

WHO IS DESCO?

Desco, the largest division of Desco Industries Inc., is a leading manufacturer of Electro Static Discharge (ESD) control products.

Originally started as the Delta Electrical Specialty Company in 1950 making circuit testers, Desco was acquired in 1979 by Wayne Hunter and John Brake. Desco still makes the original "Circuitracer[®]" but the product mix has dramatically changed to include products predominantly for the control of ESD in electronics assembly, test, and maintenance.

Desco manufactures wrist straps, grounding devices, testers, ionizers, bags, floor finish, and many related ESD control products in facilities in Chino, CA and Canton, MA.



Desco provides sales and technical support in the US through local factory representatives and internationally through distributor agents. Desco products are sold worldwide through distributors who provide local stock and sales support.

Team DESCO Gazette

The Team Desco Gazette is an informative quarterly newsletter for users of static control products. Each issue will highlight a specific product group and its accessory products. Specifications, features and benefits, and applications will be described in detail for the featured product. We welcome any questions or comments you have about Desco products or static control in general.

Desco has technical bulletins and drawings available for more detailed information about our products. Desco has the best and most complete technical information and here's how to get it . . .

- Desco has a convenient 24 Hour Fax Request System available, which contains all of our drawings and technical bulletins. (909) 627-7449 or (781) 575-0172
- Drawings and technical bulletins are also available through the Internet. <http://www.desco.com>
- You can also E-mail Desco with any questions, literature, or sample requests. service@desco.com
- Or you can call Desco's well trained customer service team. (909) 627-8178 or (781) 821-8370.

See the Fall 2000 issue
for information on IONIZATION.

Desco offers the following Foot Grounders . . .



17200



07590



07520



07506



07509



17222



07595

WHAT YOU NEED TO KNOW ABOUT FOOT GROUNDERS...

Why Wear Foot Grounders?

Foot grounders are used where wrist straps are not practical, particularly tasks which require mobility, work areas that require standing, walking, or where coil cords might be inconvenient. To be effective however, foot grounders must be used in conjunction with properly grounded conductive or dissipative flooring. They must be worn on both feet to ensure constant contact with the grounded floor.

Foot Grounders vs. Static Dissipative Shoes

Foot grounders are less costly when implementing and maintaining an ESD program. **Shoes** are an expensive item and one that usually cannot be used by someone else when an employee leaves. Following are some reasons why foot grounders are more efficient:

1. **Foot grounders** are designed to fit nearly every shoe. **Shoes** are made to fit an individual and cannot be interchanged with someone else.
2. **Foot grounders** are just as easy to use as ESD **shoes**.
3. Workers can go to work instantly when **foot grounder** contact strips are tucked inside of the shoe. (May need to be tucked inside the sock, depending on sweat layer.) When **shoes** are put on, it can take up to five minutes to get a good test with a foot ground tester.
4. Inventory is another issue that is simplified when using **foot grounders**. Inventorying different **shoe** sizes is expensive and can take up a lot of space.
5. Custom resistance values are available.
6. Heel and toe grounders are available worldwide through local distributors.

Why Wear TWO Foot Grounders?

Two foot grounders are necessary to keep the worker grounded at all times, even while walking. Wearing two foot grounders ensures that there is always electrical continuity to ground for draining off any built-up static charges on the body.

To ensure complete, effective grounding, all personnel should wear heel grounders at all times. They should also check them frequently, to verify that the foot grounder is being worn correctly and making contact with the worker.

Why Buy Two Megohm Heel Grounders?

Why would you need a 2 megohm resistor:

When you are describing resistance of a circuit comprised of two resistors wired in parallel the equation is

$$R_{TOTAL} = \frac{R1 \times R2}{R1 + R2}$$

It is recommended that foot grounders be worn on both feet because the total resistance to ground for a person wearing them will vary depending on whether the wearer is standing on one foot or both.

When using a 2 Megohm Resistor Heel Ground:

2 feet on the ground = 1 Megohm
1 foot on the ground = 2 Megohm

Desco offers a 2 megohm foot grounder (07593) and a toe grounder (07595) because some specifications require it to ensure that the **MINIMUM** resistance to ground will always be 1 megohm like a wrist strap.

