Diasa

STATUS

HIGH OUTPUT BENCHTOP
IONIZER

Made in America
Desco Industries

DESCO
Desco.com

Diasa

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Experience That Matters

We are a 100% Mexican company based in Guadalajara, Jalisco with over 20 years of experience as a leading of process materials, production supplies, maintenance, ESD control, industrial safety and quality for the Electronic Manufacturing Industry, Automotive, Aerospace, Medical, Pharmaceutical, Chemistry, Petrochemistry, among others.

As a company, our goals are the customer satisfaction with a unique combination of customer service and a professional salesforce, plus the on-site technical support provided by factory representatives, offering quality products and market competitive prices thus achieving long-term relationships with our customers and suppliers.

Besides distribution, our business activities include:
- ESD Counseling.
- ESD Training and Audits under the current ANSI 2020 standards.
- On-site product demo, which allows users to perform any relevant evaluations on the product before purchasing the required solution in order to satisfy the needs for their working areas.

At DIASA, we have inventory available in our warehouses located in Guadalajara and Queretaro City, always ready to offer a quick response on the needs of our customers.

CC25 Series High Quality
Fabric Wrist Straps

Features

Wrist Band
- Length 220 mm
- Inner Surface Elastic Nylon with silver plated threads
- Outer Surface Elastic Nylon, insulative
- Color Light Blue
- Resistance 150-200 Ohm/inch
- Plastic Parts ABS/PC
- Back Plate 304 Stainless Steel, Non-allergenic

Coil Cord
- Conductor 7-Strand Twin tinsel wire
- Jacket insulation 90 Shores A Polyurethane
- Wire Diameter 0.10''
- Coil Diameter 0.04' - 0.02'
- Molding Material Polyurethane
- Color Black

HV-15-3
Heel Grounders

Cup Style Heel Grounders are made with a symmetrical design that can be reversed when worn to reduce wear and tear. They feature a dual layer rubber with a non-marking inside and a conductive black outside. A 1meg resistor and a 18'' conductive ribbon are standard.

Specifications
- Resistors: 1meg
- Strap: Stretch Velcro
- Rubber Exterior: <10^5ohms
- Size: 1.25'' Wide
- Ribbon: 18'' Conductive Yarn
- Closure: Velcro

ESD Cleanroom
Garment Clothes

Specifications
- Material: Polyester fiber and conductive fiber
- Conductive Fiber Interval: 5mm grid
- Style: With a bag and button
- Color: White
- Logo: Embroidery
- Electronics, semiconductor, LCD, pharmaceutical, biotech, constructions, optoelectronic, aerospace, etc.

- Neck Type
- MAO
- Sport
- In front
- Brooches
- Closure
- Long sleeves
- Standard Fist
- Spring
- Brooch
- Cardigan

MIC-250ESD

Features

- Materials: 20%nylon+80%polyester
- Structure: Knitting
- Basic weight: 250+-5 g/m2
- Edge: Laser Cutting
- Size: 22x22cm
- Packing: 100pcs/bag - 10bags/ctn
- Carton Size: 48x25x47cm
- Gross Weight: 17.7Kgs
- Net Weight: 17.2Kgs

CUB-BOC-CH

Features

- 3 layers disposable face mask
- Material: Non-woven fabric
- Size: 17.5 x 9.5 cm
- Color: White, blue, green or customized
- Type: disposable mask
- Packing: 50pcs/bag, 40 bag / carton
- Carton size: 52x40x30 cm
- Gross weight: 7KG/ctn
- Certificate: CE, FDA
- Protection: Three layers of purifying dust, toxic gases in the air, and skin friendly filter cloth, giving your multiple protections, protects against dust, allergens and contaminants.

CleanRoom WIP1009S Premier

Features

- The wiper is made of continuous filament and conductive fiber in interlock and double-knit pattern. Cold cutting and laundered in a class 10 Laundry using DI water and packed in a class 10 Cleanroom.
- Fiber: 100% polyester
- Lightweight with a textured surface for effective cleaning (100 +-5g/m2)
- Cold cutting, good sorbency with solvents
- Laundered by DI water & packed in class 10 Cleanroom
- Low particles and fibers generation.
- Low metallic ion content
- Chemical resistant
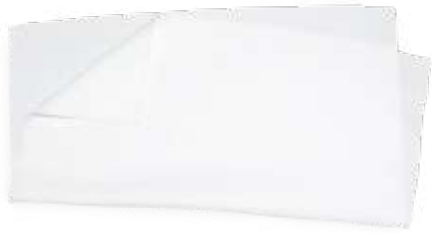- Ideal for semiconductor, TFT-LCD, PCB manufacturing processes for class1000 environments.

WIP-PINK Static Safe Wiper

Features

The WIP PINK static dissipative polyester wiper controls static charges when cleaning surfaces. A perfect wiping choice for optics, LCD screens and other materials at risk from scratching. Contains no carbon filament which can abrade surfaces. Will not tribo-charge over 100 volts.

