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 | support@axelgaard.com

Our products are patent protected, see:
www.axelgaard.com/PatentList

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Neurostimulation Electrodes

Iontophoresis Electrodes

ECG and EMG Electrodes

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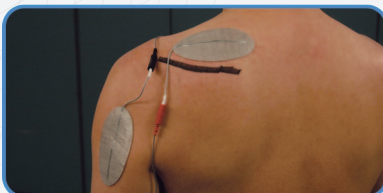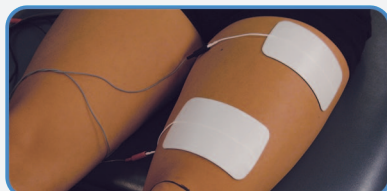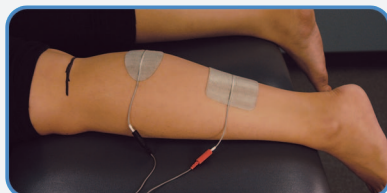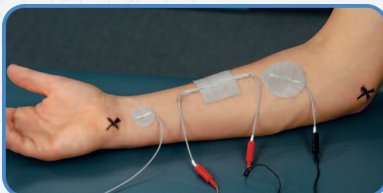
We are pleased to sponsor this educational video series presented by Dr. Lucinda Baker, Associate Professor at USC Division of Biokinesiology and Physical Therapy. These videos provide comprehensive information on the preparation and use of electrodes for effective neurostimulation treatment.

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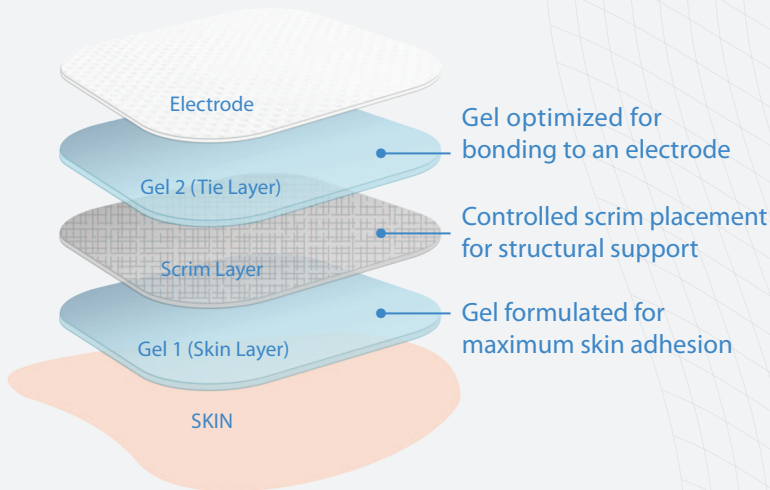
Multiple Viewing Options

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

MultiStick®

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.

Electrode

Gel 2 (Tie Layer)

Scrim Layer

Gel 1 (Skin Layer)

SKIN

Gel optimized for bonding to an electrode

Controlled scrim placement for structural support
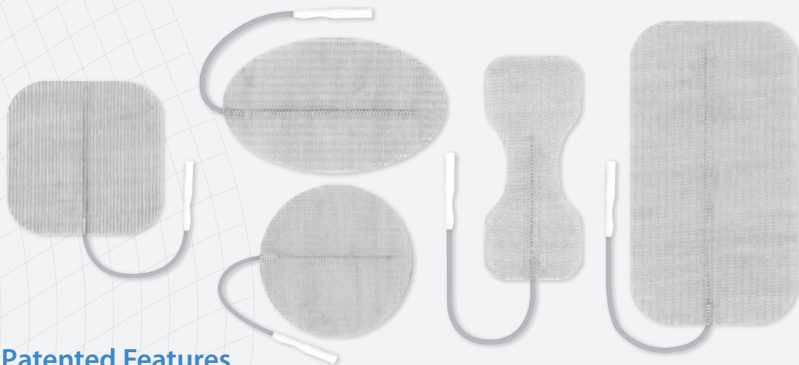
Gel formulated for maximum skin adhesion

Superior 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®

Neurostimulation Electrodes
with MultiStick® 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
COM200		2.0" x 4.0" (5cm x 10cm) 3.0" x 4.0" (7.5cm x 10cm) 2.0" x 4.0" (5cm x 10cm)	3	10	30

