## **Static Control Product Catalog**

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Apparel

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🔈 Test & Measurement

🔖 Wolfgang Warmbier

Cleanroom

less Accessories ESD Accessories

**TRANSFORMING TECHNOLOGIES OUTSTANDING ALTERNATIVES IN STATIC CONTROL** 

Knowledge, Value, Service

Transforming Technologies provides comprehensive knowledge of electrostatic issues, effective solution-oriented products and outstanding, friendly service. Since 1998, Transforming Technologies has provided critical solutions to the numerous manufacturing problems associated with static electricity. We provide a wide range of unique and outstanding products to detect, protect, eliminate and monitor electrostatic charges. Our products are key tools used by industries to assure an effective static control program.

Terms and Conditions: Terms: Net 30 days are extended to customers with approved credit. Payment: Transforming Technologies accepts Check, ACH or Wire Transfer, VISA, MasterCard and American Express. Taxes: Applicable sales tax will be added to all orders. Customers who are exempt from sales tax will need to provide documentation. Warrantes: Transforming Technologies expressly warrants that for a period of one (1) year from the date of purchase, products will be free of defect and workmanship (labor). Within the warranty period, a unit will be tested, repaired or replaced at Transforming Technologies option, without charge Service Department for a Neturn Material Authorization (RMA) and proper shipping instructions and address. Any unit under warranty, call our Customer Ser 19:943-94552 Cm Altworhards (Mathorization (RMA) and proper shipping instructions and address. Transforming Technologies will quote repair d bring your S20 unit up to factory standards. Any unit under warranty can be shipped collect to the out of warranty; call our Customer Service Describer

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**Brand Representation** 



### Associations





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## **Standards**

All of Transforming technologies products are compliant to ANSI/ESD S20.20 per the requirements of the static control governing body the ESD Association (www.esda.org).

#### Leadership



Transforming Technologies upper level management will establish unity of purpose and direction and create a condition in which people are engaged in achieving the organizations quality objectives.



Transforming technologies has made a commitment to track, review and audit the planning, implementation, completion and results of improvement projects.

Process

## **Customer Focus**



The focus of customer relationship management is to increase customer value, satisfaction and loyalty. The quality management system will ensure all employees understand the customers' current and future needs. Transforming Technologies will strive to plan, design, develop, produce and deliver support goods and services to meet industry standards as well as customer needs and expectations.

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## **PERSONNEL GROUNDING**

- . Wrist Strap Sets
- . Coil Cords

Heel Grounders
 Sole Grounders

The most fundamental of aspects of an ESD control program is the grounding of people in the ESD Protected Area (EPA). Transforming Technologies provides a variety of options for grounding of personnel, whether it be with a wrist strap or foot grounder (in combination with ESD flooring) to avoid Human Body Model (HBM) discharges.

## SINGLE WIRE WRIST STRAPS

## WB1600 Series

Single Wire Wrist Strap sets are a versatile and effective method of grounding personnel that allows the skin to breathe. The band uses hypoallergenic silver-plated nylon thread for conductivity paired with 6' or 12' coil cords. The band is standard with a 4mm snap, but 7mm and 10mm are available.

Part Numbers	Snap Size	Cord Length	Color
WB1637	4mm	6'	Blue
WB1643	4mm	12'	Blue
WB1738	7mm	6'	Blue
WB1744	7mm	12'	Blue
WB1839	10mm	6'	Blue
WB1845	10mm	12'	Blue
WB2637	4mm	6'	Maroon
WB2643	4mm	12'	Maroon
WB0016	4mm	Band Only	Blue
WB0017	7mm	Band Only	Blue
WB0018	10mm	Band Only	Blue
WB0026	4mm	Band Only	Maroon



#### Specifications:

- Hypoallergenic Fabric Band
- Resistor: 1 Meg
- Three Snap Sizes Available Available in Maroon in a 4mm Snap
- **Two Colors and Three** Snap Sizes Available!

## WB6000 Series

- Adjustable Metal Band
- Resistor: 1 Meg
- Premium Coil Cord
- Cleanroom Compatible Stainless Steel Construction

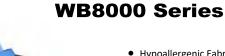
## WB9000 Series

- Standard 4mm, machined male snap
- High quality metal wrist strap (adjustable wrist strap option available)
- Premium coil cord •
- Size Options: Adjustable, Small, Medium, Large

Part Numbers	Series	Snap Size	Cord Length	Color
WB4016	WB4000	4mm	Band Only	Blue
WB4037	WB4000	4mm	6'	Blue
WB4043	WB4000	4mm	12'	Blue
WB6014	WB6000	4mm	Band Only	Black
WB6037	WB6000	4mm	6'	Black
WB6043	WB6000	4mm	12'	Black
WB8016	WB8000	4mm	Band Only	Blue
WB8037	WB8000	4mm	6'	Blue
WB8043	WB8000	4mm	12'	Blue
WB9037A	WB9000	4mm	6'	Black
WB9043A	WB9000	4mm	12'	Black
WB9037S	WB9000	4mm	6'	Black
WB9043S	WB9000	4mm	12'	Black
WB9037M	WB9000	4mm	6'	Black
WB9043M	WB9000	4mm	12'	Black
WB9037L	WB9000	4mm	6'	Black
WB9043L	WB9000	4mm	12'	Black

## **WB4000 Series**

- Hypoallergenic Fabric Band
- Resistor: 1 Meg
- Machined 4mm post
- Color: Blue Strap, Black Cord
- Premium Coil Cord •



- Hypoallergenic Fabric Band Resistor: 1 Meg Hinged Clasp Secures Excess
  - Fabric Band Color: Blue Strap, Black Cord
  - Premium Coil Cord

## **DUAL WIRE WRIST STRAPS** WB2500 Series



The adjustable WB2500 series features two 4mm snaps and 180 degree conductive paths around the wrist, providing maximum skin contact. The double snap coil cords provide two conductive paths to ground. Used with dual wire constant monitors.

- Polyester with Silver-Plated Nylon Fabric Band
- Color: Maroon
- Two 4mm Snaps

WB7000 Series

- Dual Wire Coil Cord: 6' or 12'
- Compatible with Most Dual Wire Constant Monitors

#### Comfortable Elastic Band

- Color: Blue Band, Gray Cord
- Two Conductive Paths
- Compatible with Most Dual Wire Constant Monitors

The one-size-fits-all WB7000 Dual Conductor Fabric Wrist Bands feature a silver plated, monofilament, continuous thread woven together with elastic nylon for full conductivity and comfort. Used with dual wire constant monitors.

## WB5000 Series



Dual Wire Wrist Straps provide redundancy; even if one dual wire wrist strap conductor is severed, the operator has reliable path-to-ground with other wire. The expandable metal band features a single mono jack fastener capable of reading both sides of the wrist strap. Used with dual wire constant monitors.

- Expandable Speidel Metal Band:
- Small, Medium, Large
- Color: Black Band, Gray Cord
  Two Conductive Paths
- Compatible with Most Dual Wire Constant Monitors
- Right Angle Coil Cords Available

Part Numbers	Series	Snap Size	Cord Length	Color
WB0025	WB2500	4mm	Band Only	Maroon
WB2580	WB2500	4mm	6'	Maroon
WB2585	WB2500	4mm	12'	Maroon
WB0050*	WB5000	3.4mm Phono Plug	Band Only	Black
WB5050*	WB5000	3.4mm Phono Plug	5'	Black
WB5100*	WB5000	3.4mm Phono Plug	10'	Black
WB5200*	WB5000	3.4mm Phono Plug	20'	Black
WB5050R*	WB5000	3.4mm Phono Plug	5′	Black
WB5100R*	WB5000	3.4mm Phono Plug	10'	Black
WB5200R*	WB5000	3.4mm Phono Plug	20'	Black
WB0070	WB7000	3.4mm Phono Plug	Band Only	Blue
WB7050	WB7000	3.4mm Phono Plug	5′	Blue
WB7100	WB7000	3.4mm Phono Plug	10'	Blue
WB7200	WB7000	3.4mm Phono Plug	20'	Blue
WB7050R	WB7000	3.4mm Phono Plug	5′	Blue
WB7100R	WB7000	3.4mm Phono Plug	10'	Blue
WB7200R	WB7000	3.4mm Phono Plug	20'	Blue

\*Available in small, medium or large

## **WB3000 Series**



The WB3000 series wristbands are a premium one-size-fits-all wrist strap set with a magnetic connection between the wrist band and coil cord. The wrist band is adjustable and comes with an 8' or 12' coil cord. The snaps are specially designed magnets which creates a superior electrical connection between the wrist band and coil cord. The magnetic snap eliminates the intermittent failures and wear and tear of traditional snap and spring connections.

The WB3000 series are recommended for use with the Resistance Ranger Constant Monitors and are compatible with most manufacturer's constant monitors.

Part Number	Snap Size	Cord Length
WB3008	Magnetic	8'
WB3012	Magnetic	12'

## **Disposable Wrist Bands**



Designed for inclusion with ESD sensitive devices such as computer components to provide protection at the customer's site. Made from a non-woven fabric impregnated with conductive polymer. Adhesive on a copper foil is used for easy contact to product chasis for equipontial bonding. These bands do not connect to electrical ground.

Part Number	Snap Size	Cord Length
WB5407		57 "

## **Anti-Allergy Single Wire Wrist Strap Set**



The ideal grounding device for people with allergies to common metals. It features hypoallergenic silver-plated nylon thread for conductivity and the back plate is plastic so there is no metal contact with skin.

Part Number	Snap Size	Cord Length
WB5026	4mm	Band Only
WB5637	4mm	6'
WB5643	4mm	12'

## SINGLE WIRE COIL CORDS

## **DUAL WIRE COIL CORDS**



- Premium Flat Face Snap for Solid Connection
- Short Swivel Type Banana 2.5 mm Polyurethane
- Coil Insulation
- Lengths: 6', 12', and 20' Available with right angle plug option



CC3050

CC3100

CC3200

CC3050R

CC3100R

CC3200R

- **Double Insulated Jacket**
- Stainless Steel Tip
- Tip Diameter: 3.0 mm
- Available with a
- **Right Angle Plug**
- Compatible with Dual Conductor Constant Monitors

5'

10'

20'

5'

10'

20'

Part Number	Snap Size	Cord Length
CC9037	4mm	6'
CC9043	4mm	12'
CC9037R	4mm	6'
CC9043R	4mm	12'
CC9020	4mm	20′



- **Classic Molded Snap**
- Swivel Type Banana Jack
- 2.5 mm Polyurethane
- Coil Insulation
- Snap Sizes: 4mm; 7mm; 10mm

Part Number	Snap Size	Cord Length
CC0037	4mm	6'
CC0038	7mm	6'
CC0039	10mm	6'
CC0043	4mm	12'
CC0044	7mm	12'
CC0045	10mm	12'

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- **Double Insulated Jacket** .
- Two 4mm Snaps
- Banana: 3.5mm Phono • Plug
- Right Angle Plug Compatible with Dual Conductor Constant Monitors

20'

Part Number	Snap Size	Cord Length
CC2080	4mm	6'
CC2085	4mm	12'

4mm

4mm

4mm

4mm

4mm

4mm

4mm

## **INTERCONNECT COIL CORDS**

	<ul> <li>8 fe</li> <li>No</li> <li>Ava</li> </ul>	o Banana Plugs eet Long Resistor ailable in a straight d option with no coi	ils.			Parking Jack On Si Head Two 4mm Snaps Banana: 3.5mm P Plug Compatible with I Conductor Consta Monitors	hono Dual
Part Number	Snap Size	Cord Length		Part Number	Snap Size	Cord Length	
CC3000NR	Banana Plug	8'		CC2695P-5	4mm	5'	
CC3000NR-S	Banana Plug	8'		CC2695P-10	4mm	10'	

CC2695P-20



**HEEL GROUNDERS** 

#### **Cup Style**



Ground mobile personnel with our long-lasting stretch hook and loop ESD heel grounders. The reversible cup design allows for longer life. When one side becomes worn, you can flip the strap over and use the other side. The stretch hook and loop closure strap is made with elastic which creates a comfortable but secure fit around the shoe. The elasticity allows the strap to stretch as you walk. A buried 1meg resistor is built into the strap. The cup style heel grounder is also available in options with a D-ring hook and loop fastener as well as a buckle strap to provide a tight fit.

Four Colors Available!

Part Number	Cup	Fastener	Color
HG1232	1.38″	Buckle	Blue
HG1246	1.38"	D-Ring	Blue
HG1341	1.25″	Stretch Hook and Loop	Blue
HG1360	1.25"	Stretch Hook and Loop	Black
HG1360R	1.25"	Stretch Hook and Loop	Red
HG1360B	1.25"	Stretch Hook and Loop	Blue
HG1360XL	1.25"	Stretch Hook and Loop	Black
HG1370	1.25"	Stretch Hook and Loop	Orange
HG1380	1.25″	Buckle	Blue

## **Sport Style Heel Grounders**



Sport Style Heel Grounders are designed for active wearers and are ideal for boots and cross-training athletic shoes. A highly visible elastic back strap forms to the heel, ensuring proper fit. A Non-Marking version is available.

