

STATIC CONTROL SELECTION GUIDE

Personal Grounding

Constant Monitoring

Ionization

Surface Protection

Test Equipment

ESD Apparel

SMD Boxes

ESD Accessories

Protective Tapes

Welcome to Transforming Technologies, leaders in static protection. We provide a wide range of innovative and reliable products to prevent, eliminate and monitor electrostatic charges. Our mission is to offer effective solutions, comprehensive knowledge of electrostatic issues, and above all outstanding, friendly service.

We call it Static Care™



Static Control Selection Guide:

Personal Grounding: Wrist Straps 2	Test Equipment 6
Footwear 3	ESD Apparel 7
Constant Monitoring 3	SMD Boxes 7
lonization 4	ESD Accessories 8
Surface Protection 5	Protective Tapes 8

Personal Grounding: Wrist Strap Sets

Transforming Technologies offers a wide range of adjustable **single wire** and **dual wire** wrist bands and coil cord sets. Our wrist straps sets will ensure that static sensitive materials are protected during handling. Our coil cords are tough and versatile and connect securely to most all industry standard banana jacks and wrist straps.

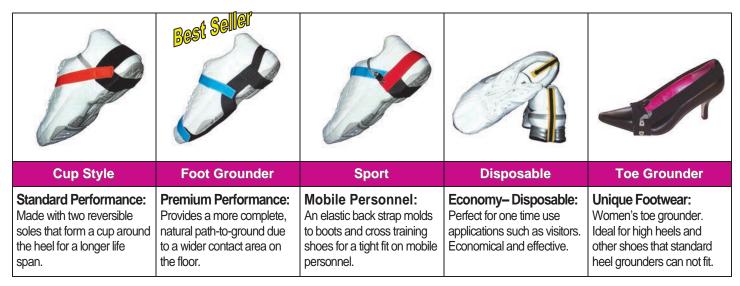


Image	Style	Model	Features	Options
1	Single Wire	WB1600	Best Seller! Blue fabric band with 4,7, or 10mm snaps available. Classic coil cord.	6,12, and 20 ft. cords
	Single Wire	WB2600	Polyester silver-plated nylon fabric band, maroon. Classic coil cord.	6,12, and 20 ft. cords
	Single Wire	WB4000	Comfortable blue band with a machine snap. Premium coil cord.	6,12, and 20 ft. cords
2	Single Wire	WB6000	Metal expansion band, black. Premium coil cord.	6,12, and 20 ft. cords
3	Single Wire	WB8000	Elastic band with a clamshell locking clasp. Eliminates excess wrist band material. Premium coil cord.	6,12, and 20 ft. cords
	Dual Wire	WB5000	Dual metal wrist band, Speidel : small, medium, and large. Hytrel coil cord. Dual ground redundancy.	5,10 and 20 ft. cords
4	Dual Wire	WB7000	Dual fabric band. Adjustable elastic, blue. Hytrel coil cord. Dual ground redundancy.	5,10 and 20 ft. cords
5	Disposable	WB5407	Disposable wrist strap. Polyester fabric impregnated with conductive fiber.	Adhesive strip or Clip

^{*} Use with a dual conductor constant monitor.

Personal Grounding: Footwear

Transforming Technologies heel grounders are designed for comfort, durability and effectiveness. Heel grounders provide a continuous ground path between the operator and a properly grounded ESD protected floor. They are designed for use in applications, such as wave solder, kitting, quality control or where user mobility is required.



Grounder Type	Closure Style	Features	Model Number
Cup	Hook and Loop	Classic, Buried 1 meg resistor. 1.25" cup design.	HG1341
Cup	Hook and Loop	Yellow, Hi-visibility strap elastic strap, Buried 1 meg resistor. 1.25" cup design.	HG1390S
Cup	Stretch Loop	High Visibility Orange, buried 1 meg resistor. 1.25" cup design. Available in Black (HG1360).	HG1370
Disposable	Adheres to Shoe	One-time-use disposable heel grounder. Economical.	HG4560
Foot Grounder	D-Ring	Complete sole coverage for optimal protection. 1meg, or 2meg. XS, S, M, L.	HG6000 Series
Sport	Hook and Loop	Ideal for boots and cross-training athletic shoes. Molded resistor, 35mm sport design.	HG1590 Series
Toe Grounder	Elastic	Women's toe grounder, 1meg.	HG2520

Constant Monitoring

ESD Constant monitors reduce production costs by eliminating the time spent on testing wrist straps before each shift. Further savings may be realized by reduced ESD damage from broken wrist straps. Single Wire or Impedance monitors use a detection circuit designed to reduce false alarms and eliminate adjustments. Dual Wire or Resistance monitors use dual conductor wrist straps and observes the resistance of the total loop, consisting of two ground wires, a person, and a wristband.