- Static dissipative ESD wipes for all electronic manufacturing and optical cleaning applications.
- Complies with ANSI/ESD S20.20 (per ANSI/ESD S11.11 & ANSI/ESD DS11.12)
- 100% knitted polyester
- No carbon or metals fibers
- Less than 100 volts tribo-charge
- Good solvent resistance, lint free

WIP-9X9-SPECIAL

Features
- Material: 100% Polyester (Same as samples we send)
- Cutting Way: Cold Cutting
- Weight: Double Knitting (120g/m2)
- Size: 9"*9" (21.5cm*21.5cm)
- Packing way: Double packaging
- Superb absorbency & cleaning performance
- Abrasion and Chemical Resistance
- Soft texture, cleaning surfaces without any damage
- Low particles and fibers generation.

Applications
- Ideal for semiconductor, TFT-LCD, PCB manufacturing processes for class1000 environments, work surfaces, floors walls cleaning, precision product surface cleaning, Laboratory, Factory, electronics, semiconductor, Hard disk drive, SMT, PCB and so on.

NON Coated Gloves BGZM08

Description
- Seamless knitted antistatic nylon gloves.
- Origin: Made in Korea.
- Materials: 300 Denier (Carbon 60D, 6F/Nylon 240D, 96F) 13 gauge.
- Size: S, M, L.

Cotton Seabs

Description
We offer high quality swabs and applicators to meet a wide variety of cleaning and maintenance needs. We use specialized materials to ensure our cotton and foam swabs are durable and generate minimal particulate matter during use.

The most common solvent for all types of cleaning is isopropyl alcohol (IPA), which is generally compatible with all types of swab materials. Sometimes a more aggressive solvent such as acetone or toluene is needed to remove tough contaminants such as excess adhesive, stains, coatings, cooked fluxes, and some biological materials. Solvent compatibility can be an important factor in selecting the best swab for your application.

The line of swabs we offer are suede, cotton and urethane material. Whether you need a round, tapered or rectangular tip shape, you will find the right configuration for your general and precision cleaning applications.

Features & Benefits
Crosslinked polyurethane foam thermally bonded heat, great absorption, low particle count, flexible tip for a softer touch.
Cotton Swabs - Cotton swabs are the most economical option for high volume use. Cotton swabs are highly compatible with even the most aggressive cleaning solvents, from mild IPA to aggressive acetone. Cotton can tend to snag on contacts (i.e. pass-through wires) and leave particles behind.

Foam swabs - Foam swabs are ideal for more precise cleaning in cases where it is necessary to avoid lit formation. The closed cell structure of polyurethane foam has less tendency to snag compared to cotton, and it is still highly absorbent.

Palm P/U Coated Glove Bgzm03

Description
- Seamless knitted antistatic nylon gloves with polyurethane breathable we coating on palm.
- Origin: Made in Korea.
- Materials: 300 Denier (Carbon 60D, 6F / Nylon 240D, 96F)
- Size: S, M, L.

Cleanroom And Custom Esd Brushes

The ESD brush has been developed over time to meet the specific needs of the electronics industry, as well as industries where the build-up of static electricity or charges is detrimental to the manufacturing process. The ESD brush line has been expanded to formally include clean room applications. Each brush category is designed based on the items you are working with and the corresponding brush characteristics required to accomplish the task at hand. Anti-static brushes are made of low-load materials. Cleanroom brushes are heat tolerant and therefore can be autoclaved. See the following pages beginning with About ESD Brushes for detailed information on static electricity, its effects, how brushes can solve static buildup problems. ESD (electrostatic discharge) brushes provide manufacturers of electronic products and static-sensitive products with tools for cleaning and manufacturing that do not generate static charges. Over the years, a variety of brushes have been assembled to meet the variety of needs associated with low load (antistatic) brushes. Gordon Brush offers conductive, static dissipative or insulating brushes to suit your unique needs.

Anti-static brushes and static electricity

Static charge (electricity) is a fairly simple event, but often misunderstood. Simply put, a static charge is generated between materials through friction, pressure, or the separation of two materials. This process is called Triboelectric Effect [tribo means rubbing]. A material that inhibits the generation of static charges is classified as low charge (antistatic). Low load (antistatic) materials used to make these natural bristle brushes include wood, hog bristle, horse hair, and goat hair. These materials can be used in ESD sensitive areas as long as the brush remains in a liquid environment. In a dry environment, only conductive or dissipative materials should be used in ESD safe areas.

Anti-static and ESD brush applications
The general applications of any brush are: apply, push, remove, clean, spread or act as a barrier. Specific uses for antistatic an ESD brushes include:

- Solder removal
- Dust/Dirt removal
- Rework of the panel preparation board
- Lead trim rework
- Cleaning the edge connector
- Static dissipation and sweep

Dust-Free Nitrile Gloves

Description
- Nitrile single-use gloves.
- Ambidextrous gloves.
- Stretching gloves.
- Non-sterilized.
- Rolled fist.
- Protect the user's hands from contaminant substances.
- Alternate option for latex allergy.
- Protects processes from potential contamination.
- Meets FDA requirements.
- 100% free of silicone.

Description
- Material: 100% nitrile.
- Colors: blue and white.
- Available sizes: Extra small, small, medium, large, extra large.
- Packaging: 100 pieces per satchel, 10 satchels per carton.
- Total: 1000 pieces per carton.

