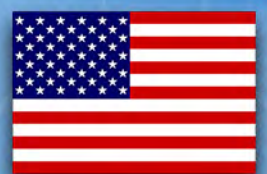


DESCO ASIA

QUALITY PRODUCTS FOR ESD CONTROL



DescoAsia.com



DESCO ASIA

In 1979 John McDonald sold his company to John Brake and Wayne Hunter. John and Wayne incorporated under the name Desco Industries, Inc. (DII) in Brea, CA. Originally incorporated in 1956, Delta Electrical Specialty Company (DESCO) manufactured and sold a continuity/voltage tester called the Circuitracer™. Desco Industries Inc was established in 1979. Our company now consists of brands including APR, Desco, Desco Asia, Desco Europe, EasyBraid, EMIT, ESDSystems.com, Menda, Protektive Pak, SCS, and Statguard Flooring. The same basic design used for the original Circuitracer is still manufactured today and is offered through the Menda brand.

DESCO INDUSTRIES INC primarily manufactures products in the United States of America with additional manufacturing in our United Kingdom and Japan facilities. Our inventory locations include one in Japan, two UK locations, and ten locations in the United States of America. The SCS brand also maintains a sales office in Singapore. Our core product groups are manufactured for ESD control in electronics manufacturing areas. These product groups include component rework machines, bags, wrist straps, worksurface and floor matting, laminates, foot grounders, smocks, gloves, flooring, ionizers, data acquisition, continuous monitors, testers, tape, dispensing bottles, document holders, specialty tools, and other workbench accessories. We also manufacture non-ESD products, including chemicals, grounding, personnel identification, material handling, and training products. In addition, we have full capabilities to manufacture custom products to customer specifications.

We have grown through the development of new products and the acquisition of companies that fit within our business model. A worldwide network of distributor partners provides local end user support for our products. Customer service groups are available for technical and other inquiries.

Solving problems with static electricity in the electronics manufacturing environment can be confusing for many engineers. There are many different products which can prevent static from building up, remove static charges from insulators, and protect products from harmful static electric discharge. Choosing the right product for the right application is very important so that the solution addresses the specific problem. We believe that once you know the basics of static electricity and the industrial standards you will be able to choose the right solution for your particular problem. Desco Asia provides ESD seminars and short classes to help education all levels of engineers, technicians, and workers. In addition, we also provide ESD Assessments and Surveys at your factory so we can show you how to either set up a new ESD protection program or to evaluate your existing program. Educated customers are our best customers.

Desco Asia also provides other tools for the electronic production area including BGA rework machines, solder wick, high quality cutters and pliers just to name a few. So we can help provide solutions well beyond the ESD problem.



DESCO ESD Survey Kit

Item	Description
19790	ESD Survey Kit, North America, 120VAC

- The Desco ESD Survey Kit is used to measure, verify, and qualify products for use in the ESD Protected Area (EPA) in accordance with ESD Association documents: ESD TR53, ANSI/ESD S4.1, ANSI/ESD S7.1, ANSI/ESD STM97.1 and other documents
- Kit Includes:
 - 19290 Digital Surface Resistance Meter Kit
 - 19295 Handheld Electrode
 - 19219 Ground Hub Monitor
 - 19249 Low Resistance Tester
 - 19493 Ionization Test Kit
 - 06850 Training Paddles Set



19790

SCS EOS/ESD Assessment Kit

Item	Description
770045	EOS/ESD Assessment Kit

- The SCS EOS/ESD Assessment Survey Kit is used to measure, verify, and qualify products for use in the ESD Protected Area in accordance with ESD Association documents: ESD TR53, ANSI/ESD S4.1, ANSI/ESD S7.1, ANSI/ESD STM97.1 and other documents
- Kit Includes:
 - 770760 Resistance Pro Meter Kit
 - 770765 Handheld Electrode
 - CTM048-21 EM Eye - ESD Event Meter
 - CTM051 Ground Pro Meter
 - 770718 Air Ionizer Test Kit
 - ESD Training Paddles



770045

SMP SMP Diagnostic Kit

Item	Description
770050	SMP Diagnostic Kit

- The SCS SMP Diagnostic Kit is fully equipped with hardware and software that allows you to pinpoint areas of concern to prevent ESD events. The portable kit provides real-time data which will validate your ESD process one area at a time.
- Kit Includes:
 - 770055 SMP Software License
 - 770060 Ground Master Monitor
 - 770061 WS Aware Monitor
 - 770066 EM Aware Monitors (3)
 - 8-Port Ethernet Switch and (6) CAT5E Cables



770050

SCS ESD Event Diagnostic Kit

Item	Description
770051	ESD Event Diagnostic Kit

- The SCS ESD Event Diagnostic Kit is fully equipped with hardware and software that allows you to detect ESD events and their magnitude. The portable kit provides real-time data which will validate your ESD process one area at a time.
- Kit Includes:
 - 770055 SMP Software License
 - 770066 EM Aware Monitors (4)
 - 5-Port Ethernet Switch and (5) CAT5E Cables



770051

ESD METERS & SENSORS



CTM048-21

SCS EM Eye - ESD Event Meter

- Detects, counts and measures ESD events that can damage ESD items and cause tool lock-ups, erratic behavior and parametric errors
- SD Card for downloading data to a CSV file for analysis
- Carry Case with Remote Antenna for measuring at a distance

Item	Description
CTM048-21	EM Eye - ESD Event Meter



Inserting the SD Card



CTM082

SCS ESD Pro - ESD Event Indicator

- Detects and counts ESD events for control program troubleshooting and improvement
- Handy type of detector for quick identification and location of ESD Events in the work area

Item	Description
CTM082	ESD Pro - ESD Event Indicator



CTM051

SCS Ground Pro Meter

- Verifies critical grounding parameters of a facility. Measures AC voltage, DC voltage, and EMI voltage and AC impedance
- Measures maximum millivolt on ground lines as required by IPC-A-610
- Is not effected by electrical or EMI on ground

Item	Description
CTM051	EM Eye - ESD Event Meter



718

SCS Static Sensor

- Portable meter for testing of electrostatic fields, measures surface voltage and polarity on objects up to ± 19.99 kV at a distance of 1 inch
- Switch selectable measurement ranges

Item	Description
718	Static Sensor



SCS Air Ionizer Test Kit

- Portable kit for testing of offset voltage and discharge times of air ionizers and electrostatic fields
- Pairs with the SCS 718 Static Sensor to measure offset voltage and discharge times for the periodic verification of ionizers per ANSI/ESD SP3.3 and ESD TR53

Item	Description
770718	Air Ionizer Test Kit



770718



SURFACE RESISTANCE METERS & PROBES

DESCO Digital Surface Resistance Meter Kit

Item	Description
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19290 Digital Surface Resistance Meter Kit

- Measures resistance point-to-point (R_{tt}) and resistance-to-ground (R_{tg}) of worksurfaces, flooring systems, garments, packaging, and other materials in accordance with ESD Association documents: ESD TR53, ANSI/ESD S4.1, ANSI/ESD S7.1, ANSI/ESD STM97.1 and others



19290

DESCO Two-Point Resistance Probe

Item	Description
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19297 Two-Point Resistance Probe, with BNC

- 2-Point (Two Pin) resistance probe from small samples or small areas, measures the surface resistance per ANSI/ESD STM11.13-2015
- Gold plated, spring-loaded pins with conductive rubber electrodes, maintain consistent contact with small and/or non-flat surfaces



19297

DESCO Concentric Ring Probe

Item	Description
------	-------------

50005 Concentric Ring Probe

- Concentric Ring Probe for Surface Resistance Meters, measures surface resistance per ANSI/ESD STM11.11 and volume resistance per ANSI/ESD STM11.12 of planar material
- Spring loaded, self-aligning center electrode



50005



DESCO Glove CAFE Test Electrode

Item	Description
------	-------------

19298 Glove CAFE Test Electrode

- Constant Area and Force Electrode (CAFE) for gloves and finger cots, measures electrical resistance per ANSI/ESD SP15.1
- Compatible with the following Desco Surface Resistance Meters:
19290 - Digital Surface Resistance Meter Kit
19784 - Analog Surface Resistance Meter Kit
19640 - Surface Resistance Checker

19298



DESCO Body Voltage Meter

Item	Description
------	-------------

19431 Body Voltage Meter

- Measures voltage (Human Body Voltage - HBV) on a person in combination with ESD footwear and flooring materials (both pre and post installation) according to IEC 61340-4-5 and ANSI/ESD STM97.2



19431

EPA ENTRANCE & OULTET TESTERS

DESCO Combo Tester X3 Plus

Item	Description
19265	Combo Tester X3 Plus, with Dual Foot Plate

- Determines the operator's personal grounding devices (wrist straps, foot grounders, ESD shoes, smocks) are functioning correctly
- Displays resistance measurements, temperature and relative humidity
- 5 inch color touchscreen display; intuitive user interface for easy test operation
- Selectable test limits used to meet the testing requirements of ANSI/ESD S20.20 or other standards



19265



DESCO Wrist Strap and Footwear Combo Tester

Item	Description
19280	Wrist Strap and Footwear Combo Tester
19282	Wrist Strap and Footwear Combo Tester, with Stand

- Determines that operator's personal grounding device is functioning correctly
- Separate test circuits for wrist straps and foot grounders
- Powered by 9V battery or optional power adapter



19280



19282

DESCO AC Outlet Analyzer and Wrist Strap Tester

Item	Description
98132	AC Outlet Analyzer and Wrist Strap Tester, 120VAC

- Verifies proper AC outlet wiring and ground path integrity, enabling effectiveness of grounding products
- Tests wrist strap to resistance limits. Tests ESD smock continuity, if it is part of the wrist strap grounding path

Back

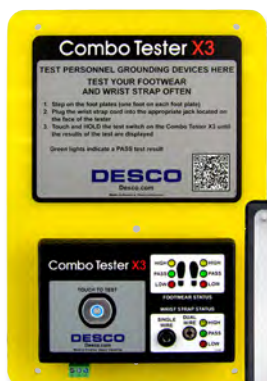


98132

DESCO Combo Tester X3

Item	Description
19270	Combo Tester X3, with Dual Foot Plate

- Determines the operator's personal grounding devices (wrist straps, foot grounders, ESD shoes, smocks) are functioning correctly
- Simultaneous testing of wrist strap and footwear in less than 3 seconds
- Solid-state test switch with no moving parts



19270



DESCO Ground Hub Monitor

Item	Description
19219	Ground Hub Monitor, 120VAC, N. American Plug

- Continuously monitors the path-to-ground integrity of the outlet meeting the ANSI/ESD S6.1 requirement for verifying wiring orientation
- LED's provide a visual indication that outlet is properly wired for grounding purposes of an ESD Control Plan



19219

WHY CONTROL ACCESS TO ESD PROTECTED AREAS?

An ESD Protected Area (EPA) is an area that is equipped with the ESD control items required to minimize the chance of damaging ESD sensitive devices. In the broad sense, a protected area is capable of controlling static electricity on all items that enter that work area.

Component Damage - Often Electrostatic Discharge (ESD) damage cannot be detected by quality control inspections which can be very frustrating. ESD damage can impact productivity, quality, product reliability and thus a company's reputation and profitability.

Control Access to EPA's with the SmartLog Pro®
- The EMIT SmartLog Pro® verifies the functionality of an operator's wrist strap and footwear, logs the test results, and controls access to an ESD Protected Area.

The SmartLog Pro® can be connected to an electronic door lock or turnstile to grant access to those who have passed their pre-defined ESD Tests



50780 - SmartLog Pro® with Proximity and Barcode Readers

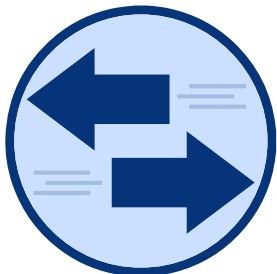


MEASURE → CONTROL → VERIFY



NEW Software for the SmartLog Pro®

Software - The most powerful and accurate ESD Test Acquisition Software on the market. When used with the SmartLog Pro®, it allows manufacturers and assemblers to automate the collection of ESD testing. The SmartLog Pro® Software is not included with the SmartLog Profile and must be purchased separately.