#### **Part Number**

HG1580-NM	Non-marking
HG1590	Hook and Loop
HG1594	D-Ring

- Color: Blue, Red Elastic • Rubber Exterior: <10^5ohms
- Size: 1.37" Wide

Resistor: 1 Meg

- Ribbon: 18" Conductive Yarn
- Closure: Hook and Loop, Dring or Non-Marking

## **Hi-Visibility Style Heel Grounder**



The Hi-Visibility Heel Grounder is constructed from durable materials and features a hi-visibility yellow/ green hook and loop closure for easy identification in the work area.

#### • Resistor: 1 Meg

- Color: Hi-Vis Elastic
- Rubber Exterior: <10^5ohms
- Size: 1.37" Wide
- Ribbon: 18" Conductive Yarn
- Closure: Hook and loop

#### Part Number

HG1390S Hi-Vis

# **Non-Marking Heel Grounder**

Keep your environment clean with these non-marking heel grounders constructed from non-marking and highly dissipative three layer rubber.

#### • Resistor: 1 Meg

- Color: Blue/Grey
- Size: 1.5" Wide
- Ribbon: 18" Conductive Yarn ٠
- ٠ Closure: Hook and loop

### **Part Number**

#### HG1360NM-2 Non-marking

**Toe Grounder** 



Toe Grounders are perfect for a wide variety of heeled shoes. Constructed from durable materials and featuring a comfortable elastic closure, the HG2520 provides protection for staff on the move.

- Resistor: 1 Meg
- Color: Black Stretch Hook •
- and Loop
- Rubber Exterior: <10<sup>5</sup>Ohms
- Size: 35mm Wide

Part Number		
HG2520	Toe Grounder	

## **Disposable Heel Grounders**



Disposable Heel Grounders are a single use, economical solution for temporary personnel who enter static controlled environments with ESD flooring. Secures to footwear with a non-damaging adhesive.

- Material: Non-Woven
- Polyester with Carbon • Color: Black, Yellow
- Resistance: >  $1 \times 10^5 < 3.5 \times 10^5$ • 10
- Adhesive Strip Secures Strap to Footwear

Part Number		
HG4560	Disposable, 12"	
HG4560L	Disposable, 24"	

## SOLE GROUNDERS

The HG6000 Series sole grounder provides more contact area with the ESD flooring, improving charge dissipation. These sole grounders provide rapid and complete static dissipation due to constant contact through the entire walking motion. Wearing the conductive ribbon inside the shoe or sock assures proper electrical contact with the user. Available with a 1meg or 2meg resistor built into the sole grounder.



- Resistor: 1 Meg or 2 Meg
  Color: Black, Blue Strap
  Rubber Exterior: <10<sup>5</sup>Ohms

- Size: Full Sole Coverage
  X-Small, Small, Med, Large
- Closure: Elastic



**COVERAGE:** Covers Most of the Shoe Sole To Ensure Ground Protection Throughout a Full Step

Part Number	Resistor	Fastener	Shoe Size (Men's US)	Color	
HG6005	1meg	Hook and Loop	Up to 6	Blue	
HG6010	1meg	Hook and Loop	7-9	Blue	
HG6020	1meg	Hook and Loop	10-12	Blue	
HG6030	1meg	Hook and Loop	12+	Blue	
HG6052	2meg	Hook and Loop	Up to 6	Blue	
HG6012	2meg	Hook and Loop	7-9	Blue	
HG6022	2meg	Hook and Loop	10-12	Blue	
HG6032	2meg	Hook and Loop	12+	Blue	



## APPAREL

- . Jackets
- Lab Coats
- Embroidery

- · Heat Resistant Gloves
- Inspection Gloves
- . Cut Resistant Gloves

ESD Apparel can help prevent damage to sensitive electronic components that are being assembled or packaged within a protected area. Our garments and gloves have been specially designed to be comfortable for the user and effective in reducing the damage caused by static generation. Antistatic clothing is an essential part of an ESD program and is a visual indicator of a company's commitment to quality.

#### 12

APPAREL

## ESD JACKETS 5049 Heavy Weight Cotton ESD Jackets

The valuable combination of blending polyester and cotton makes 5049 garments more comfortable to wear than polyester garments. Superior workmanship provides reliable panel to panel continuity of the garment. The 5049 Series Garment maintains consistent continuity readings for up to 100 wash cycles. Available in a waist length jacket or full length lab coat. Features

- 66% polyester / 32% cotton / 2% carbon fabric blend for a • comfortable feel
- Surface Resistivity:  $\leq 10^6$ •
- Garments are available in blue and white
- Adjustable snap cuff for proper fit
- ESD cuff with snap-to-ground feature is also available.



Lapel Collar **ESD** Jacket 66% Polyester, 32% Cotton, 2% Carbon

- Lapel Collar
- **Snap Closure**
- Knit Cuff
- Waist Length

Part Number	Size
JWC5401	XS
JWC5402	S
JWC5403	м
JWC5404	L
JWC5405	XL
JWC5406	2XL
JWC5407	3XL
JWC5408	4XL
JWC5409	5XL

Add LB (Light Blue) or WH (White) to the end of the part number to designate the color



•	1070
Part Number	Size
JWC5401SP	xs
JWC5402SP	S
JWC5403SP	Μ
JWC5404SP	L
JWC5405SP	XL
JWC5406SP	2XL
JWC5407SP	3XL
JWC5408SP	4XL
JWC5409SP	5XL

Add LB (Light Blue) or WH (White) to the end of the part number to designate the color

L	
XL	
2XL	
3XL	
4XL	
5XL	
the	
e color	
Lapel Collar	
ESD Jacket	
66% Polyester,	
32% Cotton,	
20/ Carbon	

- 32% Cott 2% Carbon
- Lapel Collar
- **Snap Closure**
- Snap Cuff
- Waist Length





Lapel Collar **ESD Lab Coat** 66% Polyester, 32% Cotton, 2% Carbon

- Lapel Collar • **Snap Closure**
- Knit Cuff
- **Full Length**

Part Number	Size
JLC5401	XS
JLC5402	S
JLC5403	м
JLC5404	L
JLC5405	XL
JLC5406	2XL
JLC5407	3XL
JLC5408	4XL
JLC5409	5XL

Add LB (Light Blue) or WH (White) to the end of the part number to designate the color



- Lapel Collar **ESD Lab Coat** 66% Polyester, 32% Cotton, 2% Carbon
- Lapel Collar
- Snap Closure
- Snap Cuff Full Length

Part Number	Size
JLC5401SP	XS
JLC5402SP	S
JLC5403SP	М
JLC5404SP	L
JLC5405SP	XL
JLC5406SP	2XL
JLC5407SP	3XL
JLC5408SP	4XL
JLC5409SP	5XL

Add LB (Light Blue) or WH (White) to the end of the part number to designate the color

## ESD JACKETS 8812 Light Weight ESD Jackets

Transforming Technologies' lightweight garment, the 8812 jacket is the ideal tool for protecting your most sensitive products while keeping cool and comfortable. The 8812 is fabricated from 88% lightweight polyester and 12% carbon fabric for unmatched operator comfort. Superior workmanship provides reliable panel-to-panel continuity that maintains consistent readings for up to 100 wash cycles.

#### Features

- 88% Polyester / 12% Carbon Fabric
- Surface Resistivity:  $\leq 10^6$
- Available in Blue, White, and Maroon
- Lapel Collar or V-neck
- Adjustable Snap Cuff for Proper Fit



#### Lapel Collar ESD Jacket 88% Polyester, 12% Carbon

- Lapel Collar
- Snap Front
- Knit Cuff
- 3/4 Length

N	
Part Number	Size
JKC8801	XS
JKC8802	S
JKC8803	м
JKC8804	L
JKC8805	XL
JKC8806	2XL
JKC8807	3XL
JKC8808	4XL
JKC8809	5XL

Add LB (Light Blue), WH (White), BK (Black) or BG (Burgundy) to the end of the part number to designate the color



#### Lapel Collar ESD Jacket 88% Polyester, 12% Carbon • Lapel Collar

- Snap Front
- Snap Cuff
- 3/4 Length

Size
XS
S
M
L
XL
2XL
3XL
4XL
5XL

Add LB (Light Blue), WH (White), BK (Black) or BG (Burgundy) to the end of the part number to designate the color





#### V-Neck ESD Jacket 88% Polyester, 12% Carbon

- V-Neck Collar
- Snap Front
- Knit Cuff
- 3/4 Length
- Short sleeve option available

Part Number	Size
JKV8821	XS
JKV8822	S
JKV8823	Μ
JKV8824	L
JKV8825	XL
JKV8826	2XL
JKV8827	3XL
JKV8828	4XL
JKV8829	5XL

Add LB (Light Blue), WH (White), BK (Black) or BG (Burgundy) to the end of the part number to designate the color of the Jacket. Add SS to order short sleeve (only available in blue)



#### V-Neck ESD Jacket 88% Polyester, 12% Carbon

- V-Neck Collar
- Snap Front
- Snap Cuff
- 3/4 Length

	4
Part Number	Size
JKV8821SP	xs
JKV8822SP	S
JKV8823SP	Μ
JKV8824SP	L
JKV8825SP	XL
JKV8826SP	2XL
JKV8827SP	3XL
JKV8828SP	4XL
JKV8829SP	5XL

Add LB (Light Blue), WH (White), BK (Black) or BG (Burgundy) to the end of the part number to designate the color

## ESD JACKETS

## 9010 Medium Weight ESD Jackets

Transforming Technologies 9010 ESD Jackets provide high quality ESD protection at great value with a light weight blend of 90% polyester and 10% conductive fiber fabric. The 9010 Series garments maintain consistent continuity readings for up to 100 wash cycles and are certified as a groundable garment, the highest ESD standard for garments. Features include a snap front closure, wrist-adjustment snaps or ESD knit cuffs, three roomy patch pockets, and lapel-style collars.

#### Features

- 90% polyester / 10% carbon
- Surface Resistivity:  $\leq 10^6$
- Garments are available in light blue, teal, maroon, white and black.
- Adjustable three snap cuff for proper fit.



Add LB (Light Blue), WH (White), BK (Black), MR (Maroon) or TL (Teal) to the end of the part number to designate the color



#### Lapel Collar ESD Jacket 90% Polyester, 10% Carbon

- Lapel CollarSnap Closure
- Shap Closure
- 3/4 length
- Three Snap Sleeve

Part Number	Size
JKC9021SP	XS
JKC9022SP	S
JKC9023SP	М
JKC9024SP	L
JKC9025SP	XL
JKC9026SP	2XL
JKC9027SP	3XL
JKC9028SP	4XL
IKCODJOSP	581

Add LB (Light Blue), WH (White), BK (Black), MR (Maroon) or TL (Teal) to the end of the part number to designate the color





#### V-Neck ESD Jacket 90% Polyester, 10% Carbon

- V-neck
- Snap Closure
- 3/4 length
- Knit Cuff

Part Number	Size
JKV9021	XS
JKV9022	S
JKV9023	м
JKV9024	L
JKV9025	XL
JKV9026	2XL
JKV9027	3XL
JKV9028	4XL
JKV9029	5XL

Add LB (Light Blue), WH (White) or BK (Black) to the end of the part number to designate the color



V-Neck ESD Jacket 90% Polyester, 10% Carbon

- V-neck
- Snap Closure
- 3/4 length
- Three Snap Sleeve

Part Number	Size
JKV9021SP	XS
JKV9022SP	S
JKV9023SP	М
JKV9024SP	L
JKV9025SP	XL
JKV9026SP	2XL
JKV9027SP	3XL
JKV9028SP	4XL
JKV9029SP	5XL
Add I P (Light Plug) M/H	(White) or PK (Plack)

Add LB (Light Blue), WH (White) or BK (Black) to the end of the part number to designate the color

## HI-VISIBILITY ESD JACKETS 9010 Medium Weight ESD Jackets

Be seen while ESD Safe! Hi-Visibility ESD Jackets will help you standout while protecting your static sensitive processes. These jackets are made from our 9010 fabric (90% polyester, 10% carbon). Features include a snap front closure, wrist-adjustment snaps, three roomy patch pockets and lapel style collars. The 9010 series garments maintain consistent continuity readings after 100 wash cycles.

Specifications:

Meets: ANSI/ESD S20.20 per ANSI/ESD STM2.1 Material: 90% polyester, 10% carbon Weave: Knitted-4bar Weight: 120gm/M Width: 142cm Surface Resistance Below 10^6Ω



- Hi-Visibility Green
- Groundable Static Control Garment System
- Lapel Collar
- Three Snap Adjustment Sleeves
- Excellent Panel-To-Panel Conductivity

Part Number	Size
JKC9021SPGN	XS
JKC9022SPGN	S
JKC9023SPGN	м
JKC9024SPGN	L
JKC9025SPGN	XL
JKC9026SPGN	2XL
JKC9027SPGN	3XL
JKC9028SPGN	4XL
JKC9029SPGN	5XL





- Hi-Visibility Orange
- Groundable Static Control Garment System
- Lapel Collar
  - Three Snap Adjustment Sleeves
  - Excellent Panel-To-Panel Conductivity

Part Number	Size
JKC9021SPOR	XS
JKC9022SPOR	S
JKC9023SPOR	М
JKC9024SPOR	L
JKC9025SPOR	XL
JKC9026SPOR	2XL
JKC9027SPOR	3XL
JKC9028SPOR	4XL
JKC9029SPOR	5XL

## **CUSTOM EMBROIDERY SERVICES**

Interested in having your business outfitted in custom apparel? We offer custom logos and name identification on all of our jackets. There is an initial fee to digitize your company's logo. After that, you pay for each jacket's embroidery with a 2 week lead time.

