

Outstanding Alternatives in Static Control



STATIC CONTROL SELECTION GUIDE

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™



Transforming Technologies

Outstanding Alternatives in Static Control

Static Control Selection Guide:

Personal Grounding: Wrist Straps ...	2	Test Equipment.....	6
Footwear	3	ESD Apparel	7
Constant Monitoring.....	3	SMD Boxes.....	7
Ionization.....	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.

Best Seller











				
1	2	3	4	5
WB1600	WB6000	WB8000	WB7000	WB5407
Standard Performance Single wire fabric wrist band and classic coil cord.	Premium Performance Single wire expansion metal wrist band and wide snap profile coil cord.	Premium Performance Single wire fabric wrist band and wide snap profile coil cord. Clamshell locking clasp.	Premium Dual Performance Dual wire fabric wrist band and dual conductor coil cord.* Provides ground redundancy.	Economy- Disposable Cost-effective and reliable static protection. Ship with products for protection during installation.

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.

	<i>Best Seller</i> 			
Cup Style	Foot Grounder	Sport	Disposable	Toe Grounder
Standard Performance: Made with two reversible soles that form a cup around the heel for a longer life span.	Premium Performance: Provides a more complete, natural path-to-ground due to a wider contact area on the floor.	Mobile Personnel: An elastic back strap molds to boots and cross training shoes for a tight fit on mobile personnel.	Economy– Disposable: Perfect for one time use applications such as visitors. Economical and effective.	Unique Footwear: Women's toe grounder. Ideal for high heels and other shoes that standard heel grounders can not fit.

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		
<i>Best Seller</i> 			
CM2800 Series	CM400	CM410	CM420
<ul style="list-style-type: none"> Monitors Two Operators and Two Grounded Mats 	<ul style="list-style-type: none"> Monitors One Operator Only Most Cost Effective 	<ul style="list-style-type: none"> Monitors One Operator and One Grounded Mat 	<ul style="list-style-type: none"> Monitors Two Operators and One Grounded Mat

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



IN5110

Light weight and compact design combined with an adjustable blowing angle makes the IN5110 a valuable bench top application.

Decay Time: < 2secs @ 12"

In-Tool



IN5120

This In-tool AC Ionizer Blower provides exceptionally fast static decay capability with excellent balance stability, all in a small footprint.

Decay Time: < 2secs @ 12"



BFN801

The BFN 801 bench top ionizing blower, with inherently stable AC technology, provides excellent balance and rapid charge decay for secure workstation protection.

Decay Time: < 2secs @ 12"

Air Ionizing Gun

Best Seller



IN6430

The IN6430 is the perfect point and shoot ionizing air gun. A single integrated Air/Power cable with strain relief at the gun and controller allows for ease of use.

Decay: <2 seconds at 12"

Air Ionizing Nozzles



IN4000

The Ptec™ Airflex ionizer provides hands-free precision ionization. A foot switch trigger and adjustable neck provides the freedom of use for operators as well as precision ionization. An optional .01 micron filter is available.

Decay time: <0.5 Seconds at 2"



IN3425

The IN3425 produces a continuous stream of balanced air ions with pin point accuracy. Multiple nozzle attachments allows for ionization in hard to reach applications.

Decay time: <0.5 Seconds at 2"

Nozzles Tips



IN3425 Nozzle Tips

Handle many unique ionization applications with IN3425 interchangeable nozzle tips. Wide angle, long range, bendable, luer lock or manifold tips may be used with the IN3420 depending on the application.

Overhead Ionizers



BFN802

Two fan overhead AC ionizing blower provides excellent balance and stability for secure workstation protection. Equipped with two task lights, integrated emitter cleaners and safe, easy maintenance access.

Decay Time: <3secs @18"

Best Seller



BFN803

Three fan overhead AC ionizing blower provides both reliability and performance. The 3 fan design has a greater output and safely neutralizes static charge in a larger area than single and dual fan designs. Equipped with 2 task lights, integrated emitter cleaners and safe, easy maintenance access.

Decay Time: <3secs @18"



IN5130

The IN5130 overhead ionizing blower combines exceptionally fast static decay capability with excellent balance stability. The overhead ionizer is equipped with three fans and does not take up valuable workspace.

Decay time < 4secs @ 18"

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



MT4500 Series

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



FSM2424R

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

Grounding Cords				Grounding Snaps	
 Best Seller					
CP2500	CP4070	FM1500	FM2000	CS1000	CS1090
Connects work surface and two wrist bands to ground, low profile design. (Male or Female).	Mounts under workstation to keep wrist strap connection safe. Grounds two wrist straps/operators.	Low profile mushroom cap makes it ideal for floor runners and anti-fatigue mats. (Male or Female).	Low profile mushroom cap cord with a center snap for field service kits (Male Only).	Easily installs onto multi-layer material to provide ground contact. Stud or socket. (Male or Female).	Everything needed to install a ground point in soft materials: stud, socket, washer, conical nut, long screw, short screw.

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.

Charge Plate Monitor	Field Meters	Surface Resistance Meters	
287	282-A	SRM500K	SMR310
Mobile Charge Plate Monitor: Low-cost and highly portable alternative to a charged-plate monitor for periodic verification of ionizer performance.	Hand-held Field Meter: Full-featured hand-held field meters used to perform static surveys and evaluate charge accumulation in electronic manufacturing and in industrial operations.	Deluxe Surface Resistance Kit: A digital surface resistance kit that accurately measures RTT, RTG, temp and humidity. Suitable for factory audits and lab evaluations.	Pocket Sized Surface Resistance Meter: The convenient SRM 310 uses provides 10v and 100v testing to accurately measure RTT, RTG, or resistivity.

Wrist Strap and Footwear Testers			Calibration Units
WST200	PDT700	PDT800	CAL1000 & PDT78
Wrist Strap Tester: Ensure that your wrist straps are working properly, quickly and easily with this 9volt battery operated portable wrist strap tester. Perfect for field testing. Features "Hi" "Lo" and "OK" alerts.	Standard "Near-Fail" Combo Tester: Never have grounding equipment fail in the field! A proactive "Near-Fail" indicator alerts you when your personal grounding equipment is approaching failure.	Premium "Near-Fail" Combo Tester: Independently tests both feet and wrist band and an results instantly display on an LCD. A proactive "Near-Fail" indicator alerts you when your personal grounding equipment is approaching failure.	Periodic Verification Tools . Easily verify that Transforming Technologies' wrist strap and footwear testers are in proper working order. Works with most makes of test equipment.

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– 6 xl	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.

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 tribocharge.	Static dissipative ball point pen is perfect for use in static controlled manufacturing facilities. Does not tribocharge. ESD symbol in yellow.	ESD-Safe, dissipative sheet protectors made from a 2 mil, stable, amine-free, polypropylene clear film.	Stylish rectangular wastebasket with radius corners 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
			
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. Available: 2in & 3in	For applications requiring EMI shielding. Conductive grid is buried between static dissipating copolymer substrates. Available: 12mm, 18mm, 24mm, & 48mm	Clear Anti Static tape is a cellulose acetate tape designed for general applications in static free areas. Available: 12mm, 18mm, 24mm, & 48mm	General use clear tape printed with the ESD Symbol and "Anti-Static Tape" 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