Item
- Extra small: TAC-NT-PF-XS / TAC-NT-PF-XS-WH
- Small: TAC-NT-PF-XS-WH / TAC-NT-PF-SM-WH
- Medium: TAC-NT-PF-MD / TAC-NT-PF-MD-WH
- Large: TAC-NT-PF-LG / TAC-NT-PF-LG-WH
- Extra large: TAC-NT-PF-XL / TAC-NT-PF-XL-WH
- Thickness: 5 mm (+/- 1mm)

	XS	S		L	XL
Large	9.5" (+/-.2")	9.5" (+/-.2"	9.5" (+/-.2")	9.5" (+/-.2")	9.5" (+/-.2")
Palm width B	3" (+/-.2")	3.5" (+/-.2")	4" (+/-.2")	4.5" (+/-.2")	5" (+/-.2")
Thumb length C	2.5" (+/-.2")	2.5" (+/-.2")	2.5" (+/-.2")	2.5" (+/-.2")	2.5" (+/-.2")

Nylon Palm Fit Gloves BBG-BLACKCB

Features

Description
- Seamless knitted nylon gloves with breathable polyurethane coated on palms.
- Origin: Made in China.
- Materials: 280 Denier, 13 gauge.
- Size: S, M, L, XL, 2XL.
- Properties: Manufactured with stretchable nylon PU coated on the palm.
- Application: Automotive manufacturing, Electronic, Garden light work.

Top P/U Coated Glove BGZM04

Features

Description
- Seamless knitted antistatic nylon and carbon fiber ESD gloves with breathable polyurethane coated on fingertips.
- Origin: Made in Korea.
- Materials: 280 Denier (Carbon 40D, Nylon 240D, 13 gauge)
- Size: S, M, L.

Three Layer ESD Vinyl Table Mat

Protect your sensitive items as well as your work surface with shock absorbing ESD matting

Features
Three layer vinyl: 10^{7-9} x 10^8 Rtt. Absorbs and reduces high impacts risk of electrical shock available in 60ft rolls or an assortment of cut to order table mats available in light blue color.

Specifications
- Thickness 0.375"
- Color Blue
- Emboss Pattern Matte finish (non-embossed)
- Gauge 0.375" +/- 0.40"
- Density: 25 lb/ft3 nominal wear layer 18 lb/ft3 nominal bottom layer
- Tensile: 100 lb/in2 minimum
- Elongation: 100% minimum
- Tear: 20 lb/in minimum
- Durometer 70 +/- 5
- Shore OO
- Work surface 1.0 x 10^{7}-9.0 x $10^8\Omega$
- ESD S4.1-1997
- The ESD matting is rated to 200F (93C). The mats are heat resistant, not heat proof. They will withstand exposure to high temperatures, but it is dependant on exposure time.

ESD Rubber Table Mat

Features

ESD Rubber Mat has a static dissipative top rubber layer laminated to a conductive rubber bottom layer. Surface resistivity of the top layer is 107 - 109 and bottom layer is 103 - 105.

The ESD two layer mat material offers excellent resistance to oil, grease and most common solvent and which are ideal for work stations.

Color: Green/Black, Grey/Black, Blue/Back.
Surface Status: Shining / Non Shining
Size: 1M (W) x 10M (L) X 2mm (T)
0.6M (W) x 10M (L) X 2mm (T)
0.8M (W) x 10M (L) X 2mm (T)
1.2M (W) x 10M (L) X 2mm (T)

Applications

Computer operators, electronic assembly and manufacturing, pharmaceutical plants, cleanroom operation, fiber optics, aerospace and hospitals. To be used in work surface applications.

Blue / Green / Grey

Technical Specification

- Physical property test method unit typical value
- Thickness ASTM D2103 mm 2 tensile strength top layer ASTM D412 Kg/sq.cm > 120 Bottom layer ASTM D412 Kg/sq.cm > 160 Tear · Strength top layer ASTM D412 Kg/cm >90
- Bottom Later ASTM D412 Kg/cm > 100 Elongation top layer ASTM D412 % 350 Bottom layer ASTM D412 % 250 Hardness (Shore A) Top Lay ASTM D2240 65 Bottom layer (+/-5) ASTM D2240 75 Gravity top layer ASTM D792 1.3 Bottom layer ASTM D792 1.4
- Electrical properties test method unit typical values
- Bottom Layer ASTM D257 ohm/sq 10 e 3-5
- Static Decay EIA-541 sec < 0.01
- Shelf Life: To obtain best performance, use this product within 12 months from date of manufacture.

- Grounding: This material must be properly grounded for optimum electrical performance.
- Cleaning: For optimum electrical performance, surface must be cleaned regularly using an ESD safe mat cleaner designed for static mat. Do not use commercial cleaners on mats. The cleaners may leave a residue that prevents the mat from draining away charge.
- Color: Grey, blue, green, others on request (minimal variation between batches).

Mat Rolls need to be unrolled before being cut. When rolled some shrinkage may occur. Please allow time for mat to relax at room temperature 24-48 hours prior to cutting.

