

TRANSFORMING TECHNOLOGIES

Outstanding Alternatives in Static Control

ESD SAFEGUARDED
WORK AREA



STATIC CONTROL SELECTION GUIDE

Personal Grounding

Constant Monitoring

Ionization

SMD Boxes

ESD Apparel

Surface Protection

ESD Accessories

Test Equipment

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:

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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	WB5406
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. Hytel coil cord. Dual ground redundancy.	5,10 and 20 ft. cords
4	Dual Wire	WB7000	Dual fabric band. Adjustable elastic, blue. Hytel coil cord. Dual ground redundancy.	5,10 and 20 ft. cords
5	Disposable	WB5406	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.

		
Cup Style	Foot Grounder	Sport
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.
		
Disposable	Non-Marking	Toe Grounder
Economy- Disposable: Perfect for one time use applications, visitors. Economical and effective.	Non-Marking: Made from a non-marking and highly dissipative rubber used when floor marking is an issue.	Unique Footwear: Women's toe grounder. Ideal for high heels.

Best Seller

Grounder Type	Closure Style	Features	Model Number
Cup	Buckle	Quick release buckle. Durable molded 1 meg resistor, 35mm cup.	HG1232
Cup	Buckle	Quick release buckle. Buried 1 meg resistor, 1.25" cup design.	HG1380
Cup	D-Ring	D-ring, Molded 1 meg ohm resistor. 35mm cup design.	HG1246
Cup	Hook and Loop	Classic, 35mm cup design. Molded resistor.	HG1250
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	Hook and Loop	Non-marking, dissipative rubber. Elastic high visibility yellow color.	HG1360NM
Cup	Stretch Loop	Buried 1 meg resistor. 1.25" cup design.	HG1360
Cup	Stretch Loop	Orange, High Visibility, buried 1 meg resistor. 1.25" cup design.	HG1370
Disposable	Adheres to Shoe	One-time-use disposable heel grounder. Economical.	HG4560
Foot Grounder	D-Ring	Complete sole protection. 1meg, or 2meg. XS, S, M, L.	HG6000 Series
Sport	D-Ring	Ideal for boots and cross-training athletic shoes. Molded resistor, 35mm sport design.	HG1594
Sport	Hook and Loop	Ideal for boots and cross-training athletic shoes. Molded resistor, 35mm sport design.	HG1590
Toe Grounder	Elastic	Women's toe grounder, 1meg.	HG2520

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		
	<i>In Tool</i> 	
IN5110	IN5120	BFN801
Light weight and compact design combined with an adjustable blowing angle makes the IN5110 a valuable bench top application.	This In-tool AC Ionizer Blower provides exceptionally fast static decay capability with excellent balance stability, all in a small footprint.	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"	Decay Time: < 2secs @ 12"	Decay Time: < 2secs @ 12"

Air Ionizing Gun	Air Ionizing Nozzles		Nozzles Tips
<i>Best Seller</i> 			
IN6430	IN4000	IN3425	IN3425 Nozzle Tips
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.	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.	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.	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.
Decay: 2 seconds at 12"	Decay time: <0.5 Seconds at 2"	Decay time: <0.5 Seconds at 2"	

Overhead Ionizers		
	<i>Best Seller</i> 	
BFN802	BFN803	IN5130
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.	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.	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: <3secs @18"	Decay Time: <3secs @18"	Decay time < 4secs @ 18

Surface Protection

Work surface

Static dissipative mats are a key element in creating an ESD safe work station. Transforming Technologies' durable 2-layer rubber and VinylStat Series mats offer excellent resistance to hot solders, soldering irons and most solvents.



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 male snap, FM2000 Center Snap ground cord, wrist band and 6' cord.	Red, Blue





Grounding Accessories





Grounding Cords				Grounding Snaps	
					
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.

Best Seller

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 have a unique interlocking modular design. Spring-loaded lids (black conductive or transparent shielding) have a stay-open feature for convenient loading and removal of parts. They exhibit surface resistivity of 102 to 105 ohms/sq. cm. They are ideal for engineering labs, kitting, in-process handling and safe transport of static-sensitive components.

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!

Conductive Grid Tape	ESD Wipers	Static Safe Pens	Sheet Protectors	ESD Safe Tool Caddy
				
CT Series	WP6200	DC2000	DC1185	TC Series
Three layer polypropylene material including a conductive grid middle layer with static dissipative chemistry in the adhesive.	ESD wipers used to clean delicate components. No abrasion, no static generation, low tribo-generation.	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.	Provides static-safe storage of tools and components. Storage can be divided with up to four insert trays. Made from conductive polypropylene.

Constant Monitoring

Continuously verifying the integrity of the ground system is critical to an effective ESD protection program. The Ohm Metrics **CM2000 Series** dual conductor, resistance-based, workstation monitor continuously checks two operators wearing dual wire wrist straps and two work surface ground connections.

Using specialized impedance sensing technology, the **CM400**, **CM410** and **CM420** single wire wrist strap monitoring products continuously check the total ground loop, including the operator, the wrist band and the coil cord.

Dual Wire Monitors	Single Wire Monitors		
<i>Best Seller</i> 			
CM2000 Series	CM400	CM410	CM420
Monitors two dual wire wrist straps and two bench/mat-to-ground connections. User programmable alarm settings.	Monitors ground integrity of one operator/ wrist strap. Uses audible and visual indicators.	Designed to monitor resistance of both the work surface and the operator/wrist straps. Uses audible and visual indicators.	Monitors the ground integrity of two operators / two wrist straps and work station ground. Uses audible and visual indicators.



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