- We can print almost any logo, design or text
- Withstands multiple washings
- Markings are soft and breathable
- Marking will not crack or peel



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## High Temp ESD Hot Glove

ESD GLOVES

Static protection and heat protection in a clean room compatible glove. FG gloves use monofilament Nomex<sup>®</sup> woven fabric suffused with carbon fiber and enhance the heat protection with a 100% inner insulating tricot knit polyester fabric liner. Gloves resist up to 572° F (300°C). Available in 11″ and 16″ in Small, Medium, Large, XL and 2XL.



Part Numbers			
Small			
Medium			
Large			
X-Large			
2X-large			

## High Temp ESD Hot Sleeve





## Mid Temp ESD Hot Glove

GL9100 series ESD safe hot gloves use a polyester knit fabric suffused with carbon fiber for ESD protection. Gloves resist up to 302°F(150°C).



## **GL4500** Inspection Gloves

ESD inspection gloves are designed to be worn when handling ESD susceptible items when cleanliness and tactile feel are important. The gloves are made with dissipative (10<sup>5</sup>-10<sup>8</sup> ohms) conductive fibers to reduce charge generation. Available with polyurethane coated finger tips or palms or plain to minimize fingerprints and scratches on film or other products. Sizes: X-small, Small, Med, Large, X-Large and 2X-Large.



**Transforming Technologies ESD Solutions** 

## **ESD Cut Resistant Gloves**

The StaticCare<sup>™</sup> ESD Cut Resistant Gloves combine powerful cut resistance, comfort and uniform ESD protection into one superior performing glove. The gloves are certified ANSI Cut Level 3 while maintaining softness, flexibility and comfort. A finished knit wrist cuff provides a snug fit to reduce glove slippage and keep debris out. Available with polyurethane coated finger tips or palms to improve grip while maintaining breathability. The gloves may be laundered for repeated use. Sold in packs of 12 pairs.

#### PROTECTION

The StaticCare<sup>™</sup> ESD Cut Gloves are constructed with 18-gauge Ultra High Molecular Weight Polyethylene (UHMWPE) thread which provides great cut protection, outstanding abrasion and tear resistance. The gloves are rated ANSI Cut Level 3, which offers a basic level protection against cuts or punctures.

#### **Softness, Flexibility and Comfort**

Most cut resistant gloves are bulky with low dexterity. We made softness and flexibility a priority with StaticCare<sup>™</sup> ESD Cut Resistant Gloves, which provide Level 3 Cut Protection without sacrificing dexterity.



- Level 3 Cut Protection
- Static Dissipative
- Durable, Breathable
- Thin and Lightweight
- Cool and Flexible



#### **ESD PROTECTION**

The Staticare<sup>™</sup> GL2500 series gloves provide superior ESD protection because conductive carbon threads are combined with the cut resistant fibers to provide uniform static decay rates. Typical surface resistance is less than 10^7 ohms per ANSI/ ESD SP15.1





## IONIZERS

- Blowers
- . Overhead
- Ionizing Guns

- Ion Bars
- Nozzles
- Accessories

Ionizers deliver a balanced stream of positive and negative ions and are used primarily to control static charges on insulating materials such as standard plastic. Ionizers are the solution for dust and contamination, quality control, process lockup, spray painting, static shocks and much more. Transforming Technologies carries a wide variety of ionization products for use in industries such as electronics assembly, cleanroom, semiconductor, flat panel display, medical device manufacturing and pharmaceutical.



## **BFN AC Ionizers Technology**

The BFN series ionizers, with inherently stable AC technology, provides excellent balance and rapid charge decay for secure workstation protection. The BFN series use corona ionizing technology to produce a balanced output of positive and negative air ions. Typical ion balance of the BFN series is less than ±10 volts and decay times can be less than 2 seconds (1000v to 100v per ANSI/ESD STM3.1). The BFN series is available in four models and each is ruggedly built using a steel enclosure and quality components. Regular cleaning of the emitter points is made easy on the BFN series ionizers as they include integrated emitter point cleaners.

All BFN Model Ionizers Include:

- A Full 1 Year Warranty
- CE Certification
- Integrated Emitter Point Cleaners
- Titanium Alloy Emitter Points for Long Life
- Rugged Steel Enclosures

## **BFN802 & BFN803 Overhead Ionizers**

The BFN overhead ionizing blowers combine excellent ESD performance with user friendly features to create the premier overhead ESD workstation solution. The ionizers are equipped with energy efficient LED task lights to help alleviate eye strain and headaches - all while saving on energy costs. User friendly features such as integrated emitter point cleaners, removable front and rear fan guards, and safety switches provide for safe operation and easy maintenance access.

#### Features:

- Two and Three Fan Versions
- High Efficiency LED Lighting
- Overhead Installation Frees Up Workspace
- Integrated Emitter Cleaners
- Removable Finger Guards with Auto Shut-Off Sensor
- Typical Balance: <u>+</u>10volts

#### BFN802 Specifications:

Decay Time: <3 sec. @ 18" Size: 6.75"H x 23"W x 3.35"D Weight: 12.8lbs Power: 120VAC, 60 Hz., 70W 220VAC, 50 Hz. Air Volume Output: (Low)100 CFM - (High) 200 CFM Effective Coverage: 2' x 3' area

#### **BFN803 Specifications:**

Decay Time: <3 sec. @ 18" Size: 6.75"H x 38.78"W x 3.35"D Weight: 18.7lbs Power: 120VAC, 60 Hz., 70W 220VAC, 50 Hz. Air Volume Output: (Low)150 CFM - (High)300 CFM Effective Coverage: 2' x 4' area







## **BFN801 Bench Top Blower**

Provides consistent static elimination for a standard table top work area. Designed to protect the most sensitive electronic devices, the BFN801 uses corona ionizing technology to continuously produce a balanced output of positive and negative air ions to neutralize static charges. Easy to maintain and service.

#### Features:

- Small Footprint Frees Valuable Work Space
- Built In Emitter Point Cleaners
- Rugged Steel Construction
- Typical Balance: <u>+</u>10volts

#### Specifications:

Decay Time: <2 sec. @ 12" Size: 10.25"H x 7"W x 3.75"D Weight: 8.25lbs Power: 120VAC, 60 Hz., 36W 220VAC, 50 Hz. Air Volume Output: (Low) 50 CFM- (High) 100 CFM Effective Coverage: 1' x 5' Area





## **BFN8412 Extended Range Blower**

The extended range ionizing blower is designed to cover a broad 3' x 6' area. The BFN8412 uses AC technology to continuously produce a balanced output of positive and negative air ions over a large area. A built-in emitter point cleaner makes maintenance a breeze.

#### Features:

- Reliable AC Output
- Extended Performance Range
- Integrated Emitter Cleaner
- Removable Finger Guards with Auto Shut-Off Sensor
- Typical Balance: +10volts

#### Specifications:

Decay Time: <1.5 sec. @ 12" Size: 19.7"H x 7.28"W x 7.9"D Weight: 15.2lbs Power: 120VAC, 60 Hz., 350W(max) 220VAC, 50 Hz. Effective Coverage: 3' x 6' area



## **BFNG10 AC lonizing Gun**

The BFN®G10 ionizing gun combines portability, fast static decay rates, excellent balance and low compressed air consumption to efficiently remove static and contaminates in the Semiconductor, Electronic Assembly, Medical Device, Optics, Auto-motive and Pharmaceutical markets.

The gun body is lightweight but durable, and features a light-touch trigger, making it comfortable for extended use. A built-in piezoelectric transformer eliminates the high voltage cable, and a metal hanger is provided for easy mounting.

#### Features:

- Reliable AC Output
- Point-And-Shoot Precision Ionization
- Ergonomic Handle Design
- 0.01 Micron Filter (Optional)

Specifications:

Decay Time: <2 sec. @ 12" Balance: +/- 25 volts Weight: 2.1lbs Air Pressure: 20 - 87 PSI, CDA or N2



## Ptec™ lonizer Technology

Ptec<sup>™</sup> static elimination devices use a specialized piezo technology that offers exceptionally fast static decay capabilities with excellent balance stability, all in a small footprint. Ptec<sup>™</sup> ionizers produce a 68KHz AC output of approximately 2200V and a continuous stream of balanced air ions. Ptec<sup>™</sup> ionizers save time and money because they require no calibration. Emitter life is increased and maintenance frequency is reduced due to 68KHz AC ion emission.

All Ptec<sup>™</sup> Ionizers Include:

- A Full 1 Year Warranty
- CE Certification
- High Voltage Alarm
- Titanium Alloy Emitter Points for Long Life

## **IN5110 Bench Top Blower**

Small, stable and quiet with unmatched performance, the IN5110 provides fast decay of static charges over a targeted workstation or area. A lightweight and compact design combined with an adjustable blowing angle makes the IN5110 a versatile bench top solution. The ionizer features a removable fan guard for easy maintenance.

#### Features:

- Quickly Neutralizes Static Charges
- Stable Ptec<sup>™</sup> AC Output
- Ionization Indicator and Alarm Light Weight: 2.8lbs
- Variable Fan Speed Control

#### Specifications:

Decay Time: <2 sec. @ 12" Size: 7.5"H x 7.1"W x 2.7"D Weight: 2.8lbs Power: 24VDC, 12W, un-fused, 0.5A or 1.0A max Air Volume Output: 115 CFM, High Speed

## IN5120 In-Tool Blower

Utilizing the small physical profile of the Ptec<sup>™</sup> piezo technology, the IN5120 is small enough to fit inside many electronic manufacturing tools and powerful enough to provide reliable ESD protection. The IN5120 is especially useful in space -constrained applications.

#### Features:

- Compact Size
- Stable Ptec<sup>™</sup> AC Output
- Ionization Indicator and Alarm Light
- Typical Balance: <u>+</u>10Volts
- Easy to Install in Electronics Equipment Air Volume Output: 32 CFM, High Speed



#### Specifications:

Decay Time: <3 sec. @ 12" Size: 5.5"H x 5.5"W x 2.28"D Weight: 1.4lbs

Power: 24VDC, 12W, un-fused, 0.5A or 1.0A max Air Volume Output: 32 CFM, High Speed



## IN5130 Overhead Ionizer

The IN5130 easily provides fast static charge decay over a standard work surface area. It hanging installation saves valuable workspace. The IN5130 overhead ionizers are designed to be daisy-chained for easy integration into the manufacturing environment.

#### Features:

- Stable Ptec<sup>™</sup> AC Output
- Daisy-Chain Design
- Variable Fan Speed Control
- Balanced to 0+10 Volts

#### Specifications:

Decay Time: <6 sec. @ 24" Size: 2.5"H x 39.4"W x 5.75"D Weight: 11.0lbs Power: 100-240 VAC, 36W, un-fused, 0.5A or 1.0A max Air Volume: Output 300 cfm, High Speed



## IN5140 Bench Top Blower

The IN5140 ionizing blower is an efficient static eliminating de-vice that prevents electrostatic damage. Designed to protect most static sensitive devices, the IN5140 uses a specialized piezoceramic technology that makes all the Ptec<sup>™</sup> ionizers so reliable.

#### Features:

- Inherently stable Ptec Technology that does not require calibration.
- Alarm indicator alert and relay for high voltage failures.
- "Quick release" removable emitter points and fan grills.

#### Specifications:

Decay Time: 1000V-100V, <2 Seconds @1' Balance: +10 volts Airflow: 115 cfm, High speed Mounting: Adjustable bracket/stand Emitter points: Tungsten alloy with removable assembly

## **IN5500 Bench Top Blower**

This self-cleaning Ionizing Air Blower is a small, efficient static elimination device with variable fan speed for protecting electronic components. The IN5500 can self-clean the emitter points with internal spinning brushes. Schedule the cleaning after a predetermined amount of running time. Self-cleaning helps to eliminate maintenance costs and equipment downtime.

#### Features:

- Self-cleaning feature to keep the emitter points clean
- Stable Ptec<sup>™</sup> AC Output
- Ionization Indicator and Alarm Light
- Variable Fan Speed Control
- Typical Balance: <u>+</u>15volts

#### Specifications:

Decay Time: 1000V-100V, <2 Seconds @1' Balance: +10 volts Air Volume: 40-70 CFM Mounting: Mounting holes on base Dimensions: 17.8"x8.5"x7.25"



## **IN2000 Bench Top Blower**



The IN2000 is a small, efficient static elimination device that produces a balanced stream of positive and negative air ions that quickly remove static. Variable fan speed allows the user to adjust the output and effectiveness

#### Features:

- Self-cleaning feature to keep the emitter points clean
- Stable Ptec<sup>™</sup> AC Output
- Ionization Indicator and Alarm Light
- Variable Fan Speed Control
- Typical Balance: +15volts

#### Specifications:

Decay Time: <2 sec. @ 12" Size: Hand Unit: 8.5"H x 4"W x 1"D Console: 3.5"H x 6.25"W x 1.5"D Weight: 1.12lbs Air/Gas Pressure: 20psi min, 75psi max Power: 100-240 VDC, 50/60Hz., un-



## IN6430 Ionizing Gun

Integrates best-in-class AC performance with mechanical and ergonomic design features to create a superior and affordable package. We eliminate high voltage cables by locating the power supply in the ionizing gun handle. Our OSHA compliant emitter nozzle protects both the operator and ionizer.