Warranty; Limited Remedy; Limited Liability. This warranty does not cover dissatisfaction, problems or damage due to installation or maintenance or misuse of any kind, including using inappropriate cleaners other than as recommended by the manufacturer as generally accepted.

RoHS Compliance Statement None of the following materials are intentionally added in manufacturing this product: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) as outlined in the Directive 2002/95/EC Article 4.1.

ESD Anti-Fatigue Mat
(Interlocking Design)

General Descriptions
- ESD Anti-fatigue Mats are suitable for assembly lines and other workplaces, where the long-standing jobs are frequently required, to reduce individual workers' fatigue from their jobs.
- Round shape rugged surface provides a finger-pressure therapy effect on feet. They not only have a good function to relieve the stress of the legs, but also give a quick pathway for the static electricity, charged in human body, to ground. It is heat, abrasion and chemical resistant.
- Material: 100% Conductive NBR (Nitrile-Butandience Rubber)
- Surface Resistivity: 10e5 - 10e6
- Color: Black
- Size: 600mm x 900mm x 16mm (Thickness)
- Weight/mat: 2.7kg
- Packing: 7mats/carton

CN-ANF2436-BLACK

Our ESD Anti-fatigue mats are scientifically and ergonomically designed to reduce fatigue caused by standing for long periods on a hard surface.

The elastic texture and round shape rugged surface of the ESD anti-fatigue mats reduce the load on bones, joints and musculature. Pressure on the sensitive toe and ankle area is considerably reduced since the anti-fatigue ergonomic mat cushions the weight. Imperceptibly, the feet are always in motion which in turn stimulates blood circulation. The anti-fatigue ergonomic mat stimulates the blood circulation in the legs, you stand permanently comfortable and relaxed.

Shelf Life: To obtain best performance use this product within 12 months from date of manufacture.
RoHS Compliance Statement None of the following materials are intentionally added in manufacturing this product: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) as outlined in the Directive 2002/95/EC Article 4.1.

2A-SA-SE-PAK

Features
- Product Type: Tapered Tip Tweezer
- Material: Stainless Steel
- Material Category: Metal
- Overall Length: 4-3/4in
- Point Type: General Precision
- Anti-Magnetic (Yes/No): Yes
- Anti-Acid (Yes/No): Yes

Technical Information
- Country of Origin: Pakistan
- Tariff Code: 8203.20.99
- Carton Quantity: 1
- Product Type: Tapered Tip Tweezer
- Material: Stainless Steel, Stainless Steel Anti-Magnetic
- Material Category: Metal
- Overall Length: 4-3/4in
- Point Type: General Precision

AA-SA-SE-PAK

Features
- Product Type: Straight Tip Tweezer
- Material: Stainless Steel
- Material Category: Metal
- Overall Length: 4-7/8in
- Point Type: General Precision
- Anti-Magnetic (Yes/No): Yes
- Anti-Acid (Yes/No): Yes

Technical Information
- Country of Origin: Pakistan
- Tariff Code: 8203.20.99
- Carton Quantity: 1
- Product Type: Straight Tip Tweezer
- Material: Stainless Steel, Stainless Steel Anti-Magnetic
- Material Category: Metal
- Overall Length: 4-7/8in
- Point Type: General Precision

LX54-3-PAK

Features
- Forged steel for strength, durability, and long life
- Machined with precision for tight tolerances
- Hardened electronically, tempered for toughness
- Honed to precise cut requirements
- Stainless steel leaf springs welded in place
- Cushioned grips for operator comfort
- ESD safe for component protection
- Each jaws has fine parallel serrations and beveled edges

Specifications
- ESD - SAFE: Yes
- Product Type: Long Nose Piler
- Jaw Type: Serrated
- Jaw Length: 1.02in
- Material: Forged Steel
- Overall Length: 5.25in
- Handle Type: Cushion Grip
- Handle Material: Cushion Grip
- Color: Blue
- Primary Color: Blue
- Finish: Ergo Black
- Standards Met: ISO 14000 Compliance
- Point Type: General Precision

CHP-170-PAK

Specifications
- Brand: CHP Tools®
- Product Type: Medium Cutter
- Jaw Length: 8mm
- Head Width: 13.5mm
- Head Thickness: 2.5mm
- Material: Carbon Steel
- Overall Length: 4.75in
- Handle Type: Dolphin Style Grip
- Material Category: Metal
- Cutting Capacity: 16AWG
- Cut Type: Flush
- Color: Red/Black
- Primary Color: Red/Black

Technical Information
- Country of Origin: Italy
- Carton Quantity: 50
- Product Type: Medium Cutter
- Jaw Length: 8mm
- Material: Carbon Steel
- Overall Length: 4.75in
- Material Category: Metal

MX54-3-PAK

Features
- For intricate and repetitive work between and under closely spaced components.
- Induction hardened edges optimize cutting ease and life.
- Flush cut for a sharper edge requiring less squeeze and reduces sprike OAL 4.25in, Jaw 0.60in.