New User Interface
layout allows for easy maneuvering throughout the software



Improved Polling
Process allows for near real time ESD results between SmartLog® and TEAM6 Software



Operators can receive a **text messaged** alert showing their last ESD test result



Smock Test feature allows operators to test while wearing their ESD safe smock. The SmartLog® Pro provides a visual and management receives a report of the results daily



Web Reports feature allows the ESD results to be displayed over a web page and broadcasted on a large TV monitor. This allows operators, managers and anyone in the area to view ESD results in real-time

STATIC MANAGEMENT PROGRAM DEVICES

SCS EM Aware Monitor

Item	Description
770066	EM Aware Monitor

- **NEW** Ionizer compatibility range and interchangeable ionizer antenna; monitors ionizers with a balance (offset voltage) of ± 40 V or better
- ESD Event Continuous Monitor; detects and measures the unique waveform generated by ESD events



770066



SCS Ground Master Monitor

Item	Description
770060	Ground Master Monitor with Ethernet Output

- **NEW** Ethernet Connectivity; provides network communication with Static Management Program (SMP). Data collection through SMP includes metal ground and EMI Voltage
- **NEW** Optical Relay; pairs with lights and buzzers for increase visibility
- Continuously monitors the path-to-ground impedance of eight metal tools; meets ANSI/ESD S20.20



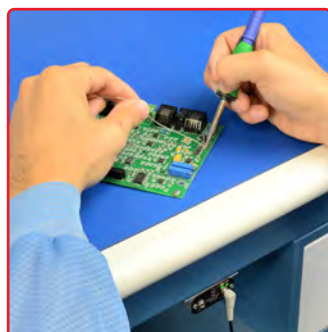
770060



SCS WS Aware Monitor

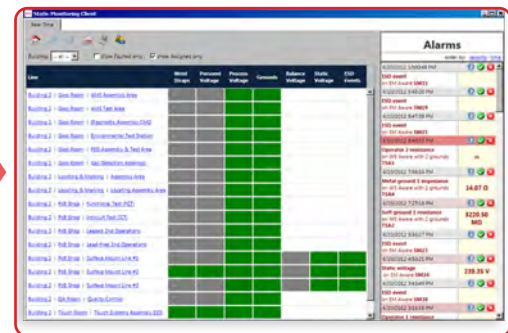
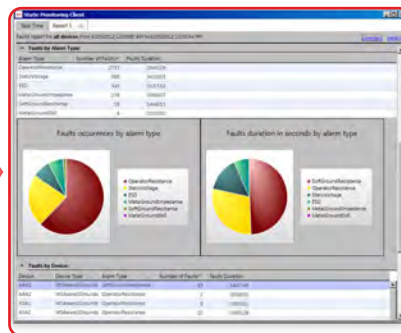
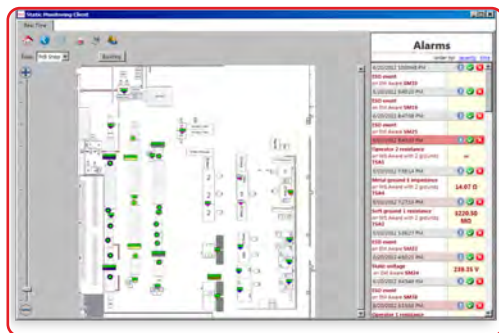
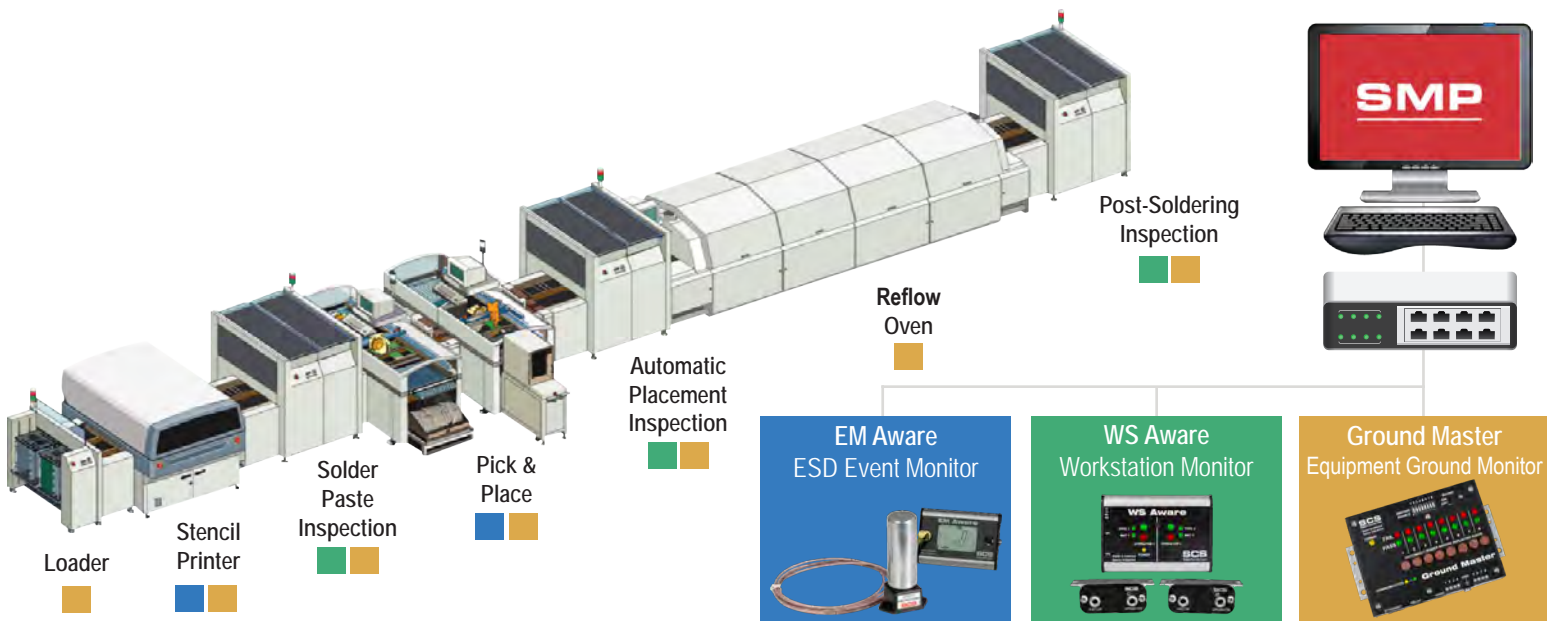
Item	Description
770067	Monitor with Standard Remotes and Ethernet Output
770068	Monitor with Big Brother Remotes and Ethernet Output

- Continuously monitors the path-to-ground integrity of two operators, two conductive or dissipative worksurfaces, and two metal tools; meets ANSI/ESD S20.20 in accordance with ESD TR1.0-01-01
- Provides network communication with Static Management Program (SMP). Data collected through SMP includes operator resistance, operator voltage, mat resistance, metal tool impedance and metal tool EMI voltage



770067

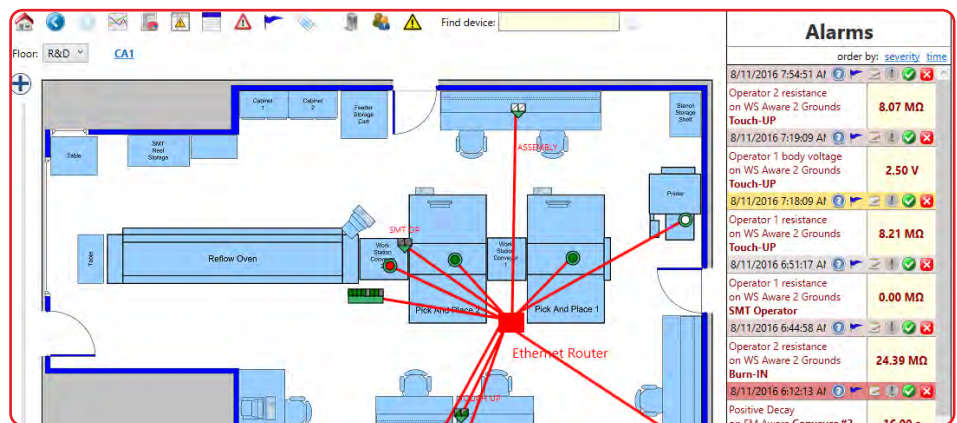




MANAGE YOUR ESD PROCESS FROM...ANYWHERE!

SCS Static Management Program (SMP) continuously monitors your ESD process control system throughout all stages of manufacturing. SMP captures data from SCS workstation, equipment and ESD event continuous monitors and provides a real-time picture of critical manufacturing processes. All activity is stored into a database for on-going quality control purposes. SMP allows you to pinpoint areas of concern and prevent ESD events. Quantifiable data allows you to see trends, become more proactive and prove the efficiency of your ESD process control system.

SCS supports manufacturers in their efforts to make more dependable products, improve yields, increase automation and provide a measurable return on investment.



BENCHTOP & OVERHEAD IONIZERS

EMIT Zero Volt Overhead Ionizer

Item	Description
50664	2-Fan Overhead Ionizer, 120VAC
50671	2-Fan Overhead Ionizer, No Cord, 220VAC
50665	3-Fan Overhead Ionizer, 120VAC
50672	3-Fan Overhead Ionizer, No Cord, 220VAC

- Neutralizes electrostatic charges on insulators and ungrounded conductors in a coverage area
- Discharges (removes) both positive and negative electrostatic charges within the coverage area
- Meets required limits of ANSI/ESD S20.20 ($< \pm 35$ volts)



50664



50665

DESCO Chargebuster® Overhead Ionizer

Item	Description
60640	2-Fan Overhead Ionizer, 120VAC with US Plug
60473	3-Fan Overhead Ionizer, 120VAC with US Plug

- Specially designed fan modules create better coverage and consistent offset voltage (balance) ± 10 Volts, and superior discharge times, (< 3 Seconds) tested per ANSI/ESD STM 3.1
- **Auto-Feedback System:** Unit will automatically shut down and alarm when supply voltage drops



60640



60473

EMIT Zero Volt Benchtop Ionizer

Item	Description
50663	Benchtop Ionizer, 120VAC
50670	Benchtop Ionizer, No Plug, 220VAC

- Neutralizes electrostatic charges on insulators and ungrounded conductors within the coverage area
- Less than 2 seconds discharge time with ± 2 volts balance (offset voltage) at 12"
- Sealed plenum air flow: Prevents contamination from being introduced to the workstation
- Stainless steel enclosure



50663



DESCO High Output Benchtop Ionizer

Item	Description
60505	Benchtop Ionizer, 120VAC
60515	Benchtop Ionizer, 220VAC

- Specially designed fan modules create better coverage, consistent offset voltage (balance) ± 3 volts, and superior discharge times (< 1 second at 12") tester per ANSI/ESD STM3.1
- **Active Balancing System with Audible Visual Alarm:** continually adjusts voltage output for optimal performance and automatically alarms when maintenance is needed or unit is not operating correctly
- Powder coated housing and multi-mount stand with sealed bearing fans



60505



SCS Mini Air Ionizer

Item	Description
960	Mini Air Ionizer

- In-Tool ionizer with Steady-State DC emitters
- Provides fast discharge with low airflow
- Compact size (4.5" H x 3.3" W x 2.0" D with bracket)
- Less than 4 seconds discharge time with ± 20 volts offset voltage (balance)
- Power supply not included



960



Workstation Ionizer

Item	Description
94000	Ionizer without fan, 120VAC
94001	Ionizer without fan, 220VAC

- Effectively eliminates localized static charges
- Pulse rate and ion balance controls allow for effective calibration and adjustment of the workstation ionizer to give optimum ion balance and output
- Effective ionization range: 12"



SCS 992X Series Ionization Bars

992X-0600-HW01-0



992X-0350-LW00-H

- An air bar ionizer used to neutralize electrostatic build-up in locations where it is a frequent problem. It contains an ionized air emitter and can be set up easily by supplying DC 24V. It must be grounded to work correctly. It generates ionized air quickly and efficiently. It also includes functions to detect operating errors, ensuring that it can be used safely and reliably. It also includes a cleaning timer that counts electrified time.
- Ion generation Method: Corona discharge
- Ion balance: $\pm 30V$ or less
- Effective elimination distance: 50mm – 1500mm
- Power voltage rating: DC24V $\pm 5\%$
- Power consumption: 150mA
- Emitter needle: Tungsten
- Service Temperature: 5-40°C
- Environment humidity: 15-85% (no condensation)

Low Speed Ionization Bars

Item	Description
992X-0350-LW00-H	Ion Bar, 350MM, No Adapter & Cable, UL Listed
992X-0600-LW00-H	Ion Bar, 600MM, No Adapter & Cable, UL Listed
992X-0850-LW00-H	Ion Bar, 850MM, No Adapter & Cable, UL Listed
992X-1350-LW00-H	Ion Bar, 1350MM, No Adapter & Cable, UL Listed
992X-1600-LW00-H	Ion Bar, 1600MM, No Adapter & Cable, UL Listed
992X-1850-LW00-H	Ion Bar, 1850MM, No Adapter & Cable, UL Listed

High Speed Ionization Bars

Item	Description
992X-0350-HW01-0	Ion Bar, 350MM, No Adapter & Cable
992X-0600-HW01-0	Ion Bar, 600MM, No Adapter & Cable
992X-0850-HW01-0	Ion Bar, 850MM, No Adapter & Cable
992X-1100-HW01-0	Ion Bar, 1100MM, No Adapter & Cable
992X-1350-HW01-0	Ion Bar, 1350MM, No Adapter & Cable
992X-1600-HW01-0	Ion Bar, 1600MM, No Adapter & Cable
992X-1850-HW01-0	Ion Bar, 1850MM, No Adapter & Cable
992X-2100-HW01-0	Ion Bar, 2100MM, No Adapter & Cable
992X-2350-HW01-0	Ion Bar, 2350MM, No Adapter & Cable
992X-2600-HW01-0	Ion Bar, 2600MM, No Adapter & Cable
992X-2850-HW01-0	Ion Bar, 2850MM, No Adapter & Cable
992X-3100-HW01-0	Ion Bar, 3100MM, No Adapter & Cable

SCS Ionized Air Gun

Item	Description
980	Ionized Air Gun, North America

- Neutralize electrostatic charges to eliminate ElectroStatic Attraction (ESA), visual imperfections, and contamination by dislodging charged dust and debris
- Fast <1 second discharge times with ± 30 volt offset voltage balance tested per ANSI/ESD STM3.1 and ESD TR53
- Modular design with 7' ESD protective hose with trigger switch
- Allows for quick change between compressed gas supply



980

SCS 966-II Air Ionizer

Item	Description
966-II	Air Ionizer
966P1	Pipe for 966-II, 100MM
966P3	Pipe for 966-II, 300MM
966S	Standard Nozzle
966T	Tube

- Displays a warning when there are abnormal conditions
- Applies high-frequency-high-voltage from the high-voltage transformer to the discharge needle inside
- Requires optional nozzles

966-II



Shown with
Optional 966S

SINGLE-WIRE MONITORS

DESCO Multi-Mount Continuous Monitor

Item	Description
19651	Mini Monitor with North American Plug

- Continuously monitors the path-to-ground integrity of one operator and one ESD worksurface
- Improved Operator Alarm** - Alarms when the operator unintentionally disconnects from the monitor or the connection between the banana plug and monitor's jack is intermittent
- New Mat Monitor Switch** - Disables the worksurface monitor circuit when used in areas where there is no ESD worksurface



WAVE DISTORTION



19651

DESCO Continuous Mini Monitor

Item	Description
19239	Continuous Monitor with North American Plug

- Continuously monitors the path-to-ground integrity of one operator and one ESD worksurface
- Desco Wave Distortion Technology** - Provides stable continuous monitoring (versus pulsed or intermittent) of the wrist strap's path-to-ground and the presence of its 1 megohm safety resistor
- 1.2 Volt Operator Test Voltage** reduces the risk of electrical overstress (EOS) for the handling of sensitive components

