



**ESD Systems  
Hand Lotion  
Will Not  
Insulate Skin  
Like Regular  
Lotions**

Enhance the effectiveness of your wrist straps by applying our anti-static hand lotion, item #16010. Specifically formulated for the electronic manufacturing environment, this non-contaminating lotion reduces the loss of wrist strap continuity due to dry skin. Call Customer Service to request your sample, or ask for Tech Brief PS-2025. Phone: (508) 485-7390. Fax: (800) 805-5665.

**Color Metal Expansion Wrist Straps  
Adjust Quickly and Easily To Any Size**

Our new metal expansion wrist straps are available in your choice of five colors: maroon, purple, blue, light green, and dark green. The metal band is long wearing, provides superior contact with the wrist, and includes a 4mm long lasting stainless steel stud. The stainless steel band will not cause allergic reactions for most people. Colors are combinable for quantity breaks. Call Customer Service for a complete list of colors. Request Drawing 21305 for more information. Phone: (508) 485-7390. Fax: (800) 805-5665.



DESCRIPTION	1-24	25-99	100+
Band Only	\$10.00	\$9.30	\$8.60
Band w/6' Cord	\$15.00	\$13.95	\$12.90



**19 Brigham Street, Unit 9  
Marlboro, MA 01752-3170  
Phone: (508) 485-7390  
Fax: (800) 805-5665  
E-Mail: [service@esdsystems.com](mailto:service@esdsystems.com)  
Web: [www.esdsystems.com](http://www.esdsystems.com)**

**Receiving Duplicates?  
Incorrect Address?**  
*Please fax mailing information to us at 800-805-5665. Note corrections and/or duplicates and we'll take care of it.*

Bulk Rate  
U.S. Postage  
**PAID**  
GS&W  
SERVICES INC.

**Please route to:**

\_\_\_\_\_  
ESD / Static Control Supervisor

\_\_\_\_\_  
Quality Manager / ESD Egr.

ADDRESS SERVICE REQUESTED

Ask for our Full-Line Catalog!

# Talking ESD Control

A publication of ESD SYSTEMS • 19 Brigham St. Unit #9, Marlboro, MA 01752 USA • Issue 7 Winter 1999

## NEW "LIFETIME" FOOT GROUNDERS: Guaranteed To Last Forever or We'll Replace it FREE!



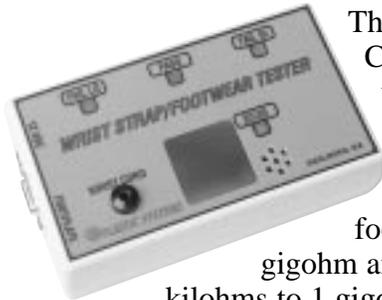
The new "Lifetime" foot grounder provides effective and economical ESD protection. Made from cross-linked tire grade rubber, the heel cup ensures complete charge dissipation and provides two wear surfaces. An elastic D-ring comfort system provides maximum ankle comfort by allowing for flex during walking. If this grounder ever wears out, simply return it and we will replace it FREE. Call customer service for complete details. Refer to Drawing 24500. Phone: (508) 485-7390 Fax: (800) 805-5665.

ITEM	DESCRIPTION	1-24	25-99	100+
24500	Heel, 1 Megohm Resistor	\$12.42	\$11.55	\$10.68

## New Deluxe Combination Wrist Strap/Footwear Tester



**Deluxe Combo Tester Features Data Output Connector**



The new 41204 Deluxe Combination wrist strap/footwear tester has many additional features over our standard Combo Tester. These include an extended testing range for footwear of 750 kilohms - 1

gigohm and is user adjustable from 500 kilohms to 1 gigohm. The unit tests at 22 volts for more accurate testing of higher resistance items such as dissipative shoes and foot grounders.



Data Output Connector

Item #41204 comes equipped with a data output connector which provides 7 separate signals that allow the user to do external monitoring and controlling (interface and software available July '99). Call Customer Service for more information, or request Tech Brief PS-2081. Phone: (508) 485-

7390. Fax: (800) 805-5665.

Item	Description	1-2	3-4	5+
41204	Deluxe Combo tester	\$285.00	\$265.05	\$245.10

## Have You Received Our Latest Catalog?

Our latest full-line catalog has 68 pages of Electrostatic Discharge Control Products, including over 150 new items. If you haven't received a copy, or would like to request additional



copies for your colleagues, please contact customer service. You can reach us by phone at (508) 485-7390, or by fax at (800) 805-5665. You can also view our catalog on our web site at [www.esdsystems.com](http://www.esdsystems.com). ESD Systems is the one-stop shop for all of your static control needs. We have the products you need to keep your static control program up and running.