Specifications
- Product Type: Diagonal Cutter
- Jaw Style: Oval Relieved
- Jaw Length: 0.6in
- Material: Forged Steel
- Overall Length: 4.25in
- Head Width: 13/32in
- Head Thickness: 15/64in
- Handle Type: Cushion Grip
- Handle Material: Cushion Grip
- Material Category: Metal
- Cut Type: Flush
- Color: Green
- Primary Color: Green

19322 - Continuous Full Time Monitor

- Single Workstation Continuous Monitor
- Continuously monitors the path-to-ground integrity of one operator, one ESD work surface, and the electrical ground used to 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 its path-to-ground integrity; fulfills the ANSI/ESD S6.1 section 6.3.1 requirement.
- NEW Park Delay Timer
- Indicates the 8 second delay to disconnect and park the operator wrist cord.
- NEW Embedded Relay Terminal
- Activates when a pass condition is displayed on the monitor. Connect to machines for access control or other devices.
- NEW Mat Monitor Switch
- Disables the work surface monitor circuit when used in areas where there is no ESD work surface.
- New Audible Alarm Adjustment
- Sets the audible alarm volume from loud to louder.
- NEW Enclosure with Mounting Tabs
- Installs in workbench and equipment environments.

19239 - Continuous Mini Monitor, North American Plug

The Desco Mini Monitor is a single workstation continuous monitor. It continuously monitors the path-to-ground integrity of one operator and one ESD work surface. The Mini Monitor eliminates the need for periodic testing and record keeping of wrist straps. The Mini Monitor is designed with Wave Distortion Technology which provides stable continuous monitoring of the path-to-ground and presence of 1 megohm resistance of an operator's wrist strap- Audio and visual alarms activate (in less than 50 milliseconds) when the operator unintentionally disconnects from the monitor or the wrist strap connection points are intermittent. The Mini Monitor also serves as a ground point for an ESD work surface and monitors for a path-to-ground of less than 500 megohms. All Mini Monitors are calibrated to NIST standards and include a certificate.

- Single Workstation Continuous Monitor: Continuously monitors the path-to-ground integrity of one operator and one ESD work surface.
- 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.
- 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.
- Park Snap: Allows the operator to disconnect (and park) a wrist strap when leaving the workstation without creating a false alarm.
- Single-Wire Impedance Design Meets ANSI/ESD S20.20 in accordance with ESD TR1.0-01-0
- 1.2 Volr Operator Test Voltage: Reduces the risk of electrical overstress (EOS) for the handling of sensitive components ·<50 Millisecond Alarm Response Time Identifies failures and intermittences that inferior technologies miss.

60505 High Output Benchtop Ionizer Installation, Operation And Maintenance

Features

The Desco High Output Benchtop Ionizer is a compact and lightweight steady state DC auto-balancing benchtop work surface ionizer with integrated closed-loop feedback. The unit is normally placed at one end of the workbench or area to be neutralized. It may also be mounted to a wall or shelf. The ionizer's neutralization discharge time will be best approximately 12" to 48" directly in front of the unit and will increase as the distance from the unit increases.

- Bench Top Steady State DC Ionizer Specially designed fan modules create better coverage (16"x24") consistent offset voltage (balance) ±3 volts, and superior discharge times (<1 second at 12") tested per ANSI/ESD STM 3.1
- Sealed Plenum Air Flow Prevents contamination from being introduced to workstation.

19590 - Chargebuster Ion Gun, North America

Description

The Desco Chargebuster Ion Gun is a point-of-use ionizer used for neutralizing electrostatic charges to eliminate attraction, visual imperfections and contamination issues by dislodging charged dust and debris. It uses compressed clean dry air (CDA) or a compressed gas supply. Less than 1 second discharge times within ±30 volt offset voltage balance meet the required limits of ANSI/ESD S20.20 and ESD TR53. A 7-foot ESD hose with trigger switch allows operators freedom of motion and minimizes awkward or unsupported positions. The quick change filter in the console collects small residual particles. "There is sometimes a need to provide static control in a small defined area or location. This may be done to provide static control within production equipment, in mini-environments, or to facilitate particle removal from part of a product. Ionizers used for this purpose may be blow-off guns or nozzles that work with a supply of compressed air or nitrogen. They may use either nuclear, soft x-ray or any of the previously described types of corona ionization technology. It will be important to choose a method of ionization and cleanliness of the gas supply that is appropriate to the work area." (ESD handbook ESD TR20.20 section 5.3.6.5.2.4 Point-Of-Use Ionization) Point-Of-Use Compressed Air Ionizer Neutralize electrostatic charges to

eliminate ElectroStatic Attraction (ESA), visual imperfections, and contamination by dislodging charged dust and debris.

Features

- Fast < 1 Second Discharge Times with ±30 Volt Offset Voltage Balance Tested Per ANSI/ESD STM 3.1 and ESD TR53 MEETS ANSI/ESD S20.20 ionizer required limits.
- Modular Design with 7 Foot ESD Protective Hose with Trigger Switch: Allows operators freedom of motion and minimizes awkward or unsupported positions.
- Use Filtered Air or Nitrogen - No Adjustment Required: Allows for quick change between compressed gas supply.
- Console Mounting Hardware Included: Mount the Ionized Air Gun in the most convenient and productive locations.
- Quick Filter Replacement Feature: Minimizes down time.
- 120VAC Power Adapter with North American Plug: Works with standard electrical systems in North America.
- NIST Calibrated with Certificate Included: Calibrated with accepted procedures and standards traceable to the National Institute of Standards and Technology. For more information on calibration of Desco products, see the Calibration web page.