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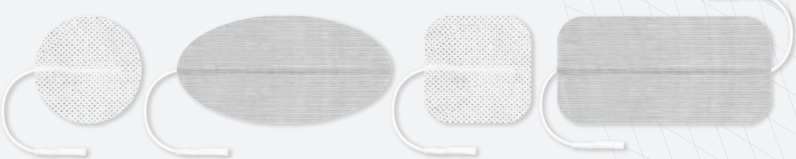
PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
ST32D		1.25" (3.2cm)	4	10	40
ST50D		2.0" (5cm)	4	10	40
ST75D		2.75" (7cm)	4	10	40
ST5050		2.0" x 2.0" (5cm x 5cm)	4	10	40
ST5090		2.0" x 3.5" (5cm x 9cm)	4	10	40
ST5010		2.0" x 4.0" (5cm x 10cm)	4	10	40
ST510D		2.0" x 4.0" (5cm x 10cm)	2	10	20

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® 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.

Gel 1 (Skin Layer)

Scrim Layer

Gel 2 (Tie Layer)

Grid Pattern on Conductive Film

Top Material

Controlled Current

Edge Roll-Off
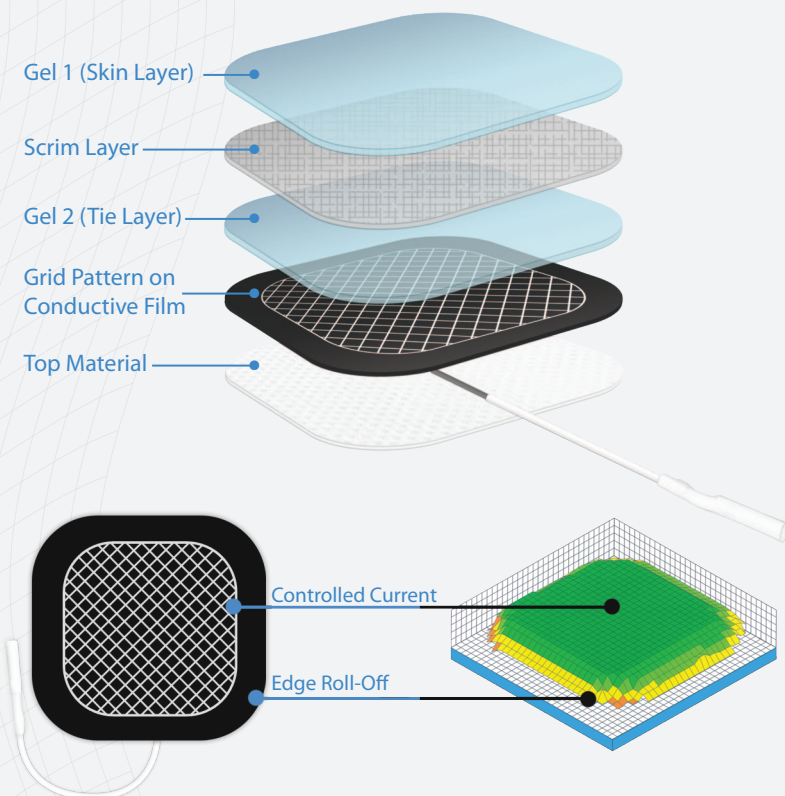
Featuring MultiStick® Hydrogel

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.

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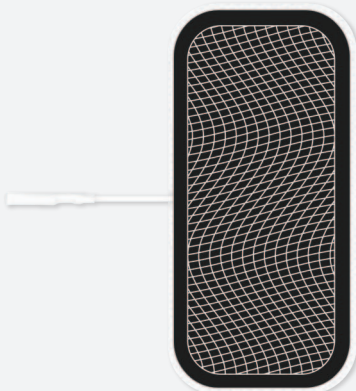# Available in multiple configurations