WAVE DISTORTION



19239



DESCO Full-Time Continuous Monitor

Item	Description
19321	Full-Time Continuous Monitor with North American Plug
19322	Full-Time Continuous Monitor with UK Power Cord

- Single workstation continuous monitor - continuously monitors the path-to-ground integrity of one operator, one ESD worksurface, and the electrical ground used by the monitor
- IMPROVED Operator Alarm** - Alarms when the operator unintentionally disconnects from the monitor or the connection between the banana plug and monitor's jack is intermittent
- NEW AC Outlet Monitor Circuit** - Verifies the wiring of an AC outlet and continuously monitors the path-to-ground integrity
- NEW Park Delay Timer** - Indicates the 8 second delay to disconnect and park the operator wrist cord



WAVE DISTORTION



19321

DESCO WAVE DISTORTION Monitor Verification Tester

Item	Description
98221	Wave Distortion Monitor Verification Tester

- Calibration Verification** - Checks the test limits of Desco Wave Distortion Monitors without removing them from their workstations
- NEW Extruded Aluminum Enclosure**; shields the tester from electrical interference when in-use



98221

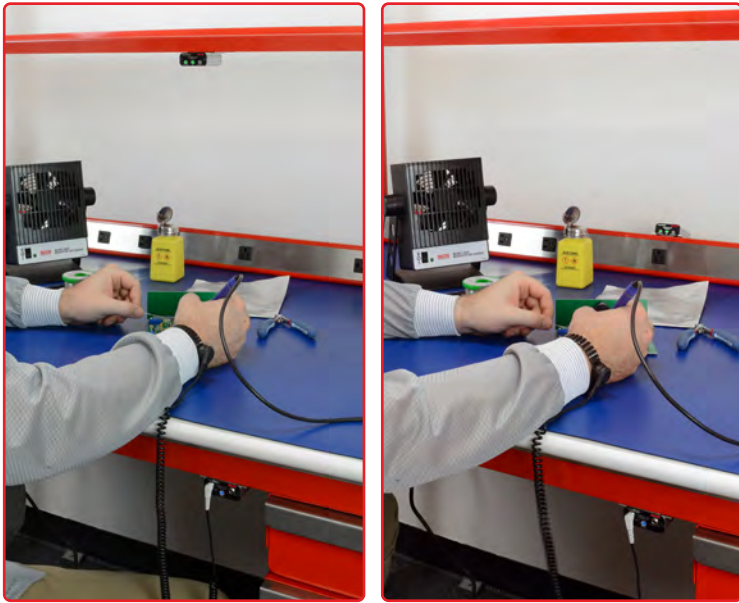
SCS 724 Plus Workstation Monitor

Item	Description
770724	724 Plus Workstation Monitor
770732	Dual Operator Remote
770733	Operator Remote

- **NEW SCS 770724 724 Plus Workstation Monitor** - continuously monitors the path-to-ground integrity of two operators and one conductive or dissipative worksurfaces; meets ANSI/ESD S20.20 in accordance with ESD TR1.0-01-01
- **Digital Signal Processing Technology**; provides stable continuous monitoring (versus pulsed intermittent) of the wrist strap's path-to-ground and the presence of its 1 megohm safety resistor
- **0.40 Volt Operator Test Voltage** - reduces the risk of electrical overstress (EOS) for the handling of sensitive components
- **Operator Body Voltage Detection** - alarms if the operator generates or comes in contact with voltage that would be dangerous to an ESD susceptible item



770724



SCS 724 Workstation Monitor

Item	Description
724	Workstation Monitor with North American Plug

- **Single workstation continuous monitor**; Meets ANSI/ESD S20.20 in accordance with ESD TR1.0-01-01
- Continuously monitors 2 operator dual-wire wrist straps, and a 1 worksurface mat
- Visible and audible alarms indicate improper grounding of the operator and worksurface
- **Adjustable Operator Test Voltage and Upper Limit** - test voltage can be set to 9 or 16 volts; test limit can be set to 10 or 35 megohms



724



SCS Iron Man® Plus Monitor

Item	Description
CTC331-WW	Iron Man® Plus Monitor

- **Single workstation continuous monitor**; Continuously monitors the path-to-ground integrity of an operator and conductive or dissipative worksurface and meets ANSI/ESD S20.20 in accordance with ESD TR1.0-01-01
- **Electrical Overstress (EOS) Detection** - alarms if overvoltage ($\pm 5V$ or less) from a tool such as a soldering iron or electric screwdriver is applied to a circuit board under assembly



CTC331-WW

DESCO Zero Volt Monitor

Item	Description
19668	Zero Volt Monitor

- Continuously monitors the path-to-ground integrity of two operators and two ESD worksurfaces independently



19668



SINGLE-WIRE WRIST STRAPS

DESCO Jewel® MagSnap Wrist Strap

Item	Description
09184	MagSnap Adjustable Wrist Strap with 1.8M Coil Cord
09187	MagSnap Adjustable Metal Wrist Strap with 1.8M Coil Cord

- Extra wide, soft elastic band to increase wearer comfort
- Silver impregnated polypropylene knitted on inside for superior conductivity
- Superior strain relief tests in excess of 1,000,000 cycles; over 62 times the minimum requirement per ESD S1.1



09184

09187

DESCO Elastic Adjustable Wrist Strap

Item	Description
09070	Elastic Adjustable Wrist Strap with 1.8M Coil Cord

- Extra wide, soft elastic band to increase wearer comfort
- Silver impregnated polypropylene knitted on inside for superior conductivity
- Superior strain relief tests in excess of 1,000,000 cycles; over 62 times the minimum requirement per ESD S1.1



09070

DESCO Ultra-Light Metal Expansion Wrist Strap

Item	Description
09080	Adjustable Wristband, 4MM
09081	Adjustable Wrist Strap, 4MM with 1.8M Coil Cord
09082	Adjustable Wrist Strap, 4MM with 3.6M Coil Cord

- Less than half the weight of a typical Metal Wristband
- Adjustable - Fits wrist sizes 5.75" to 10.5"
- Medical grade series stainless steel backplate and links
- Creates a more reliable path-to-ground for the operator



09080

SCS Adjustable Single-Wire Wrist Strap

Item	Description
2314R-R	Red Adjustable Wrist Strap with 1.5M RoHS Coil Cord
2324R-R	Red Adjustable Wrist Strap with 3M RoHS Coil Cord
2314R-B	Blue Adjustable Wrist Strap with 1.5M RoHS Coil Cord
2324R-B	Blue Adjustable Wrist Strap with 3M RoHS Coil Cord

- Stamped 4mm (nominal) stud to fit 4mm (nominal) spring loaded medical snap socket
- Plastic clasp secures elastic material in place
- Barrel type banana plug, fits industry standard banana jack 4.22mm (nominal)
- Metallized, high flex tinsel, black jacket



2314R-R

2314R-B

SCS Thermoplastic Wrist Strap

Item	Description
4650	Blue Wrist Strap with 4MM Snap and 1.5M Coil Cord

- Single-wire thermoplastic wrist strap: $> 1 \times 10^7$ ohm exterior with conductive interior $< 1 \times 10^5$ ohms
- Zipper style latching mechanism
- Easily adjusts to most wrist sizes
- 4mm male snap
- One megohm current limiting resistor located at socket end



4650

SCS Adjustable Wrist Strap

Item	Description
ECWS61M-1	Blue Adjustable Wrist Strap with 1.8M Coil Cord

- One size fits all adjustable wrist band with 1.8M coil cord
- 4mm snap
- 1 megohm resistor
- Meets ANSI/ESD S20.20 and ANSI/ESD S1.1

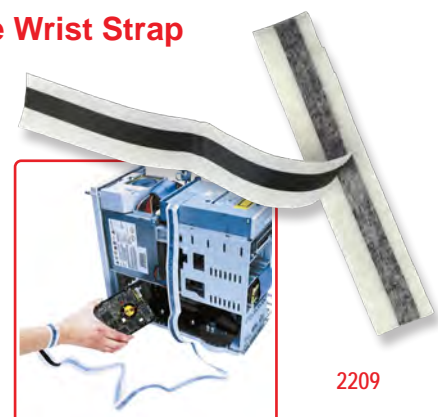


ECWS61M-1

SCS Disposable Wrist Strap

Item	Description
2209	Disposable Wrist Strap

- Disposable non-woven fabric wrist strap that provides cost-effective and reliable grounding
- Use for visitors and one-time use applications
- Suited for shipment along with components and devices, such as memory upgrades, sound cards, etc., to provide protection at the receiving end



2209

SCS MagSnap 360™ Thermoplastic Wrist Strap

Item	Description
2241	MagSnap 360™ Thermoplastic Adjustable Wrist Strap with 1.8M Coil Cord
2242	MagSnap 360™ Thermoplastic Adjustable Wrist Strap with 3.6M Coil Cord

- 360° rotation between wristband and coil cord promotes freedom of motion and reduces strain on the operator's wrist
- Magnetic connection between wristband and coil cord creates a superior electrical connection to eliminate intermittent failures found in traditional snap and spring connections
- Extends the lifespan of the wrist strap and maintains a 1-5 pound perpendicular breakaway force to prevent accidental disconnects



2241

SCS MagSnap 360™ Metal Wrist Strap

Item	Description
2228	MagSnap 360™ Metal Wrist Strap Kit - Small Band with 1.8M Coil Cord
2229	MagSnap 360™ Metal Wrist Strap Kit - Medium Band with 1.8M Coil Cord
2230	MagSnap 360™ Metal Wrist Strap Kit - Large Band with 1.8M Coil Cord

- 360° rotation between wristband and coil cord promotes freedom of motion and reduces strain on the operator's wrist
- Magnetic connection between wristband and coil cord creates a superior electrical connection to eliminate intermittent failures found in traditional snap and spring connections
- Medical grade series stainless steel backplate and links



2229

2230



2228



DESCO Dual-Wire Adjustable Elastic Wrist Strap

Item	Description
19690	Adjustable Wrist Strap with Dual 4MM Snaps, 1.8M Right Angle Cord

- Creates a redundant path-to-ground for an operator with resistance $<3.5 \times 10^7$ ohms per the required limits of ANSI/ESD S20.20 for Method 1.
- If one conductor is damaged, the operator will maintain the path-to-ground through the other conductor



19690

SCS Metal Wrist Strap with Standard Connector

Item	Description
2381	Dual-Wire Metal Wrist Strap with 1.5M Coil Cord, Small
2382	Dual-Wire Metal Wrist Strap with 1.5M Coil Cord, Medium
2383	Dual-Wire Metal Wrist Strap with 1.5M Coil Cord, Large

- Premium metal expansion wrist strap with more reliable path-to-ground
- Comfortable, designed not to pinch or pull hair
- Durable metal band that is long wearing and easy to clean
- Superior contact with skin for reliable removal of generated static charges



2381

WORKSURFACE MATS

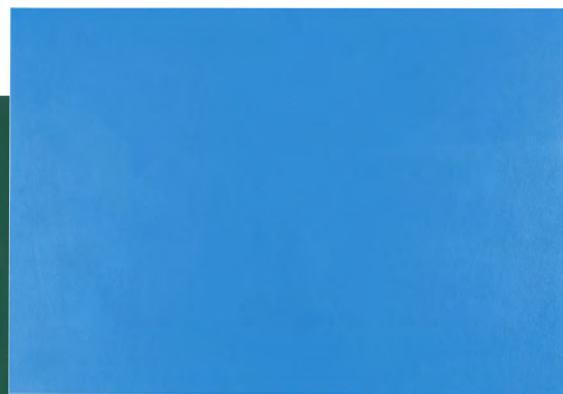
SCS 1890 Series Dual-Layer Rubber Mat

Item	Description
1890 1X2	Dissipative Dual-Layer Rubber Mat, Green, 1M x 2M
1890 1X5	Dissipative Dual-Layer Rubber Mat, Green, 1M x 5M
1890 1X10	Dissipative Dual-Layer Rubber Mat, Green, 1M x 10M
1891 1X2	Dissipative Dual-Layer Rubber Mat, Blue, 1M x 2M
1891 1X5	Dissipative Dual-Layer Rubber Mat, Blue, 1M x 5M
1891 1X10	Dissipative Dual-Layer Rubber Mat, Blue, 1M x 10M

- Provides a worksurface that does not generate a static charge and will control the discharge rate from all conductors (including ESD susceptible items) that are placed on the surface
- High strength nitrile rubber compound is designed to withstand cuts, abrasion, stretching, and tearing
- May be used in soldering applications with flux and other chemicals
- Grounding kit included
- RoHS Compliant
- Made in Japan



1890 1X2



1891 1X2



Includes Ground Kit

DESCO Statfree T2 Plus™ Dissipative Dual-Layer Rubber

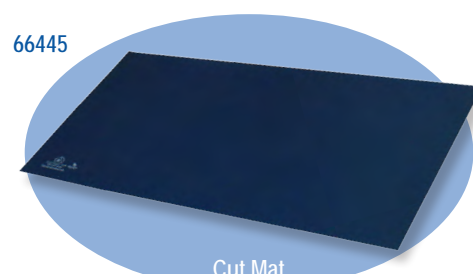
- Dissipative Dual Layer ESD Worksurface
- Provides a worksurface that does not generate a static charge and will control the discharge rate from all conductors (including ESD susceptible items) that are placed on the surface
- **NEW Nitrile Rubber Oil Resistant Compound**
- Improved material compound limits oil absorption to improve electrical and physical properties through the lifespan of the material. May be used in soldering applications with flux and other chemicals
- Dissipative (1×10^6 to $<1 \times 10^9$ ohms Rtt) Top Layer
- Meets ANSI/ESD S20.20 worksurface required limit and recommendation of ANSI/ESD S4.1 for contact with ESD susceptible items
- Conductive ($<1 \times 10^6$ Rtt) Bottom Layer
- Reduces the resistance to ground (Rtg) from the top of the surface to the groundable point ground and allows the material to be used with ESD workstation monitors
- Ultraviolet (UV) Stabilizer Additives
- Stabilizes color retention, ensures ESD performance over time and eliminates surface layer deterioration resulting in cracking when the product is flexed
- Laser engraved with ESD protective symbol, specs, and manufacturer information
- Identifies ESD protective product for control & auditing purposes
- Lead-free RoHS compliant