PTECTM Ionizers
In3425 Ionizing Gun

Transforming Technologies' IN3425 air ionizing nozzle is a highly efficient static eliminator that is perfect for compact or hard-to-reach areas. A small, self-contained device, the IN3425 produces a powerful stream of ionized air to neutralize charges while cleaning particulates from surfaces. The unique size and shape allow the ionizer mounted in hart do reach areas and be integrated into machines.

Features
- Pin-Point Precision Ionization
- Optional Nozzle Tips to Customize the Spread of Ionized Air
- Small Footprint with Mountable Base
- Inherently Stable PtecTM Technology
- Dense Output of High Frequency AC (68KHz) Ion Emission

PTEC IN4000 Airflex Flexible Neck Ionizing Nozzle

The IN4000 flexible nozzle neck frees the operator's hands during assembly and manufacturing processes. A foot pedal controls both ionization and airflow, which reduces compressed air costs and extends the life of the ionizer. The model IN4000 ionizing air nozzle produces a 68KHz AC output of approximately 2200V and a continuous stream of balanced air ions.

Maintenance savings
Ptec™ ionizers save time and money because they require no calibration. Emitter life is increased and maintenance frequency is reduced, due to 68KHz AC ion emission.

Features
The IN4000 features the inherently stable output of all Ptec™ Ionizers and high-frequency AC (68KHz) ion emission. The flexible metal neck, with multiple nozzle options allows for easy operation and service of emitters. A foot switch and .01 micron filter combine to deliver clean air the correct pressure when needed.

4005105 - Top Gun™ Ionizing Air Gun

Description
- Maximum user comfort prevents operator fatigue and increases productivity
- Airflow use that meets the specific application requirements
- Protects ESD sensitive components and assemblies
- Insures air contacting the target area is clean
- Eliminates the guesswork of ionization at target area

Features
- Lightweight, Ergonomic Design
- Flow Control Valve of Adjustable Airflow
- Electrically balanced ion output
- Integrated, Replaceable Filter-Nozzle

Top Gun with Optical Sensor
For automated assembly, all versions of the Top Gun are available with an optional Optical Sensor, which automatically activates the gun when an object is in range. The Optical Sensor has an "adjustable range" from 1-30 inches.

4006992 - Top Gun With Optional Sidekick

Description

The Top Gun with Sidekick offers hands-free operation and flexible positioning during assembly and manufacturing processes. A foot pedal controls both ionization and airflow, which reduces compressed air costs and extends the life of the ionizer. The flexible gun mount allows the operator to focus the ionized airflow where it is needed. The stand includes a steel bracket for easy bench-top mounting.

Fully adjustable 18 inch neck focuses the ionized airflow. Tabletop bracket provides easy mounting. Foot pedal permits hands-free operation.

Features

- Input Voltage 120 VAC, 60 Hz, 0.2A; 230 VAC, 50 Hz, 0.1A
- Discharge 1.3sec @ 6" (15.2 cm), 30 psi (±1000-100V); 0.5 sec @ 2" (5 cm), 60 psi (±1000-100V)1
- Balance ±15V
- Flow 2.4 scfm @ 30 psi (68/min, 2 bar); 4.6 scfm @ 60 psi (130/min, 4 bar); 7.4 scfm @ 100 psi (210/min, 7 bar)
- Blow-off Force 180g @ 100 psi, 2" diameter target 3" from the gun Air Pressure
- Pressure relief in nozzle complies with OSHA requirements
- Audible Noise 76 dbA @ 30 psi input (2 bar); 89 dbA @ 60 psi input (4 bar); 97 dbA @ 100 psi input (7 bar); measured 24" (600 mm) from nozzle
- Operating Env. Temperature: 32-104°F (0-40°C); humidity: 30/60% RH (non-condensing)
- Ozone 0.001 ppm measured 18" (450 mm) from gun, operation @ 15 psi (1 bar)
- Filter 0.01 micron rating; replacement filters available
- Gas Input 100 psi max; Clean Dry Air (CDA) or Nitrogen Gas Connection ¼" NPT (female)
- Air Hose Static dissipative polyurethane, 7' or 14' standard, 5' or 14' with optical sensor (integral to gun and control module)
- Enclosure Gun: Static dissipative polycarbonate/ABS blend; cable: static dissipative polyurethane
- Dimensions Gun: 6.5 oz (185g); air hose: 1.25 ounces/ft (115g/m)
- Warranty 2 year limited warranty

50664 - 2- Fan Zero Volt Overhead Ionizer, 120Vac
50665 - 3-Fan

Description

The patented* EMIT Overhead Zero Volt Ionizer (ZVI) is a steady-state DC auto-balancing ionizer with integrated closed-loop feedback. It combines the effectiveness of steady-state DC ionization with ease of adjustability, communication capability and the flexibility of a microcontroller-based design to produce extended ionization coverage and are ideal for areas where bench space is limited.

