DESCO EUROPE

The Specialists in ESD Protection

Made in the United States of America

Made in the United Kingdom

DESCO EUROPE

Desco Europe is a young brand in the DESCO INDUSTRIES INC family, formed in 2017 as we consolidated our two previous UK-based brands, Charleswater and Vermason:

• Charleswater, originally located in W. Newton, MA, was acquired in 1990. After several years of offering both Desco and Charleswater products in the US, Charleswater was set up to be the leading brand in the UK with the acquisition of Conductive Products in 1998.

• Vermason was a manufacturer of ESD protection products and was founded in Letchworth in 1979. In April 2007 DESCO INDUSTRIES acquired 100% of the shares of Vermason Ltd. With this acquisition Vermason became a division of DESCO INDUSTRIES.

Today, as Desco Europe, we retain our manufacturing capability in Letchworth, Hertfordshire, with sales and administration being split between Letchworth and our Crowborough, East Sussex office. Desco Europe is a wholly owned subsidiary of DESCO INDUSTRIES, an American corporation based in California.
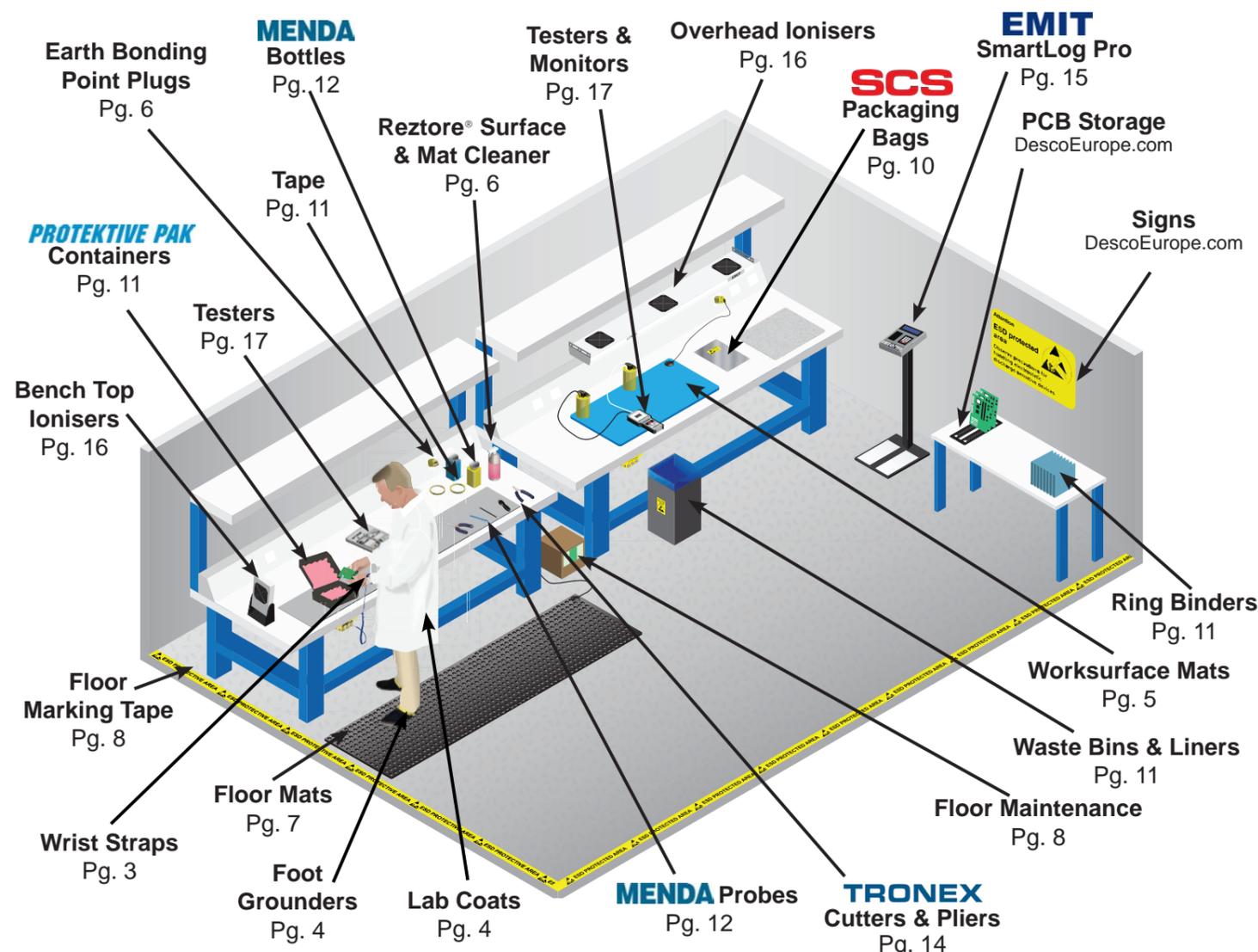
Desco Europe sells the full range of DESCO INDUSTRIES products, manufactured in our facilities in the USA and UK, servicing the European market via trained distributors who sell the Desco Europe value package and complete ESD solution to all ESD users in their territory, leading with hi-end solutions that mark us out from the competition. Desco Europe's UK-based inventory, coupled with that of our distributors, means that we are in a unique position to support our customers across Europe no matter what their needs.

Use Desco Europe static control products to optimise your ESD Control programme and to improve quality and output. Desco Europe and DESCO INDUSTRIES have over 40 years of experience and expertise in the theory and practice of controlling electrostatic energy in the electronics production context. The organisation is happy to pass this knowledge on to its distributors and customers.

The company maintains an extensive library of technical standards and literature, and all the products are supported by technical bulletins and drawings where appropriate. Desco Europe ESD control products are approved by and supplied to most of the leading electronics manufacturers in Europe and the rest of the world.

Please take the time to visit our website at DescoEurope.com where you will find further information on our company, including our on-line catalogue which details our entire product range.

For Limited Warranty, Warranty Exclusions, Limit of Liability and RMA Request Instructions please see Desco Europe's Warranty.