#### Features:

• Fast Charge Decay

Integrated Air/Power Cable

Optional .01 Micron Filter

Balanced to 0+30 Volts

#### Specifications:

Decay Time: <2 sec. @ 12" Size: Hand Unit: 8.5"H x 4"W x 1"D Console: 3.5"H x 6.25"W x 1.5"D Weight: 1.12lbs Air/Gas Pressure: 20psi min, 75psi max Power: 100-240 VDC, 50/60Hz., un-fused, 0.5A or 1.0A max

#### **Optional Filter**

The replaceable 0.01 micron filter available for the IN6430 assures a clean flow of ionized air. Yearly minimum replacement. More often if in a controlled or dirty environment.



## IN6200 Ionizing Gun With Filter

Features a durable fiberglass enforced plastic case, quick release button and a secure locking air filter inside the housing unit. A 1/4" industrial-style brass plug for quick and easy connection to air/gas line coupler. Compatible with most air hose and piping. Includes a retractable spring-loaded sleeve permits connection or release of plug body.

#### Features:

- Fast Charge Decay
- Integrated Air/Power Cable
- .01 Micron Filter Included
- Balanced to 0+15 Volts
- Quick Release Button

#### Specifications:

Decay Time: <2 sec. @ 12" Size: Hand Unit: 8.25"H x 4.33"W x 1"D Console: 8.3"H x 3"W x 1.7"D

Weight: 1 lb

Air/Gas Pressure: 20psi min, 75psi max Gas Tube: 1/4" OD









## IN3000 CrossFLOW Extended Range

The CrossFLOW ionizing blower produces a powerful air flow, rich in positive and negative ions that quickly neutralize static charges. Inherently balanced AC technology provides a stable output with exceptionally fast decay performance. The IN3000 also features built in emitter point cleaners and a heater that can be turned on at any time for user comfort.



#### Features:

- Fast decay performance •
- Quickly Neutralize static charges •
- Built in emitter point cleaners
- Heater for user comfort •
- 3'x6' coverage area •
- +10volts •

#### Specifications:

Decay Time: <2 sec @ 12" Size: 17.8"x8.5"x7.25" Mounting: Mounting holes on base Noise: <50-55 db

## IN3425 Air Ionizing Nozzle

The small size enables ionization in hard to reach areas. It can be mounted inside machines, along assembly lines or other confined areas. The IN3425 works efficiently with clean, dry air and nitrogen. Available with a photoelectric switch for automatic operation. Optional nozzle tips change the flow of ionized air for a truly customizable solution.

#### Features:

- Fast Charge Decay •
- **Optional Nozzle Tips**
- Optional .01 Micron Filter
- Typical Balance: +10volts •
- Available with Photoelectric Switch (p/n IN3425PE)

#### Specifications:

Decay Time: <1 sec. @ 24" Size: 2.0" x 7.1" x 2.7" Weight: 1.0lbs Air/Gas Pressure: 5psi min, 100psi max Power: 24 VDC, 12W, un-fused, 0.5A or 1.0A max





## **Output Nozzle Options**

The IN3425 comes with the N0010 standard nozzle tip. Wide angle, long range, bendable, luer lock or manifold tips may be substituted depending on the application





N0020

N0010 Standard 15° Wide Angle



Luer Lock



N0040 Long Range



N0060 **Perforated Tube** 





## IN4000 AirFlex Ionizing Nozzle

The flexible nozzle neck frees the operator's hands during assembly and manufacturing processes. A foot pedal or photoelectric eye controls both ionization and airflow, which reduces compressed air costs and extends the life of the ionizer.

#### Features:

- Fast Charge Decay
- Flexible Metal Neck
- Works with IN3425 Nozzle Tips Optional .01 Micron Filter
- (pn FL0030) Footswitch or Photoelectric
- Eye Operation (pn IN4000PE)
- Typical Balance: +10volts

#### **Specifications:**

- Decay Time: <2 sec. @ 24"
- Size: 12"H x 5.75"W x 7.25"D
- Weight: 28lbs
- Power: 100-240VCA, 50/60Hz, un-fused, 0.5A or 1.0A max
- Air/Gas Pressure: 10psi min, 100psi max
- Gas Tube: 1/4" OD



## **IN4200 AirFlex Ionizing Nozzle**

The flexible nozzle neck frees the operator's hands during assembly and manufacturing processes. A foot pedal or photoelectric eye controls both ionization and airflow, which reduces compressed air costs and extends the life of the ionizer. The IN4200 features

#### Features:

- Fast Charge Decay
- Flexible Metal Neck
- Works with IN3425 Nozzle Tips
- Optional .01 Micron Filter (pn FL0030)
- Footswitch or Photoelectric Eye Operation (pn IN4000PE)
- Typical Balance: +10volts

#### Photoelectric Eye

#### **Specifications:**

- Decay Time: <2 sec. @ 24"
- Size: 12"H x 5.75"W x 7.25"D
- Weight: 28lbs
- Power: 100-240VCA, 50/60Hz, un-fused, 0.5A or 1.0A max
- Air/Gas Pressure: 10psi min, 100psi max
- Gas Tube: 1/4" OD

## StaticAIRE™ Still Air Ionizer

The StaticAIRE<sup>™</sup> IN1000 Still Air Ionizer quickly and effectively eliminates static without using airflow. It's designed for use in a variety of localized applications where space is limited, and is ideal for installation inside equipment. The IN1000 is an ideal product for mini-environments, analytical laboratories and cleanrooms.

#### Features:

- **Removes Static with No Air Flow**
- Ideal Where Space Is Limited or Inside Equipment
- Easy Balance and Decay Adjustment
- Typical Balance: +25volts

#### **Specifications:**

Decay Time: <15 sec. @ 12" Size: 5.5"H x 5.0"W x 2.5"D Weight: 2lbs Power: 100-240VAC, 50/60 Hz. Certifications: CE







## SCION™ Square Wave AC Technology

Using AC Square Wave Technology, the Scion<sup>™</sup> series ionizing bars increase air conductivity and continuously deliver a balanced stream of bipolar ions to the intended target. Scion<sup>™</sup> ionizing bars use AC square wave ionization technology that produce positive and negative ions from every emitter point. Each emitter point is bipolar, instead of polarity dedicated emitter points. Bipolar emitter points offer unique benefits over Pulsed DC ionizers.

Benefits of Scion<sup>™</sup> Ionization vs Pulsed DC Ionizers

- Superior ion balance.
- Faster decay times.
- Emitter points that stay cleaner.
- Emitter points that last longer.
- Easy adjustment for a wide range of applications.
- Stable long-term performance.

### SCION™ IN1200 Ion Bar



With the combination of programmable AC technology and a unique design, the IN1200 provides uniform static elimination at high speeds. The remote controlled IN1200 quickly and efficiently controls static in mini-environments, laminar flow hoods and wide-area workstation applications. It is a highly effective tool in electronics, plastics, chemicals, printing, textile, optical and other industries.

#### Features:

- Programmable AC ionizing Technology
- Remote Control Operation
- Unique Aerodynamic Design
- Patented Molded Emitter
- LED Readout
- Available with Silicon Points

#### **Specifications:**

Decay Time: <2 sec. @ 12" Length: 12", 22", 44" or 64" Power: 120VAC, 60 Hz., 36 W 220VAC, 50 Hz. Air Pressure: 70 PSI

ADOO

### **External Display**

Complete your ion bar set up with the external display. The screen allows the user to see the bar's setting, current switching frequency, duty cycle settings and adjust them to fit your specific application. Without the display, a charge plate monitor is recommended to assist with the bar settings.



SCION 1200 Ion Bar inside a laminar flow hood. Easily program and adjust your ion bar with the external display and remote.





## Matting

- . Table Mats
- Floor Mats
- Field Service Mats
- Ground Cords
- Hardware

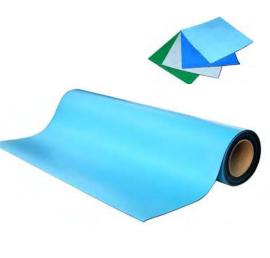
ESD matting is a very important part of an ESD protected area. ESD mats are designed to eliminate static on its surface and of objects placed upon it. It does this by having a conductive material embedded within the mat that collects the static and sends it to ground (earth). Transforming Technologies specializes in ESD Table Top Mats, ESD Anti Fatigue Floor Mats, ESD Floor Runners, ESD Tiles and the grounding accessories required to set up a mat properly.

## ESD TABLE MATTING

## 4500 Series Premium Two Layer Rubber

4500 Series 0.080" thick heavy-duty rubber matting is designed to be used on workbenches and ESD-Safe stations. This exceptional 2-layer static dissipative mat is manufactured from premium NBR rubber for a long lasting life. It is resistant to hot solder and chemical abrasion. The static dissipative top layer is backed by a conductive bottom layer for outstanding electrical properties. Versatile product with superior flat laying properties.

Size	Nasa Blue	<b>Royal Blue</b>	Green	Gray
24"x50'	MT4524B	MT4524RB	MT4524GN	MT4524GY
30″x50′	MT4530B	MT4530RB	MT4530GN	MT4530GY
36"x50'	MT4536B	MT4536RB	MT4536GN	MT4536GY
48″x50′	MT4548B	MT4548RB	MT4548GN	MT4548GY



#### Specifications:

- Meets ESD Industry Standards
- Thickness: 0.080"
- RTGP: 8 x 10<sup>6</sup>-10<sup>8</sup> Ohms
- RTT: 2 x 10<sup>6</sup>-10<sup>8</sup> Ohms

## 4500 Series Cut Mats

Order your own cut mats with predetermined sizes or contact us for custom sizing. All cut mats include 2 snaps installed in the corners and a grounding cord (CP2522).

Size	Nasa Blue	<b>Royal Blue</b>	Green	Gray
24"x36"	MT2436B	MT2436RB	MT2436GN	MT2436GY
24"x48"	MT2448B	MT2448RB	MT2448GN	MT2448GY
24"x60"	MT2460B	MT2460RB	MT2460GN	MT2460GY
24"x72"	MT2472B	MT2472RB	MT2472GN	MT2472GY
30"x36"	MT3036B	MT3036RB	MT3036GN	MT3036GY
30"x48"	MT3048B	MT3048RB	MT3048GN	MT3048GY
30"x60"	MT3060B	MT3060RB	MT3060GN	MT3060GY
30"x72"	MT3072B	MT3072RB	MT3072GN	MT3072GY
36"x48"	MT3648B	MT3648RB	MT3648GN	MT3648GY
36"x60"	MT3660B	MT3660RB	MT3660GN	MT3660GY
36"x72"	MT3672B	MT3672RB	MT3672GN	MT3672GY

## **2500 Series Two Layer Rubber**

2500 Series 0.060" thick rubber mat is manufactured from the same premium NBR rubber as the 4500 series but 0.060" thick. Available in rolls or cut mats with grounding hardware installed.

Size	Nasa Blue	<b>Royal Blue</b>	Green	Gray
24"x50'	MT2524B	MT2524RB	MT2524GN	MT2524GY
30″x50′	MT2530B	MT2530RB	MT2530GN	MT2530GY
36"x50'	MT2536B	MT2536RB	MT2536GN	MT2536GY
48"x50'	MT2548B	MT2548RB	MT2548GN	MT2548GY
MT2500 Cut M	ats			
24"x36"	MTLP2436B	MTLP2436RB	MTLP2436GN	MTLP2436GY
24"x48"	MTLP2448B	MTLP2448RB	MTLP2448GN	MTLP2448GY
24"x60"	MTLP2460B	MTLP2460RB	MTLP2460GN	MTLP2460GY
24"x72"	MTLP2472B	MTLP2472RB	MTLP2472GN	MTLP2472GY
30″x36″	MTLP3036B	MTLP3036RB	MTLP3036GN	MTLP3036GY
30″x48″	MTLP3048B	MTLP3048RB	MTLP3048GN	MTLP3048GY
30"x60"	MTLP3060B	MTLP3060RB	MTLP3060GN	MTLP3060GY
30″x72″	MTLP3072B	MTLP3072RB	MTLP3072GN	MTLP3072GY
36"x48"	MTLP3648B	MTLP3648RB	MTLP3648GN	MTLP3648GY
36"x60"	MTLP3660B	MTLP3660RB	MTLP3660GN	MTLP3660GY
36"x72"	MTLP3672B	MTLP3672RB	MTLP3672GN	MTLP3672GY



- Rolls or Mats Available in Four Colors
- Meets ESD Industry Standards
- Thickness: 0.060"
- RTGP: 8 x 10<sup>6</sup>-10<sup>8</sup> Ohms
- RTT: 2 x 10<sup>6</sup>-10<sup>8</sup> Ohms
- Charge Decay (5kV to 50V): 0.01 Seconds

## TABLE MATTING

## **MT4000 Textured Two Layer Rubber**

The MT-Textured series is an exceptional 2-layer table mat composed of an embossed nitrile rubber on top and a natural rubber and styrenebutadiene rubber on the bottom. This material meets the industry standards per ANSI/ESD STM4.1 for resistance and the federal standard 101 method 4046 for static decay.