Features

- Mounting Bracket: Attach the included hanging kit to these brackets to install the ionizer.
- Power Cord Inlet: Connect the power cord here to provide power to the ionizer.
- Key Switch: Use the included keys to turn the ionizer ON or OFF.
- RS-485 OUT: Software communication output. To be used with EMIT SIM Software for real data acquisition.
- RS-485 IN: Software communication input. To be used with EMIT SIM Software for real data acquisition.
- LED Display: Displays the ionizer address, balance, fan speed and maintenance codes.
- Control Buttons: Use the buttons to modify the ionizer´s settings.

Chargebuster® Overhead Ionizer Installation Operation And Maintenance

Description

Desco Chargebuster® Overhead Ionizers are steady-state DC ionizers designed for use in ESD protected areas. The 2-fan ionizers (60640, 60467) have a 2' x 4' coverage area, and the 3-fan ionizers (60473, 60468) have a 2' x 5' coverage area. The Chargebuster®Overhead Ionizers´ discharge times (< 3 seconds at 18") and low offset voltage (±10 volts) meet the required limits of ANSI/ESD S20.20 < ±35 volts tested per ANSI/ESD STM3.1 and ESD TR53. Its emitters are made of pure tungsten and space further apart to minimize ion recombination, increase discharge efficiency and provide a broader coverage area. The fans have 3 speeds (high, medium, low) which produce consistent performance at all 3 settings. The Chargebuster® Overhead Ionizers utilize an auto-feedback system that continuously optimizes its performance and automatically alarms and shuts down should its supply voltage drop.

60640 - Chargebuster® Overhead Ionizer, 24", 2 Fans, 120 Vac, Us Plug

Description

Two steady state DC ionization 3.blade fans for one area of 2 'x 4' coverage especially designed fan modules create better coverage (2 'x 4'), constant offset voltage (balance) ±10 volts and superior discharge times (<3 seconds) ANSI / ESD tested STM 3.1

Automatic feedback system (audible and visual alarm via single tri-color LED) Unit will automatically shut down and alarm if AC supply voltage.

CV510 - Cv5210 Connection Validation Soldering Systems

Keys feautres

- SmartHeat® Power on Demand Technology.
- Patented Connection Validation ™.
- MC Formation Technology.
- 2.8" color touchscreen with bold graphics.
- Communications Port for process traceability data and firmware graphics.
- Integrated Net Power Meter and power graph. With optional precise tip temperature display.
- Patented Chip-in-Cartridge technology. Closed loop bi-directional communication. Stores and records cartridge attributes. Provides traceability information. Protects power supply from non-conforming cartridges. Backwards compatible with MX series power supplies.
- Password protection.
- Wide variety of cartridges available
- Power supply protected by 5-year warranty, longest in the industry.

MX500 Dual Switchable Output

Key features
- A built in Net Power Meter which will display a graphical and numerical representation of the power applied to the cartridge.
- User Programmable PowerSave Mode: the time to enter PowerSave Mode is adjustable from 10 to 120 minutes.
- Ground Fault Interrupt: AC ground monitor detects power line ground failures and immediately alerts the operator and shuts down the system.
- Universal Power Supply: automatically senses the input line voltage and adjusts accordingly, which allows for worldwide operation without adaptors or a change in performance.
- Full compatibility with existing and previous MX upgrade kits, tip-cartridges, handpieces and accessories.

DX-250 Seres Digital Dispenser / Controller

DX-250 . DX-350

Key features
- Universal power supply with snap on plug for worldwide use
- 16x2 segments LCD
- Digital timing from 0.008-99.999 seconds
- +/- 0.001% Timing repeat tolerances
- Adjustable vacuum-driven "suck back" to control material "tailing" and waste.
- Stable to conserve workspace when multiple DX-200 controls all OK International

Specifications
- Cabinet Dimensions: 6"W x 6.5"L x 7.0" H 152 mm x 165 mm x 178 mm
- Weight: 2.5 lb (1.1 kg)
- Cycle Rate: 600 cycle/minute
- Timing Range: 0.008-99.999 seconds
- Timing Repeat Tolerances: +/- 0.001%
- AC Input Voltage: 100-240 V ac
- AC Input Frequency: 50-60 Hz
- Cycle Mode: Continue and Interrupt
- Meets or exceeds: CE, TUV-GS, NRTL and eK
- Warranty: 1 year

WX Line

Key features
- Standby time
- Auto off time with motion sensor
- Stand by temperature
- Temperature window
- Temperature C°/F°
- Lock function
- Offset
- Factory setting
- Motion sensor in iron
- Micro tool support
- Intelligent tools
- Intelligent power management
- Firmware updated
- USB functionality
- Output for Zero Smog/ Heating Plate /Robot
- Fume Extraction Units (Zero Smog 4V, 6V, WX hub)
- PC connectivity via RS232 & Software
- Performance Mode
- Language Setting
- LCD Background Brightness
- 12 Connectable Tools
- Traceability ready

WE Line

Key features
- Standby Time
- Temperature C°/ F°
- Lock function
- Offset
- Factory setting
- Fume Extraction Units (Zero Smog EL, not connectable)
- 15 Connectable Tools