Single-Wire Adjustable Elastic Wrist Straps

- *Meets IEC 61340-5-1, tested per ANSI/ESD S1.1*
- *No metal on skin contact, no skin allergies*
- *Widely adjustable, elasticated fabric band*

Item	Colour	Stud Size
229980	Light Blue	10 mm
229974	Red	4 mm
229984	Yellow	10 mm
229970	Dark Blue	4 mm

Coiled Cords

- *Conductor is high strength 7-end duplex tinsel for strength and flexibility*
- *Dielectric strength: cords withstand 1250 volts DC for at least one minute*

Item	Terminations	Cord Length
230130	10 mm / 10 mm	1 m
230170	4 mm / 4 mm Plug	2 m
230270	10 mm / 4 mm	2 m

Featured Product

Dual-Wire MagSnap 360™ Metal Wrist Straps

To see the full range of wrist straps visit DescoEurope.com

Item	Size
19900	Small
19901	Medium
19902	Large

- *Meets IEC 61340-5-1, tested per ANSI/ESD S1.1*
- *360° rotation between wristband and coiled cord; designed to promote comfort, freedom of motion, and reduce strain on the operator's wrist*
- *Magnetic connection between wristband and coiled cord; creates a superior electrical connection to eliminate intermittent failures in traditional snap connections using springs*
- *Medical grade series stainless steel backplate and links; creates a more reliable path-to-ground for the operator and is ideal for use with low voltage style monitors*

Reztore® ESD Hand Lotion

To see the full range of Reztore® products visit DescoEurope.com

Item	Size
229630	235 ml

- *Improves reliability of path-to-ground when using wrist straps, ESD gloves, or ESD footwear*
- *Will not insulate skin like regular lotions*
- *Dissipative formulation creates a superior path to ground.*
- *Silicone-free - Non-contaminating and solder-safe; free of chemicals that may adversely affect solderability or cause corrosion of electronic components*
- *Contains Vitamins A, D, and E*
- *Enriched with aloe vera*
- *Mild peach scent*

Front Sole Grounder
- *Provides improved floor contact by covering the ball of the foot with conductive rubber*
- *Two D-Ring straps with hook and loop, and back clasp provide comfortable and secure fit*

Item	Size
FSG1M-S	Small
FSG1M-M	Medium
FSG1M-L	Large

Disposable Conductive Booties
- *Disposable conductive surgical style Booties are "one size fits all" with elastic opening*
- *Cleanroom compatible*

Item	Unit
52016	Box of 150

Three Layer Non-Marking Foot Grounder

- *Will not mark shoes or floors - reducing maintenance costs of touching up on floors*
- *Designed to satisfy footwear requirements of IEC 61340-5-1*
- *Top-of-the-line, extra wide bands of rubber*
- *Non-marking dissipative interior*
- *Date Coded for traceability*

Item	Resistor
17252	1 Megohm

Heel Grounder with Hook and Loop Straps

- *Economical model*
- *Double heel cup made of abrasion resistant neoprene*
- *Straps are hook and loop; hook is 10 cm long, loop is 36 cm*

Item	Resistor
248555	1 Megohm
248560	1 Megohm

To see the full range of foot grounders visit DescoEurope.com

ESD Lab Coats
- *Designed to satisfy groundable ESD Garment requirements of IEC 61340-5-1 per ANSI/ESD STM2.1*
- *2 side pockets and 1 breast pocket*
- *Cuffs with snap-fastener*
- *Tough and durable material*
- *Composition: polyester (63%), cotton (33%) and conductive fibres (4%)*
- *Creates Faraday Cage effect*
- *Label with ESD protective symbol on breast pocket*

Sizes	Lab Coat
Small	72151
Medium	72152
Large	72153
XLarge	72154

Featured Product

Statshield® Smocks
- *Designed to satisfy groundable ESD Garment requirements of IEC 61340-5-1 per ANSI/ESD STM2.1*
- *Hip-to-cuff grounding allows your coil cord to snap to the hip of the smock for hands-free grounding, increasing productivity*
- *Minimum of 9% carbon conductive nylon fibers woven in chain-link design*
- *Creates Faraday Cage effect*
- *Panel To Panel Conductivity*
- *Label with ESD protective symbol on breast pocket*

Sizes	Blue Smock	Black Smock
Small	221420	221431
Medium	221421	221432
Large	221422	221433
XLarge	221423	

3   Web: DescoEurope.com • Tel: +44 (0) 1462 672005 • E-mail: Service@DescoEurope.com   Address: 2A Dunhams Lane, Letchworth, Hertfordshire, SG6 1BE, United Kingdom

See our products being **Made in the United States of America** on our web site: DescoIndustries.com/Factories

See our products being **Made in the United Kingdom** on our web site: DescoIndustries.com/Factories

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Statfree® UC2 2-Layer Rubber

- Dissipative dual layer rubber material
- High strength nitrile rubber compound
- Dissipative (1×10^6 to <1×10^9 ohms Rtt) top colour layer
- Conductive (<1×10^4 Rtt) black bottom layer
- No detectable levels of silicone or DOP - normally suited for use in class 100 clean rooms

Item	Colour	Size
80108	Sky Blue	2 mm x 0.76 m x 12.2 m

Statfree® O 3-Layer Vinyl

- Dissipative three layer vinyl material
- Dissipative (1×10^6 to <1×10^9 ohms Rtt) top colour layer
- Conductive (<1×10^4 Rtt) black bottom layer

Item	Colour	Size
80530	Blue	9.5 mm x 0.6 m x 18.3 m
80532	Blue	9.5 mm x 0.9 m x 18.3 m

EVA Bench Matting & Shelf Lining

- Flexible, tough and fairly hard
- Offers excellent chemical resistance
- Mats supplied with four 10 mm studs
- Low cost

Item	Colour	Size
228290	Grey	1.5 mm x 1.2 m x 0.54 m

Featured Product

Statfree® T2 Plus Dissipative Dual Layer Rubber

- UV stabilisers ensure ESD performance over time and prevent physical deterioration
- Durable rubber material, dissipative on one side and conductive on the other
- Dissipative working surface, 1×10^6 to < 1×10^9 ohms Rp-p
- Lightly embossed surface

Item	Colour	Size
66400	Blue	1.5 mm x 0.6 m x 12.2 m
66404	Dark Blue	1.5 mm x 0.6 m x 12.2 m
66408	Grey	1.5 mm x 0.6 m x 12.2 m

To see the full range of work surface matting visit DescoEurope.com

ESD Turntable

- Allows operator to rotate (bidirectional) heavy, large, awkward assemblies on a bench top without manual handling of the product
- Pre-installed Statfree T2™ Dissipative dual layer rubber mat top (1×10^6 to < 1×10^9 ohms Rtg)
- 16 mm high profile
- Stainless steel construction
- 3 thumbscrew locks

Item	Size
237193	390 mm

Reztore® Alcohol-free Surface & Mat Cleaner

- Static dissipative solution: 1×10^6 to < 1×10^9 ohms
- Does not contain silicone

Item	Description	Litres
10446	Spray Bottle	0.95
10447	Spray Bottle, 4 pack	0.45
10448	Refill Box	9.5

Reztore® Antistatic Coating

- Static dissipative solution (1×10^6 ohms Rtt)
- Keeps triboelectric charges well below 200 volts
- Long lasting hard coat formula
- Removes contaminating particulate

Item	Description	Litres
229014	Spray Bottle, 12 pack	1
229015	Refill Box	10

To see the full range of grounding kits visit DescoEurope.com

Earth Bonding Point Plugs

- Designed to provide a common ground point for grounding using protective earth in an ESD protected area (EPA).