Size	Nasa Blue	Royal Blue	Green	Gray
24"x40'	MTT2440B	MTT2440RB	MTT2440GN	MTT2440GY
30"x40'	MTT3040B	MTT3040RB	MTT3040GN	MTT3040GY
36"x40'	MTT3640B	MTT3640RB	MTT3640GN	MTT3640GY
48″x40′	MTT4840B	MTT4840RB	MTT4840GN	MTT4840GY
MT4000 Cut M	ats			
24"x36"	MTT2436B	MTT2436RB	MTT2436GN	MTT2436GY
24"x48"	MTT2448B	MTT2448RB	MTT2448GN	MTT2448GY
24"x60"	MTT2460B	MTT2460RB	MTT2460GN	MTT2460GY
24"x72"	MTT2472B	MTT2472RB	MTT2472GN	MTT2472GY
30"x36"	MTT3036B	MTT3036RB	MTT3036GN	MTT3036GY
30"x48"	MTT3048B	MTT3048RB	MTT3048GN	MTT3048GY
30"x60"	MTT3060B	MTT3060RB	MTT3060GN	MTT3060GY
30″x72″	MTT3072B	MTT3072RB	MTT3072GN	MTT3072GY
36"x48"	MTT3648B	MTT3648RB	MTT3648GN	MTT3648GY
36"x60"	MTT3660B	MTT3660RB	MTT3660GN	MTT3660GY
36"x72"	MTT3672B	MTT3672RB	MTT3672GN	MTT3672GY



- Thickness: 0.080" (2mm)
- RTGP: 10<sup>6</sup>-10<sup>8</sup> Ohms
- RTT: 10<sup>6</sup> 10<sup>8</sup> ohms

## **Field Service Kits**

Made from a rugged, three-layer ESD material that provides service personnel with a static free work area for handling sensitive devices in the field. The kit includes a dissipative ESD Mat, an adjustable fabric wrist strap and a ground cord with bull dog clip. The ground cord bulldog clips easily connects to objects to facilitate at ground in the field. The mat is 24"x24" with two 10mm male snaps and two 8"x12" pockets. The edges are bound for durability.

The mat has the option for male/female snaps and ground/coil combo cord.

- Color: Blue or Red
- Two 8" x 12" Pockets with snaps
- Adjustable WB1637 Fabric Wrist Band Set
- CP1518 Ground Cord with Bull Dog Clip
- 24"x24" Mat

Size	
2'x2' Red Kit	FSM2424R
2'x2' Red Female Mat	FSM2424R-F
2'x2' Red Male Mat	FSM2424R-M
2'x2' Blue Kit	FSM2424B
2'x2' Blue Female Mat	FSM2424B-F
2'x2' Blue Male Mat	FSM2424B-M



## TABLE MATTING

## VinyISTAT™ A - Three Layer VinyI

The ultimate in static dissipative flexible surfaces. A solid vinyl, homogeneous mat with a buried conductive layer gives VinylStat A superior physical and unsurpassed electrical qualities.

Size	Part Number
24"x50'	VMA2450B
30″x50′	VMA3050B
36"x50'	VMA3650B
48″x50′	VMA4850B
24"x48"	VMA2448B
24"x72"	VMA2472B
36"x48"	VMA3648B
36″x72″	VMA3672B

\*Replace "B" for Blue with "GY" for Gray



- Three Layer Vinyl
- Resistance: 10<sup>7</sup>-10<sup>8</sup> ohms
- Meets ESD Industry Standards
- 0.093" Thick

## VinyISTAT™ B - Three Layer VinyI with Foam

Provide a cushioned surface for ESD sensitive items with a unique three layer design consisting of a conductive metalized fleece sandwiched between a solid, vinyl top surface and an ergonomic foam layer base.

Size	Part Number
24"x50'	VMB2450B
30″x50′	VMB3050B
36″x50′	VMB3650B
48"x50'	VMB4850B
24"x48"	VMB2448B
24"x72"	VMB2472B
36"x48"	VMB3648B
36"x72"	VMB3672B

\*Replace "B" for Blue with "GY" for Gray



#### Specification:

- Three Layer with Foam Backing
- Resistance: 10<sup>7</sup>-10<sup>8</sup> ohms
- Meets ESD Industry Standards

## VinyISTAT™ C - Homogeneous VinyI

A homogeneous polymer mix construction with unsurpassed electrical properties, gives VinyISTAT C a consistent, controlled static drain and physical properties with highest level of protection.

Size	Part Number
24"x50'	VMC2450B
30″x50′	VMC3050B
36"x50'	VMC3650B
48″x50′	VMC4850B
24"x48"	VMC2448B
24"x72"	VMC2472B
36"x48"	VMC3648B
36″x72″	VMC3672B

<sup>\*</sup>Replace "B" for Blue with "GY" for Gray



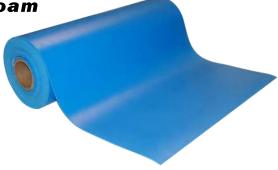
- Three Layer with Foam Backing
- Resistance: 10<sup>7</sup>-10<sup>8</sup> ohms
- 0.093" Thick

## VinyISTAT™ D - Three Layer Vinyl with Foam

A homogeneous polymer mix construction with unsurpassed electrical properties, gives VinyISTAT C a consistent, controlled static drain and physical properties with highest level of protection.

Size	Part Number
24"x50'	VMD2450B
30″x50′	VMD3050B
36″x50′	VMD3650B
48″x50′	VMD4850B
24"x48"	VMD2448B
24"x72"	VMD2472B
36"x48"	VMD3648B
36″x72″	VMD3672B

\*Replace "B" for Blue with "GY" for Gray



#### Specification:

- Three Layer with Foam Backing
- Resistance: 10<sup>7</sup>-10<sup>8</sup> ohms
- 0.0625" Thick

## VinyISTAT™ E - Homogeneous VinyI

Designed for use at workstations and other manufacturing areas, the three layer VME Vinyl serves a dual purpose: the closed-cell foam absorbs and reduces the shock and impacts associated with manufacturing electronic equipment such as disk drives and hard drives, while also dissipating static through immediate touch prior to handling such static-sensitive equipment. Made from two layers of polyvinyl chloride foam that encase a layer of conductive fleece to form an expanded static dissipative work surface.

Part Number
VME2450B
VME3050B
VME3650B
VME4850B
VME2448B
VME2472B
VME3648B
VME3672B

\*Replace "B" for Blue with "GY" for Gray

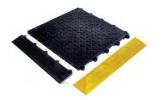
## Industrial Floor Tiles

This ESD matting is capable of tolerating the heavy loads and harsh conditions associated with industrial environments. Safety ramp edging, in matching black or high visibility yellow, ensures a safer transition to and from the ESD work area. The interlocking design makes the flooring simple to install and easy to configure.

Size	Part Number
20"x20" Tile	PV3010
4"x20" Female Edge	PV3110
4"x20" Male Edge	PV3112
4"x20" Corner Female Edge	e PV3114
4"x20" Corner Male Edge	PV3116
Grounding Plate	PV3210

#### Specification:

- Emboss: Diamond Plate
- Size: 20" x 20" x 1"
- Resistance:  $10^5$  to  $10^8$
- Firm, Low Compression
- Tolerates Harsh Conditions





- Three Layer with Foam Backing
- Resistance: 10<sup>7</sup>-10<sup>8</sup> ohms
- 0.375" Thick



## FM2 VinylSTAT™ Anti-Fatigue Mats

Made from expanded foam vinyl that reduces worker fatigue by providing a comfortable surface to stand on. They are available in single work area mats or runners for long assembly lines.

Size	Part Number
2'x60'	FM224720GY
3'x60'	FM236720GY
4'x60'	FM248720GY
24"x36"	FM22436GY
36"x60"	FM23660GY

\*Replace "GY" for Gray with "BN" for Brown

#### Specifications:

- Emboss: Tennis
- Thickness: 0.375"
- Resistance: 10<sup>9</sup> 9 x 10<sup>10</sup> ohms
- Spongy Foam

## FM3 VinylSTAT™ V-Groove Floor Runner

Corrugated floor runner mats can reduce slips and falls by increasing traction, even when exposed to moisture and chemicals. Made from a homogenous polymer mix of durable PVC and designed to provide a static safe work area for a wide variety of applications where ESD properties are required

Size	Part Number
3'x60'	FM336720GY
4'x60'	FM348720GY
36"x72"	FM33672GY
48″x72″	FM34872GY

#### Specification:

- Emboss: V-Groove
- Thickness: 0.125"
- Resistance: 10<sup>9</sup>- 9 x 10<sup>10</sup> ohms

## FM4 VinylSTAT™ Chair/Floor Runner

Made from expanded foam vinyl that reduces worker fatigue by providing a comfortable surface to stand on. Available in single work area mats or runners for long assembly lines.

Size	Part Number
3′x50′	FM43650GY
4'x50'	FM44850GY
48"x60"	FM44860
48"x72"	FM44872
48"x84"	FM44884

- Emboss: Pebble
- Thickness: 0.194"
- Resistance: 10<sup>7</sup>- 9 x 10<sup>9</sup> ohms



## FLOOR MATTING

## FM5 ComfortDOME™ Anti-Fatigue Mats

Evenly spaced domes on the conductive surface provides superior antifatigue relief because they get softer when compressed, not harder like products made with foam. The domes recover/rebound more rapidly than most foam resulting in an energizing responsiveness not found in other mats. Available in single work area mats or in interlocking sections for long assembly lines.

Part Number
FM2X3
FM3X4
FM53X4EP
FM53X4IC

\*Available in "EP" End Piece or "IC" Interconnecting

#### Specification:

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- Emboss Pattern: Bubble Dome
- Thickness: 0.50"
- Resistance: 10<sup>3</sup>-10<sup>5</sup> ohms
- Energizing Responsiveness





## FM6 ComfortGEL™ Anti-Fatigue Mats

The extremely comfortable mat is developed to prevent worker fatigue where static control is an issue. Constructed from a 0.625" thick close cell rubberized gel foam that can be cleaned for controlled environments.

Size	Part Number
20"x36"	FM62036BK
24"x36"	FM62436BK
60"x36"	FM66036BK

#### Specification:

- Emboss Pattern: Pebble
- Thickness: 0.625"
- Resistance: 5.68 x 10<sup>7</sup>
- Very Soft



## FM7 VinylSTAT™ ESD Chair Mats & Runners

The perfect floor covering for rolling chairs when static protection is a priority. The ESD Chair Mats are made of solid conductive vinyl that protects carpets and floors from wear-and-tear. Available in rolls, workstation mats, and office-style desk mats.

Size	Part Number
36"x75'	FM73X75
48″x75′	FM74X75
24"x48"	FM72448
36"x48"	FM73648
48"x60"	FM74860
48″x72″	FM74872
46"x50"	FM7CHAIR

- Emboss: Light Pebble
- Thickness: 0.093"
- Resistance:  $10^3 10^5$
- Durable, Ridged Vinyl



## FLOOR MATTING

## FM8 TileSTAT™ Anti-Fatigue Floor Tiles

Durable 3' x 3' interlocking mats fit together like a puzzle to create custom ESD workstations or complete room systems. Made with 3/4" thick conductive rubber which creates an anti-fatigue surface. The mats can be quickly dismantled to make moving and cleaning easy. Optional beveled borders can be added to the mats.

Size	Part Number
3'x3'	FM83X3
Female Ramp	FM8RF
Male Ramp	FM8RM

#### Specification:

- Emboss: Light Pebble
- Size: 3' x 3' x 3/4"
- Resistance: 10<sup>4</sup> to 10<sup>6</sup>
- Shock Absorbing Tile



## FM9 ComfortTREAD™ Anti-Fatigue Mats

Embossed with raised diamond-plate treads for superior traction and feature wide beveled borders to promote safety. A fully molded honeycombed cell design absorbs shock and cushions the feet. Available in interlocking sections which can be quickly dismantled to make moving and cleaning easy.

Size	Part Number
28"x30"	FM9C
28"x30"	FM9E

#### Specification:

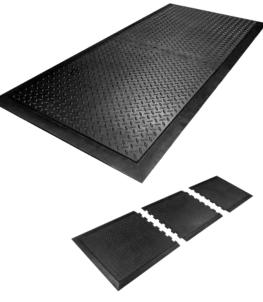
- Emboss Pattern: Diamond
- Thickness: 0.50"
- Resistance: 10<sup>3</sup>-10<sup>5</sup> ohms
- Shock Absorbing

## FM10 GrooveSTAT™ Conductive Floor Runners

A ribbed emboss pattern provides a non-slip surface that provides excellent traction and allows the mat to be easily cleaned. The matting is available in 4'x32' rolls and an assortment of lengths.

Size	Part Number
2'x4'	FM102448
3'x4'	FM103648
3'x32'	FM103X32
4'x6'	FM104872
4'x32'	FM104X32

- Emboss: V-groove
- Thickness: 0.125"
- Resistance: 10<sup>3</sup>- 10<sup>5</sup>
- Non-Slip V-Groove Surface



## **GROUND CORDS**





Low Profile Common Point Ground



CP2522 (Male) CP2522NR (Male, No resistor) CP2524 (Female) Floor Mat Ground Kit



**Floor Mat Ground** 



FM1515 (Male) FM1517 (Female)

#### **Bench Mount Ground**







### **Quad Common Point Ground**



# **GROUND HARDWARE**



# Grounding an ESD Mat

- 1. Use a common point ground cord when grounding a work mat. Most common point ground cord will ground your ESD worksurface and provide banana jack ground points for two wrist straps.
- 2. A common point ground should be installed at each workstation and should be connected directly to ground.
- 3. Install a ground snap approximately 1-2 inches in from the corner of the mat. Install by pressing a push and clinch snap into the mat and securing the prongs or use a screw driver for a universal snap kit.
- 4. Connect your ground cord to the snap on the mat and connect the opposite end (eyelet) to the ground point. Typically the ground point is the center screw of an outlet.
- 5. Your table mat is now grounded. If you are using ESD wrist straps, they can be grounded through the banana jacks on the common point ground





# **Test Equipment**

- **Continuous Monitors**
- . Combination Testers . Charge Plates
- Field Meters

- Resistance Meters
- . Accessories

Regular ESD testing procedures is required for a proper ESD program. Good ESD test equipment can mean the difference between a successful ESD program and a massive failure, with all the associated expenses. Whether you're maintaining a work area for electronics manufacturing, keeping safe around hazardous flammable materials, or protecting valuable client data, the cost of a bad ESD failure can and likely will exceed the expense of proper test equipment many times over even if you only look at what's immediately lost, ignoring the cascade of disruptions and losses which arise from such a failure.