66424



Mat Kit

66445



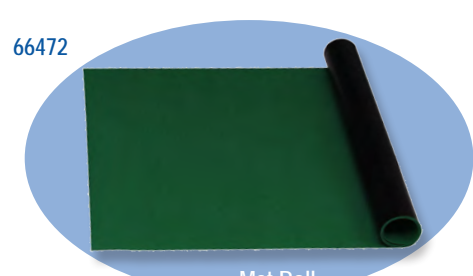
Cut Mat

66466

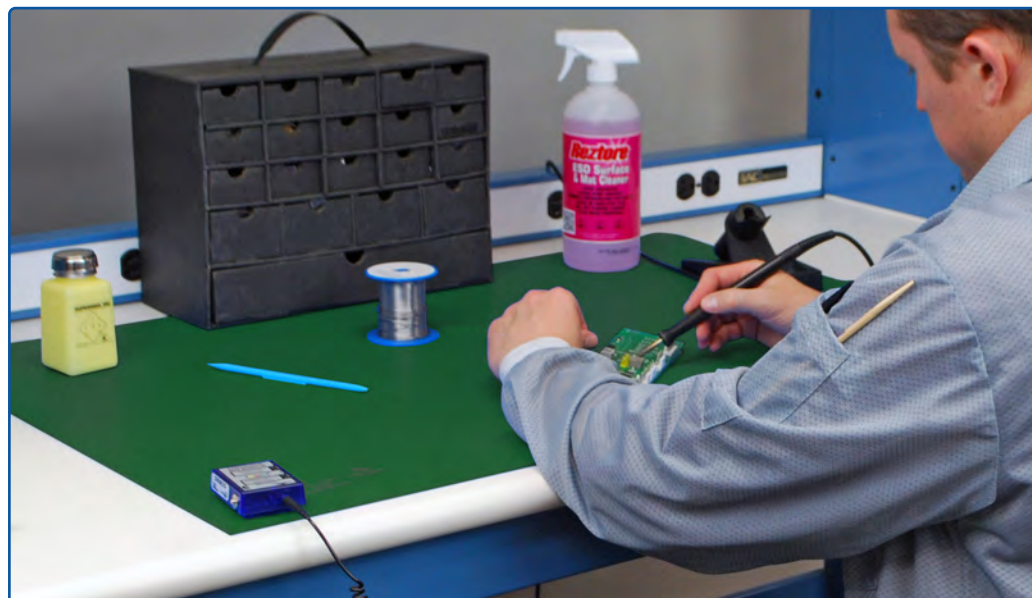


Tray Liner

66472



Mat Roll



SCS 1892 Series Conductive Rubber Floor Mat

Item	Description
1892 1X2	Conductive Rubber Floor Mat, Black, 1M x 2M
1892 1X5	Conductive Rubber Floor Mat, Black, 1M x 5M
1892 1X10	Conductive Rubber Floor Mat, Black, 1M x 10M

- Provides a worksurface that does not generate a static charge and will control the discharge rate from all conductors (including ESD susceptible items) that are placed on the surface
- High strength nitrile rubber compound is designed to withstand cuts, abrasion, stretching, and tearing
- May be used in soldering applications with flux and other chemicals
- Grounding kit included
- RoHS Compliant
- Made in Japan

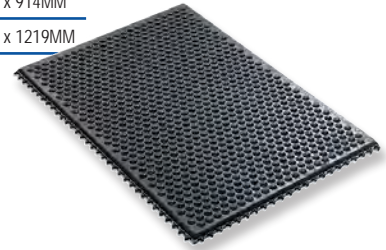
1892 1X2



DESCO Statfree i™ Conductive Ergonomic Rubber Interlocking Floor Mat

Item	Description
40930	Interlocking Floor Mat, 12.7MM x 610MM x 914MM
40931	Interlocking Floor Mat, 12.7MM x 610MM x 1219MM

- **Conductive Ergonomic ESD Floor Mat** - Provides a flooring surface that will ground the operator and minimizes charge generation when used as a part of a footwear / flooring personnel grounding system
- **Ergonomic Support Cell Structure** - Suspended bounce feel, and matrix of "tri-radial" supports firming up as weight is applied improves worker comfort and productivity
- Designed to withstand abrasion, stretching, and tearing. Use in areas with light wheeled cart traffic
- Interlocking edges are used as a stand alone mat or link together for specific work areas



40930



DESCO Statfree CV280™

Item	Description
15011	Conductive Roll, Black, 2MM x 1219MM x 12.2MM
15012	Conductive Roll, Black, 2MM x 1219MM x 18.3MM
15013	Conductive Floor Mat Kit, Black, 2MM x 914MM x 1219MM
15014	Conductive Floor Mat Kit, Black, 2MM x 1219MM x 1829MM

- **Conductive PVC Floor Matting** - Provides a flooring surface that does not generate a static charge and will act as part of the path to ground for an operator wearing ESD footwear
- **Conductive (Rtt: $< 1 \times 10^6$ ohms per ANSI/ESD 7.1 and ESD TR53) Pebble Embossed Surface**
- Meets the required limits of ANSI/ESD S20.20 Method 1 ($< 3.5 \times 10^7$ ohms) for a flooring/footwear system
- The resistance range of the surface layer remains low enough to act as a path-to-ground with the normal build of dirt and grime on the mat

15011

15013

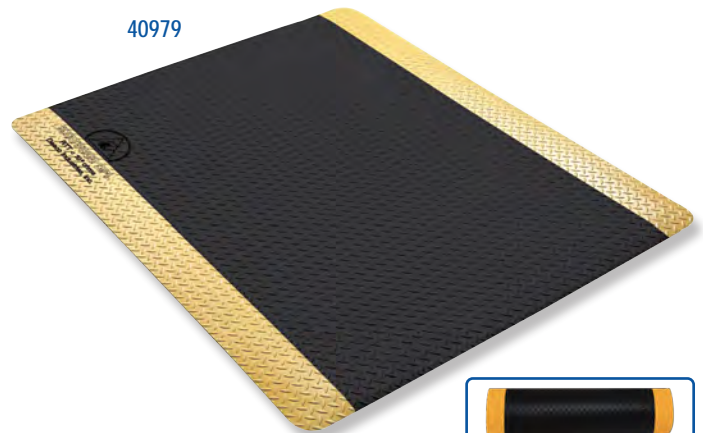


DESCO Statfree DPL Plus Diamond Plate Floor Mat

Item	Description
40979	Diamond Plate Floor Mat, 11.4MM x 610MM x 914MM
40980	Diamond Plate Floor Mat, 11.4MM x 610MM x 1219MM
40981	Diamond Plate Floor Mat, 11.4MM x 914MM x 1524MM
40982	Diamond Plate Floor Runner, 11.4MM x 914MM x 18.3MM

- **Homogeneous Vinyl with Diamond Plated Surface Pattern Surface** - Consistent electrical and slip resistant properties
- **Laminated Foam Rubber Anti-Fatigue Base** - Foam rubber base will not break down or absorb moisture like vinyl products
- Exceeds ANSI/ESD S20.20 required limit 10^9 ohms for ANSI/ESD Floor
- Highly visible yellow border with beveled edges and radius corners
- Allows carts and chairs to roll over without damage

40979



40982



SCS PVC Dissipative Floor Covering

Item	Description
9602C	Beige Floor Covering, 1.82M x 9.2M
9609C	Green Floor Covering, 1.82M x 9.2M
S-92	Welding Bar for 9602C, 50M
S-99	Welding Bar for 9609C, 50M

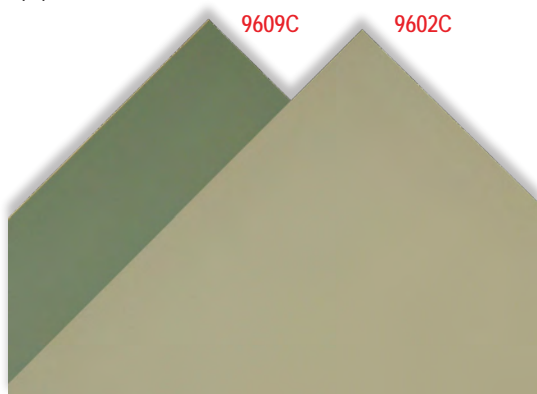
- Vinyl flooring mat ideal for electronics assembly areas, semiconductor processing and other ESD Protected Areas (EPA)
- Resistance to ground is typically below $< 1 \times 10^8$ ohms to help meet ANSI/ESD S20.20 system grounding requirements for personnel using footwear/flooring system
- Single eye-pleasing colors help make dirt and dust visible for identification when cleaning is necessary
- Hardness greater than other typical vinyl matting making it easy to use with chairs, carts and other mobile equipment



S-92



S-99



STATGUARD FLOORING 8400 Series - ESD Vinyl Floor Tile

- Resilient ESD high gloss, durable vinyl tile - 100% pure homogeneous vinyl with proprietary ESD flooring composition
- Precision cut allows the tiles to be laid tight without gaps that collect dirt
- Low-cost maintenance
- Easily cleaned and shined to a gloss while maintaining its electrical properties
- Electrical resistance - 2.5×10^4 to $< 1 \times 10^6$ ohms
- Meets ANSI/ESD S20.20 flooring required limit tested per ANSI/ESD STM7.1 and ESD TR53, and is suitable flooring component for personal grounding footwear / flooring system



STATGUARD FLOORING Conductive Acrylic Paint

Item	Description
46041	Dark Grey Acrylic Paint, 5 Gal
46051	Light Grey Acrylic Paint, 5 Gal

- Meets ANSI/ESD S20.20 $< 1 \times 10^9$ ohms floor requirement
- 2 coats are recommended to obtain Rtt: 10^5 ohms per ANSI/ESD S7
- Coverage: 300 - 400 sq ft per gallon
- Replaces static control floor mats in electronics, manufacturing, assembly, and test areas
- Conductive in accordance with MIL-HDBK-263-B
- Provides static control on concrete and epoxy floors and in places which are difficult to protect



46041



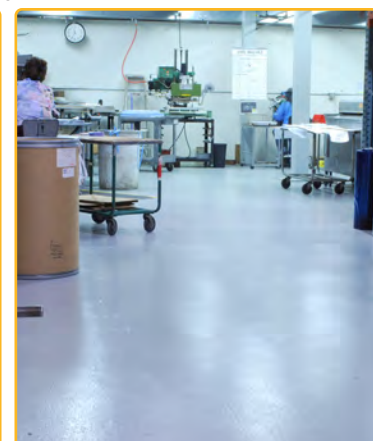
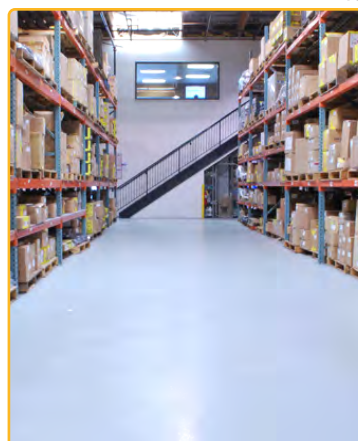
46051

STATGUARD FLOORING Conductive Epoxy

Item	Description
46057	Light Grey Epoxy, 4 Gal

- **Conductive Epoxide Polymer Floor Coating** - Provides a flooring surface that does not generate a static charge and will act as part of the path-to-ground for an operator wearing ESD footwear
- Conductive (Rtt and Rtg 1×10^4 to $< 1 \times 10^7$ ohms per ANSI/ESD STM7.1 or IEC 61340-4-1)
- The surface resistance range will remain low enough to act as a path-to-ground with normal dirt and grime build-up on a floor and meet the required limits of ANSI/ESD S20.20 ($< 1 \times 10^9$ ohms) for a footwear / flooring system
- One coat, 2-part, water-based epoxy system
- Mix 4 gallon pre-measured Part A and B together and install with squeegee and nap roller
- 50% solids by volume to reduce dry time

46057



DESCO Statguard® Dissipative Floor Finish

Item	Description
10511	Dissipative Floor Finish, 10L Box
10512	Dissipative Floor Finish, 19L Box
10520	Dissipative Floor Finish, 208L
10550	Dissipative Low-VOC Floor Finish, 10L Box

Dissipative Floor Finish - 10511, 10512, 10520

- Non-tribocharging - Limits charge generation when walking - <100 volts per ANSI/ESD S20.20
- Can be applied on many hard surfaces or sealed floors including vinyl, VCT, linoleum, rubber, epoxy, acrylic paint, and concrete
- Converts a Non-ESD floor to ESD floor

Dissipative Low-VOC Floor Finish - 10550

- Used to convert hard non-ESD floors to ESD protective flooring and for use in protecting and enhancing ESD permanent flooring (vinyl, VCT, rubber)
- Meets or exceeds ANSI/ESD S20.20 minimum requirements as an ESD protective floor or as a primary grounding method
- Low-VOC - Meets CARB and other regional VOC requirements



DESCO Premium Foot Grounders

Item	Description
17200	Premium Heel Grounder with 1 Megohm Resistor
17202	Premium Heel Grounder with 2 Megohm Resistor
17222	Premium Toe Grounder with 1 Megohm Resistor
17260	Lead-Free Heel Grounder with 2 Megohm Resistor

17200 & 17202 - Premium Heel Grounder

- Durable heel grounder cup
- Non-marring interior
- Exceptionally tear resistant dual-layer rubber with inner scrim
- Provides long life - saving money
- Hook and loop fastening system

17222 - Premium Toe Grounder, 1 Megohm Resistor

- Toe cup
- Constructed of a premium grade conductive rubber
- Genuine "non-selvedged" Velcro® material - adjustable and comfortable