Item	Description	Stud
231200	Earth Bonding Point, UK Plug	3 x 10 mm
231225	Earth Bonding Point, UK Plug	1 x Binding Post
231135	Earth Bonding Point, European Plug	3 x 10 mm

Universal Snap Kit

- Snap is user installable
- Kit includes a 10 mm stud, 10 mm socket, long screw, short screw, and label

Item	Description
230646	Universal Snap Kit, 10 mm

Featured Product

Mat Grounding Cord

- Low profile conical design reduces change of accidental detachment
- Stud has threaded hole which allows ground cord to be bolted to mat; preventing cord from disconnecting
- 10 mm snap stud
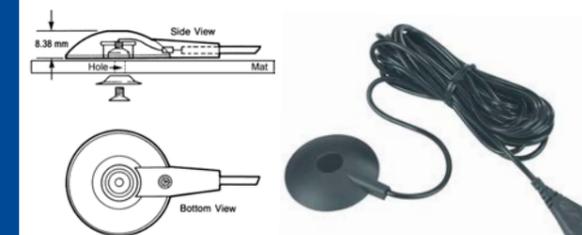
Item	Description
60488	10 mm stud to 10 mm socket, 1 Meg, 4.5 m
60474	10 mm stud to M5 ring terminal, 1 Meg, 4.5 m

FreeStyle 8400™ Interlocking Floor Tiles

Key Features
- Interlocks provide tile-to-tile electrical connection
- Quick installation eliminates downtime costs
- Tile can be easily cleaned and shine to a gloss while maintaining its electrical properties without the use of an ESD Floor Finish

Easy Installation
- No adhesive required
- Install over existing floors including concrete, wood, rubber, vinyl. composite tiles or other standard floors

Ideal Applications
- Static control
- Leased or rented space
- Access floors
- Problem Installations
- Renovations

To see the full range of FreeStyle 8400™ Interlocking Floor Tiles visit
DescoEurope.com

8400 Series Statguard® Vinyl Floor Tile

- Resiliant ESD high gloss, durable vinyl tiles
- Electrical resistance: $< 1 \times 10^9$ ohms
- Meets IEC 61340-5-1 flooring, tested per IEC 61340-4-1
- Available in a variety of colours

Item	Colour	Size
8427-36X3.2	Rev Black	3.2 mm x 914 mm x 914 mm

Contact us for a quote at
Service@DescoEurope.com

Copper Earthing Tape

- Used for grounding ESD matting, polishes and paint
- Self-adhesive, with release paper backing

Item	Size
210315	0.15 mm x 19 mm x 50 m

Statfree G2™ Conductive Rubber Mat

- Conductive homogeneous rubber floor mat material
- Rp 1×10^4 to 1×10^5 ohms resistance per IEC 61340-5-1
- Superior heat, chemical, and wear resistance

Item	Colour	Size
80109	Black	1.5 mm x 1.2 m x 2.4 m
80113	Black	1.5 mm x 1.2 m x 12.2 m

SCS AFM Dissipative Anti-Fatigue Rubber

- Dissipative viny construction
- Heavy embossed texture that is slip and soil resistant
- Beveled edges
- Meets IEC 61340-5-1 flooring, tested per IEC 61340-4-1

Item	Colour	Size
AFM36720L1VGR	Grey	9 mm x 0.9 m x 18.2 m

Statguard® Floor Cleaner

- Formulated with dissipative agents that rejuvenate and improve the properties of floor finish
- Cleans all types of hard ESD floors

Item	Litres
10557	9.5
10558	19

Statguard® Conductive Acrylic Latex Paint

- Meets IEC 61340-5-1 flooring tested per IEC 61340-4-1
- Easy to repair, touch up, and maintain
- Adheres to floor, walls, or wood furniture

Item	Colour	Litres
210221	Dark Grey	19

Statguard® Conductive Epoxy

- One coat system saves labour
- Two-part epoxy floor coating
- Epoxy is a tight cross-linking thermosetting epoxide polymer providing superior toughness and durability

Item	Colour	Litres
210225	Light Grey	15

Statguard® Dissipative Floor Finish

- Static dissipative zinc free floor finish that will convert non-ESD flooring to an ESD protective floor
- Easy to apply; 23% solids, improves productivity
- Produces beautiful, long lasting, durable finish, but easy to strip

Item	Description	Litres
10551	Statguard® Low-VOC Floor Finish	19

Statguard® Floor Stripper

- Non-ammoniated and phosphate-free
- Low pH formulation (pH 10.5)
- Strips floor finish from vinyl, VCT, concrete, rubber, terrazzo, quarry tile, brick, slate, and unglazed ceramic

Item	Litres
220523	10

Floor Tape and Packaging Tape

- Tough, durable floor tape
- Quick-stick adhesive

Item	Description	Size
210310	Floor Marking Tape, English	50 mm x 66 m
91350	Aisle Marking Tape, English	76 mm x 32.9 m

Pink AntiStatic Bags with Write-on Panels and Zipper

- For use with non-ESD sensitive items destined for use in an EPA
- Economical
- Made of polyethylene, 0.075 mm thick

Item	Size
203015	150 mm x 200 mm
203025	200 mm x 255 mm
203030	255 mm x 355 mm

Conductive Black Bags

- Low cost
- Heat sealable

Item	Size
203531	100 mm x 100 mm
203576	150 mm x 200 mm
203700	455 mm x 610 mm

Statfree® ESD Ultra Clear Bags

- Used for packaging of ESD sensitive item or non-ESD items in ESD protected area
- Can be used throughout an ESD Protected Area without risking damage to ESD susceptible products
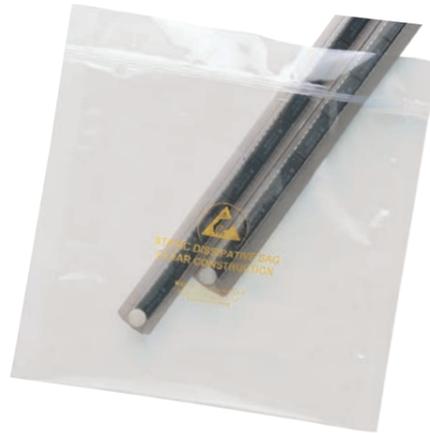
Item	Size
13871	102 mm x 152 mm
13876	305 mm x 406 mm
13880	102 mm x 152 mm, With Zip
13885	305 mm x 457 mm, With Zip

To see the full range of ESD Bags visit DescoEurope.com

Featured Product

Metal-In Shielding Bubble Bags

- Combines "Faraday Cage" and mechanical protection
- Shields as well as normal shielding bag of equivalent size
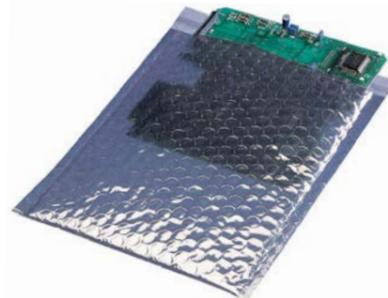
Item	Size
200510	100 mm x 150 mm, 25 mm Flap
200515	150 mm x 255 mm, 25 mm Flap
200535	305 mm x 405 mm, 50 mm Flap