# **CONTINUOUS MONITORS**

# Single Wire Continuous Monitors

#### Spartan Series Single Wire Continuous Ground Monitors

The Spartan Series Continuous Monitors provide ongoing

verification of the wrist strap system and the work surface ground.

The Spartan system eliminates the need for routine wrist strap testing and documentation and alarms when failures occur, greatly reducing the risk of ESD damage between tests. Both audible and visual alarms indicate a failure with the wrist strap system or work surface ground. Enclosed in a durable metal case with built in mounting brackets, the monitors can be installed underneath table tops to save work space.

#### Features:

- Audible and visual alarms signal a problem
- Durable anodized aluminum case
- Compatible with single wire wrist straps



One Work Surface

One Work Surface

#### CM400 Series Single Wire Continuous Ground Monitors

Using specialized capacitive sensing technology, the CM400 Series single wire ground monitors continuously monitor the single wire wrist straps and bench. Instant, audible alarm, and LED lights indicate a ground failure. Compatible with most single wire wrist bands. No calibration required!

# **OhmMETR/CS** Test & Measurement Equipment

#### Features:

- The most simple & cost effective monitors available
- Audible and visual alarms
- Compatible with single wire wrist straps
- Bracket included for mounting



СМ400

#### Monitors

One Operator



#### Monitors

- One Operator
- One Work Surface



CM420

#### Monitors

- Two Operators
- One Work Surface

Transforming Technologies ESD Solutions



# **Dual Wire Continuous Monitors**

The Resistance Ranger Series is the most reliable workstation monitoring system available. The extremely sensitive monitors accurately measure the electrical resistance of an ESD wrist band and work surface and signals if the devices fail. Audible and visible alarms are triggered if the operator's



resistance exceeds 35 meg ohm or if the work surface exceeds 100 meg ohm. The Ranger Series saves time by eliminating time consuming testing and logging of wrist straps and coil cords. Design for ultra-sensitive applications.

#### **Features:**

- Dual Wire Resistance Technology
- Fixed Alarm Limits
- ESD Safe Case
- Audible and Visual Alarms



СМ1600

#### Monitors

- Two Operators
- Two Work Surfaces
- Two Aux Grounds

# Provide States

СМ1601

#### Monitors

One Operator



CM1602

#### Monitors

- One Operator
- One Work Surface

# **RangerBOSS Continuous Monitors**

Transforming Technologies' RangerBOSS continous monitor is the premiere work station grounding system available. A continuous ultra-low voltage signal measures the electrical resistance of two wrist bands, two work surfaces, two grounded tools and operator voltage simultaneously and alarms is there is a problem.

#### Performance to your specifications

The CM2800's alarm settings can be reconfigured quickly and easily with the PC software CM2800-SEE. Operator Resistance, Operator Voltage, Work-surface Resistance, Operator Presence Check (OPC) and Resistance of Equipment alarms can be enabled/disabled and limits selectable to user specifications.

#### **Real Time Central Monitoring**

The CM2800 is network ready and can easily be connected to other workstation monitors and a computer using the high speed network router, CM2800-H. The host computer is transformed into a command center with the software CM2800-BOSS SEE, a central monitoring program that shows real time grounding results and allows for adjustment of alarm parameters of up to 4096 workstations. An entire assembly line's ESD protection can be remotely monitored and adjusted with one computer.



CM2815

#### Features:

- Monitors: Two Operators, Two Work Surfaces
- Output Signal for Alarm
- Fixed Alarm Limits
- Network-Ready



#### СМ2800

- Monitors Two Operators, Two Work Surfaces, Two Tool Grounds, Operator Voltage
- Output Signal for Alarm
- Programmable Alarm Limits
- Data Acquisition Software
- Network-Ready

# STATIC FIELD METERS

#### **EFM115**



A versatile static field meter used to locate and measure electrostatic fields and test the balance of air ionizers. Its compact design and four button operation makes it easy to operate. An ionizer balance plate is built into the unit.

#### Features:

- Digital Display with Numerical Beadout and Graphs
- Readout and Graphs
   Measurement Range: Static Voltage ± 0 ~ ± 1.49 kV (Low) ± 1.0 ~ ± 20.0 kV (High) Ion Balance Voltage: 0 ~ ± 200 V

# TRANSFORMING TECHNOLOGIES

The EFM250 is used to perform static surveys and evaluate static charge accumulation in electronic manufacturing and in industrial operations such as converting, printing, packaging, and plastics processing. Its compact design and four button operation makes it easy to operate. The EFM250 can measure electrostatic fields up to 20 kV. Simply hold the instrument so the LED guide beams form a non-pulsing circle indicating you are at exactly the right distance from the target.

#### Features:

- Hold button captures transient readings
- Ergonomic Design
- Large LCD Results display
  Measurement Range:
- ± 0 ~ 20.0 kV



282

A portable field meter used for detecting and measuring static potentials. With the optional charger and plate (282.CPS), the 282 can be used to measure ionizer performance.



#### Charge Plate Attachment

#### Features:

- Three Ring Projection
- Easy-to-Read Digital Display
- Measures Ionizer Performance with the 282.CPS

# **CHARGE PLATE MONITORS**



Perform manual tests or program automated decay and balance tests. Offers on-board data storage to automate ionization system testing. Upload test set-ups and ionizer locations and download stored test results.

#### Features:

- Stores 1500 Tests, 500 Locations & 4 Protocols
- Manual and Automated Testing
- Fully Configurable Testing
- Software Included

287B

A low-cost and highly portable alternative to a charged plate monitor for periodic verification of ionizer performance. It permits ionizer testing at the work location without the need to remove the ionizer from service for testing.

#### Features:

- Test Balance and Decay
- Low Cost Vs. Performance Ratio
- Hand-held, Battery Operated
- Optional 6"x 6" Plate Attachment (287/22C)

EFM250

# **GROUNDING TEST STATIONS**

## GTS600K



The GST600K tester is a space saving, versatile combo grounding tester that allows for accurate and cost effective testing of ESD ground devices. The dual test circuits in the GTS600 gives the option for both wrist strap and footwear testing and a positive rocker switch makes test mode selection easy. This tester supports the "Compliance Verification Plan" requirements as stated in the ANSI ESD S20.20.

Audible and visible alarms are triggered if the wrist straps resistance exceeds 35 megohm and footwear exceed 100meg-ohm. Low resistance of 750K for both wrist strap and footwear can also trigger an alarm event. This ensures that your ESD grounding devices are working properly and meeting industry requirements. Please note: Footwear must be tested one foot at a time for maximum accuracy.

#### Features:

- Positive Rocker Mode Selection Switch
- Wrist Strap Test Limits: 750K~10Meg Ohm (Default)
- Footwear Circuit : 750K~100Meg Ohm (Default)

GTS900K

The GTS900K combo tester is a three-state touch tester de-signed for fast and accurate testing of ESD ground devices. The GTS900K incorporates a unique split test circuit design and molded foot plate which allows for simultaneous and independent testing of footwear. This tester supports the "Compliance Verification Plan" requirements as stated in the ANSI ESD S20.20.

Audible and visible alarms are triggered if the wrist straps resistance exceeds 35 megohm and footwear exceed 100meg-ohm(factory default). Low resistance of 750K for both wrist strap and footwear can also trigger an alarm event. This ensures that your ESD grounding devices are working properly and meeting industry requirements.

#### Features:

- 100% Independently Tests Both Feet
- 9 Volt Test
- Molded Foot Plate
- Wrist Strap Test Limits: 750K~12Meg Ohm (Default)



# PDT800K

The OHM Metrics<sup>TM</sup> PDT800K is a comprehensive, accurate ESD Ground Device Tester that fully meets your daily ESD checking needs. The PDT800K independently tests the left and right foot and wrist band and gives a visual and audible PASS/FAIL indica-tor. An innovative LCD screen will instantly display the test result and the measured resistances so you can easily understand your testing program.

What makes the PDT 800K unique is the proactive "Near-Fail" Alert that indicates to the user that the ESD grounding device under test is Passing but nearing failure levels and should be changed soon if not right away.

Audible and visible alarms are triggered if the wrist straps resistance exceeds 35 megohm and heel grounders exceed 100megohm(factory default). Low resistance can also trigger an alarm event. The high and low limits of both wrist strap and footwear can be changed by the DIP Switch located at the bottom of the tester.

- Digital Readout
- 100% Independently Tests Both Feet
  - Wrist Strap Test Limits: 1Meg~35Meg Ohm (Default)



# SURFACE RESISTANCE METERS

# **Portable Resistance Meter**



#### SRM310

The SRM310 is portable and uses parallel electrodes to verify incoming materials such as floor mats, table mats, bins and shelving in static controlled areas.

Features:

- Portable Pocket-Sized Meter
- Quickly Measure Surface Resistance
- Test Range 10^3-10^12ohms

# **Travel Resistance Test Kit**



#### SRM330

The ultimate travel kit for testing resistance. The battery powered SRM330 is equipped with built-in parallel probes for quick surface measurements and includes two lightweight "travel" probes that eliminate the cumbersome weight of standard kits.

#### Features:

- Lightweight Kit Make Travel Easy
- Probes: Two Travel Pressure Probes
- Carrying Case

# **Digital Surface Resistance Kit**



#### SRM500K

Accurately and quickly measures resistance between two points (RTT) and surface-toground resistance (RTG). Suitable for factory audits and test lab evaluations, the Ohm Metrics SRM500K also measures ambient temperature and humidity.

#### Features:

- Measures Temperature and Humidity
- Probes: Two 5 Pound Probes
- Carrying Case
- Test voltage: 10V/100V
- Accuracy: ± 10%

#### Specifications:

- 10v and 100v Voltage Selection
- Automatic Zeroing and Power Shut Off
- Two 5lb Disk Probes
- Built-in Probes on Back of Meter for Quick Tests

## **5Ib Surface Resistance Electrodes**



#### SR0055

These probes are used with resistance meters to measure the electrical resistance of floors, work surfaces, shelves, garments, chairs and other items.











# **Wolfgang Warmbier**

- . PGT120 Tester
- Turnstiles
- Field Meters

- Resistance Meters
- Walking Test Kits
- . Audit Kits

Wolfgang Warmbier is Europe's premier brand of ESD products. Their ESD Test Instruments are precision engineered products that provide powerful ESD testing and reporting. With a built-in market of European owned manufacturers, Wambier products are highly sought after in North America.

# PGT120.COM.US - Data Management with RS232 Interface

The PGT120.COM includes an additional RS232 interface to process measurement data and test results in a data base. A computer or a terminal can be connected to the serial RS232 interface. The following data is available in ASCII format:

- Value Footwear in Series:
  - Value Wrist Strap System:
- Value of Left Foot:
- Value of Right Foot:
- Test OK: •
- **Test Failed:**
- OK
  - Error no.

Add Software At Anytime To Start Data Logging!



# **PGT120.US - Non Data Logging Tester**

If data logging is not required in your ESD program and you want a quick and accurate wrist strap and footwear tester than, the 7100.PGT120.US is the best fit for you. The unit indicates results with audible and visual signals. A relay with a dry contact provides the connection to a barrier system, such as a door. In combination with a barrier gate, the footwear measurement can be performed in series without pressing a button (hands-free mode).

#### Features:

- Independently Test Both Feet & Wrist Strap
- Adjustable Limits and Functions with DIP Switches
- Wrist Strap Range: 1Meg~35Meg Ohm (Default)
- Footwear Range: 1Meg~100Meg Ohm (Default)
- Dry Contact Connection to Barrier System



7100.PGT120.US

#### Software Data

All operator activity is logged into a central database to meet the AN-SI/ESD S20.20 requirements for ongoing quality control purposes. Each log entry includes operator identification, test results, resistance measurements, time, temperature and humidity. User identification is done through USB input devices (RFID, Barcode, Magnetic Card, Keypad) and is ready to integrate into existing infrastructure. A central data collecting and control server synchronizes measurement data and employee information and allows networking of up to 32 turnstiles/access points. Test data is stored locally on the device for one month, and can be retrieved by a web browser from any computer connected to the network.



Pair the unit with the PGT120.COM Data Terminal and you receive real-time ESD testing with personnel identification, access control and central data maintenance. Also connect to a number of accessories such as a label printer, bar code scanner, RFID, database server and much more.