## UPS Package Tracking Now Available from Our Web Site!

ESD Systems now offers UPS package tracking directly from our web site allowing you to pinpoint your shipment and determine when it will arrive. You can trace by your P.O. number or by UPS tracking number.

By PO number:

<http://www.esdsystems.com/ups.htm>

By UPS Tracking number:

<http://www.esdsystems.com/package.htm>

Book mark these features for your reference, and visit our web site often for all of your static control needs.

<http://www.esdsystems.com>

**Open 24 Hours a Day!**

We have recently updated the ESD Systems home page and added many new features. Following is a list of some of the updated features:

- On-line ESD catalog with new products
- FAQ page with over 150 answered questions
- A Collection of ESD Control "White Papers"
- An ESD standards page
- Technical Literature for our product line
- On-line stock checking
- UPS Tracking by customer PO # or UPS Tracking #



The ESD Systems home page is an excellent resource for the self-help ESD coordinator to read ESD related articles, place orders, track your shipments, or have your questions answered 24 hours a day. Need It Now? Check our stock on-line at: [www.esdsystems.com/inventory](http://www.esdsystems.com/inventory). Our site is always growing. Have you visited us lately?

## Antistatic Dissipative Cloth Gloves Eliminate The Necessity Of Wrist Bands



These polyester gloves are ideal for providing user comfort while effectively providing ESD protection. An

installed 4mm stud snap allows the glove to be grounded to smock sleeves or with a wrist strap ground cord. These gloves are sold by the pair and are clean room safe. Various sizes are combinable for quantity price breaks. Call for pricing. Request Drawing 17080 for more information.

## Static Safe Badge Holders Are Suitable For Use In Static Sensitive Environments

These static safe badge holders are constructed of heavy-duty vinyl. The badge holders are available with magnet, clip, or button hole fastening options, and fit a maximum size badge of 2-3/8" x 3-3/8". Badge holders are marked "static safe vinyl" and are sold in packages of 10. Call for pricing. Request Drawing 16110 for more information, or call Customer Service.



Nepron West '99 will be held February 21 to 25 in Anaheim, California. We encourage you to stop by the ESD Systems booth #3373, Hall C to learn more about our wide variety of static control products, and to meet the ESD Systems team.

To learn more about the exhibition, you can go directly to Nepron's web site at: <http://www.nepron.com>.

## New Shelf Liner Is Ideal For Applications Where ESD Sensitive Materials Are Stored On Shelves



Our new adhesive backed shelf liner is easy to install on shelves. The two layer blue dissipative vinyl is easy to cut, making this material ideal for an application of any size. This material must be properly grounded for optimum electrical performance. Request Drawing 10705 for more information.

ITEM	DESCRIPTION	1	2	3
10705	24" x 150'	\$324.50	\$301.79	\$279.07
10706	18" x 150'	246.10	228.87	211.65

## Polarity Ground Checker And Ground Point Verifies Wiring Of An Electrical Outlet

**Great For Field Service Grounding**



When the 41333 is plugged into an outlet, three neon lights on the unit indicate wiring of the hot, neutral, and ground lines. The sequences of the three lights indicate whether or not the outlet is wired properly. The unit also incorporates a banana jack that will accept a standard ESD Systems plug, allowing for grounding of an operator through the unit. Request Tech Brief PS-2044 for more information.

Item	Description	1-4	5-9	10+
41333	Polarity & Ground Checker, 1120 V	\$26.52	\$24.66	\$22.81

## To NIST Or Not To NIST



What is NIST? Well, NIST is an acronym for the National Institute of Standards and Technology. Having a unit that is NIST means having a unit that has been compared and calibrated to a set standard. NIST can be an integral part of an ISO 9000 program. ESD Systems' test equipment and ionizers do not come standard with NIST traceability, but it is available separately. Request item #41235. Call Customer Service for more information and pricing. Phone: (508) 485-7390. Fax: (800) 805-5665.

## LeHigh Static Dissipative Shoes Are Now Available From ESD Systems

**Comfort and ESD Control in One Great Shoe**

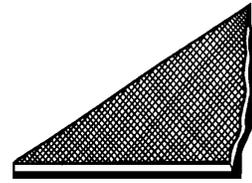
Static dissipative shoes allow the ESD worker to be properly grounded without the need of foot grounders. A polyurethane outsole provides lightweight comfort, and the wedge outsole design gives extra arch support. The sole material holds up well in a variety of oils and chemicals, and the shoes meet the electrical test requirements of Type 1 Static Dissipative footwear (reference ANSI Z41 - Section 6). Contact Customer Service for complete ordering information including specific styles, sizes and widths.