1000 Series Metal-In Static Shielding Bags

- General use ESD shielding bag
- Exterior surface resistance: 1×10^4 to $< 1 \times 10^{11}$ ohms
- Thickness: 0.0028" (0.07 mm)
- Puncture resistance: 12 lbs

Item	Size
10035	76 mm x 127 mm
100812	203 mm x 305 mm

Dri-Shield® 2000 Series Moisture Barrier Bags

- Aluminium low barrier bags
- Cost effective
- Designed for moisture and ESD sensitive items
- Exterior surface resistance: 1×10^4 to $< 1 \times 10^{11}$ ohms
- Thickness: 0.0036" (0.09 mm)
- Puncture resistance: 20 lbs
- MVTR: ≤0.035 (gms / 100 in² / 24 hrs, 100°F)

Item	Size
7001618	406 mm x 457 mm
7001824	457 mm x 610 mm

Desiccant

- SCS Desiccant pouches absorb moisture that passes through the bag laminate
- Desiccant is packed inside white non-woven Tyvek® pouches, and is shipped in sealed pails
- Use with Moisture Barrier Bags and Humidity Indicator Cards

Item	Size
1/2PLDES550	1/2 Unit
1PLDES300	1 Unit

1500 Series Metal-Out Static Shielding Bags

- Low exterior static surface resistance
- Low charge retention
- Exterior surface resistance: 1×10^4 to $< 1 \times 10^6$ ohms
- Thickness: 0.0030" (0.08 mm)
- Puncture resistance: 10 lbs

Item	Size
150713	178 mm x 330 mm
150720	178 mm x 508 mm

## Dri-Shield® 3000 Series Moisture Barrier Bags

- Thick, durable bag
- Nylon reinforcement layer
- Exterior surface resistance: 1×10^4 to $< 1 \times 10^{11}$ ohms
- Thickness: 0.006" (0.15mm)
- Puncture resistance: 16 lbs
- MVTR: ≤0.0003 (gms / 100 in² / 24 hrs, 100°F)

Item	Size
D301012	255 mm x 305 mm
D301618	405 mm x 455 mm

Featured Product

Humidity Indicator Cards

- New Cobalt-free Humidity Indicator Cards
- Measures the level of relative humidity that the contents of the packaging have been exposed to
- SCS Humidity Indicator Cards (HIC) are printed with moisture sensitive spots which change colour from brown to yellow when exposed to a relative humidity level
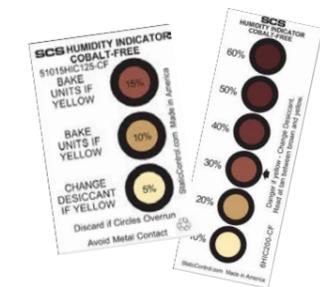
Item	Description
51060HIC125-CF	3-Spot, 5-10-60%
6HIC200-CF	6-Spot

Featured Product

Wescorp Antistatic Cellulose Tape

- Ideal in packaging for container sealing, static shielding bag closure, and holding DIP tubes
- Prevents damage to sensitive electronic components in manufacturing
- Ideal for sealing ESD bags and other ESD packaging/containers
- Lead-free RoHS compliant

Item	Size (W x L)
242272	24 mm x 65.8 m, 76.2 mm Core
242271	18 mm x 65.8 m, 76.2 mm Core
242273	48 mm x 65.8 m, 76.2 mm Core

PROTEKTIVE PAK Corrugated Circuit Board Shippers

- Economical, efficient method of storing static sensitive electronic devices
- Constructed from a unique buried conductive layer of impregnated corrugated fiberboard with a static dissipative surface
- Convoluted static dissipative < 1×10^{11} ohms polyurethane pink foam laminated to the top and fitted in bottom

Item	Size
37057	229 mm x 191 mm x 64 mm
37061	267 mm x 216 mm x 64 mm
37065	318 mm x 267 mm x 64 mm
37071	394 mm x 318 mm x 64 mm

To see the full range of Corrugated Circuit Board Shippers visit DescoEurope.com

Dissipative Ring Binders

- Antistatic blue PVC covering
- A4 portrait format

Item	Rings	Ring size	Spine Width
238701	Two	25 mm	40 mm
238706	Four	25 mm	40 mm
238711	Four	50 mm	70 mm

Dissipative Document Wallet

- Designed for use within ESD Protected Areas in accordance with IEC 61340-5-1
- Inherently static dissipative - Charges removed to ground when placed on a grounded working surface or handled by a grounded operator

Waste Bins and Liners

- Conductive waste bins are useful in large ESD Protected Areas where waste accumulates and cannot be conveniently removed except in bulk
- Bin liners are made of antistatic polyethylene
- Marked with ESD protective symbol

Item	Description
239210	Conductive Waste Bin, 25 cm x 25 cm x 40 cm
239205	Conductive Waste Bin, 40 cm x 40 cm x 78 cm
239230	Blue Bin Liner, 30 l
239220	Blue Bin Liner, 50 l
239235	Blue Bin Liner, 110 l

ESD Labels

- Clear, visible markings
- Strong adhesive

Item	Description	Size
06722	Attention, RS-471	50 mm x 50 mm
242180	Protection Label	25 mm x 25 mm
06736	Moisture Barrier Bag, IPC/JEDEC J-STD-020	82 mm x 95 mm

MENDA Nylon Probe Tools

- Can be used in ESD protected areas
- Nylon finish will not mar delicate surfaces
- Temperature resistant

Item	Description	Size
35621	Spudger Probe	140 mm
35622	Point Blade Probe	150 mm
35619	Fork-Blade Probe	178 mm

MENDA Stainless Steel Probe Tools

- ESD Protective: Any charge can be grounded when placed on ESD protected work surface
- Ergonomic hex handle for better grip
- Non-magnetic, conductive, 300 series stainless steel

Item	Description	Size
35617	Angle Probe	140 mm
35630	4-Piece Probe Kit and Pouch	140 mm

MENDA Brushes

- Allows thorough cleaning of ESD sensitive assemblies without the danger of high charges generated by conventional brushes
- Hot stamped ESD protective symbol

Item	Description	Size
238110	Conductive Flat Nylon Brush	16 mm x 12 mm
238145	Conductive Block Nylon Brush	22 mm x 75 mm
35694	Flat Conductive Brush	12.7 mm
35686	Flat Dissipative Brush	25.4 mm