- Ready to integrate into existing infrastructure
- Multiple PGT120.COM stations can be networked
- Existing identity cards or time attendance cards can be reused
- Open database interface
- Measurement data is ready to process after a few seconds
- Various databases can be used
- Combination with existing access systems is possible .
- Secure network communication



Ethernet

**Transforming Technologies ESD Solutions** 

Value in kOhm Value in kOhm Value in kOhm

Value in kOhm

# **Build A Custom System**

**Choose Your Data Terminal** 



**Data Terminal 2** 

The PGT120 Data Terminal 2 is the base system that is ready to integrate into existing HID infrastructure. Systems can be connected via USB and an open database interface is used.



#### Data Terminal 3+

The PGT120 Data Terminal 3+ is equipped with a build-in RFID reader for employee identification. Also includes a display, a relay to open doors/barriers and 4 USB ports.

#### Choose How To Mount The



#### Pedestal Stand

Place your PGT120 on a pedestal stand for a clean look in your test area! The pedestal stand is perfect for areas that a wall mount won't work.



#### Wall Mount

Mount your PGT120 securely to wall using the wall mount option. This allows you to keep the unit off the floor and open up more space.



#### Data Terminal TC18

The PGT120 Data Terminal TC18 is a 10" touch screen MiniPC that can display test results as well as store data. Includes 4 USB ports, LAN-Port RJ45 and RS232 ports. The housing is durable aluminum with front panel mounting.



#### **Housing Unit**

Seamlessly integrate the TC18 Data Terminal and PG120.COM into the AccessPRO Turnstile. The housing allows the TC18 touch screen computer to be easily accessible when testing notifying users of pass/fail results.



# PGT120.COM FastPASS Turnstile System

The PGT120 personnel grounding tester with the FastPass turnstile verifies the functionality of an operator's wrist strap, ESD footwear or ESD jacket and only allows access through the turnstile with a PASS test. Green lights indicates that the wrist strap and footwear are functioning properly and the turnstile activates, allowing passage through. Red lights, an audible alarm indicate that the grounding products are failing and should be replaced and access is denied.

The USA made FastPass turnstiles are designed for years of reliable service in high traffic/volume applications. Thousands are currently in use in factories, pro-sports venues, amusement parks and high-profile attractions worldwide. The cabinets are constructed of heavy 14-guage, 300 series satin stainless steel with minimal exposed hardware.

Model PGT120K Power Input

Specifications 9 Volt Battery: 230 VAC Power Supply

Test range: Wrist Strap & Coil Cord Shoes (each shoe) Shoes in Hands-free" Mode

750 kW ..... 35 MW < 20 / 35 / 70 / 100 MW < 40 / 70 / 140 / 200 MW

# PGT120.COM Standard Turnstile System

Combining the PGT120 personnel grounding tester with the Standard Turnstile allows users to verify a passing test in order to proceed through the access point. A failed test will lock the turnstile from allowing access through the entrance. Add on the optional TC18 Touchscreen and housing unit for a sleek finish and easily accessible results when testing. The turnstile has an integrated section for a human interface device.



PGT120.COM

Signal Lamp



**TC18 Touch Screen** Data Terminal MiniPC Gives Real-Time Pass/Fail, Records Test Results, and Plays Company Videos

**RFID Reader** ted Human Interface Device

AccessPRO Turnstile Steel Waist-High Turnst

PGT120 PACKAGE SELECTION GUIDE											
		dot or o				, OX	<b>M</b> .	2			I
PACKAGE	PGT120.US & Footplate	PGT120.COM & Footplate	PEDESTAL STAND	WALL MOUNT	SOFTWARE	DATA TERMINAL 2	KEYPAD	TEMP/RH SENSOR	USB HUB	STANDARD TURNSTILE	FASTPASS
PGT120K110	~			~	· · · · · ·			[			
PGT120K120	~	1. 1	~		×			1	1		
PGT120K130	~						50 T.			$\checkmark$	
PGT120K140	~										>
PGT120K210		~		~	>	~	~	~	~		
PGT120K220	1	<	~		<	~	~	~	~		
PGT120K230		~			>	~	~	~	~	$\checkmark$	
PGT120K240		~	· * ; ;		~	<	~	~	~	21	~

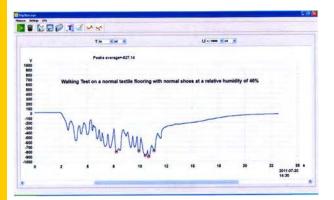
# THE WALKING TEST

What is the Walking Test? When the primary method of grounding is footwear and an ESD floor, it is required to test the effectiveness of this system with the Walking Test according to ANSI/ESD S20.20.

For this flooring and footwear qualification test, you must measure the maximum voltages during the test and record them to a chart recorder or plotter. The voltage test consists of a walking pattern that was designed to simulate the actions of a person walking through the plant. The walking pattern is shown in Figure 1.

#### WT5000 Walking Test Graphing Kit

A complete system to measure the body voltage generated while walking, the result of which is graphed via a PC and shown with LED on the instrument. The graphing software can mark the five highest peaks automatically and calculates the average value which creates the graph needed to qualify an ESD flooring system.



#### EFM51.WT Portable Walking Test Kit

A hand-held meter used to verify the performance of ESD floors in combination with a person. The meter captures the peak voltages while performing the walking test. The EFM51 meter also measures and detects electrostatic fields, surface potentials and discharge times (with optional charge plate accessory EFM51.CPS).



# 6 5

Figure 1. Walking Test Pattern



#### Features:

- Perform the Walking Test per ANSI ESD S20.20
- Graphs Data via USB Connection to PC
- Handheld Electrode
- **Carrying Case**

#### Specification:

- Test range: ± 5,000 volts or ± 500 volts
- Accuracy:  $\pm$  5% of measured value Input resistance: > 10<sup>14</sup> ohms

- Input capacitance: < 5 pFarad Output: Analog ± 5 volts for each test range .
- Operation: Rechargeable batteries



- Perform the Walking Test with Portable Field Meter
- Handheld Electrode
- Performs All Functions of a Static Field Meter
- Test Ionizer Performance with a Charge Plate Accessory
- Conductive Carrying Case

# **METRISO® 3000 High Resistance Test Kit**



The METRISO<sup>®</sup> 3000 is a digital high resistance tester capable of measuring point-topoint resistance and resistance-to-ground measurements with a large test range of 1 kOhm to 1,2 TOhm . The meter includes an integrated data logger with a USB communication port for data transmission, temperature and relative humidity sensor, PC software for Windows, two disk probes, a hand-held probe with connecting cable, and a conductive carrying case fitted with dissipative pink foam.

#### Specifications:

- Test Range: 1 Ohm -10T Ohm
- Test Voltage / Test Current: 1 mA < I < 1,3 mA</li>
- Operation: Rechargeable Batteries
- Probes: Two 5lbs with Conductive Rubber One Hand-Held Probe
- Complies with ANSI/ESD S20.20

#### **Features:**

- Measures Large Test Range
- Measures Temperature and Humidity
- Records Test Values & Creates Reports
- via USB PC Connection
- Conductive Carrying Case



# **METRISO®B530 Surface Resistance Test Kit**

A test kit for suitable for testing surface resistance ESD compliance testing. The Metriso<sup>®</sup> B530 test kit includes a digital high resistance test meter, two disc probes, an extension handle for floor measurements, a hand-held probe with connecting cable, and a conductive carrying case fitted with dissipative pink foam.

#### Features:

- Suitable for ESD Compliance Testing
- Two 5 Pound Disk Probes,
- One Flooring Extension Probe Handle
- Handheld Probe
- Carrying Case

#### Specifications:

- Test Voltage / Test Current: 1 mA < I < 1,3 mA</li>
- High Ohmic range: DC 10V,100V, & 500V
- Test Range: 1-10kOhm, 1kOhm 199kOhm
- Operation: Battery Operated
- Complies with ANSI/ESD S20.20





7100.B530.MK

# Portable Resistance Meter with Data Storage



#### 7100.SRM110

This SRM 110 from uses parallel electrodes to accurately measure RTT, RTG, or resistivity for periodic verification, factory audits or test lab evaluation of product. This meter is designed to be compact and easy to carry. The LED readout is simple and easy to understand. This meter is best for general measurements.

#### Features:

- Simple one button operation
- Easy to read LED light indicator

7100.EFM51

• 2 external probe connection possible



#### 7100.SRM200.K

A portable meter that records test data into memory that can be accessed through a USB connection to a computer. Two external probes can be connected. Measures temperature and humidity as well.

#### Features:

- Small, Portable Size
- Read Test Values via USB connection
- Measures Temperature and Humidity

SRM200 Digital Surface Resistance Meter

SRM200 Digital Surface Resistance Meters

SRM200/EFM51 ESD Testing Starter Kit

Power: Replaceable 9V Battery

With Probes & Case

- Carrying Case
- Optional 5lb Weight Kit Available -SR0065

# WOFLGANG WARMBIER

# STATIC FIELD METERS

A convenient hand-held device to locate and measure electrostatic fields on surfaces. Its compact design and four button operation makes it easy to operate. Two LED guide ring lights help position the field meter at the right distance from a charged test object. With accessories, you can also verify ionizers and perform the Walking Test.

Part Number 7100.SRM200.K

7100.SRM200.SK51

7100.SRM200.VK

Electrostatic

**Field Meter** 

#### Features:

- LCD Display
- Battery Operated
   Measurement Bat
  - Measurement Range: 0 - 160 kV (Distance Mode) 0 - 800 kV (Field Strength Mode)
  - Measure Ionizer Decay and Balance (with EFM51 CPS.)
- Perform Walking Test (with EFM51.WT)

Part Number 7100.EFM51 7100.EFM51.CPS 7100.EFM51.CPS.SET 7100.EFM51.PLUS 7100.EFM51.VK

#### Description Electrostatic Field Meter Electrostatic Field Meter With Charge Plate Set Charge Plate Set For The EFM51 Electrostatic Field Meter with Conductive Black

Electrostatic Field Meter with Conductive Black Case Electrostatic Field Meter Verification Kit





#### 7100.EFM51.CPS

Charge Plate System for testing of an ionizers balance and decay with the EFM51.

# CHARGE PLATE MONITOR

The CPM74 is battery powered and due to its compact design, it is very suitable for the mobile use in industrial areas. It can also be operated with an AC power supply. The CPM74 is menu-driven and is controlled by with only 2 buttons for simple operation. All selected parameters will be shown in the two-row LCD-display for a better orientation for the operator. The test results can also be saved into internal memory.

- Measure air ionizers performance
- Quickly and easily test ionizer decay
- times and offset voltage
- Easy 2 button operation
- Compact and portable
- 6 hour operating time (battery powered)



# **RESISTANCE PROBES**

**5lb Disc Probes** 



**Concentric Ring Probe Kit** 

Pair with a Surface Resistance Meter to RTG, RTT, and other resistance measurements.

#### **Combo Probe with Concentric Ring**



One side is a concentric ring, the other is a 5lb disc probe. Performs many resistance measurements.



Used with Surface Resistance Meters to test items for compliance verification.

#### **Handheld Probe**



Glove probe is designed to evaluate ESD gloves according to ANSI ESD20.20. The rugged clamp is fitted with conductive contact points for resistance meter cable. The connection point is a 4mm banana plug socket.

7220.880.SET

#### **Temperature and Humidity Sensor**

Take temperature and humidity readings while performing resistance measurements.

**Handheld Probe** 

Test body voltage measurements and overall system resistance.





TF530

#### **Backrest Probe**



7200.90

Designed to evaluate ESD chair back rests. Fitted with conductive contact points and a 4mm banana socket.

#### **Clamp Probe**



Designed to evaluate ESD garments. A wide stainless steel surface ensure excellent contact during testing.

# ESD AUDIT KIT



The ESD Audit Kit includes the relevant test instruments and equipment needed to perform ESD audits according to ANSI ESD20.20 and IEC 61340-5-1 and for qualification and verification of ESD control elements. Choose between the MetrisoB530 standard resistance meter or the

Metriso3000 high resistance meter.

#### **Applications:**

- Evaluate packaging materials Evaluate garments •
- •
- Measure flooring, work surfaces and furniture resistance Measure electrostatic fields
- Measure temperature and relative humidity
- Analyze ionizers performance .

7110.600.SET



7110.B530.SET

#### The ESD Audit Kits includes the flowing products:

Part Number	Description	7110.B530.SET	7110.600.SET
7110.600	Aluminum Case	Х	Х
7100.B530.G	Metriso <sup>®</sup> 530B High Resistance Meter with connecting cables	Х	
7100.3000.G	Metriso3000 High Resistance Meter with connecting cables		Х
7100.3000.TF	Temperature and humidity sensor Metriso <sup>®</sup> 3000		Х
7100.TF530	Handheld Temperature and humidity sensor	Х	
7220.45	Handheld probe model 45	Х	Х
7220.840	Two Point Probe	Х	Х
7220.880	Ring Probe	Х	Х
7100.SRM110	Surface Resistance Meter, Pocket Size	Х	Х
7100.EFM54.CPS	Electrostatic Field Meter with Charge Plate Set	Х	Х
7220.850	850 - Two Five Pound Probes		Х
7220.870	870 - Two Five Pound Probes	Х	
7220.870.V.SET	Extension rod for Probe model 870	Х	
2200.110	Grounding plug	Х	Х
7110.E8	8-socket grounding box	Х	Х
7100.2000.TR50	Floor Mat Cable Reel	Х	Х
7100.PGT100.102	Metal Plate with 4mm banana plug adapter	Х	Х
7220.880.6	Insulative Plate	Х	Х
7220.880.9	Probe made of stainless steel	Х	Х
7220.880.L	Guard cord, blue	Х	Х



# Cleanroom

- Masks
- Shoe Covers
- . Matting

- . Wipers
- Frocks
- . Trash

A controlled environment should be outfitted with cleanroom supplies and equipment specifically designed for these critical spaces. Using products that are not cleanroom compatible can contaminate the environment and potentially even damage equipment and/or products. Our clean room supplies, including but not limited to wipers, gloves, garments and matting are trusted by a wide range of businesses involved in scientific research, biotechnology, and pharmaceutical industries.