17260 - Lead-Free Heel Grounder, 2 Megohm Resistor

- Green hook and loop fastening system - Unit can be used in Lead-Free areas where RoHS compliant items are exclusively worked on
- Interior green rubber layer - Non-marring on footwear and indicates that it is RoHS compliant
- Wide bands of rubber provide greater contact area

17200



17202



17260



DESCO Premium 3-Layer Non-Marring Heel Grounders

Item	Description
17250	Non-Marring Heel Grounder without Resistor
17252	Non-Marring Heel Grounder with 1 Megohm Resistor

- Non-marring interior and exterior dissipative rubber - will not mar shoes or floors - reduces maintenance costs of touching up floors
- 30" long, 8 strand nylon polyester grounding tab
- Does not particulate; superior body to ground contact
- Reversible static dissipative 3-layer rubber
- No exposed carbo, ideal for cleanrooms

17250

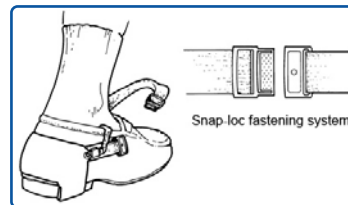


DESCO Premium Full Coverage Foot Grounders

Item	Description
17290	Small Foot Grounder with 2 Megohm Resistor
17291	Medium Foot Grounder with 2 Megohm Resistor
17292	Large Foot Grounder with 2 Megohm Resistor

- **NEW** 2 Meg Resistor - Added operator safety ensuring a minimum of 1 Meg-ground resistance
- **NEW** 3 point hook and loop fastening system
- Improved design ensures maximum contact area, for superior grounding effectiveness

17290



DESCO Disposable Conductive Bootie Footwear

Item	Description
04584	Disposable Conductive Bootie, 150 Pair/Box
75003	Disposable Slip Resistant Conductive Bootie, Large, 150 Pair/Box
75004	Disposable Slip Resistant Conductive Bootie, XLarge, 150 Pair/Box

04584 - Disposable Conductive Bootie

- Conductive tab connects operator with ESD flooring
- Material will not scratch or mark flooring
- Acceptable for cleanroom use
- UL Listed

04584



75003 & 75004 - Disposable Slip Resistant Conductive Bootie

- Conductive tab connects operator with ESD flooring
- Acceptable for cleanroom use

75003



GROUND CORDS & ACCESSORIES

SCS Ground Cords

Item	Description
3040	Ground Cord, 4.6M, 10MM Male Stud, 1 Meg Resistor
3043	Straight Ground Cord, 1.5M
3043S	Straight Ground Cord, 0.11M

3040 - Ground Cord

- 4.6 Meter 20 AWG PVC Wire
- Black molded ABS cover with yellow ABS insert
- 1 megohm current limiting resistor on molded end

3043 - Straight Ground Cord

- 1.5 meter 20 AWG PVC Wire
- Good for connecting mat directly to common point ground which has a female 10mm snap

3043S - Straight Ground Cord

- 0.11 Meter 20 AWG PVC Wire
- No current limiting resistor
- Good for connecting conductive mats together to ensure continuity



DESCO Dome Style Ground Cords

Item	Description
09813	Ground Cord, 10MM Stud, 4.6M Cord with Ring Terminal and Resistor
09814	Ground Cord, 10MM Stud, 4.6M Cord with Ring Terminal and No Resistor
14234	Ground Cord Kit for Floor Mat, 10MM Stud, 4.6M Cord with Ring Terminal

09813 - Dome Style Ground Cord

- Low profile - reduces inadvertent snagging that may disconnect ground cord
- Easily snaps to mat 10mm socket snap, flush to mat surface
- Ensures proper grounding

09814 - Dome Style Ground, without Resistor

- 10mm (0.395") snap stud
- Can be used with worksurface mat or floor mat
- No resistor is required, but with resistor is acceptable

14234 - Ground Cord Kit for Floor Mat

- Complete ground kit
- Allows ground cord to be optionally bolted mat; keeps ground cord from disconnecting



SCS Ground Snap Accessories

Item	Description
3050	Snap 10MM Female Socket, 8-Prong, 10 Per Pack
3090	Snap Fastener with 5 EA Sockets and Rivets

3050 - Snap 10MM Female Socket

- Snap fastener for mats and runners
- 3/8" female 8 prong snap

3090 - Snap Fastener

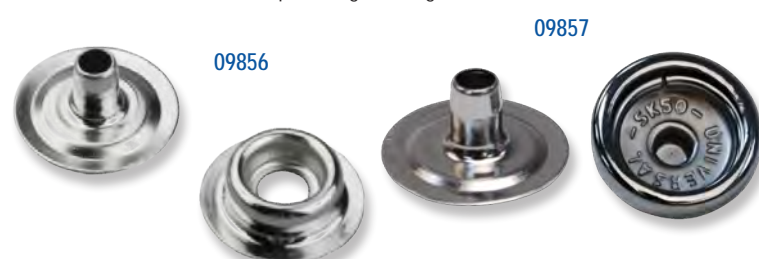
- Matting 10MM female snap for 3040, 3043, and 3043S
- Includes punch, riveting, and backing tool for ease of installation



DESCO Snaps

Item	Description
09856	Snaps, Studs, and Rivets, 10MM, 100 EA/PK
09857	Snaps, Sockets, and Rivets, 10MM, 100EA/PK

- Installs to worksurface, snaps onto grounding block or cord



GROUND CONNECTORS & FIELD SERVICE KITS

SCS Field Service Kits

Item	Description
8501	Portable Field Service Kit with Adjustable Wrist Strap

- Quickly removes any static charge on electronics field service technician and provides an ESD-Safe surface to lay parts
- Fits easily into most tool cases
- 2 pockets - 8" x 11" each
- Dimensions - 0.019" x 22" x 24"



8501

SCS Field Service Kits

Item	Description
8012JR	Field Service Kit, with 3048 Grounding System



8012JR

SCS Bench Ground Cords

Item	Description
3042	Wrist Strap Grounding System, 10' Cord
3048	Common Ground Cord Kit, 15', 10MM Male Snap

3042 - Wrist Strap Grounding System

- Two banana jacks provides two grounding points for wrist straps or carts
- Allows for easy attachment to electrical ground
- Mounts underneath the front edge of the workbench



3042

3048 - Common Ground Cord Kit

- Grounds two single conductor wrist straps
- Comes complete with ring connector and 15' ground cord
- Ground cord has one megohm resistor for mat connection only



3048

DESCO Common Point Grounds

Item	Description
09820	Ground Cord for For Workmat, 10MM Socket, No Resistor 3M Cord
09821	Ground Cord for For Workmat, 10MM Socket, with Resistor 3M Cord

- 10mm socket snap - compatible with mats that have a 10mm stud
- Two banana jacks - Provides two grounding points for wrist straps or carts
- Ring terminal at end of ground cord allows easy attachment to electrical ground
- Low profile reduces snagging of clothes and work instruments



09820

09821

DESCO Bench Mounts

Item	Description
09740	Mount for Two Wrist Straps, 4MM Stud, 3M Ground Wire

- Two Banana Jacks - Provides two grounding points for wrist straps or carts
- Ring terminal at end of ground cord - Allows easy attachments to electrical ground

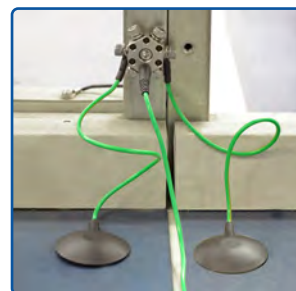


09740

DESCO Grounding Hub

Item	Description
09842	Multi-Ground Hub

- Brass Machined Hex Block with Six Banana Jacks and Six Screws for #8 Ring Terminals
- Grounding points for wrist straps, ground cords, tools and other items. Connect to other grounding hubs1 for additional grounding points.
- Mounting Hardware Included - Hand tighten or secure with locking screw and hex wrench.



09842

DESCO Banana Plug Adapters

Item	Description
09838	Ground Plug Adapter

- Banana Jack (0.162" - 0.164" ± 0.002" ID) Outlet Adapter
- Converts a standard outlet into a groundable point for wrist straps and other grounding hardware with banana plugs



09838



SMOCKS & BADGE HOLDERS

DESCO Statshield® Smocks - Jackets & Lab Coats with Knitted Cuffs

Jackets

Size	Blue
X-Small	73749
Small	73750
Medium	73755
Large	73760
X-Large	73765
2X-Large	73770
3X-Large	73771
4X-Large	73772
5X-Large	73773
6X-Large	73774

Lab Coats

Size	White	Blue
X-Small	73630	73610
Small	73631	73611
Medium	73632	73612
Large	73633	73613
X-Large	73634	73614
2X-Large	73635	73615
3X-Large	73636	73616
4X-Large	73637	73617
5X-Large	73638	73618
6X-Large	73639	73619

- Groundable Static Control Garment System Tested per ANSI/ESD S20.20-2014 ($R_{tg} < 3.5 \times 10^7$ ohms) Requirements, per ANSI/ESD STM2.1
- Allows operators and smock to be bonded or electrically connected to ground to prevent ESD events in ESD Protected Areas
- **Hip-To-Cuff grounding** - Grounds the operator with no need for a cord to be attached to the operator's wrist
- Minimum of 9% carbon conductive nylon fibers woven in chain-link design
- Creates Faraday Cage effect around torso and arms of operator
- Panel to panel conductivity
- 2-year/100 launderings limited warranty

Jackets



Lab Coats



DESCO Statshield® Smocks - Jackets with Snaps

Jackets

Size	Blue	White	Grey
X-Small	73699	73820	73890
Small	73700	73821	73891
Medium	73710	73822	73892
Large	73720	73823	73893
X-Large	73730	73824	73894
2X-Large	73740	73825	73895
3X-Large	73741	73826	73896
4X-Large	73742	73827	73897
5X-Large	73743	73828	73898
6X-Large	73744	N/A	N/A

Hip-To-Cuff Grounding



Snap Cuffs



73699



73821



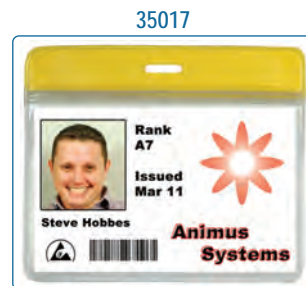
73890



MENDA ESD Badge Holders

Item	Description
35010	Vertical ESD Badge Holder with Clip, 68MM x 94MM OD
35011	Horizontal ESD Badge Holder with Clip, 98MM x 65MM OD
35012	Horizontal ESD Badge Holder with Clip, 108MM x 75MM OD
35013	Horizontal ESD Badge Holder with Clip, 110MM x 86MM OD
35014	Vertical ESD Badge Holder with Slot, 68MM x 111MM OD
35015	Horizontal ESD Badge Holder with Slot, 100MM x 78MM OD
35016	Vertical ESD Badge Holder with Zipper, 68MM x 107MM OD
35017	Horizontal ESD Badge Holder with Zipper, 102MM x 86MM OD
35193	ESD Arm Badge Holder, 51MM x 76MM, Black OD
35067	ESD Safe Vinyl Breakaway Lanyard, 686MM OD
34431	ESD Strap Clip, 73MM OD
34432	ESD Strap Clip, 89MM OD

- Ideal for use by electronic manufacturers working with ESD susceptible components
- R_{tt} : 1×10^{10} ohms
- Tribocharging: Less than 100 volts
- Includes inner anti-print, non-ESD vinyl liner which prevent ink transfer from your document to the document holder
- Made with a custom dissipative material made exclusively for Desco Industries and not available from anywhere else
- Custom sizes are available



ESD Badge Holders with Clip



35010



35011

ESD Badge Holders with Slot



35014



35015

ESD Badge Holders with Zipper



35016



35017

SEAT COVERS & GROUNDING CHAIN

DESCO Statshield® Dissipative Chair Cover

Item	Description
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07200	Statshield® Dissipative Chair Cover
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- Dissipative (1×10^6 to $< 1 \times 10^9$ ohms) carbon suffused mono-filament nylon
- Converts non-ESD chairs to low-charging, groundable chairs
- Washable polyester/cotton blend - Extends the lifespan of chairs by preventing dirt and contamination build up
- Chair back and seat connected to drag chain
- Allows chair to be grounded when on a conductive surface



07200



DESCO Clean Room Chair Cover

Item	Description
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07201	Dissipative Clean Room Chair Cover
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- Dissipative Class 100 clean room and higher chair covers
- Converts non-ESD chairs to ESD chairs in a Class 100 clean room or higher
- Dissipative ($< 1 \times 10^8$ ohms) Carbon grid micro-filament polyester
- Chair back and seat connected to drag chain
- Allows chair to be grounded when on a conductive surface
- Durable construction



07201



DESCO Conductive Drag Chain

Item	Description
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14000	Drag Chain, 1 Meg Resistor, 7MM Socket, 610MM Long
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- Includes 1 megohm resistor
- Easy to install
- 6" snap loop
- Drains charge to ESD protective flooring



14000

DESCO Alligator Clip

Item	Description
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09700	Alligator Clip with Banana Jack
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- All adapters designed to accept banana plug



09700



STATIC SHIELDING BAGS - BAGS & FILM ROLLS

SCS 1000 Series Metal-In Static Shielding Bags & Film

Bags without Zipper

Item	Size (W x L)
10023	51MM x 76MM
10024	51MM x 102MM
10026	51MM x 152MM
10035	75MM x 125MM
10037	75MM x 175MM
10044	102MM x 102MM
10046	102MM x 152MM
10048	102MM x 203MM
10056	125MM x 152MM
10058	125MM x 203MM
10068	152MM x 203MM
10069	152MM x 229MM
10078	178MM x 203MM
10088	203MM x 203MM

*Additional Sizes Available
up to 762MM x 1066.8MM

Bags with Zipper

Item	Size (W x L)
100424	102MM x 610MM
100426	102MM x 660MM
100510	125MM x 255MM
100610	125MM x 255MM
100612	152MM x 305MM
100626	152MM x 660MM
100714	178MM x 356MM
100810	203MM x 255MM
100812	203MM x 305MM
100912	229MM x 305MM
1001012	254MM x 305MM
1001014	255MM x 356MM
1001016	255MM x 405MM
1001018	255MM x 455MM