Featured Product

MENDA durAstatic® Dissipative ESD Protective Bottles

- Designed to protect your valuable static sensitive printed circuitry
- No migratory additives - reduces the chance for contamination from the bottle
- Embossed with ESD Protective Symbol
- Available in 4 colors
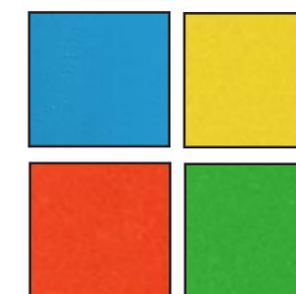
Custom printing available on ALL bottles

Item	Size	Colour	Pump
35283	180 ml	Blue	One-Touch
35276	180 ml	Yellow	One-Touch
35270	180 ml	Orange	One-Touch
35273	180 ml	Green	One-Touch

MENDA Natural HDPE Bottles

- High Density Polyethylene
- Square shape provides stability and saves storage space
- Available with no-spill locking pump
- Easy to fill wide opening
- Not ESD safe

Item	Size	Colour	Pump
35702	120 ml	Natural	Take-Along
35703	180 ml	Natural	Take-Along

See our products being **Made in the United States of America** on our web site: DescoIndustries.com/Factories

See our products being **Made in the United Kingdom** on our web site: DescoIndustries.com/Factories

MENDA durAstatic® Wash Bottles

- Used to hold water for wetting sponges at soldering stations, to hold cleaning agents or similar liquids
- Long lasting dissipative properties embedded into the bottle
- Embossed with ESD Protective symbol
- Available in 240 and 480 ml bottles

Item	Description
35790	Yellow Wash Bottle, 240 ml
35791	Yellow Wash Bottle, DI WATER, 240 ml
35792	Yellow Wash Bottle, ISOPROPANOL, 240 ml
35793	Yellow Wash Bottle, 480 ml
35794	Yellow Wash Bottle, DI WATER, 480 ml
35795	Yellow Wash Bottle, ISOPROPANOL, 480 ml

Featured Product

MENDA durAstatic® Trigger Spray Bottles

- Provides controlled delivery of solvents, cleaners, and water at the ESD workstation
- Long lasting dissipative properties with insulative spray head
- Embossed with ESD Protective Symbol
- Available in 240 and 480 ml bottles

Item	Description	Colour
35796	Trigger Spray Bottle, 240 ml	Yellow
35797	Trigger Spray Bottle, 240 ml	Blue
35798	Trigger Spray Bottle, 480 ml	Yellow
35799	Trigger Spray Bottle, 480 ml	Blue

EasyBraid Lead Free Desoldering Braid

- Desoldering braid formulated with a flux designed for higher activation temperatures
- To be used in conjunction with processes using RMA type no-clean fluxes
- Available on static dissipative bobbins in compliance with ESD Association Standards

Item	Description
LF-A-10AS	Lead Free, 0.635 mm x 3 m, Antistatic, 25/Pk
LF-B-10AS	Lead Free, 1.27 mm x 3 m, Antistatic, 25/Pk
LF-C-10AS	Lead Free, 1.9 mm x 3 m, Antistatic, 25/Pk
LF-C-5AS	Lead Free, 1.9 mm x 1.5 m, Antistatic, 25/Pk
LF-E-5AS	Lead Free, 3.2 mm x 1.5 m, Antistatic, 25/Pk

EasyBraid One-Step No Clean Desoldering Braid

- Flux residue on board does not need to be cleaned
- To be used in conjunction with processes using RMA type no-clean fluxes
- Available on static dissipative bobbins in compliance with ESD Association Standards

Item	Description
OS-A-5AS	One-Step, 0.635 mm x 1.5 m, Antistatic, 25/Pk
OS-B-5AS	One-Step, 1.27 mm x 1.5 m, Antistatic, 25/Pk
OS-C-5AS	One-Step, 1.9 mm x 1.5 m, Antistatic, 25/Pk
OS-D-5AS	One-Step, 2.54 mm x 1.5 m, Antistatic, 25/Pk
OS-E-5AS	One-Step, 3.2 mm x 1.5 m, Antistatic, 25/Pk

Overview

TRONEX Precision Tools

Tronex offers a wide variety of unique cutters and pliers used in a broad array of industries including electronics assembly and medical devices manufacturing.

Benefits of using Tronex Cutters and Pliers:
- Grips are ESD Safe, lead-free, and do not create foreign object debris (FOD)
- Feature a unique bearing ring lap joint for smooth function
- Are machined, hand finished and tested at our California USA facility

Precision Pliers   *Precision Cutters*
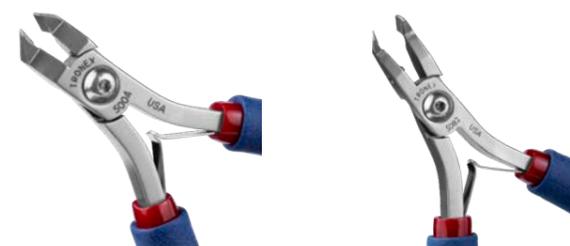
TRONEX Oval Head Cutters

- Excellent general purpose cutters, most cutting needs can be met with an Oval or Taper head cutter
- With additional material in the head, oval head cutters are strong and durable, they are best able to handle the repeated shock of the cutting load
- Best choice for use where restricted access is not an issue
- Wide variety of oval head sizes and features
- Long, ergonomic handle options available

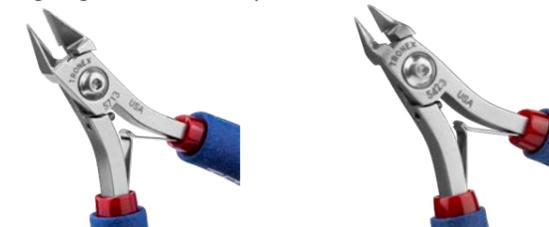| Item	Description
5111	Medium, Semi-Flush, Oval Cutter
5511	Large, Semi-Flush, Oval Cutter
5512	Large, Flush, Oval Cutter

TRONEX Angulated Cutters

- Used when access is limited and a greater angle is preferred
- Available in 50° and 70° angles with different cutting edge sizes to meet a wide variety of needs

Item	Description
5004	50°, Flush, Taper Cutter
5082	50°, Flush, Small Oval Cutter

TRONEX Taper Head Cutters

- Excellent general purpose cutters, most cutting needs can be met with an Oval or Taper head cutter
- Taper head cutters are better when special access is needed
- Pointed head allows for increased cutting access yet has sufficient strength to avoid tip breakage when used within its capacity
- Variety of taper head sizes and features
- Long, ergonomic handle options available

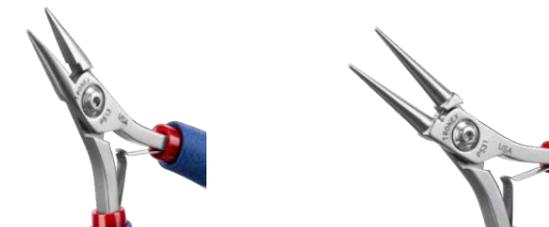| Item	Description
5212	Medium, Flush, Taper Cutter
5223	Medium, Razor Flush®, Relief, Taper Cutter
5423	Minature, Razor Flush®, Relief, Taper Cutter
5713	Large, Razor Flush®, Taper Cutter

TRONEX Tip Cutters

- Long, narrow jaws that have small, exceptionally sharp edges for cutting at the very tip
- The Sub-Miniature Tip Cutter 5071 has been designed to be extremely durable for use in harsh workshop environments, constructed from high quality carbon steel.