NEW DESCO FOOT GROUNDERS

D-RING FASTENING HEEL GROUNDER

The unique D-Ring Fastening System provides ankle strap cinching, ensuring a snug fit of heel cup to shoe. The rubber heel cup provides a wider surface area for superior contact. The cup can be rotated when one band becomes worn, doubling the life of the heel grounder. The light blue interior will not mark shoes. A molded exterior resistor provides added safety for users. UL listed.

SPECIFICATIONS:
RTG: 10^6 - 10^7 Ohms

Drawing 07590

ITEM #	DESCRIPTION
07590	1 megohm resistor
07593	2 megohm resistor



CROSS TRAINER

The Cross Trainer is made to fit popular cross trainer athletic shoes. It has a special snap-loc fastening system, and is also made with a non-marring interior. The Cross Trainer is exceptionally tear resistant with a dual layer rubber and an inner scrim. The Cross Trainer provides rapid and complete static dissipation. It is durable and has a long life which will save more money. UL listed.

SPECIFICATIONS:
RTG: 10^6 - 10^7 Ohms

Drawing 07522

ITEM #	DESCRIPTION
07522	Regular, 1 megohm resistor
07523	Large, 1 megohm resistor

D-RING FASTENING TOE GROUNDER

The 07595 premium series toe grounder provides effective and economical ESD protection. The dual layer cup is made from a black conductive layer and a blue lining that prevents carbon marks on shoes. The 8 strand nylon polyester grounding tab provides superior body to ground contact. Designed to fit securely on women's footwear.

SPECIFICATIONS:
RTG: 10^6 - 10^7 Ohms

Drawing 07595

ITEM #	DESCRIPTION
07595	2 Megohm Resistor



Above products can be purchased through your local Desco distributor.

DESCO WEST - 3651 Walnut Avenue, Chino, CA 91710 • (909) 627-8178 • Fax (909) 627-7449
DESCO EAST - 90 Hudson Road, Canton, MA 02021-1407 • (781) 821-8370 • Fax (781) 575-0172
Web Site: <http://www.desco.com>



COMBINATION TESTER

The 19250 combination wrist strap and footwear tester is a simple-to-operate single station test fixture designed for fast, frequent testing of ESD personnel grounding devices. The tester is easy to operate and interpret. The tester will operate on either a 9 volt alkaline battery or the optional AC adapter.

The tester is available in three combinations. The tester comes equipped with a 9 volt battery. The 19253 also includes a foot plate and ground cord assembly for testing ESD protective footwear. The 98252 includes a rugged steel stand and foot plate to test footwear (pictured). A 17"x22" wall poster is also included with the 19252 detailing both wrist strap and footwear testing procedures. AC adapters are sold separately.

Technical Bulletins TB-2040.

19250	Combo Tester, 9 Volt Battery, NIST	98254	Stand Only
19253	Combo Tester with Footplate, NIST	98256	Adapter, 120V
19252	Combo Tester with Stand, NIST	98257	Adapter, 220V
98273	Footplate Only		

STATFREE® FLOOR CARE SYSTEM

STATFREE® FLOOR FINISH

Statfree Floor Finish is an environmentally safe, free flowing liquid emulsion, which can be easily applied to any hard surface or sealed floor including vinyl, linoleum, epoxy poured floor, rubber, asphalt, sealed or painted wood, terrazzo, and concrete. Statfree dissipates charges from personnel and equipment alike, and prevents static charge generation while keeping your floor looking clean and shiny. **Technical Bulletin TB-2045**



81010	Floor finish, 1 gallon
81020	Floor finish, 5 gallon
81030	Floor finish, 55 gallon

STATFREE® DISSIPATIVE SPRAY BUFF

Statfree Dissipative Spray Buff cleans away surface soils and marks, while repairing ground-in scratches and scuffs.

Technical Bulletin TB-2048

81050	Spray buff, 1 quart
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STATFREE® BURNISHING RESTORER

Statfree Dissipative Burnishing Restorer renews the unique protective properties and gloss of Statfree Floor Finish with a minimal investment in time, effort and money. **Technical Bulletin TB-2049**

81060	Burnishing restorer, 5 gallon
81065	Burnishing restorer, 1 gallon



DESCO
3651 WALNUT AVENUE
CHINO, CA 91710

Address Correction Requested

BULK RATE U.S. POSTAGE PAID GS&W SERVICES INC.
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