*Additional Sizes
Available up to
609.6MM x 609.6MM

Film Rolls

Item	Size (W x L)
1000R 48X300P	1219.2MM x 914M
1000R 36X3000	914MM x 914M
1000R 48X3000	1219.2MM x 914M
1000R 60X3000	1524MM x 914M

- Metal-In Film Laminate 0.0028" thick (2.8 mil) - Protects ESD sensitive contents from electrostatic fields and electrostatic discharges (ESD)
- Meets ANSI/ESD S20.20 and ANSI/ESD S541 requirements for ESD shielding packaging inside and outside an ESD Protected Area (EPA)
- Dissipative Inner and Outer Surfaces - Rs 1×10^4 to $< 1 \times 10^{11}$ ohms per ANSI/ESD STM11.11 and Static Control Bag ANSI/ESD S11.4 Level 3
- Allows bag to be used throughout ESD Protected Area and grounded when placed on a grounded surface or handled by a grounded
- Printed with ESD protective symbol and lot code information

No-Zip

Zip



SCS 1500 Series Metal-Out Static Shielding Bags

Bags without Zipper

Item	Size (W x L)
15023	51MM x 76MM
15024	51MM x 102MM
15033	76MM x 76MM
15036	76MM x 152MM
15038	76MM x 203MM
15046	102MM x 152MM
15048	102MM x 203MM
15056	125MM x 152MM
15058	125MM x 203MM
15066	152MM x 152MM
15067	152MM x 178MM
15068	152MM x 203MM
15088	203MM x 203MM
150422	102MM x 560MM

*Additional Sizes Available
up to 812.8MM x 838.2MM

Bags with Zipper

Item	Size (W x L)
150424	102MM x 610MM
150510	125MM x 255MM
150531	125MM x 785MM
150610	152MM x 255MM
150612	152MM x 305MM
150630	152MM x 762MM
150715	178MM x 380MM
150720	178MM x 508MM
150810	203MM x 255MM
150812	203MM x 305MM
150816	203MM x 405MM
150818	203MM x 455MM
150820	203MM x 508MM
150912	229MM x 305MM

Item	Size (W x L)
150Z33	76MM x 76MM
150Z35	76MM x 125MM
150Z44	102MM x 102MM
150Z46	102MM x 152MM
150Z53	125MM x 76MM
150Z58	125MM x 203MM
150Z68	152MM x 203MM
150Z610	152MM x 255MM
150Z810	203MM x 255MM
150Z812	203MM x 305MM
150Z1012	254MM x 305MM
150Z1215	305MM x 380MM
150Z1216	305MM x 405MM
150Z1218	305MM x 455MM

- Metal-Out bags required by some leading Hi-tech companies - Exterior surface Rs 1×10^4 to $< 1 \times 10^9$ ohms per ANSI/ESD STM11.11
- Metal-Out Shielding Laminate 0.003" thick (3 mil)
- Protects ESD sensitive contents from electrostatic fields and electrostatic discharges (ESD) outside the ESD Protected Area
- < 10 nJ Discharge Shielding Energy Penetration Test per ANSI/ESD STM 11.31
- 40% Light Transmission - Allows for identification of bag contents

No-Zip

Zip



DESCO Statfree® Ultra Clear Barrier Bags

Bags without Zipper

Item	Size
13871	102MM x 152MM
13872	127MM x 203MM
13873	203MM x 254MM
13874	254MM x 305MM
13876	305MM x 406MM
13877	305MM x 457MM
13878	76MM x 127MM

Bags with Zipper

Item	Size
13879	76MM x 127MM
13880	102MM x 152MM
13881	127MM x 203MM
13882	203MM x 254MM
13883	254MM x 305MM
13884	305MM x 406MM
13885	305MM x 457MM

- Clear Dissipative Polyester Film - Use for packaging of ESD sensitive item or non-ESD items in ESD protected area.
- Dissipative Inner and Outer Surfaces Rs 1×10^4 to $< 1 \times 10^{11}$ ohms per ANSI/ESD STM11.11 - Allows bag to be used throughout an ESD Protected Area without risking damage to ESD susceptible products.
- > 25 lb Puncture Strength Average per FTMS 101C/4046 with 3/8" Side Seals, Provides physical protection for contents.
- No Amines or N-octanoic Acid
- Printed with ESD Protective Symbol and Lot Code Information



MOISTURE BARRIER BAGS - BAGS & FILM ROLLS

SCS Dri-Shield® 2000 Series Moisture Barrier Bags & Film

Bags

Item	Size (W x L)
70035	75MM x 125MM
70046	102MM x 152MM
70058	125MM x 203MM
70068	152MM x 203MM
700610	152MM x 255MM
700624	152MM x 610MM
700630	152MM x 762MM
700810	203MM x 255MM
700812	203MM x 305MM
7001012	255MM x 305MM
7001020	255MM x 508MM
7001024	255MM x 610MM
7001216	305MM x 405MM
7001218	305MM x 455MM

*Additional Sizes Available up to 609.6MM x 762MM

Film Rolls

Item	Size (W x L)
2000R 36X6800	914.4MM x 2072.6M

- 0.0036" (3.6 mil) Thick Bag Film Laminate constructed from multiple layers of aluminized polyester and polyethylene
- Designed for moisture and electrostatic discharge (ESD) sensitive items (such as SMT). Meets ANSI/ESD S20.20, ANSI/ESD S541, EIA 541, JESD625-A, EIA 583
- ≤ 0.03 Grams Moisture Vapor Transmission Rate (MVTR)
- Designed for dry packaging of moisture sensitive devices and to protect contents from damage due to ESD events or EMI



SCS Dri-Shield® 3000 Series Moisture Barrier Bags - Nylon-Foil-PE

Bags

Item	Size (W x L)	Item	Size (W x L)
D3046	102MM x 152MM	D301620	405MM x 508MM
D3088	203MM x 203MM	D302024	508MM x 610MM
D30610	152MM x 255MM	D303230	810MM x 762MM
D30630	152MM x 762MM	D301624	405MM x 610MM
D30810	203MM x 255MM	D301226	305MM x 660MM
D301010	255MM x 255MM	D301824	457MM x 610MM
D301012	255MM x 305MM	D302424	610MM x 610MM
D301018	255MM x 455MM	D3085.5	203MM x 140MM
D301020	255MM x 508MM	D301218	305MM x 455MM
D301030	255MM x 762MM	D301220	305MM x 508MM
D301214	305MM x 356MM	D301618	405MM x 455MM



- 0.006" (6 mil) Thick Bag constructed from layers of nylon, foil, and polyethylene
- Designed for moisture and electrostatic discharge (ESD) sensitive items (such as SMT). Meets ANSI/ESD S20.20, ANSI/ESD S541, ANSI/ESD S11.4 Level 1, and IPC/JEDEC J-STD-033
- ≤ 0.0003 Grams Moisture Vapor Transmission Rate (MVTR)
- Nylon Reinforcement Layer - Ideal choice for packaging products with sharp corners. Strengthens bag structure to maintain performance per ASTM F392 flex testing.

SCS Dri-Shield® 3400 Series Moisture Barrier Bags - PET-Foil-PE

Bags without Zipper

Item	Size (W x L)
D343.55.5	89MM x 140MM
D341620	405MM x 508MM
D3466	152MM x 152MM
D34714	178MM x 356MM
D34816	203MM x 406MM
D3413.524	343MM x 610MM
D341719	432MM x 483MM
D342836	711MM x 914MM
D3444	102MM x 102MM
D34527	127MM x 686MM
D343.81255	97MM x 127MM

Bags with Zipper

Item	Size (W x L)
D34Z422	102MM x 560MM
D34Z1624	508MM x 610MM
D34Z68	152MM x 203MM
D34Z1012	255MM x 305MM
D34Z810	203MM x 255MM
D34Z35	75MM x 125MM
D34Z46	102MM x 152MM
D34Z912	229MM x 305MM
D34Z1018	255MM x 455MM
D34Z1020	255MM x 508MM
D34Z10.2511.25	260MM x 286MM

*Additional Sizes Available

*Additional Sizes Available

- 0.004" (4 mil) Thick Bag constructed from layers of polyester, foil, and polyethylene
- ≤ 0.0003 Grams Moisture Vapor Transmission Rate (MVTR)
- Protects contents from ESD charges and discharges. Meets the requirements for discharge shielding per Static Control Bag ANSI/ESD S11.4 Level 1
- >20lb Puncture Strength Average

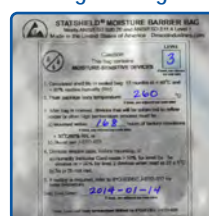


DESCO Statshield® Foil Moisture Barrier Bags 4.0 Mil - PET-Foil-PE

Item	Size
13960	254MM x 508MM
13961	254MM x 762MM
13962	305MM x 508MM
13963	356MM x 406MM
13964	406MM x 457MM
13965	457MM x 508MM

- **NEW** IPC/JEDEC J-STD-033B Moisture Sensitive Caution Label Printed on Foil Moisture Barrier Bag - Identifies moisture sensitive devices for levels 2, 2A, 3, 4, 5, and 5A as defined by J-STD-020. Does not require additional labelling
- Film laminate metal layered 0.0040" (4 mil) Thick Moisture Barrier Bag
- Designed for electrostatic discharge (ESD) shielding protection when dry packaging components. Meets ANSI/ESD S20.20, ANSI/ESD S541, and ANSI/ESD S11.4 Level 1
- Insulative Nylon Reinforcement Layer - Strengthens bag structure to maintain performance per ASTM F392 flex testing and meets the ANSI/ESD S541 requirement as a barrier to current flow

Bag Markings



Sealed Bag



DESICCANT & HIC CARDS

SCS Humidity Indicator Cards

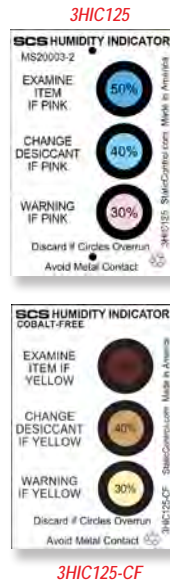
Item	Description
3HIC125	Humidity Card, 3-Spot, 125/Can
4HIC100	Humidity Card, 4-Spot, 125/Can
51015HIC125	Humidity Card, 5-10-15%, 125/Can
51060HIC125	Humidity Card, 5-10-60%, 125/Can
6HIC200	Humidity Card, 6-Spot, 200/Can
3HIC125-CF	Cobalt-Free Humidity Card, 30-40-50%, 125/Can
51015HIC125-CF	Cobalt-Free Humidity Card, 5-10-15%, 125/Can
51060HIC125-CF	Cobalt-Free Humidity Card, 5-10-60%, 125/Can
6HIC200-CF	Cobalt-Free Humidity Card, 10-20-30-40-50-60%, 200/Can

Humidity Indicator Cards

- Measures the level of relative humidity that the contents of the packaging have been exposed to
- Complies with MS 200003-2, and MIL-P-116

NEW Cobalt-Free Humidity Indicator Cards

- Indicator spots change from brown (dry) to yellow (humid)
- Free of Cobalt, a chemical that has classification and labeling requirements under the European Chemical Agency (ECHA) REACH directives



DESCO Humidity Indicator Cards

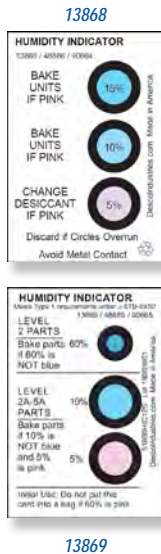
Item	Description
13868	Cobalt Dichloride Free HIC Card, 5-10-15%, 125/Can
13869	HIC Card, 5-10-60%, 125/Can
13870	Reversible HIC Card, 10-20-30-40%, 125/Can

Cobalt Dichloride Free Humidity Indicator Cards

- Does not contain chemicals identified as a substance of high concern by European Chemical Agency (ECHA) REACH directives
- Measures the level of relative humidity that the contents of the packaging have been exposed to
- Humidity Indicator Spots are Reversible
- Card can be reused providing better value

Humidity Indicator Cards

- Cards can be shipped with RoHS compliant products
- Use desiccant to provide protection for moisture sensitive items such as surface mount devices



SCS Desiccant Packs

Item	Description
1/6PLDES1200	Desiccant in Tyvek® Pouch, 1/6 Unit, 1200/Pail

Desiccant Packs

- Use Desiccant Pack in Moisture Barrier Bags to absorb moisture
- Provides protection for moisture sensitive electronics (such as SMT - Surface Mount Technology); Best practice is to use with a Humidity Indicator Card
- Desiccant is secured in strong, sulphur-free non-woven plastic pouches
- Can be baked and re-used
- Non-hazardous substances



DESCO Desiccant Packs

Item	Description
13840	Desiccant Pak, 1/2 Unit, 38.1MM x 76.2MM, Box of 700
13850	Desiccant Pak, 1/2 Unit, 38.1MM x 76.2MM, Pail of 550

- Use dessicant pack in Moisture Barrier Bags to absorb moisture
- Reusable - Desiccant packs can be reactivated by oven drying



SCS Labels

Item	Description
113LABEL	IPC/JEDEC J-STD-020 Label, 102MM x 102MM, 100/Roll
129LABEL	Attention Label, RS-471, 51MM x 51MM, 500/Roll
7101	Reusable Caution Label, RS-471, 46MM x 64MM, 500/Roll
7102	Destructible Caution Label, RS-471, 46MM x 64MM, 500/Roll
ALABEL	MIL-STD-129N Label, 48MM x 64MM, 500/Roll
ALABEL5/8X2	Attention Label, RS-471, 16MM x 51MM, 1000/Roll

113LABEL - IPC/JEDEC J-STD-020 Label

- Used on Foil Moisture Barrier Bags to identify moisture sensitive devices for levels 2, 2A, 3, 4, and 5A as defined by J-STD-020

129LABEL - MIL-STD-129N Label

- Displays warning symbol and message in strict accordance with the new Military standard.