UltraStim® PAD

UltraStim® WIRE

UltraStim® SNAP

UltraStim® Universal Dual
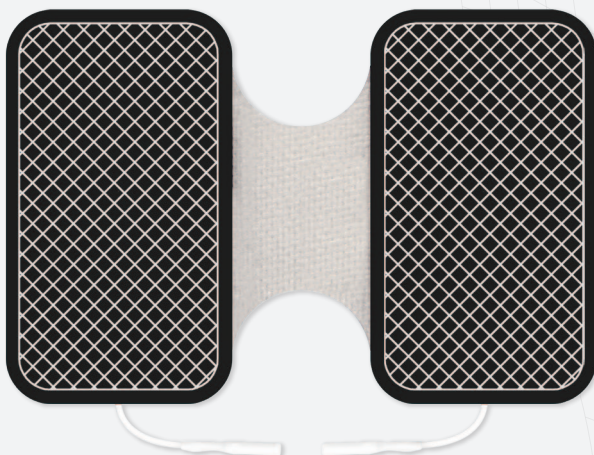
UltraStim® X

UltraStim® X Blue

UltraStim® Wire

- Proprietary silver mixture and grid pattern precisely control and optimize electrical current over the electrode surface.

- Areas within the lines of the silver grid pattern are calculated to provide optimum current control.

- Polycoated backing provides an additional moisture barrier.
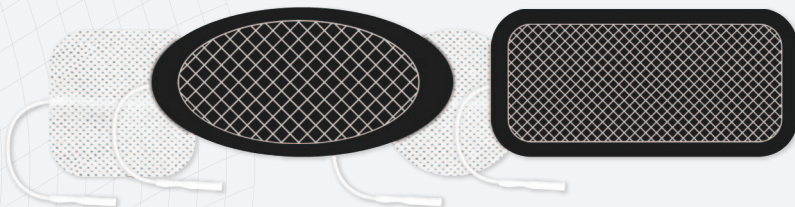
PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
UF1250		1.25" (3.2cm)	4	10	40
UF2000		2.0" (5cm)	4	10	40
UF2750		2.75" (7cm)	4	10	40
UF2020		2.0" x 2.0" (5cm x 5cm)	4	10	40
UF2040		2.0" x 4.0" (5cm x 10cm)	4	10	40
UF1525		1.5" x 2.5" (4cm x 6.4cm)	4	10	40
UF2400		2.0" x 4.0" (5cm x 10cm)	4	10	40

UltraStim® Dual

- Offers a fixed distance between electrodes while distributing current evenly and comfortably.

PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
ULB355		3.5" x 5.0" (9cm x 13cm)	1	10	10
ULB250		2.0" x 5.0" (5cm x 13cm)	2	10	20

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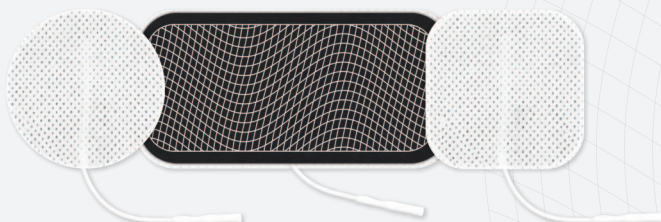
PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
USX2000		2.0" (5cm)	4	10	40
USX2020		2.0" x 2.0" (5cm x 5cm)	4	10	40
USX2040		2.0" x 4.0" (5cm x 10cm)	2	10	20
USX2040-4		2.0" x 4.0" (5cm x 10cm)	4	10	40

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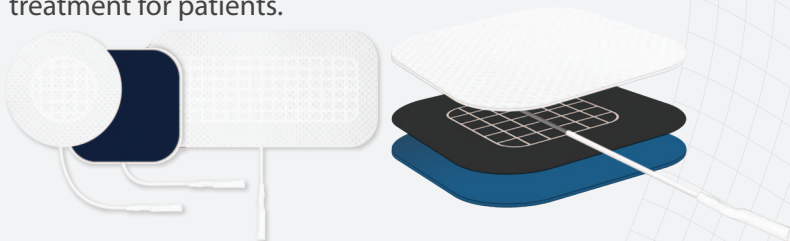
PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
USXPB5000		2.0" (5cm)	4	10	40
USXPB5050		2.0" x 2.0" (5cm x 5cm)	4	10	40
USXPB5010		2.0" x 4.0" (5cm x 10cm)	4	10	40

UltraStim®Snap
Patented Neurostimulation Electrodes

- Conductive eyelet is scientifically chosen to match impedance in the entire system to provide even current distribution.