	Dual Wire Monitors	Single Wire Monitors		
Be	est Seller	CM 400 OP MO	The second of th	The day of the C
	CM2800 Series	CM400	CM410	CM420
	Monitors Two Operators and Two Grounded Mats	Monitors One Operator OnlyMost Cost Effective	Monitors One Operator and One Grounded Mat	Monitors Two Operators and One Grounded Mat

Fax: 419-841-3241

Ionization

Ionizers protect electronic components and devices from ESD threats generated on insulators and isolated conductors in the production process. Both Ptec[™] and BFN[™] Series ionizers from Transforming Technologies deliver a dependable, balanced stream of richly ionized air to the target or workstation. Keep your components and assemblies safe from the risks of ESD.

Bench Top Ionizers In-Tool IN5110 IN5120 **BFN801** Light weight and compact design This In-tool AC Ionizer Blower provides The BFN 801 bench top ionizing blower, with inherently stable AC exceptionally fast static decay capabilcombined with an adjustable blowing angle makes the IN5110 a ity with excellent balance stability, all in technology, provides excellent valuable bench top application. balance and rapid charge decay for a small footprint. secure workstation protection. Decay Time: < 2secs @ 12" Decay Time: < 2secs @ 12" Decay Time: < 2secs @ 12"





Surface Protection

Work surface

Static dissipative mats are a key element in creating an ESD safe work station. Our durable 2-layer rubber mats offer excel-

lent resistance to hot solders, soldering irons and most solvents. 3-layer vinyl mats provide critical protection and cushioning.



Flooring

Transforming Technologies has the correct solution to fit most any unique ESD flooring application:

- Homogenous Vinyl,
- Three-Layer Vinyl,
- Anti-fatigue Vinyl Mats,
- ESD Floor Runners and
- PVC Tiles

Field

Field Service Mats provide a complete, portable ESD safe workstation for personnel working

with electronics in the

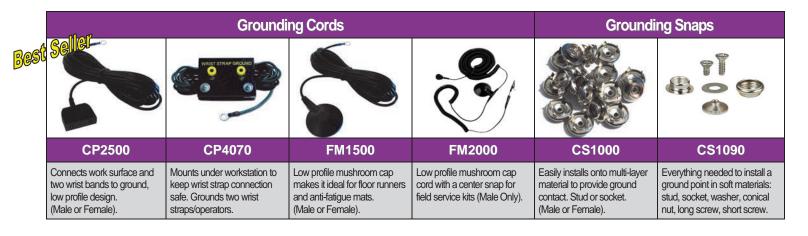


FSM2424R

field. Includes a 24" x24" mat with 2 pockets, wrist strap, ground cord, and folds to fit into most tool cases.

Usage	Material	Model	Features	Color
Table	2 Layer Rubber	MT4500	Excellent resistance to hot solders, soldering irons and most solvents.	Nasa Blue, Royal Blue, Green, Gray
	3 layer Vinyl	VMA	Solid vinyl, homogeneous construction with a buried non carbon conductive layer.	Gray, Blue
	3 Layer Vinyl	VMB	3 layer construction: solid vinyl top, conductive metalized fleece and a foam bottom layer.	Gray, Blue
	Homogeneous Vinyl	VMC,VMD	Homogeneous polymer mix, consistent, controlled static drain.	Gray, Blue
Floor	Premium Anti-fatigue	FM1	Rubberized with vinyl/nitrile construction which makes it 2 to 3 times more resilient than ordinary vinyl sponge matting.	Gray
	Standard Anti-fatigue	FM2	Constructed with a closed-cell expanded polyvinylchloride (PVC). These mats are designed to provide comfort and reduce worker fatigue.	Gray, Brown
	Floor Runner	FM3	The V-Groove pattern on the FM3 floor mat helps create a non-slip area.	Gray
	PVC Tile	PV Series	ESD Interlocking PVC Tile Floor. Designed for industrial applications.	Gray
Field	Field Service Kit	FSM2424	Made from a rugged, three layer embossed PVC material with a buried conductive layer.10mm male snap, Common Point Ground with bull dog clip, wrist band and 6' cord.	Red, Blue
	Field Service Kit	FSM2424-SG	Made from a rugged, three layer embossed PVC material with a buried conductive layer.10mm female snap, FM2000 Center Snap ground cord, wrist band and 6' cord.	Red, Blue