7101 - Reusable Caution Label, RS-471

- Reusable, black printing on orange background. This JEDEC-14 label displays the reaching hand symbol and provides writing space

7102 - Destructible Caution Label, RS-471

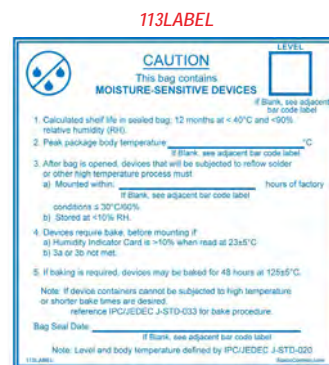
- Destructible, black printing on yellow background. This JEDEC-14 label displays the reaching hand symbol and provides writing space

ALABEL - Attention Label, RS-471

- ESD Warning Label JEDEC/EIA

ALABEL5/8X2 - Attention Label, RS-471

- ESD Warning Label JEDEC/EIA



DESCO Wescorp Clear ESD Cellulose Tape with Plastic Cores

Item	Description
79200	Clear Tape, 12MM x 32.9M, 25.4MM Plastic Core
79201	Clear Tape, 18MM x 32.9M, 25.4MM Plastic Core
79202	Clear Tape, 24MM x 32.9M, 25.4MM Plastic Core
79203	Clear Tape, 12MM x 65.8M, 76.2MM Plastic Core
79204	Clear Tape, 18MM x 65.8M, 76.2MM Plastic Core
79205	Clear Tape, 24MM x 65.8M, 76.2MM Plastic Core
79206	Clear Tape, 48MM x 65.8M, 76.2MM Plastic Core
79209	Clear Tape with ESD Symbols, 12MM x 65.8M, 76.2MM Plastic Core
79210	Clear Tape with ESD Symbols, 18MM x 65.8M, 76.2MM Plastic Core
79211	Clear Tape with ESD Symbols, 24MM x 65.8M, 76.2MM Plastic Core
79212	Clear Tape with ESD Symbols, 48MM x 65.8M, 76.2MM Plastic Core
79275	Clear Tape with ESD Symbols & Yellow Stripes, 12MM x 65.8M, 76.2MM Plastic Core
79276	Clear Tape with ESD Symbols & Yellow Stripes, 18MM x 65.8M, 76.2MM Plastic Core
79277	Clear Tape with ESD Symbols & Yellow Stripes, 24MM x 65.8M, 76.2MM Plastic Core
79278	Clear Tape with ESD Symbols & Yellow Stripes, 48MM x 65.8M, 76.2MM Plastic Core

- **Low Charging Transparent Cellulose Film (2.4 Mils Thick) with High-Tack Rubber Adhesive** - Generates less than 50 volts when unwound from roll (at 73°F, 45% RH Average) making it safe to use around most ESD sensitive items
- **Plastic Core** - Minimizes foreign objects debris, particulation, and other contaminations when used in clean or sensitive areas
- **Surface Resistance 1×10^8 to $< 1 \times 10^{11}$ ohms** - Tested per ANSI/ESD S11.11 to meet dissipative limits of packaging standard ANSI/ESD S541

DESCO Wescorp ESD Conductive Grid Tape

Item	Description
81250	Shielding Grid Tape, 12MM x 36M Paper Core
81251	Shielding Grid Tape, 18MM x 36M Paper Core
81252	Shielding Grid Tape, 24MM x 36M Paper Core
81253	Shielding Grid Tape, 48MM x 36M Paper Core

- **Low Charging Transparent Cellulose Film (2.4 Mils Thick) with High-Tack Rubber Adhesive**
- **Conductive Shielding Layer ($< 1 \times 10$) Marked with ESD Symbols (MIL STD 1285 and ESDA)** - For use in creating a Faraday Cage to provide static shielding of an ESD sensitive item
- **Temperature Range 10°C - 71°C (14°F - 140°F)**

DESCO Wescorp ESD High-Temp Masking Temp

Item	Description
81260	Masking Tape, 12MM x 54.8M Paper Core
81261	Masking Tape, 18MM x 54.8M Paper Core
81262	Masking Tape, 24MM x 54.8M Paper Core

- **Low Charging Crepe Paper (7.0 Mils Thick) with High-Tack Rubber Adhesive**
- **Temperature Resistance to a Maximum of 135°C (275°F) for 45 minutes**
- **Surface Resistance 1×10^8 to $< 1 \times 10^{12}$ ohms** - Tested per ANSI/ESD S11.11 to meet dissipative limits of packaging standard ANSI/ESD S541

DESCO Wescorp ESD High-Temp Polyimide Tape

Item	Description
81270	Polyimide Tape, 6MM x 32.9M Paper Core
81271	Polyimide Tape, 12MM x 32.9M Paper Core
81272	Polyimide Tape, 18MM x 32.9M Paper Core
81273	Polyimide Tape, 24MM x 32.9M Paper Core

- **Low Charging Polyimide Film (2.4 Mils Thick) with Polysiloxide Adhesive**
- **Temperature Resistance to a Maximum of 572°C (300°F) for 10 Second Max** - May be exposed to high temperatures for wave soldering and other applications without leaving residue when removed
- **Surface Resistance 1×10^8 to $< 1 \times 10^{12}$ ohms** - Tested per ANSI/ESD S11.11 to meet dissipative limits of packaging standard ANSI/ESD S541

DESCO Labels

Item	Description
06711	Compliance Verification Label, Reusable, 38MM x 51MM, 1000/Roll
06712	Compliance Verification Label, Permanent, 38MM x 51MM, 1000/Roll
06713	ESD Protective Symbol Label, Permanent, 25MM x 25MM, 1000/Roll
06722	Attention Label, RS-471, 51MM x 51MM, 500/Roll
06727	Attention Label, MIL 129N, 51MM x 51MM, 500/Roll
06730	Attention Label, Reusable, MIL 129N, 51MM x 51MM, 500/Roll
06731	Class 0A Label, Permanent Adhesive, 51MM x 51MM, 500/Roll
06736	Moisture Barrier Bag Label, IPC/JEDEC J-STD 020, 83MM x 95MM, 100/Roll
06770	Equipment Containing ESDS Label, 19MM x 51MM, 500/Roll

06711 - Reusable Compliance Verification Label

- Identifies that the labeled item has been tested to be used as part of an ESD Control Plan
- Reusable Adhesive - Non-binding adhesive will allow the label to be removed and not leave a residue



06712 - Permanent Compliance Verification Label

- Identifies that the labeled item has been tested to be used as part of an ESD Control Plan
- Permanent Adhesive - For one-time use when the label will remain intact and never be removed



06713 - Permanent ESD Protective Symbol Label

- Identifies that the labeled item is ESD Protected
- Permanent Adhesive - For one-time use when the label will remain intact and never be removed



TOOLS & BRUSHES

MENDA Conductive & Dissipative Nylon Brushes

ESD Brushes are ideal for removing dust, dirt, and foreign object debris from printed circuit boards (PCB) and other static sensitive components. Allows thorough cleaning of ESD sensitive assemblies without the danger of high charges generated by conventional brushes when held by grounded personnel.

Item	Description
35686	Dissipative Flat Nylon Brush, 25MM x 149MM
35687	Dissipative Flat Nylon Brush, 51MM x 159MM
35688	Dissipative Long Nylon Brush, 30MM x 152MM
35689	Dissipative Curved Nylon Brush, 76MM x 102MM
35690	Conductive Round Brush, Firm, 6MM x 6MM
35691	Conductive Long Handle Brush, Firm, 25MM x 20MM x 15MM
35692	Conductive Long Handle Brush, Firm, 50MM x 20MM x 15MM
35693	Conductive Flat Nylon Brush, Firm, 50MM x 6MM x 14MM
35694	Conductive Flat Handle Brush, Semi-Firm, 13MM x 19MM x 10MM
35695	Conductive Curved Handle Nylon Brush, Firm, 76MM x 20MM x 38MM

*Additional Sizes Available

Dissipative Brushes

- Highly resilient, durable and abrasion resistant
- Yellow bristles are highly identifiable to avoid FOD (foreign object debris)

Conductive Brushes

- Conductive nylon-based copper bristles with hog hair and two other natural fibers
- Firm bristles are mainly for electronics, especially on circuit boards used for removing solder and/or rework debris

Dissipative Brushes



Conductive Brushes

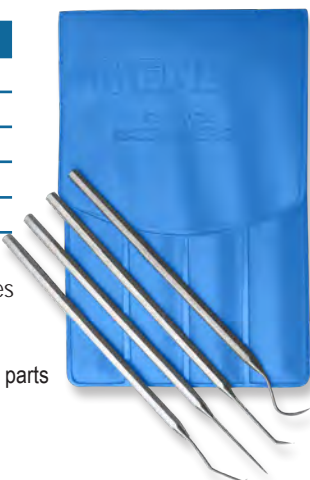


MENDA Probes & Spudgers

Stainless Steel Probes

Item	Description
35122	Straight Probe, 140MM
35123	Hooked Probe, 140MM
35617	Angled Probe, 140MM
35623	Curved Probe, 140MM
35630	Probe Kit with Four Tools and Pouch

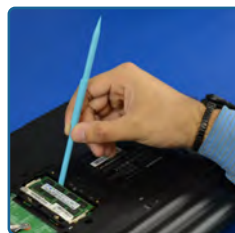
- Ergonomic hex handle
- Non-magnetic, conductive 300 Series Stainless Steel
- Stainless Steel won't corrode - no problem in working with magnetized parts



Nylon / Wood Probes

Item	Description
35616	Wood Orangestick Probe, 178MM, 100/PK
35618	Nylon Screwdriver Point Probe, 178MM, Blue
35619	Nylon Fork Blade Point Probe, 178MM Black
35621	Nylon Spudger Probe, 140MM, Black
35622	Nylon Point Blade Probe, 150MM, Black

- Ideal for opening plastic cases such as MP3 players, cell phones, laptops, and more
- Wood/Nylon finish will not mark delicate surfaces
- Ideal material for use in ESD Protected Areas
- Temperature resistant



35616 35618 35619 35621 35622



MENDA Hand Tools

Item	Description
35175	Hand Sleeve Cutter
35250	Wire Harness Threader

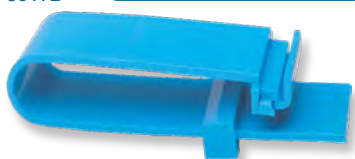
35175 - Hand Sleeve Cutter

- Adjustable stop: Allows cutting of sleeving to specified lengths
- Ruler on side: Helps to gauge cut length
- Constructed of Polystyrene

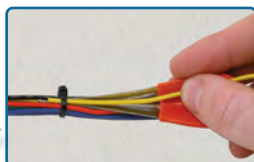
35250 - Harnessing Wire Threader

- Designed for threading wires into an already tied harness
- 300 series stainless steel construction

35172



35250



MENDA durAstatic® Tool Box

Item	Description
35870	durAstatic® Tool Box with Tray, 370MM x 190MM x 135MM

35870 - durAstatic® Tool Box with Tray

- Static dissipative
- Made of polypropylene
- Includes inner lift-out tray for added storage
- Clean, no surface coating to rub off, washable

35870



Tools Not Included

TRONEX

Below shown are our most popular cutters, visit our website or speak with a rep to learn more about the many other cutter options to meet your specific cutting application.

Cutters

Precision Cutters are ESD Safe and Lead-Free and include cushion grips and steel leaf springs. Cutters are available with two different handle lengths. Made with a bearing ring lap joint for smooth function and induction hardened cutting edges. Head shapes include Oval, Tapered, Angled, Standoff, and Tip Cutters. Fine Hard Wire Cutters used in medical device manufacturing can cut Nitinol, stainless steel and other fine hard wire materials.

Oval Head Cutters

- Excellent general purpose cutters

Medium Oval Flush



5112

Miniature Taper Relief Razor Flush



5423

Specialty Cutters

- Cutters with steep angles and small tips to access difficult to reach areas

Sub-Miniature Razor Flush



5071

Class T Hard Wire Cutters

- Made from Carbon Steel with solid Tungsten Carbide material silver brazed into the cutter jaw

Standard Oval Flush T-Cutter



5112T

Class W Hard Wire Cutters

- Made entirely from a super tungsten alloy. W cutters are for ultra fine hard wire when access into tight areas is needed

Tungsten Alloy Body Miniature Oval Flush



5312W

Large Oval Razor Flush



5513

Medium Taper Relief Razor Flush



5223

50 Degree Taper Flush



5004

Standard Taper Flush T-Cutter



5212T

Tungsten Alloy Body 50 Degree Thin Flush



5084W

Pliers

- Precision Pliers are ESD Safe and Lead-Free
- Cushion grips and steel leaf springs with handles available in two sizes
- Made with a bearing ring lap joint for smooth function
- Over 15 styles including Chain Nose, Round Nose, Needle Nose, and Bent Nose

Below shown are our most popular pliers.

Chain Nose



P511

Round Nose



P531

Needle Nose



P521

Flat Nose



P541

Bent Nose



P551

Tweezers

- Precision tweezers, most made in Switzerland
 - Tweezers types include ESD Safe, Cutting, Stainless Steel, Non Marring, Mini and more
- Below shown are our most popular tweezers.