- Proprietary silver mixture and grid pattern precisely control and optimize current over the electrode surface.

- Border surrounding the grid pattern allows for an intentional current roll off that eliminates edge biting and stinging.

Conductive Film   Grid Pattern   Eyelet (Conductive Plastic)

Top Material

Conductor Snap
(Stainless Steel)

MultiStick®
Patented Hydrogel
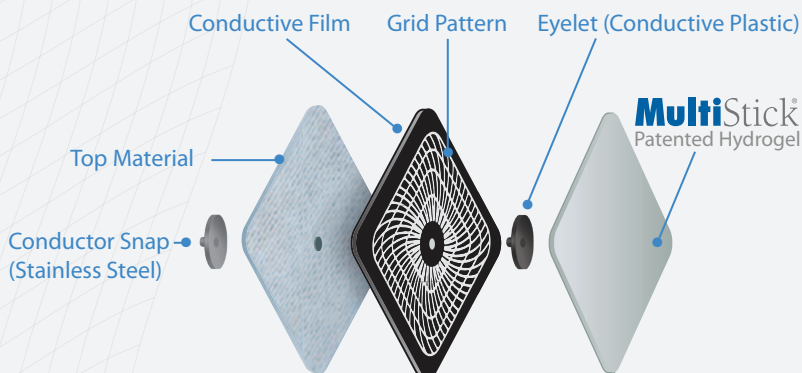
PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
SN2020	·	2.0″ x 2.0″ (5cm x 5cm)	4	10	40
SN2040	··	2.0″ x 4.0″ (5cm x 10cm)	4	10	40
SN2040-D	··	2.0″ x 4.0″ (5cm x 10cm)	2	10	20

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

SKIN
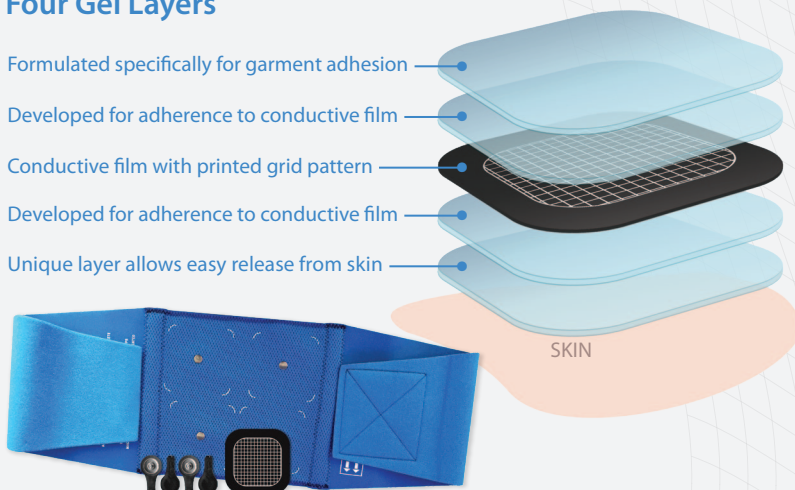
PART #	DESCRIPTION	PER PK	#PK/CS	#ELC/CS
B22-S	**Back Garment Kit contains:** 1 S/M Back Garment (Waist 25"-42", 63cm-107cm) 4 UltraStim Electrodes 2.0" x 2.0" 4 Black Snap Adapters	1	1	1
B22-L	**Back Garment Kit contains:** 1 L/XL Back Garment (Waist 40"-54", 102cm-137cm) 4 UltraStim Electrodes 2.0" 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 6.4cm)	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 6.4cm)	4	10	40
CFF204		2.0" x 4.0" (5cm x 10cm)	4	10	40

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ValuTrode®Χ

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

ValuTrode®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®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®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