TRONEX Precision Pliers

- Most offer a choice of standard handle length or long, ergonomic handle length
- Polished, hand-crafted finish; entirely free of burrs
- Special design elements such as slightly rounded inner jaw edges and induction hardened tips
- Multiple styles available including Chain Nose, Round Nose, Needle Nose, Flat Nose, and Bent Nose

Item	Description
P513	Chain Nose, Short, Smooth Jaw, Pliers
P521	Needle Nose, Long, Smooth Jaw, Pliers
P531	Round Nose, Long Jaw, Pliers
P541	Flat Nose, Long, Smooth Step Jaw, Pliers

To see the full range of Tronex precision hand tools visit:
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See our products being **Made in the United Kingdom** on our web site: DescoIndustries.com/Factories

EMIT SmartLog Pro® SE

- Electronic data acqustion of personnel grounding tests
- Operator identification via proximity card, barcode or keypad
- Ensures accuracy and ease of test data collection
- Access control to the EPA can be further enforced via built-in relay terminal
- Email and live reporting capability

Item	Description
50170	SmartLog Pro® SE
50172	SmartLog Pro® Manager Web App

See our Contactless Test Switch for the SmartLog Pro® and Combo Tester X3 DescoEurope.com

Combo Tester

- Tests operator's path-to-ground
- Use the rocker switch to select a wrist strap or footwear test
- Powered either by mains adapter or 9V battery

Item	Description
99037	Combo Tester
99038	Combo Tester with Stand and Foot Plate

Combo Tester X3

- Simultaneously tests the wrist strap and both ESD footwear within 2 seconds
- Solid-state test switch with no moving parts
- Includes relay terminal for activating electronic locks, lights and buzzers
- Supervisor selectable test limits

Item	Description
19270	Combo Tester X3
19271	Combo Tester X3 With Stand
19287	Combo Tester X3 with 10 mm Adapter
19288	Combo Tester X3 With 10 mm Adapter and Stand

Single Wire Monitors

- Continuously monitors operator and work surface path-to-ground
- Uses Wave Distortion technology to minimise operator voltage
- Park snap feature

Item	Description
19243	Mini Continuous Monitor with Universal Power Adapter
19652	Multi-Mount Monitor with Universal Power Adapter
99093	Dual-Operator Continuous Monitor, 4 mm
99095	Dual-Operator Continuous Monitor, 10 mm

SCS 724 Workstation Monitor

- Continuously monitors 2 operator dual-wire wrist straps, and 1 worksurface mat
- Visible and audible alarms indicate improper grounding of the operator and worksurface
- Adjustable Operator Test Voltage and Upper Limit

Item	Description
724MO	724 Workstation Monitor, no Power Adapter

SCS 724 Plus Workstation Monitor

- Continuously monitors the path-to-ground intergrity of 2 operators and 1 conductive or dissipative worksurface
- 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

Item	Description
770724	724 Plus Workstation Monitor

EMIT Benchtop Zero Volt Ioniser

- Fast decay times (<2 seconds at 30 cm)
- ±3 volt offset voltage balance
- Steady-state DC ionisation

Item	Description
50670	Benchtop Ioniser, 220VAC

EMIT Mini Zero Volt Ioniser 2

- Fast decay times (<3 seconds at 30 cm)
- ±5 volt offset voltage balance
- Steady-state DC ionisation
- Compact size (134 mm high x 89 mm wide x 43 mm deep with stand)

Item	Description
50642	Mini Zero Volt Ioniser 2

Featured Product

SCS Iron Man® Plus Workstation Monitor

- Continuously monitors the path-to-ground integrity of an operator and ESD working surface
- Alarms if overvoltage (±5V or less) from a tool such as a soldering iron or electric screwdriver is applied to a circuit board under assembly, protecting against electrical overstress
- Uses minimal workspace and includes mounting tabs for installation underneath table tops

Item	Description
CTC331-WW	Iron Man® Plus Workstation Monitor

EMIT Overhead Zero Volt Ioniser

- Fast decay times (<4 seconds at 46 cm)
- ±3 volt offset voltage balance
- Steady-state DC ionisation

Item	Description
50671	Overhead Ioniser, 2-Fan, 220VAC
50672	Overhead Ioniser, 3-Fan, 220VAC

EMIT Chargebuster Overhead Ioniser With Lights

- Fast decay times (<4 seconds at 46 cm)
- ±10 volt offset voltage balance
- Steady-state DC ionisation
- 700 lumen LED panel lights (cool white)

Item	Description
50602	Overhead Ioniser with Lights, 2-Fan, 220VAC
50603	Overhead Ioniser with Lights, 3-Fan, 220VAC

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Address: 2A Dunhams Lane, Letchworth, Hertfordshire, SG6 1BE, United Kingdom

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Featured Product

Digital Surface Resistance Meter Kit

- Measures resistance point-to-point (Rp-p) or surface-to-ground (Rg) of working surfaces, flooring systems, garments, packaging, and other materials in accordance with IEC 61340-5-1 Electrostatics and its test method IEC 61340-2-3
- Large OLED display shows resistance reading, temperature, relative humidty, and test voltage
- Internal memory storing up to 100 measurements
- Automatic test voltages (10V and 100V ±5%)
- Quick check button bypasses the 15 second electrification period to allow quick spot checks

Item	Description
19290	Digital Surface Resistance Meter Kit
19295	Handheld Electrode
222002	Concentric Ring Probe
19297	Two Point Resistance Probe

SCS ESD Pro - ESD Event Indicator

- Detects and counts ESD events for control programme troubleshooting and improvement
- Shows the relative strength of the ESD event
- Displays the number of ESD events that occurred at or above the alarm threshold
- Filters and rejects EMI signals that are not caused by Charged Device Model discharges

Item	Description
CTM082	ESD Pro - ESD Event Indicator

Digital Static Field Meter and Ionisation Test Kit

- Portable electrostatic meter for testing of static fields
- Problem solving tool that may be used to identify items that can be charged
- Ionisation Test Kit for quick test of offset voltage and decay times of air ionisers