#### **Bemcot M3 Anti-Static Wipers**

Bemcot<sup>®</sup> antistatic wipers are for quick and easy wiping in cleanrooms and other environments that demand the lowest levels of lint, particles and static generation. The Bemcot<sup>®</sup> M3 Wipe is an entangled nonwoven fabric made with a 100% cotton cellulose composition. Because cotton is completely cellulosic, this is an extremely absorbent wipe. The soft, low-linting wipe is quarterfolded and is sized to fit the hand. The M3 wipe is heat-resistant for cleaning high tempera-ture process equipment and diffusion furnaces. The wipe is quarter-folded to promote proper wiping protocol.

#### Features:

- Excellent Ant-Static and Heat Resistance
- Extremely Absorbent: Absords 13 Times it Weight
- Made from 100% Cotton
- Non-Woven, Soft and Low Linting
- No Binders Safe to Use with Solutions
- Apertured Surface Promotes Particle Removal
- Dimensions: 10x10 inch (24.9x24.9 cm)
- 100 Wipers Per Pack; 30 Packs Per Case

#### WP7200 ESD Polyester Wipers

Cleanroom safe ESD wipers are the perfect cleaning choice for materials at risk for damage from static. The WP7200 is made of 100% continuous polyester filament with conductive yarns designed to dissipate electrical charge and control ESD. Unlike similar wipers that are static dissipative on one side, the WP7200 wipers are static dissipative on both sides to ensure the highest levels of ESD protection. The edges are laser sealed to ensure ultra-low lint and particle generation. The wipers are suitable for Class 100-1000 cleanrooms. The WP7200 wiper is 9"x9" and packaged 150 wipers to a bag.

#### Features:

- ESD Wipers for General Cleaning Applications
- 100% Continuous Polyester Filament
- with Conductive Carbon Yarn
- Static Dissipative on Both Sides
- Good Solvent Resistance
- Lint and Particle Free
- Suitable for Class 100 -1000 Cleanrooms
- Washable



WP6200 Anti-Static Wipers

The static dissipative polyester wiper is a perfect wiping choice for optics, LCD screens and other materials at risk from scratching. Contains no carbon filament which can abrade surfaces. Will not tribo-charge over 100 volts.

#### Features:

- ESD Wipes for all Electronic Manufacturing and Optical Cleaning Applications
- 100% Knitted Polvester
- No Carbon or Metal Fibers
- Less than 100 Volts Tribo-Charge
- Good Solvent Resistance, Lint Free
- Complies with ANSI/ESD S20.20
   ( per ANSI/ESD S11.11 & ANSI/ESD DS11.12 )

CLEANROOM

WP7200

# **ESD Curtain Roll**



#### ESDC1003C

#### **Disposable Shoe Covers**



#### **Disposable Shoe Covers**



ESD curtains made of transparent PVC with a conductive grid throughout which makes the curtains ESD safe. The curtains have great draping ability so that they can be used as protective coverings for carts, instruments or entire walls. The material is flexible and easy to cut to desired specifications.

A common problem in laboratories is

caused when dust and dirt accumu-

late on a microscope pedestal lens.

scope cover you can protect your

microscope optics from dust and other contamination while keeping

your work station ESD safe.

With our MC1221W ESD safe micro-

#### Features

- PVC material is very flexible and easy to cut
- Conductive "honeycomb" grid
- Can be used as softwalls
- 54"x98'x0.3mm

#### Features

- Keep Microscope Optics
   Safe From Contamination
- Made from ESD Materials
- Won't Generate A Charge When Removed

#### Features

The plain sole bottom shoe covers are made from two (2) pieces of heavy-weight polypropylene and work well when worn inside laundered boot covers.

#### Specifications:

- Material: 100% Virgin Polypropylene
- Weight 1.25oz (40 gm)
- Color: Blue
- Surface Resistance: <10<sup>6</sup>Ohms
   Size: Universal
- Size: Universal

# **MT5500 Series IDP-STAT Cleanroom Table Mat**



#### Features The IDP-STAT 5500 series utilizes a

patented inherently static dissipative polymer alloy system to provide clean, permanent ESD protection. The IDP-STAT 5500 series provides consistent static dissipation that is not dependent on humidity and will last the life of the mat.

#### **Cleanroom Waste Basket**



#### Features

The WBAS28-MET is a permanently conductive stainless steel open top waste basket that is clean room compatible. Comes with a retainer band to hold liners in place. The wastebasket has a capacity of 28 quarts.

#### Specifications:

- 1MM Thickness
- Transparent
- TPU Alloy
- Available in 50 foot rolls or cut mat sizes

- Cleanroom Waste Basket
- Stainless Steel
- 7 Gallon Capacity

# **CLEANROOM FROCKS**

Transforming Technologies ESD Cleanroom Frock is engineered to meet up to a Class 100 clean room demands for industries such as microelectronics, semi-conductors, disk drives, lasers, and other like industries. The Cleanroom Frocks are made with static dissipative fabric for eliminating static on the personnel in cleanrooms.

Superior workmanship and reliable panel-to-panel continuity makes the JLM6200 ESD Cleanroom Frock an excellent product to control contamination and static. The JLM6200 Series Garment maintains consistent continuity readings for up to 100 wash cycles.

The knee-length frocks protect the environment from the number one source of contamination found in cleanrooms - people. The frock features a military collar, ESD knit cuffs, and YKK zipper closure with adjustment snaps at the neck.





Part Number	Size
JLM6201LB	XS
JL6M202LB	S
JLM6203LB	М
JLM6204LB	L
JLM6205LB	XL
JLM6206LB	2XL
JLM6207LB	3XL
JLM6208LB	4XL
JLM6209LB	5XL



Part Number	Size
JLM6201NB	XS
JL6M202NB	S
JLM6203NB	Μ
JLM6204NB	L
JLM6205NB	XL
JLM6206NB	2XL
JLM6207NB	3XL
JLM6208NB	4XL
JLM6209NB	5XL



Part Number	Size
JLM6201WH	XS
JL6M202WH	S
JLM6203WH	М
JLM6204WH	L
JLM6205WH	XL
JLM6206WH	2XL
JLM6207WH	3XL
JLM6208WH	4XL
JLM6209WH	5XL

# Cleanroom Safe Anti-Static Facemask



The FM03 is a reusable **Cleanroom Safe, Anti-Static** face mask. The mask works like a natural shield against airborne contaminates. The mask is made with a ESD safe Class 100 Cleanroom fabric with a conductive grid that reduces static generation. This face mask can be machine washed.

Transforming Technologies ESD Cleanroom Fabric is engineered to meet up to a Class 100 clean room demands for industries such as microelectronics, semi-conductors, disk drives, lasers, and other like industries.

- Works like a natural shield against airborne contaminates
- Machine washable
- Class 100 cleanroom fabric
- ESD Safe
- Available in size small, large and extra large



	Accessories					
•	Labels	•	Trash			
•	Таре	•	Curtains			
•	Pens	•	Sheet Protectors			
•	Signs	•	Badge Holders			

Common, everyday items such as trashcans or pens, can be a potential threat to your static sensitive items. Transforming Technologies provides ESD safe versions of products that are commonly overlooked products in ESD protected areas.

# ESD ACCESSORIES



**Transforming Technologies ESD Solutions** 

MC1221W

# ESD ACCESSORIES

#### **ESD** Labels







LB9050 5/8" x 2"





MIL STD 129N/Symbol LB9083 4" x 4" LB9082 2" x 2" Removable Labels Available



LB9100 4" x 4"



ATTENTION

ELECTROSTATIC

SENSITIVE DEVICES

3/8" x 1-1/4"

CAUTION

DO NOT OPEN EXCEPT AT APPROVED FIELD FORCE

PROTECTIVE WORK STATION

5/8" x 2"

1" x 2-1/2"

THIS STATION OF EQUIPMENT IS

**STATIC SAFE** 

1-3/4" x 3"

CAUTION

ELECTROSTATIC SENSITIVE DEVICES DO NOT OPEN OR HANDLE EXCEPT AT A STATIC FREE WORKSTATION DEVICES

18

SENSITIVE

LB9020

LB9040

LB9060

24

LB9070

LB9081 4" x 4" LB9080 2" x 2" Removable Labels Available





LB9180 1-3/4" x 2-1/2"



LB9120 1-3/4" x 2-1/2" LB9110 1" x 1-1/2"

## **ESD** Tapes

#### **Aisle Marking Tape**



#### Anti Static Tape



#### Anti Static Tape, ESD Symbol



#### **Conductive Grid Tape**





Various Sizes Available

**Part Number** TTRB1

> TTRB2 TTRB3

> TTRB4

TTRB5 TTRB6

TTRB7 TTRB8

TTRB10

ACCESSORIES

#### Features:

- Conductive Rubber
- Various Sizes Available

Part Number	Size
TTCRB2	4.75″x1/8″
TTCRB3	6.25"x1/8"
TTCRB4	4.00"x1/8"
TTCRB5	4.00"x1/4"
TTCRB10	4.5"x1/2"

**Enhances Skin Contact with** 

Color

Black

Red

Blue

- Grounding Straps
- **Contaminate Free**
- Contains Aloe & Moisturizers
- Clean Refreshing Scent

#### Improves Contact With

- ESD Footwear Conductive Threads in Toe and Heel
- **Ensures Electrical Connection To Ground**

#### Part Number Size SC0024 Small Medium SC0026 SC0028 Large

Size

6.25"x1/4" 4.75″x1/8″

6.25"x1/8" 4.00"x1/8"

4.75"x1/4"

3.00"x1/16" 4.75"x1/4"

7.50"x1/4"

4.50"x1/2"

# WHERE TO BUY

Transforming Technologies partners with distributors throughout the USA, Mexico, Canada and Europe. The part numbers and descriptions in this catalog are to be used for references to Transforming Technologies products on our distributors websites and quoting process. Items may also be purchased through the "buy now" section of our product pages. For more information on our distributors please visit www.transforming-technologies.com/search-distributors or call 419-841-9552.



Add items to the quote cart on our website or submit a contact form. We will contact you with pricing and refer you to the best distributor for you.



Ready to buy? Look for the "Buy Now" button on our product pages. This returns links to the product on distributor websites where you can purchase the product.



Would you like service and support of a local company? Visit our distributor page to view a map of distributors in your area. Give a call or email and ask for a quote!



Transforming Technologies has regional sales reps throughout the US, Canada and Mexico. Schedule an inperson visit or contact for a quote!



# ESD TRAINING

ESD training begins with the basics. You need a solid understanding of what causes electrostatic discharge in order to learn how to avoid it and how to identify problem areas. ESD, often referred to as static electricity, is the build up of an electrical current based off of friction and resistance. Electric and hybrid vehicles use this to help generate additional electricity, yet this is not the kind of electricity you want inside of a room full of delicate electronics, chemicals, medicine and other delicate material. The ESD training covers how this static electricity builds up and why it moves from one object (yourself) to another.



# ESD AUDIT

An ESD audit is an essential part of a good ESD control program. This checks all ESD control practices and products are in proper working condition while giving management the necessary feedback for any corrective action. In the audit, all facets of the program must be checked to see that they are in accordance with defined company procedures. Any discrepancies must be recorded and reported to the work area supervisor and to company management. Graphic summaries are helpful tools for presenting audit results, and will enable managers to commend personnel in areas that have improved and to detect and analyze problems in areas that are having difficulties.

ESD Audits may be performed by our regional sales managers or a local representative.



# **REPRESENTATIVE COVERAGE**

Transforming Technologies works with numerous representative groups throughout the United States, Canada and Mexico. With our large area of coverage, we are able to provide hands on assessment at your facility as well as demonstrations of our equipment. Contact our main office at info@transforming-technologies.com and we will put you in touch with a rep group.



# **REQUEST AN ESD SAMPLE PACK**

Find out what Transforming Technologies can do for you! We are so confident in our products, we would like to show you instead of tell you! Visit our website to request a FREE SAMPLE PACK with an ESD Workstation, PLUS a free gift!

www.transforming-technologies.com/deals/



# **RESOURCE CENTER**

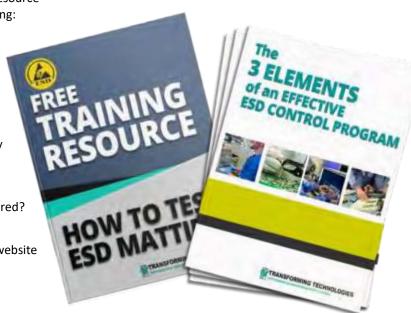
Not sure where to start? Check out our online ESD Resource Center containing information on many topics including:

- Product Testing and Qualification
- ESD Product Selection Guides
- ESD Glossary
- Frequently Asked Questions
- Articles on ESD Related Topics .....and much more!
- •

Visit www.transforming-technologies.com/resources/

Do you have a specific question you would like answered?

Set up a meeting with a Static Control Expert on our website at www.transforming-technologies.com/contact/









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