# Specials on Discounted and Overstocked Items

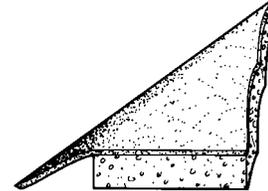
Available on a While Supplies Last (WSL) basis. Sold as-is, **not returnable**. Call customer service for availability

Two-Layer Rubber Mat, Type T	Qty	List	Sale
#10035 24" x 36" Mat Kit, Beige	43	\$50.49	\$24.75
#10040 24" x 48" Mat Kit, Beige	48	62.42	35.75
#10045 24" x 36" Mat Kit, Blue	7	50.49	24.75
#10055 24" x 36" Mat Kit, Grey	27	50.49	24.75
#10060 24" x 48" Mat Kit, Grey	3	62.42	35.75
#10075 48" x 40' Roll, Beige	5	816.00	480.00



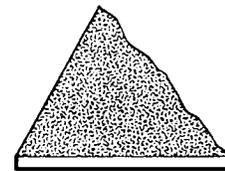
Type T

Dissipative Antifatigue Vinyl, Type AF	Qty	List	Sale
#11001 24" x 36" Mat, Charcoal Grey	2	\$30.21	\$15.00
#11003 36" x 60" Mat, Charcoal Grey	2	73.32	37.00



Type AF

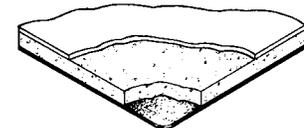
Dissipative Homogeneous Vinyl, Type B	Qty	List	Sale
#10850 24" x 36" Mat Kit, Brown	9	\$36.82	\$18.50
#10851 24" x 48" Mat Kit, Brown	1	44.22	21.00



Type B

Three Layer Vinyl, Type E	Qty	List	Sale
#10591 30" x 24' Roll, Beige	2	\$206.00	\$115.00

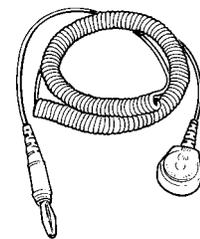
Smooth Vinyl Dissipative, Type VS	Qty	List	Sale
#11926 3' x 60' Roll, Black	1	\$980.00	\$495.00
#11930 3' x 60' Roll, White	1	980.00	495.00



Type VS

Ground Cords for Floor Mats -Old Style	Qty	List	Sale
#13200 Floor Mat Ground Cord, No Resistor	618	\$11.74	\$5.00

Wrist Strap Coil Cords	Qty	List	Sale
#23505 Coiled, lite, 6', 7mm, Grey (p.9045)	2929	\$11.62	\$5.75
#23520 Coil Cord, 24", 7mm Snap (p.9042)	2114	15.66	5.75
#23605 Coil Cord, 6', Lite, 4mm Snap (p.9050)	1232	11.41	4.75
#23614 Coiled, Light, 6', 7mm, Angle Grey (p.9044)	49	10.97	4.95
#23655 Cord, Straight, 4', 4mm Snap	247	7.50	2.50



Coil Cord

Speidel® Metal Band Wrist Straps	Qty	List	Sale
#20055 Speidel® Small, Band Only, 7mm (p.7751)	258	\$18.15	\$9.25
#20056 Speidel® Med., Band Only, 7mm (p.7756)	134	18.55	9.25
#20057 Speidel® Large Band Only, 7mm (p.7761)	501	18.55	9.25
#21114 Speidel® Strap, Small, 12' Cord, 7mm	121	27.62	15.50
#21300 Speidel® Wrist Strap, Small, 4mm (p.7750)	149	18.05	9.00
#21301 Speidel® Strap, Fixed Size, 4mm (p.7755)	14	18.05	9.00
#21302 Speidel® Wrist Strap, Large, 4mm (p.7760)	143	18.05	9.00

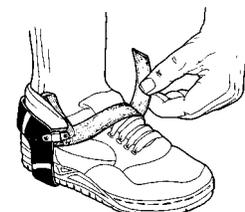


Speidel® Wrist Strap

Smocks	Qty	List	Sale
#16775 Smock, White	6	\$33.66	\$28.66
#16780 Smock, White, No Collar	6	30.02	25.02

