

# Product Guide - Electrodes



**AXELGAARD**  
MANUFACTURING CO., LTD.

# Our Mission:

## Innovation and Quality

Axelgaard Manufacturing's mission is to deliver innovative and high quality electrodes to clinicians and patients worldwide.



Since 1985, Axelgaard has proven its reputation as a global leader in the design, development, and manufacturing of electrodes. Axelgaard products successfully improve a wide range of conditions for patients and athletes.

Our advanced design process is patient focused, utilizing patented technology to promote comfort, safety, and treatment outcome.



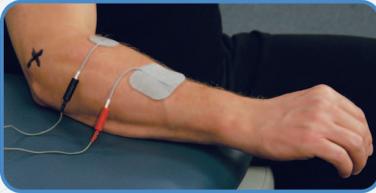
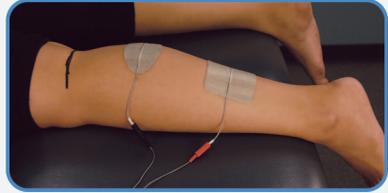
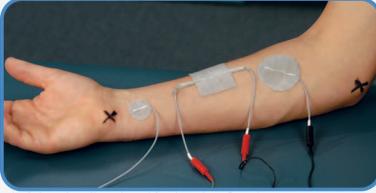
Axelgaard provides value to customers through precise and state-of-the-art manufacturing technology consistently resulting in the highest quality products.

We invite you to learn more, connect and collaborate:  
**[www.axelgaard.com](http://www.axelgaard.com) | [support@axelgaard.com](mailto:support@axelgaard.com)**

Our products are patent protected, see:  
**[www.axelgaard.com/PatentList](http://www.axelgaard.com/PatentList)**

# Educational Videos

Electrode Placement & Functional Movement



We are pleased to sponsor this educational video series presented by Dr. Lucinda Baker, Associate Professor at USC Division of Biokinesiology and Physical Therapy. These videos provide comprehensive information on the preparation and use of electrodes for effective neurostimulation treatment.

All electrodes used in the video presentation are our patented PALS® neurostimulation electrodes.

## Multiple Viewing Options

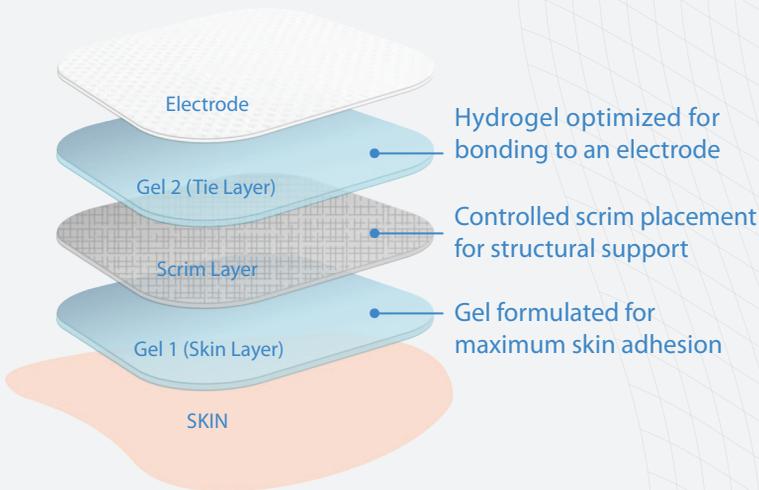
We trust these videos will assist efforts in providing the most effective treatment to your patients. DVD orders and **free** viewing/download are available on our website.

View Online at [www.axelgaard.com/education](http://www.axelgaard.com/education)

# MultiStick<sup>®</sup>

Patented Multi-layer Adhesive Hydrogel

Axelgaard electrodes feature our multi-layered patented MultiStick hydrogel. The formulation of the hydrogel top layer is optimized for bonding to the electrode to prevent delamination. Controlled scrim placement provides consistent structural support. And the bottom layer is specifically formulated for multiple applications to skin.



## Uncompromised Gel Adhesion and Performance

This multi-layer approach ensures the highest quality electrodes in the industry and avoids the delamination and poor adhesion common in single layer gels.



