Options® piggyback program



# Nerve Stimulator

## Stimuplex® HNS12 Nerve Stimulator with SENSE Technology

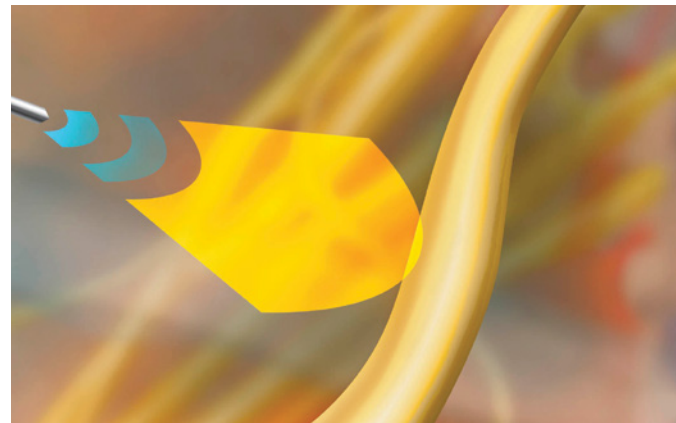
For providers who want peripheral nerve stimulation aimed at ease of use and greater procedural flexibility

- Variable pulse duration settings
- Built-in impedance monitor
- Large text display
- Menus designed for easy control of sounds and other settings
- Direct access keys allow quick changes to stimulus frequency and pulse duration

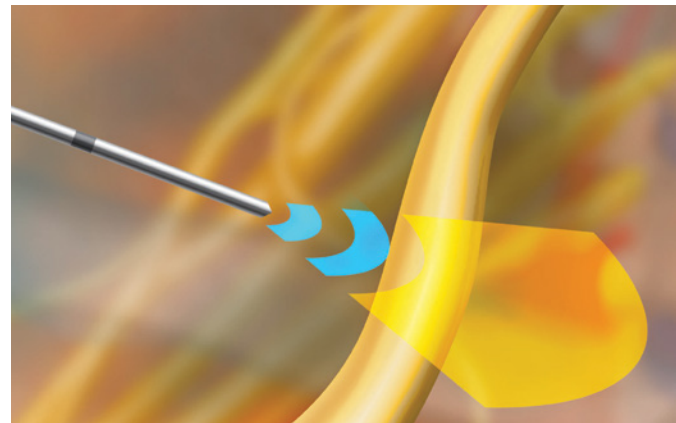


## Get the twitch sooner. Maintain it longer.

- SENSe Technology uses 3 pulses (2 short fixed at 0.1 ms and 1 long variable) to help estimate needle-to-nerve distance



One twitch is seen at a greater distance from the nerve



Three twitches are seen when closer to the nerve

### Stimuplex HNS12 Nerve Stimulator with SENSE Technology

Description	Product Code	Order No.
Stimuplex HNS12 Nerve Stimulator with SENSE	HNS12	4892098
Stimuplex HNS 11/12 replacement electrode connecting cable	HEC	333576

### SYSTEM ADVANTAGES

- Visual feedback with SENSE (Sequential Electrical Nerve Stimulation)
- Large display

HNS12 is not available in Canada.

# PNB Pressure Injection Monitor

## Take Away the Guesswork

### B-Smart™ Injection Pressure Monitor

Disposable monitor for measuring peripheral nerve block injection pressures

- Before the B-Smart Injection Pressure Monitor, documentation pertaining to injection resistance was merely subjective and relied on the "learned feel" and experience of the provider
- The B-Smart Injection Pressure Monitor helps confirm the block is being performed outside the nerve

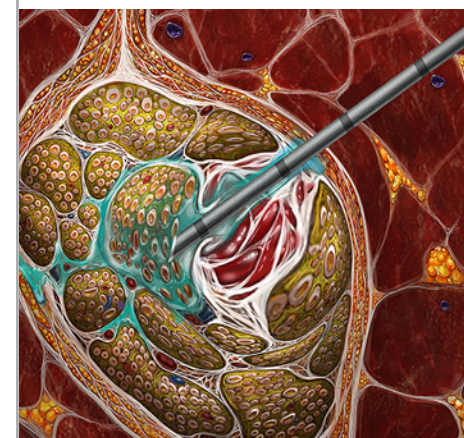
### SYSTEM ADVANTAGES

- Take away the guess work – Provides a visual indication of injection pressure
- Last line of defense – Monitoring a pressure in real time provides objective information to make more informed decisions on how to proceed with an injection
- Objective documentation – An objective and quantifiable method of monitoring and documenting injection pressure

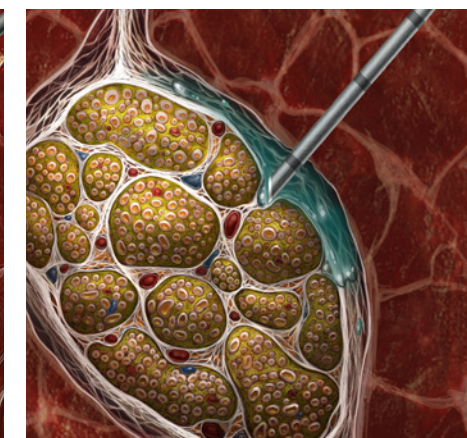
### B-Smart Injection Pressure Monitor

Description	Order No.
B-Smart Injection Pressure Monitor	BS015-30

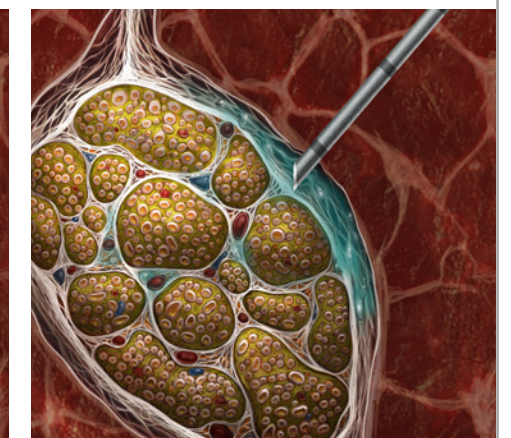
B-Smart is not available in Canada.



Intrafascicular injection-High pressure >15 psi



Needle-nerve contact-97% detection at 15 psi



Perineural injection-Low pressure ≤ 15 psi

Illustrations courtesy of New York School of Regional Anesthesia (NYSORA).

**Schedule a demonstration today.**

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1. Cooper, D, van Geffen, GJ, Bruaset, I, et. al. Regional Block Needles—A Matter of Feel and Brightness. Presented at the 35th ESRA in Maastricht, Netherlands, September 2016. Conflict of Interest: Dr. Cooper is employed as a research analyst by B. Braun and is a research fellow at Sheffield Hallam University. No other authors have conflicts to declare.
2. Engineering test report NPAK-ABTP1B
3. Kumar K, Kirksey MA, Duong S, Wu CL. A review of opioid-sparing modalities in perioperative pain management: methods to decrease opioid use postoperatively. *Anesth Analg.* 2017 Nov;125(5):1749-1760. doi: 10.1213/ANE.0000000000002497. PMID: 2904911