Item	Description
19492	Digital Static Field Meter
19493	Ionisation Test Kit

Analogue Surface Resistance Meter Kit

- Automatic test voltage selection per Compliance Verification ESD TR53
- Measures resistance range greater than 1.0×10^3 ohms to less than 1.0×10^{12} (±10% accuracy)
- LED illuminates when battery power is low

Item	Description
222635	Analogue Surface Resistance Meter Kit

SCS EM Eye - ESD Event Meter

- Detects, counts and measures ESD events that can damage ESD items and cause tool lock-ups, erratic behaviour and parametric errors
- Calculates event magnitude for Charged Device Model (CDM), Human Body Model (HBM) and Machine Model (MM)
- Records all measurements to a microSD card for PC download
- Touchscreen display provides intuitive user interface
- Rechargeable lithium ion battery

Item	Description
CTM048-21	EM Eye - ESD Event Meter

SCS Ground Pro Meter

- Verifies critical grounding parameters of a facility
- Measures AC voltage, DC voltage, EMI voltage and AC impedance
- Provides accurate measurements of ground impedance on a working tool
- Meets ANSI/ESD S20.20 requirements for AC impedance
- Identifies potential EOS generators
- Measures maximum millivolt requirement of IPC-A-610

Item	Description
CTM051	Ground Pro Meter

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
- Nominal and graphed measurements - records graphs up to 2.5 minutes in total duration
- Displays the peak or live static voltage measured on the operator's body
- Downloads recorded tests onto a PC; compatible with Windows XP / 7 / 8 / 10
- Made in Italy

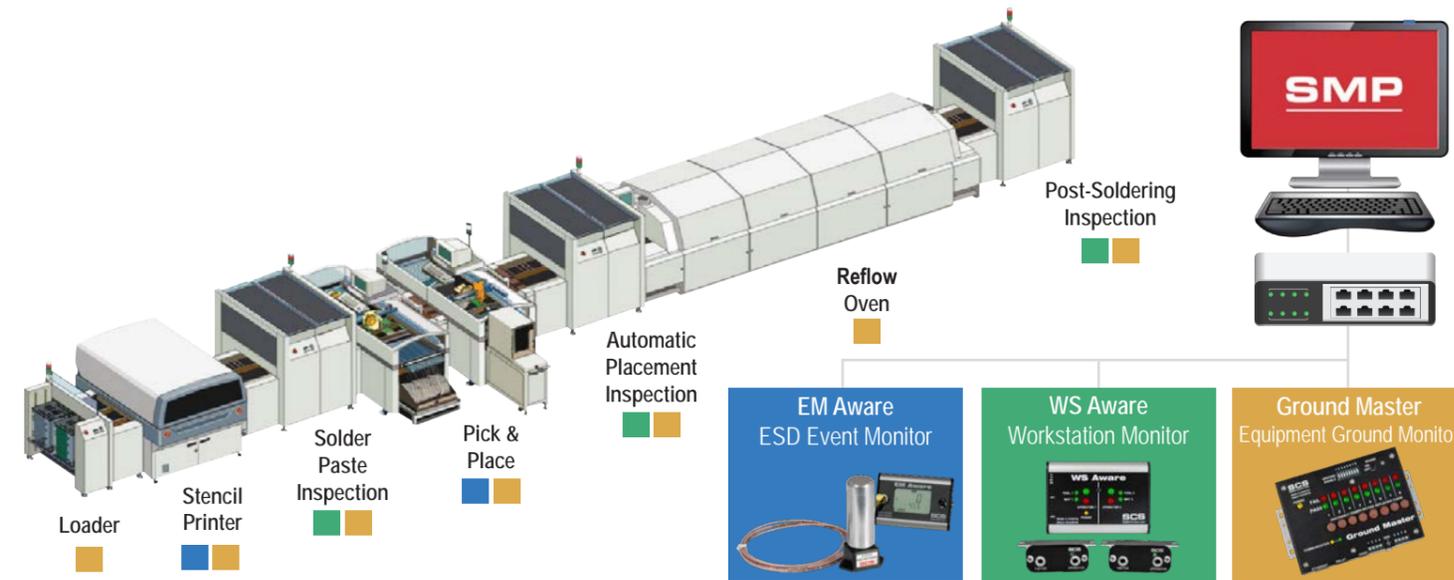| Item	Description
19431	Body Voltage Meter

ESD Survey Kit

- Used to measure, verify and qualify products for use in the ESD Protected Area in accordance with IEC 61340-5-1 test procedures including IEC 61340-2-3, IEC 61340-4-1, ANSI/ESD STM2.1, and ANSI/ESD STM3.1
- ESD Survey Kit includes:
  - Digital Surface Resistance Meter Kit (19290)
  - Handheld Electrode (19295)
  - AC Outlet Analyser & Wrist Strap Tester (224713 or 224714)
  - Low Resistance Tester (222645)
  - Ionisation Test Kit (19493)
  - Adjustable Metal Wrist Strap (229625)
  - Heel Grounder (248555)
  - Training Paddle Set
  - Pelican 1510 Case

Item	Description
222688	ESD Survey Kit, UK
222689	ESD Survey Kit, Europe

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Post-Soldering Inspection

Reflow Oven

Automatic Placement Inspection

Solder Paste Inspection

Pick & Place

Stencil Printer

Loader

EM Aware ESD Event Monitor

WS Aware Workstation Monitor

Ground Master Equipment Ground Monitor

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.

- Facility Assessment
- Hardware & Software Installation
- Hardware & Software Training
- Ongoing Technical Support
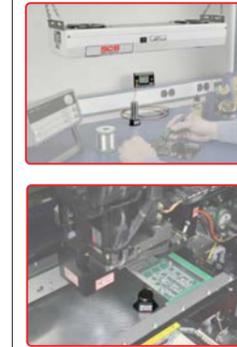
SCS WS Aware Monitor

- Continuously monitors the path-to-ground integrity of two operators, two conductive or dissipative working surfaces, and two metal tools
- Applies an ultra-low test voltage to the operator (0.05 V) for the handling of sensitive components
- Alarms if the operator generates or comes in contact with voltage that would be dangerous to an ESD susceptible item
- Remote terminals with Big Brother Sensor detect the presence of an operator and alarms if a wrist strap is not connected to prevent ungrounded handling of ESD susceptible items
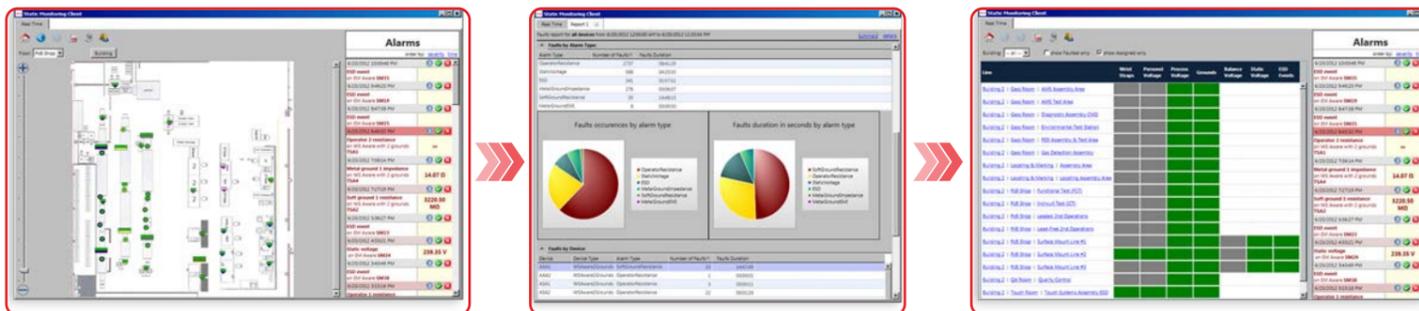