# PALS<sup>®</sup> Neurostimulation Electrodes with MultiStick<sup>®</sup> Hydrogel

Designed for all FES and TENS applications



## Patented Features

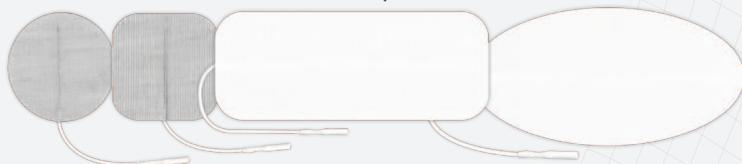
- Patented stainless steel conductive fabric provides the ultimate in flexibility and conformity.
- Patented dual-layer MultiStick hydrogel provides comfort and optimizes multiple applications to the skin.

## Optimum Current Distribution

- Enhances patient comfort during stimulation.
- Disperses current evenly across the electrode.
- Eliminates stinging, edge-biting, and hot spots.

PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
J10R00	⊖	1.0" (2.5cm)	4	10	40
879100	⊖	1.25" (3.2cm)	4	10	40
879200	⊖	2.0" (5cm)	4	10	40
879300	⊖	2.75" (7cm)	4	10	40
891100	⊖	1.1" x 2.5" (2.9cm x 6.4cm)	4	10	40
891200	⊖	1.3" x 2.1" (3.3cm x 5.3cm)	4	10	40
895220	⊖	2.0" x 2.0" (5cm x 5cm)	4	10	40
895240	⊖	2.0" x 3.5" (5cm x 9cm)	4	10	40
895402	⊖	2.0" x 4.0" (5cm x 10cm)	2	10	20
895250	⊖	2.0" x 5.0" (5cm x 13cm)	2	10	20
895340	⊖	3.0" x 4.0" (7.5cm x 10cm)	2	10	20
896230	⊖	1.5" x 2.5" (4cm x 6.4cm)	4	10	40
896240	⊖	2.0" x 4.0" (5cm x 10cm)	4	10	40
896350	⊖	3.0" x 5.0" (7.5cm x 13cm)	2	10	20
	⊖	2.0" x 4.0" (5cm x 10cm)			
COM200	⊖	3.0" x 4.0" (7.5cm x 10cm)	3	10	30
	⊖	2.0" x 4.0" (5cm x 10cm)			

**PALS® Foam** - features a soft foam top.



PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
975200		2.0" (5cm)	4	10	40
975220		2.0" x 2.0" (5cm x 5cm)	4	10	40
975240		2.0" x 3.5" (5cm x 9cm)	4	10	40
975250		2.0" x 5.0" (5cm x 13cm)	2	10	20
976230		1.5" x 2.5" (4cm x 6.4cm)	4	10	40
976240		2.0" x 4.0" (5cm x 10cm)	4	10	40
976350		3.0" x 5.0" (7.5cm x 13cm)	2	10	20

**PALS® StimTrode™** - features a white polycoated fabric top.



PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
ST32D		1.25" (3.2cm)	4	10	40
ST50D		2.0" (5cm)	4	10	40
ST75D		2.75" (7cm)	4	10	40
ST5050		2.0" x 2.0" (5cm x 5cm)	4	10	40
ST5090		2.0" x 3.5" (5cm x 9cm)	4	10	40
ST5010		2.0" x 4.0" (5cm x 10cm)	4	10	40
ST510D		2.0" x 4.0" (5cm x 10cm)	2	10	20