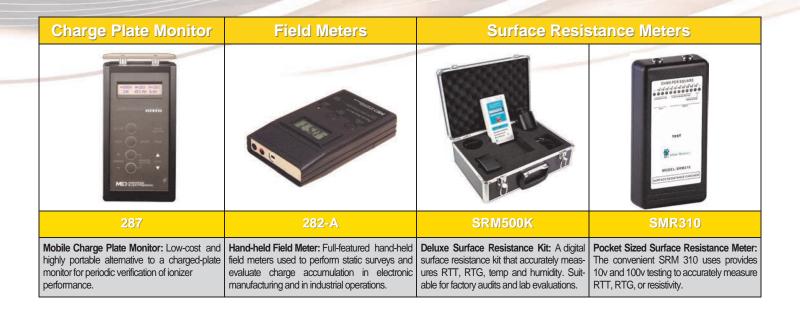
Grounding Accessories

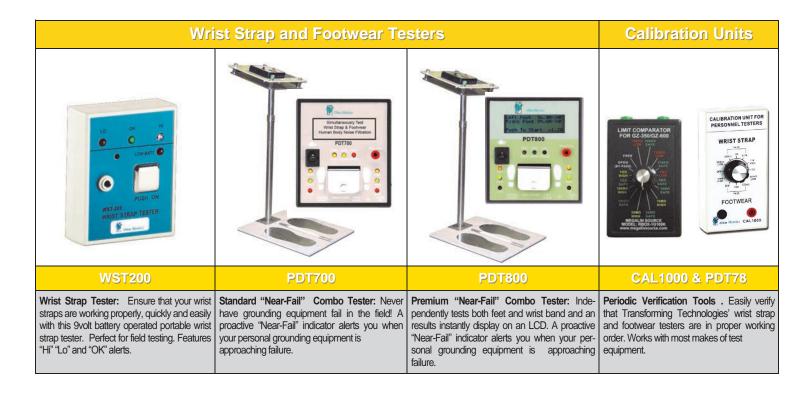


Fax: 419-841-3241

Test Equipment

Transforming Technologies offers a complete selection of test equipment to measure, evaluate and verify the correct functioning of static control systems. These test products measure static voltage on objects and surfaces, verify air ionizer performance and test personal grounding products. Complete your ESD control plan with Transforming Technologies 'test and measurement products.





ESD Apparel

Jackets

The JK Series 8812 knit, ESD garments are lightweight, breathable and feature a patented hip-to-cuff feature for hands-free grounding. Our garments are 3/4 length and use 88% polyester and 12% carbon fabric for unmatched operator comfort. The JK Series 8812 jackets maintains consistent continuity readings for up to 100 wash cycles.

Model	Features	Sizes	Colors
JKC Series	ESD Jacket, collared, knit cuff: 88% polyester and 12% carbon fabric blend	Extra-Small-6xl	Light Blue, Dark Blue, White
JKV Series	ESD Jacket, V-neck, knit cuff: 88% polyester and 12% carbon fabric blend	Extra-Small-5xl	Light Blue



Hot Gloves



The FG series Nomex® gloves are designed for handling objects at elevated temperatures without compromising cleanliness or creating a static discharge. The gloves use monofilament Nomex® woven fabric suffused with carbon fiber with heat protection up to 572° F (300°C).

The GL Series Hot Gloves use a polyester knit fabric suffused with carbon fiber. Heat protection is enhanced with a 100% inner tricot knit polyester fabric liner and a full 14 inch length. A cuff mounted grounding snap is also included. Gloves resist up to 302°F (150°C),

Model	Features	Sizes	Colors
FG2600 Series	Nomex® Static Safe Hot Gloves 11",	Small, Medium, Large, XL	White, Green
FG3900 Series	Nomex® Static Safe Hot Gloves 16",	Small, Medium, Large, XL	White, Green
GL9100 Series	Polyester Static Safe Hot Gloves 14"	Small, Medium, Large, XL	White

SMD Boxes

Transforming Technologies' SMD plastic boxes are ideal for engineering labs, kitting, in-process handling and safe transport of static-sensitive components. Unique interlocking modular design and spring-loaded lids makes storing and removal of parts convenient. They exhibit surface resistivity of 102 to 105 ohms/sq. cm. Available with transparent or opaque lids.

Fax: 419-841-3241

Model	Features	Sizes
SMD 0870 Series	SMD Box, Black Lid.	Small-XL
SMD 0880 Series	SMD Box, Shielding Lid.	Small-XL
SM0810	Compartmented Storage Box for SMD Boxes.	6 compartment trays



ESD Accessories

Don't let your guard down! Common production supplies are often overlooked as a source of static charge and potential damage. Ensure total ESD protection with Transforming Technologies ESD Accessories!

ESD Wipers	Static Safe Pens	Sheet Protectors	ESD Trash Can
WP6200	DC2000	DC1185	WBAS28
ESD wipes used to clean delicate components. No abrasion, no static generation, low tribogeneration.	Static dissipative ball point pen is perfect for use in static controlled manufacturing facilities. Does not tribocharge. ESD symbol in yellow.	tors made from a 2 mil, stable,	Stylish rectangular wastebasket with radius comers and rolled edges. Super- durable - won't dent, crush or chip. Permanent, carbon loaded, conductive polypropylene. ESD symbol

Protective Tapes

Aisle Marking Tape	Conductive Grid Tape	Plain Cellulose Tape	Cellulose Tape w/ Symbol
ESD WORK WAR			Children of the state of the st
AL Series	CT Series Tape	CL Series	CLP Series
ESD caution floor tape is ideal for marking of ESD safe area. Made with high visibility yellow vinyl with over-laminate.		Clear Anti Static tape is a cellulose acetate tape designed for general applications in static free areas.	General use clear tape printed with the ESD Symbol and "Anti-Static Tape"
Available: 2in & 3in	Available: 12mm, 18mm, 24mm, & 48mm	Available: 12mm, 18mm, 24mm, & 48mm	Available: 12mm, 18mm, 24mm, & 48mm



Transforming Technologies, LLC *Outstanding Alternatives in Static Control*3719 King Road
Toledo, OH 43617

(P) 419-841-9552 (F) 419-841-3241

www.transforming-technologies.com