Item	Description
770067	WS Aware Monitor, with Standard Remotes
770068	WS Aware Monitor, with Big Brother Remotes

SCS Ground Master Monitor

- Continuously monitors path-ground impedance of eight metal tools
- Alarms if the grounded metal tools have high-frequency noise that could cause electrical overstress (EOS) damage
- Optical relay pairs with lights and buzzers for increased performance visibility

Item	Description
770079	Ground Master Monitor

SCS EM Aware Monitor

- Detects and measures ESD events, static voltage field and ionisation performance
- Verifies the offset voltage balance of critical environment ionisers with a < ±5 V specification
- Identifies problematic environments and qualifies tools for handling ESD-sensitive devices
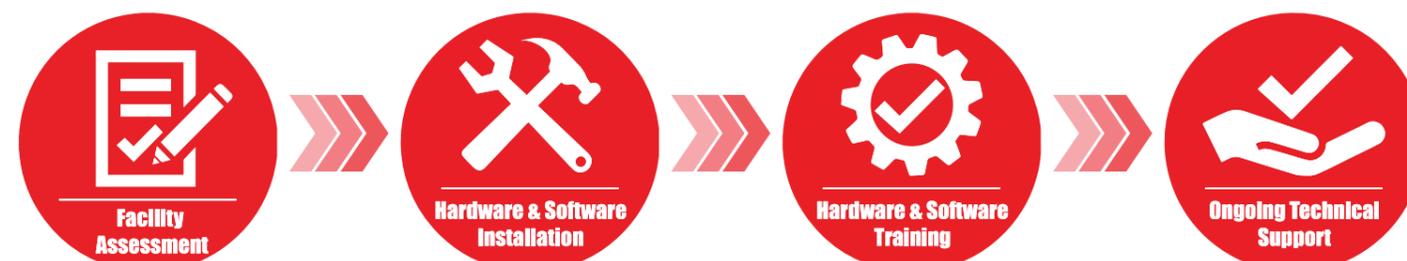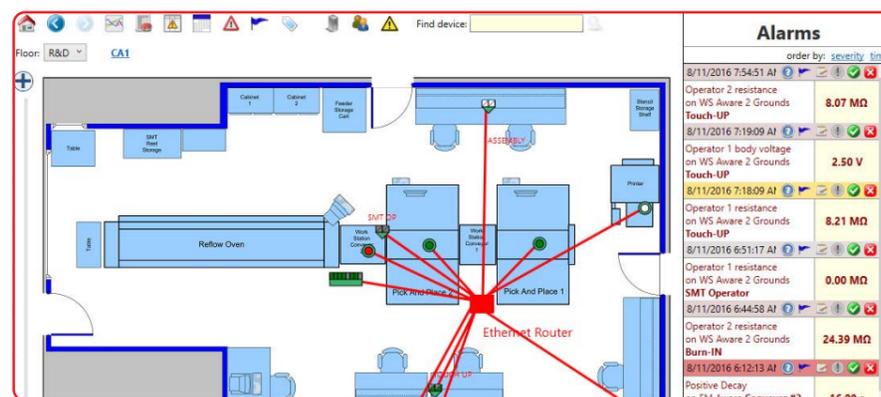- Optical relay terminal pairs with lights and buzzers for increased performance visibility

Item	Description
770066	EM Aware Monitor

Featured Products

Get started with SCS Diagnostic Kits

The SCS Diagnostic Kits are fully equipped with the hardware and software that allows you to detect ESD events and their magnatude. The portable kits provide real-time data which will validate your ESD process one area at a time.

SMP Diagnostic Kit

ESD Event Diagnostic Kit

Contains:
1 x SMP Software License
1 x Ground Master Monitor
1 x WS Aware Monitor
3 x EM Aware Monitors
1 x 8-Port Ethernet Switch
6 x CAT5E Cables

Contains:
1 x SMP Software License
4 x EM Aware Monitors
1 x 5-Port Ethernet Switch
5 x CAT5E Cables

Item	Description
770050	SMP Diagnostic Kit
770051	ESD Event Diagnostic Kit

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ESD SURVEY
OTHER COMPANIES CHARGE
WE DON'T

An ESD survey is a great way to have an extra set of eyes look at your ESD control plan. Using IEC 61340-5-1 and its User Guide CLC/TR 61340-5-2, a Desco Europe representative will take measurements and make observations of your ESD control plan.

- ✔ **Free of charge**
- ✔ **Instant feedback on your ESD Control Programme**
- ✔ **Reduce costs**
- ✔ **No strings attached**
- ✔ **Written follow-up report for your records**
- ✔ **Increase ESD awareness**

Every company handling ESD sensitive devices can benefit from an ESD survey as it provides answers to the following essential questions:

01 » **Is your ESD control programme in compliance?**

02 » **Is it costing your company too much money and/or future business?**

03 » **Is it compliant to your customer(s) standards?**

04 » **Is it compliant to industry accepted standards?**

05 » **Is there a simpler ESD control solution for your company?**

BEYOND A TRADITIONAL ESD SURVEY

EOS/ESD ASSESSMENT

EOS/ESD Assessments help identify if electrical overstress (EOS) or ESD events are occurring in your Electronics Handling and Assembly operations.

Request
Request your EOS/ESD Assessment online free of charge.

Measure
We perform tests and take measurements throughout your entire process.

Evaluate
We will assess your current ESD Programme and compare the results to the ESD Standard EN 61340-5-1.

Report
You will receive a full written report presenting solutions and fixes per EN 61340-5-1.

Verify
Beyond the scope of a regular ESD Survey, we can actually show you that your ESD Control Programme is working.

Tests & Measurements are performed throughout entire process:
- Receiving
- Tool crib
- Automated Insertion
- Manual Insertion
- Final assmebly, testing, QC and packaging

Our Assessment measures:
- ESD Events
  - Counts events
  - Shows magnitude of events
- EMI Voltage, cause of Electrical Overstress (EOS)
- Ground Integrity
- And more...

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