**PALS® Blue** - specialized gel gentle enough for sensitive skin.



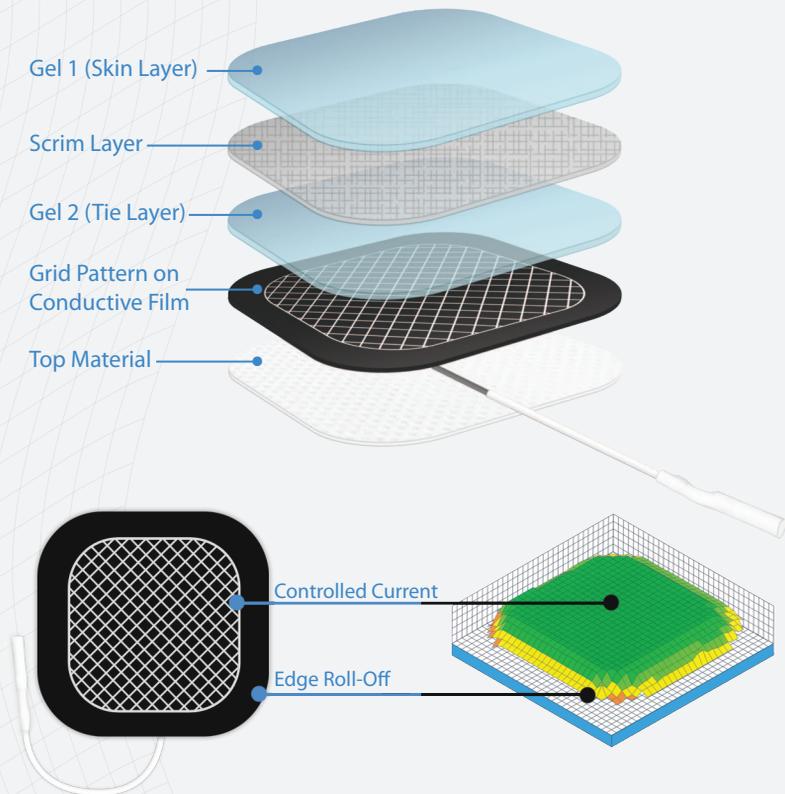
PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
901220		2.0" x 2.0" (5cm x 5cm)	4	10	40
901240		1.5" x 3.5" (4cm x 9cm)	4	10	40

# UltraStim<sup>®</sup> Electrodes

Patented Current Controlling Neurostimulation

## Experience Stimulation Ease and Comfort

These electrodes are developed with a scientifically calculated silver grid pattern printed on conductive material. This grid pattern precisely controls and optimizes the electrical current over the surface of the electrode. And the border around the pattern allows for an intentional current drop off. This eliminates edge biting and stinging and results in stimulation comfort.



## Featuring MultiStick<sup>®</sup> Hydrogel

Our patented MultiStick hydrogel used in the construction of UltraStim electrodes is specially developed for adherence to conductive film as well as easy release from the patient's skin.

Available in multiple configurations

UltraStim® PAD



UltraStim® WIRE



UltraStim® SNAP



UltraStim® Universal Dual



UltraStim® X



UltraStim® X Blue

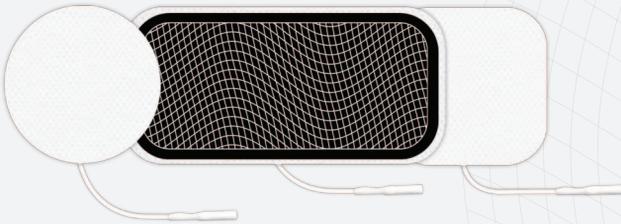


# UltraStim<sup>®</sup>X

## Patented Neurostimulation Electrodes

### Performance and Value

This electrode features our precisely calculated and proprietary silver grid pattern to control electrical current evenly over the surface of the electrode. The featured oversize top is specially designed to facilitate ease of proper removal to further promote electrode durability.



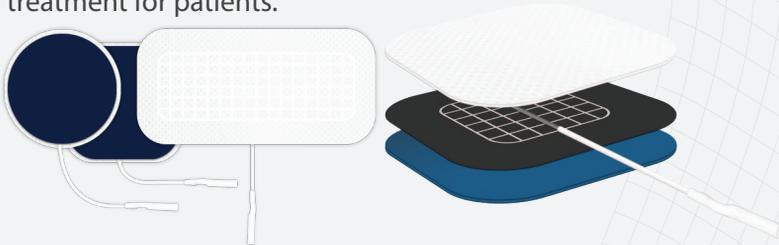
PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
USX2000	⊖	2.0" (5cm)	4	10	40
USX2020	⊖	2.0" x 2.0" (5cm x 5cm)	4	10	40
USX2040	⊖	2.0" x 4.0" (5cm x 10cm)	2	10	20
USX2040-4	⊖	2.0" x 4.0" (5cm x 10cm)	4	10	40

# UltraStim<sup>®</sup>X Blue

## Patented Neurostimulation Electrodes

### Innovation for Sensitive Skin

These electrodes feature BLUE hydrogel for those with sensitive skin. A unique patented silver grid pattern is strategically printed on the top of the electrode, providing a comfortable therapy treatment for patients.



PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
USXPB5000	⊖	2.0" (5cm)	4	10	40
USXPB5050	⊖	2.0" x 2.0" (5cm x 5cm)	4	10	40
USXPB5010	⊖	2.0" x 4.0" (5cm x 10cm)	4	10	40

# UltraStim®

Garments & Pad Electrodes

## Easy-to-Use, Patented, Lower Back TENS Solution

- Pad electrodes control current with a scientifically calculated silver grid pattern printed on conductive film and laminated between four layers of hydrogel.
- UltraStim garments are developed specifically for convenient one-person home application. Instructions printed directly on the garment assist in proper and consistent electrode positioning. The electrodes remain on the garment for easy storage and reapplication.

## Four Gel Layers

- Formulated specifically for garment adhesion
- Developed for adherence to conductive film
- Conductive film with printed grid pattern
- Developed for adherence to conductive film
- Unique layer allows easy release from skin



PART #	DESCRIPTION	PER PK	#PK/CS	#ELC/CS
B22-S	Back Garment Kit contains: 1 S/M Back Garment (Waist 25"-42", 63cm-107cm) 4 UltraStim Electrodes 2.0" x 2.0" 4 Black Snap Adapters	1	1	1
B22-L	Back Garment Kit contains: 1 L/XL Back Garment (Waist 40"-54", 102cm-137cm) 4 UltraStim Electrodes 2.0" x 2.0" 4 Black Snap Adapters	1	1	1
US2020	2.0" x 2.0" (5cm x 5cm)	4	10	40
SA1004	Black Snap Adapter	4	10	40
SA2004	White Snap Adapter	4	10	40

# ValuTrode®

## Conductive Film Neurostimulation Electrodes

### Superior Quality at an Economical Price

- Every lead wire interface is customized for each electrode to optimize current distribution in various shapes and sizes.
- Known for their durability and multiple applications to the skin.



### ValuTrode® Cloth size and shape options

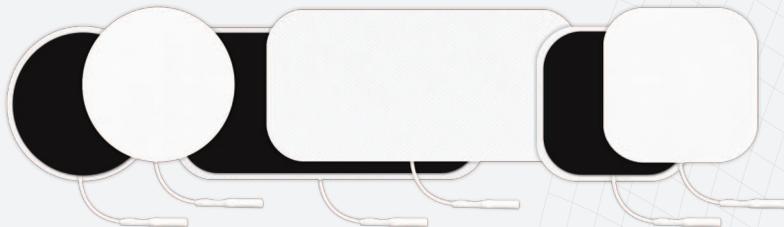
PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
CF3200	⊖	1.25" (3.2cm)	4	10	40
CF5000	⊖	2.0" (5cm)	4	10	40
CF7000	⊖	2.75" (7cm)	4	10	40
CF5050	⊖	2.0" x 2.0" (5cm x 5cm)	4	10	40
CF4090	⊖	1.5" x 3.5" (4cm x 9cm)	4	10	40
CF5090	⊖	2.0" x 3.5" (5cm x 9cm)	4	10	40
CF7515	⊖	3.0" x 5.0" (7.5cm x 13cm)	2	10	20
CF4065	⊖	1.5" x 2.5" (4cm x 6cm)	4	10	40
CF5010	⊖	2.0" x 4.0" (5cm x 10cm)	4	10	40
CF1020	⊖	4.0" x 7.0" (10cm x 18cm)	1	10	10

### ValuTrode® Foam size and shape options

PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
CFF125	⊖	1.25" (3.2cm)	4	10	40
CFF200	⊖	2.0" (5cm)	4	10	40
CFF275	⊖	2.75" (7cm)	4	10	40
CFF202	⊖	2.0" x 2.0" (5cm x 5cm)	4	10	40
CFF153	⊖	1.5" x 3.5" (4cm x 9cm)	4	10	40
CFF203	⊖	2.0" x 3.5" (5cm x 9cm)	4	10	40
CFF305	⊖	3.0" x 5.0" (7.5cm x 13cm)	2	10	20
CFF152	⊖	1.5" x 2.5" (4cm x 6cm)	4	10	40
CFF204	⊖	2.0" x 4.0" (5cm x 10cm)	4	10	40

# ValuTrode<sup>®</sup>χ

- These electrodes feature an oversized border to facilitate proper and easy removal, further extending the life of the electrode.