Precision Stainless Steel



00D-SA-CH

Plastic



P2A-STD

Replaceable Tip



1304B-SA-STD-CH

Mini



M2A-SA-CH

Cutting



15AGW-CH

Wafer Handling



T5508W-SA-STD-CH

EasyBraid

One Step

Desoldering Braid

- Easily remove solder from components or pads on a circuit board
- Concentrated fine copper braiding utilizes less length of wick for each desoldering application
- Made of clean, oxide-free copper wire and tight weave enables quick "on and off" desoldering



Item	Description
OS-A-5AS	One Step, 0.64MM x 1.5M, Antistatic, 25/PK
OS-B-5AS	One Step, 1.3MM x 1.5M, Antistatic, 25/PK
OS-C-5AS	One Step, 1.9MM x 1.5M, Antistatic, 25/PK
OS-D-5AS	One Step, 2.4MM x 1.5M, Antistatic, 25/PK
OS-E-5AS	One Step, 3MM x 1.5M, Antistatic, 25/PK

*Available in 10 ft, 25 ft, 100 ft Complete product listing available at DescoAsia.com



LIQUID DISPENSERS

MENDA durAstatic® Dissipative HDPE Dispensers

Item	Description	Color
35267	Pure-Touch Pump, 180mL	Yellow
35268	Pure-Take Locking Pump, 180mL	Yellow
35270	One-Touch Pump, 180mL	Orange
35273	One-Touch Pump, 180mL	Green
35276	One-Touch Pump, 180mL	Yellow
35282	One-Touch Pump, 120mL	Blue
35283	One-Touch Pump, 180mL	Blue
35284	One-Touch Pump, 240mL	Blue
35285	Pure-Touch Pump, 180mL	Blue
35286	Pure-Take Locking Pump, 180mL	Blue
35287	Take-Along Locking Pump, 180mL	Blue

- HDPE durAstatic® bottles are dissipative and are designed to protect your valuable static sensitive printed circuitry
- No migratory additives
- Embossed with ESD Protective Symbol
- Custom Printing Available!

MENDA Hazard Communication Safety (HCS) Dissipative HDPE Dispensers



Item	Description	Color
35730	Bottle with One-Touch Pump, Acetone Print, 180mL	Blue
35731	Bottle Only, Acetone Print, 180mL	Blue
35732	Bottle Only, Acetone Print, 180mL	Green
35733	Bottle Only, Acetone Print, 180mL	Yellow
35734	Bottle Only, Acetone Print, 180mL	Orange
35735	Bottle with One-Touch Pump, IPA Print, 180mL	Blue
35736	Bottle Only, IPA Print, 180mL	Blue
35737	Bottle Only, IPA Print, 180mL	Green
35738	Bottle Only, IPA Print, 180mL	Yellow
35739	Bottle Only, IPA Print, 180mL	Orange

- HDPE durAstatic® bottles are dissipative and are designed to protect your valuable static sensitive printed circuitry
- Right-to-Know (RTK) labels inform employees of chemical hazards as required by OSHA's Federal Hazard Communication Standard 29 CFR 1910.1200



MENDA Natural HDPE Liquid Dispensers

Item	Description
35304	One-Touch Pump, 60mL
35305	One-Touch Pump, 120mL
35309	One-Touch Pump, 180mL
35312	One-Touch Pump, 240mL
35505	Pure-Touch Pump, 120mL
35508	Pure-Touch Pump, 180mL
35510	Pure-Touch Pump, 240mL
35701	Take-Along Locking Pump, 60mL
35702	Take-Along Locking Pump, 120mL
35703	Take-Along Locking Pump, 180mL

- High density polyethylene suitable for many solvents
- Square shape provides stability and saves storage space
- Wide opening that is easy to fill
- Translucent - allows for easy viewing of contents
- Custom Printing Available!



MENDA durAstatic® Dissipative Flux Dispensers



Item	Description	Color
35598	Dispenser with 18, 20, 26 GA Needles	Blue
35599	Dispenser with 18, 20, 26 GA Needles	Yellow

- Low Density Polyethylene (LDPE) durAstatic® liquid dispensing flux bottles with needle tips are safe to use around static sensitive components
- ESD properties are embedded into the bottle and conductive cap for longer product life
- Embossed with ESD Protective Symbol
- Custom Printing Available!



MENDA Amber Glass Bottles with Stainless Steel Pumps

Item	Description
35112	Bottle with Pure-Touch Pump, 120mL
35315	Bottle with One-Touch Pump, 120mL

- Dark bottle protects light and plastic sensitive fluids
- Constructed of glass allows storage of fluids not compatible with plastic
- Translucent - Allows easy viewing of contents



MENDA White Pump with Twist Locking Dispensers

Item	Description
35211	Round HDPE Pump, 120mL
35215	Euro-Style HDPE Pump, 240mL

- Twist-Lock Pump can be locked with just a twist - suitable for leak free travel
- High Quality Polypropylene pump - durable and lightweight



MENDA Lasting Touch Dispensers

Item	Description
35601	Brown Round HDPE Alcohol Bottle, 240mL
35602	Brown Round HDPE Bottle, 240mL
35603	White Round HDPE Bottle, No Printing, 240mL

- High density polyethylene
- Suitable for many solvents
- Natural style bottle allows for easy viewing of fluid
- Lasting-touch lid is perfect for alcohol dispensing



SCS Vacuums

Item	Description
497AJN	Electronic Service Vacuum, 120VAC
497AJX	Forensic Vacuum, 120VAC
497ABG	Electronic Service Vacuum, 220VAC
497ABG-NO	Electronic Service Vacuum without Cord, 220VAC

- ESD Safe
- Designed for small particle collection
- Ideal for removing toner and dust or cleaning data processing equipment
- Portable, quick setup
- Detachable power cord for easy storage



MENDA Hepa Vac

Item	Description
35852	High Performance Hepa Vac, 120VAC
35855	Replacement Filter for Hepa Vac, 0.3 Micron
35857	High Performance Hepa Vac with Case and Filter, 120VAC

- ESD Protected vacuum with 120 VAC high performance motor
- 99.97% efficient @ .3 micron HEPA filtration; for lead, glass, pollens, soot, etc.
- ESD protected utensils include: hose, gooseneck, crevice tool, crevice attachment brush, round brushes
- Great for field service applications
- ESD safe for cleaning debris from surface mount, pick and place, board routers / handlers and other equipment in your ESD Protective Areas



MENDA ESD Blow Vac

Item	Description
35840	ESD Blow Vac, 120VAC
35841	ESD Blow Vac with Adjustable Air Flow, 120VAC
35843	ESD Blow Vac with Adjustable Air Flow, 220VAC

- This dual function field service Blow Vac removes dust and debris from surface mount, pick and place, board routers and handlers in your ESD Protected Areas. Other applications include telecom, office automation, labs, medical and electronic production - any area requiring the use of ESD Protective products. The Blow Vac is completely ESD Safe
- Dissipative housing
- Dissipative attachments / accessories
- Durable compact design
- Advanced 5-Stage filtration system
- Particle retention down to 0.3 micron



Scorpion Rework System

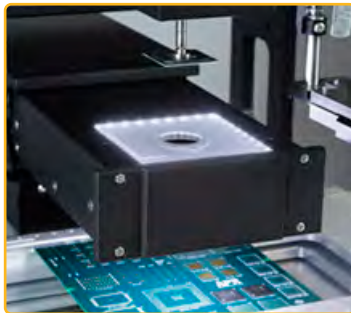
The Scorpion Rework System removes, places, and solders miniature components and bottom terminated surface mounted devices such as BGA, CGA, and QFN.



Item	Description
APR-1200-SRS	Scorpion Rework System, with Manual Placement Head
APR-1200A-SRS	Scorpion Rework System, with Motorized Placement Head
670050	Scorpion XL Rework System, with Manual Placement Head
670051	Scorpion XL Rework System, with Motorized Placement Head

Hardware Features

- 2800W dual-zone pre-heater and 550W reflow heater with variable airflow
- Self-contained solution without the need for an external PC or air supply
- 200-240 VAC, 50/60 Hz, 15 A single-phase input



SmartPlace Vision System

- Dual camera assembly for improved optical alignment
- Diffused LED lighting for shadow-free component alignment
- High definition zoom levels for optimal clarity



Software Features

- On-the-fly thermal profile management minimizes setup time
- Real-time graphical display of solder joint and heater temperatures
- Multi-privilege user levels with password protection
- 12 different language settings for worldwide operator flexibility

Scarab Site Cleaning System

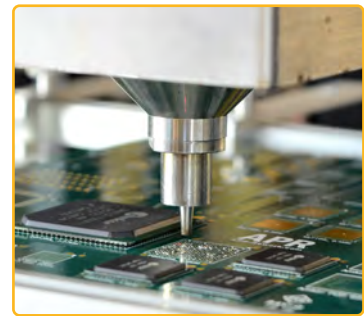
The Scarab Site Cleaning System ensures accurate and repeatable cleaning of the component pad in one user friendly, single system. The Scarab Site Cleaning System cleans circuit board component pads autonomously and without contact.



Item	Description
APR-2000-SCS	Scarab Site Cleaning System

Hardware Features

- 2800W dual-zone pre-heater and 550W reflow heater with variable airflow
- Self-contained solution without the need for an external PC or air supply
- 200-240 VAC, 50/60 Hz, 15 A single-phase input



Operation Features

- Cleans component pads without contact and eliminates the risk of PCB damage when using hand tools
- Precision laser height sensor automatically adjusts the Z-axis for consistent operation over the solder removal area

Software Features

- On-the-fly thermal profile management minimizes setup time
- Real-time graphical display of solder joint and heater temperatures
- Internal storage of profile data with expansion and transfer via USB flash drive



Scorpion Tooling & Accessories

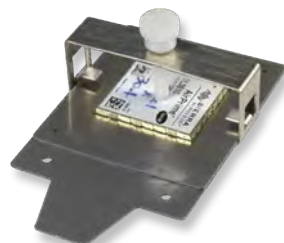
Reflow Nozzles

- Reflow nozzles enclose and reflow targeted components without effecting nearby parts
- Reflow nozzles with bimetallic tweezers bend inward when warmed and grab components that cannot be picked by vacuum suction such as sockets and PoP assemblies



Stencils

- Component-print stencils apply solder paste directly onto the component's pads for placement back onto the PCB



Customs are made
in only 2 WEEKS!

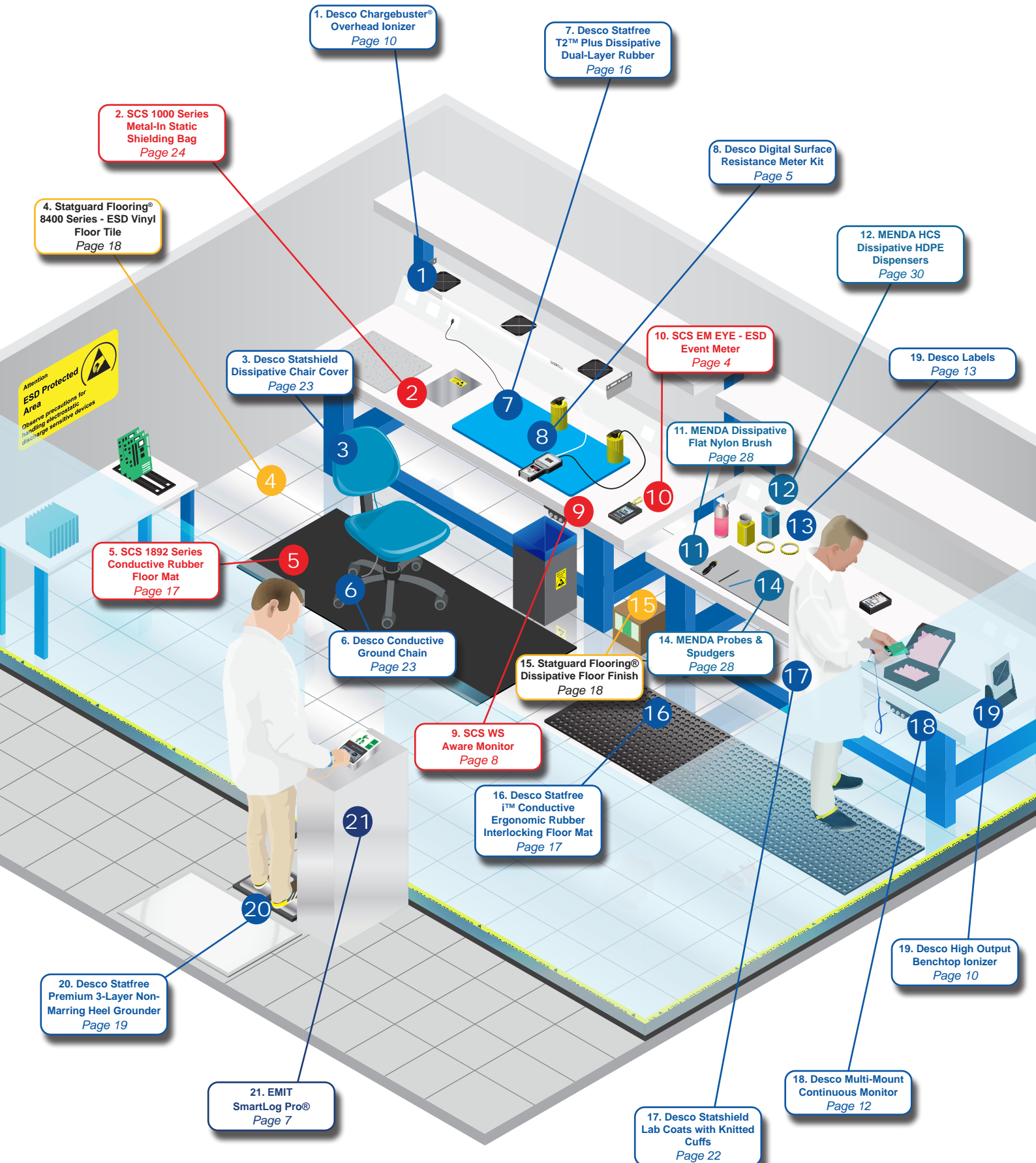
Solder Pot with Porcelain Crucible

Item	Description
670030	Solder Pot with Porcelain Crucible, 120VAC

- General purpose Solder Pot with 260° to 524°C range
- Tins, pre-tins, and solders items such as stranded wire, electrical components, and circuit boards
- Thermal switch with $\pm 6^\circ\text{C}$ temperature control maintains temperatures with minimal variance
- 64 mm diameter x 38 mm deep porcelain coated crucible with 907g capacity extends service life



ESD WORKSTATION



DESCO ASIA

DESCO ASIA • DESCO JAPAN

661-1 YACHIMATA-HO, YACHIMATA-SHI,
CHIBA-KEN 289-1115 JAPAN • Phone: +81 43-309-4470
Service@DescoAsia.com • DescoAsia.com

PM-100J 3/21
DESCO INDUSTRIES INC.