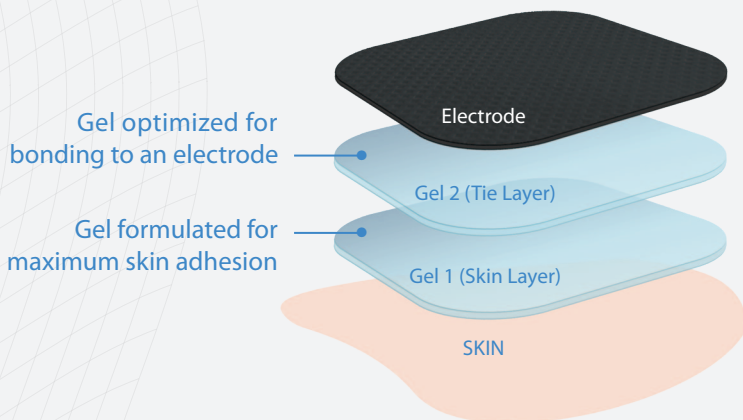The thinner version of Axelgaard's world renowned patented MultiStick® hydrogel is the first of its kind. EconoStick®'s advanced, scrimless technology combines two hydrogel layers and results in a thinner hydrogel that is "stickier" to the touch providing optimum adhesion.

Electrode

Gel optimized for bonding to an electrode

Gel 2 (Tie Layer)

Gel formulated for maximum skin adhesion

Gel 1 (Skin Layer)

SKIN

Scrimless Technology

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

EconoStim®
Low-Profile and Economical

EconoStim® electrodes feature EconoStick® 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® SELECT

EconoStim® 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

Ionto480®
Buffered Iontophoresis Electrodes

Iontophoresis Drug Delivery System

- Easily accessible reservoir pad fill area allows for easy application of solution prior to removal of adhesive backing.

- Flexible foam backing with medical grade adhesive conforms to body contours.

Buffered Return Electrode

- Patented buffered gel minimizes skin irritation.

Kits Offer Active Drug Delivery Electrodes in a Variety of Sizes

PART #	SHAPE	KIT CONTENTS	#KITS/CS
DDS275		**1 Small Square Active Drug Delivery Electrode** (Approximate Fill Volume - 1.5cc) 1 Buffer Electrode, 2 Alcohol Prep Pads	10
DDM325		**1 Medium Square Active Drug Delivery Electrode** (Approximate Fill Volume - 2.5cc) 1 Buffer Electrode, 2 Alcohol Prep Pads	10
DDL350		**1 Large Square Active Drug Delivery Electrode** (Approximate Fill Volume - 4.0cc) 1 Buffer Electrode, 2 Alcohol Prep Pads	10
DDB375		**1 Butterfly Active Drug Delivery Electrode** (Approximate Fill Volume - 2.0cc) 1 Buffer Electrode, 2 Alcohol Prep Pads	10

1 Instruction, 10 Individually Packaged Kits

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Little**PALS**®

Our patented neonatal pediatric electrodes are a revolutionary advancement in neonatal apnea, electrocardiogram (ECG), and electromyography (EMG) biofeedback monitoring.

To meet the needs of infant patients, these electrodes provide adhesion, pliability, and sensitivity while offering resistance to heat, humidity, and dry-out conditions.

PART #	DESCRIPTION - STANDARD	#ELC/PK	#PK/CS	#ELC/CS
SEN2001	**0.9" x 1.1" (2.2cm x 2.8cm)** Green, White, Black 24" Radiotranslucent Wires Socket .059", 1.5mm DIN	3	10	30
		Discontinued September 1, 2019		
SEN2002	**0.9" x 1.1" (2.2cm x 2.8cm)** Red, Yellow, Green 24" Radiotranslucent Wires Socket .059", 1.5mm DIN	3	10	30
		Discontinued September 1, 2019		
SEN4001	**0.9" x 1.1" (2.2cm x 2.8cm)** Green, White, Black 24" Copper Wires Socket .059", 1.5mm DIN	3	10	30
		Discontinued September 1, 2019		
SEN5001	**0.9" x 1.1" (2.2cm x 2.8cm)** Snap, White Fabric Top	6	10	60

PART #	DESCRIPTION - DUAL SENSOR	#ELC/PK	#PK/CS	#ELC/CS
SEN1003	**0.9" x 1.1" (2.2cm x 2.8cm)** 2 black, 2 white 24" Copper Wire Socket .080", 2mm	4	10	40
		Discontinued September 1, 2019		
SEN3001	**0.9" x 1.1" (2.2cm x 2.8cm)** Snap, White Fabric Top	6	10	60

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Intertek

Made in USA 04/21