## ValuTrode<sup>®</sup>χ Cloth size and shape options

PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
VTX5000	⊖	2.0" (5cm)	4	10	40
VTX5050	⊖	2.0" x 2.0" (5cm x 5cm)	4	10	40
VTX50100	⊖	2.0" x 4.0" (5cm x 10cm)	4	10	40

## ValuTrode<sup>®</sup>χ Foam size and shape options

PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
VTX2000	⊖	2.0" (5cm)	4	10	40
VTX2020	⊖	2.0" x 2.0" (5cm x 5cm)	4	10	40
VTXF50100	⊖	2.0" x 4.0" (5cm x 10cm)	4	10	40

# ValuTrode<sup>®</sup>LITE

- The low profile design maximizes flexibility and allows the electrode to conform to all body contours.
- Feature an anti-lift adhesive safety border that gently adheres to the skin to reduce stinging, edge biting, and roll ups.

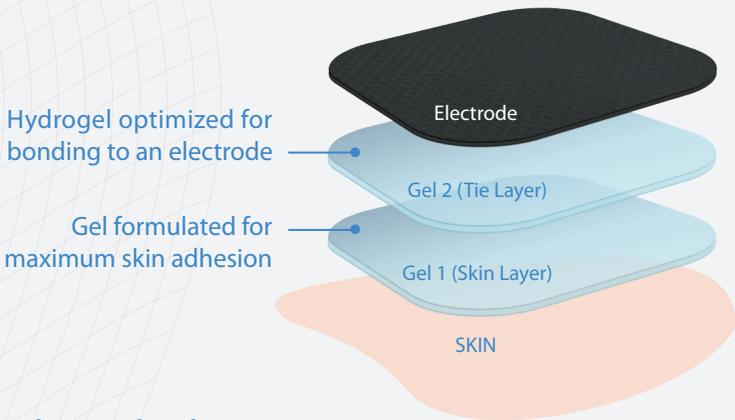


PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
VL4500	⊖	2.0" (5cm)	4	10	40
VL4545	⊖	2.0" x 2.0" (5cm x 5cm)	4	10	40
VL4595	⊖	2.0" x 4.0" (5cm x 10cm)	4	10	40

# EconoStick®

## Patented Adhesive Hydrogel

The thinner version of Axelgaard's world renowned patented MultiStick® hydrogel is the first of its kind. EconoStick®'s advanced, scrimless technology combines two hydrogel layers and results in a thinner hydrogel that is "stickier" to the touch providing optimum adhesion.



### Scrimless Technology

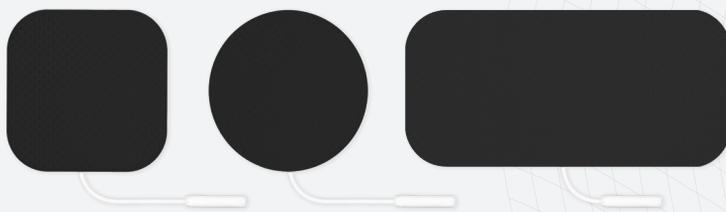
In addition to optimum adhesion, this scrimless approach results in an electrode with increased flexibility.



# EconoStim<sup>®</sup>

Low-Profile and Economical

EconoStim<sup>®</sup> electrodes feature EconoStick<sup>®</sup> hydrogel. These electrodes include our oversize border to provide easy removal. The EconoStim electrode, with its black top, is the latest addition to our economy electrode product line.



PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
ESB5000		2.0" (5cm)	8	10	80
ESB5050		2.0" x 2.0" (5cm x 5cm)	8	10	80
ESB50100		2.0" x 4.0" (5cm x 10cm)	4	10	40

## EconoStim<sup>®</sup> SELECT

EconoStim<sup>®</sup> Select with its distinctive black leadwire is well suited for TENS and stimulation of small muscle groups. It is our most economical stimulation electrode.



PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
ESB3050		1.2" x 2.0" (3cm x 5cm)	12	10	120