Trays	Qty	List	Sale
#15308 18" x 14" x 1" ESD Tray	7	\$16.02	\$8.00

Foot Grounders (Discontinued and Factory Seconds)	Qty	List	Sale
#F. 2620 Heel Ground, Black/Beige, No Tab*	1048	\$9.45	\$2.75
#24010-2nd Heel, 1 Meg Resistor	47	12.42	6.00
#24030-2nd Heel, 1 Meg Resistor, 30" Tab	913	12.35	6.00
#24032 Heel Ground, Lined, Small, No Resistor	911	10.94	4.25
#24040-2nd Heel Ground, Lined, 2 Meg Resistor	1125	10.35	5.00
#24060 Heel Ground, Lined, Shin Band, 2 Meg	48	17.60	8.95
#24070-2nd Heel, 2 Meg Resistor, 30" Tab	1476	12.35	6.00
#24167 Disposable Boot Heel Grounders, 100/pack	61	43.00	21.00
#24510-2nd Toe Ground, 1 Meg Resistor	11	12.40	6.00
#24520 Toe Ground, Lined, 1 Meg Resistor	26	17.25	8.00
#24530 Toe Ground, Lined, 2 Meg Resistor	996	11.92	7.95
#24560 Toe Ground, Lined, No Resistor	3494	11.29	4.50
#24767 Heel, 2 Meg Resistor	1425	8.32	3.50
#24777 Toe, 1 Meg Resistor	441	8.32	4.00
EXC 6549 2nd Black/Beige, 1 Meg Resistor, 18" Tab	2965	9.83	4.00
EXC 6550 2nd Black/Grey, 1 Meg Resistor, 18" Tab	288	9.83	4.00



24010 Heel Grounder

\*See Catalog to purchase snap-on tabs

Surface Testers/Field Meters	Qty	List	Sale
#41250 Minimeg Surface Tester, 120v, NIST	6	\$247.31	\$150.00

<b>Continuous Monitors/WS Touch Testers</b>		<b>Qty</b>	<b>List</b>	<b>Sale</b>
#41105	Constant Wrist Strap Monitor, 220v, NIST	23	\$220.32	\$120.00
#41115	Gam-8 ESD Workstation Monitor	3	179.00	135.00
#41135	Dual Operator Workstation Monitor	5	176.00	120.00
#41140	Gam-8 Wrist Strap Monitor and Footwear Tester	1	192.00	99.95
#41190	Wrist Strap Touch Tester	1	98.05	50.00
#41120	Calibration Unit for Wrist Strap Monitor	5	72.50	36.25
#41231	Calibration Unit, European Limits	18	80.67	40.00

Buy 2 Monitors, Get the calibration Unit Free!

<b>Ionizers</b>		<b>Qty</b>	<b>List</b>	<b>Sale</b>
#43101	Ionizer, Bench Blower, W/HTR, 220v NIST	1	\$521.85	\$240.00
#43152	Ionizer Junior, 220V, NIST	1	330.00	130.00
#43305	Ionizer, Air Nozzle, 220 VAC, NIST	2	606.91	365.00
#43310	Ionizer, Air Nozzle, R/Hose 120 VAC NIST	1	595.00	300.00
#43314	Ionizer, Air Nozzle, Repl Hose 220 VAC	1	605.47	365.00
#43315	Ionizer Air Nozzle, R/Hose 220 VAC NIST	1	621.05	350.00
#43430	Legs for Overhead Ionizer	7	81.00	50.00
#43455	40" High Output Overhead Ionizer, 120 Volt	1	593.20	295.00

<b>MVB Bags - Meets MIL-B-81705C</b>		<b>Qty</b>	<b>List</b>	<b>Sale</b>
#32208	6" x 10", 3.6 mil, pkg of 100	1	\$24.75	\$11.70
#32212	10" x 12", 3.6 mil, pkg of 100	1	48.50	24.25
#32216	10" x 30", 3.6 mil, pkg of 100	10	107.25	53.95
#32218	12" x 16", 3.6 mil, pkg of 100	2	74.35	37.25
#32222	18" x 18", 3.6 mil, pkg of 100	6	112.55	56.95
#32224	18" x 24", 3.6 mil, pkg of 100	4	147.75	73.95

<b>Metal In &amp; Metal Out Shielding Bags</b>		<b>Qty</b>	<b>List</b>	<b>Sale</b>
#30065	10" x 30", pkg of 100, Metal In	25	\$57.85	24.50
#31060	10" x 30", pkg of 100, Metal Out	19	57.85	24.50
EXC 4465	6.75" x 7.5", pkg of 100, Metal In	600 packs	10.00	6.00

<b>Clear Antistatic Poly Bags</b>		<b>Qty</b>	<b>List</b>	<b>Sale</b>
#32400	3" x 5", 2.8 mil, pkg of 100	455	\$4.21	\$2.95
#32405	4" x 6", 2.8 mil, pkg of 100	244	5.56	3.25
#32415	5" x 8", 2.8 mil, pkg of 100	160	9.74	5.95
#32420	6" x 8", 2.8 mil, pkg of 100	164	11.69	6.95
#32435	8" x 12", 2.8 mil, pkg of 100	162	11.64	6.95
#32440	10" x 12", 2.8 mil, pkg of 100	2	12.42	7.50
#32455	12" x 16", 2.8 mil, pkg of 100	30	20.87	10.25
#32460	12" x 18", 2.8 mil, pkg of 100	45	22.26	12.95
#32465	15" x 18", 2.8 mil, pkg of 100	54	29.22	14.95

<b>Pink Polyethylene Bags</b>		<b>Qty</b>	<b>List</b>	<b>Sale</b>
#32805	4" x 6", 4 mil thick, pkg of 100	27	\$5.56	\$2.75
#32820	10" x 12", 4 mil thick, pkg of 100	39	13.36	6.50
#32825	12" x 18", 4 mil thick, pkg of 100	17	22.26	11.00
#32830	3" x 5", 6 mil thick, pkg of 100	15	5.59	2.75
#32835	4" x 6", 6 mil thick, pkg of 100	15	7.62	3.75
#32840	6" x 8", 6 mil thick, pkg of 100	6	9.27	4.95
#32850	10" x 12", 6 mil thick, pkg of 100	15	15.56	7.75
#32855	12" x 18", 6 mil thick, pkg of 100	14	37.24	18.95

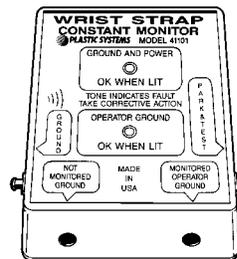
<b>Training</b>		<b>Qty</b>	<b>List</b>	<b>Sale</b>
#36060	ESD Training Program, CD-Rom, PC Format	4	\$495.00	\$300.00
#36060-Demo	ESD Training Program, CD-Rom, PC Format, No Documentation	2	495.00	200.00
#36065	ESD Training Program, CD-Rom, 3-1/2" Disk	3	325.00	195.00

<b>Caution Labels</b>		<b>Qty</b>	<b>List</b>	<b>Sale</b>
#36152	4" x 4", Attention Label, Hand Symbol, RS-471 250/r1	45	\$16.71	\$7.99
#36185	4" x 4", Caution Symbol, 500/roll	23	16.07	7.99
#36186	2" x 2", Caution Symbol, 500/roll, Reusable	97	8.62	3.99
#36188	4" x 4", Caution Label (Call Lisa)	100	5.85	3.96
#36189	5/8" x 2, Attention, MIL-STD 129M, 250/roll	230	5.85	3.99

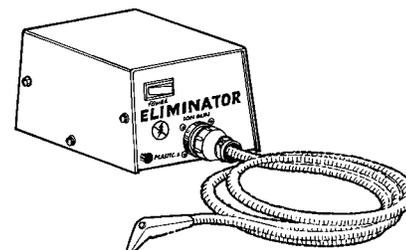
<b>Conductive Hinged Boxes</b>		<b>Qty</b>	<b>List</b>	<b>Sale</b>
#BH-3701-00	3.5" x 7" x 1" Box w/ 2pc L.D. Foam	15	\$5.00	\$1.50
#BH-3701-01	3.5" x 7" x 1" Box Without Foam	323	5.00	1.50
#P-2615	3.5" x 7" x 1/4" Low Density Foam	4733	Call for Special Quote	

<b>ESD Storage Albums</b>		<b>Qty</b>	<b>List</b>	<b>Sale</b>
#33330	3" x 4-1/2", Chip Pocket, holds (7)-28 pin IC's	15	\$5.00	\$3.99
#33333	7" x 10" ChipStore, holds (38) -28 pin IC's	15	17.50	8.50

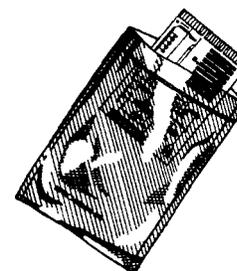
NOTE: All items listed may come bulk packaged. Above items are sold as is and are not returnable. Call Customer Service for more information.



**41105 Continuous Monitor**



**43100 Ionizer**



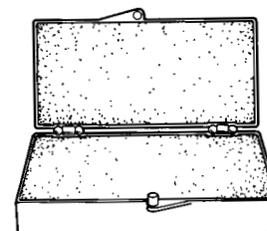
**Shielding Bag**



**CD Rom**



**Caution Label**



**BH-3701 Hinged Box**