WT Line

Key features
- Standby time
- Auto off time with keystroke
- Stand by temperature
- Temperature window
- Preset Temperature
- Temperature C°/ F°
- Lock function
- Offset
- Factory setting
- Motion sensor in iron (WPT90 only)
- Micro tool support (WT2M only)
- High power tool support (WT1H & WT2M only)
- Firmware updated (Weller Service Centers only)
- Output for Zero Smog/ Heating Plate / Robot (WHP80)
- Fume Extraction Units (Zero Smog TL, WX hub)
- LCD Background Brightness
- 15 Connectable Tools

WXR3 Soldering Station

Key features
- All-in-one Station
- Benchtop controller capability e.g Zero Smog Systems
- Automatic tool recognition and power management
- Compatible with all WX tools
- Storage medium in hand piece
- Blue LED backlighting
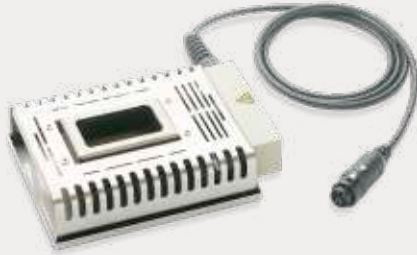- Multilingual menu navigation

WR2 Rework Station

Key features
- Digital Self Contained Multi-Channel Rework Station 120V / 400 W
- 3 Independent tool channels with automatic tool recognition.
- Application flexibility with up to 19 tool options.
- Self contained vacuum and air.
- PC connectivity and data logging software included
- Not compatible with WRK kit or WVP vacuum pencil

Soldering Baths WS80, WSB150, WSX200

Key features
- Accessory for WT series soldering stations and WR series rework stations.
- For tin coating and preparation of small electronics components and leads.
- Also used to clean excess solder from small component leads.
- Precision temperature control / 150°F - 850°F / 50°C - 450°C
- Heated surface- 80W: Soldering bath
- Ø 0.8''x 0.98'' D / Ø 20.3 mm x 24.9 mm D
- Compatible with lead free solders
- ESD safe

Soldering Tips And Nozzles

Key features
- Tool Protection
- Precise control ergonomic grip
- MILC Spec / IPC standard. t
- Low cost-in-use
- Digital tool
- Active tip technology
- Patented tip and grip design
- One intelligent WX platform

Preheating Plates Whp80, WXHP120, WHP200, WHP1000, WHP3000

Preheating plates are used to preheat circuit boards under repair to reduce the possibility of thermal damage and to reduce the heat requirement of the soldering tool for speeding up the repair process.

Key features
- 120 V - 200 to 600 Watt Digital Preheating Plate.
- For rework of single or dual sided PC board assemblies
- Short wave IR heaters ramp up the temperature of the PC board assembly from below
- Precision temperature control / 150°F - 750°F (50°C - 400°C)
- Read and set temperatures are indicated digitally.
- RS-232 Interface for connection to Weller hot air stations WHA 3000 or WX series soldering stations mm x 60mm
- Heated surface - 200 W: Small heating plate -4.72'' x 2.36'' /120
- Thermocouple (Type K) input for temperature control ar the component level
- View technical specifications

ESD Test Stations PGT120

A quick and accurate wrist strap and footwear tester that indicates results with audible and visual signals. A relay with a dry contact provides the connection to a barrier system, such as a door.

In combination with a barrier gate, the footwear measurement can be performed in series without pressing a button (hands-free mode).

Features
- Independently Test Both Feet & Wrist Strap
- Adjustable Limits and Functions with DIP Switches
- Wrist Strap Range: 1Meg~35Meg Ohm (Default)
- Footwear Range: 1Meg~100Meg Ohm (Default)
- Dry Contact Connection to Barrier System
- View technical specifications

Metriso® 3000 High Resistance Test Kit

The METRISO®3000 is a digital high resistance tester capable of measuring point-to-point   resistance and resistance-to-ground measurements with a large test range of 1 kOhm to 1,2 TOhm.

The meter includes an integrated data logger with a USB communication port for data transmission, temperature and relative humidity sensor, PC software for Windows, two disk probes , a hand-held probe with connecting cable, and a conductive carrying case fitted with dissipative pink foam.

Specifications
- Test Range: 1K Ohm -10T Ohm
- Test Voltage / Test Current: 1 mA < I < 1,3 mA.
- Operation: Rechargeable Batteries
- Probes: Two 5lbs with Conductive Rubber One Hand-Held Probe
- Complies with ANSI 20.20.

Features
- Measures Large Test Range
- Measures Temperature and Humidity.
- Records Test Values & Crates Reports via USB PC Connection.
- Conductive Carrying Case
- View technical specifications

Metriso® B530 High Resistance Test Kit

The METRISO® B530 test kit efficiently measures a wide resistance range and is suitable for point-to-point, surface and resistance-to-ground measurements. The Metriso® B530 can measurement range is from 1kOhm to 199 GOhm. The Metriso® B530 test kit includes a digital high resistance test meter, two disc probes, an extension handle for floor measurements, a hand-held probe with connecting cable, and a conductive carrying case fitted with dissipative pink foam.

Specifications
- Resistance-to-ground
- Resistance-point-to-point
- Resistance-to-groundable-point
- Volume resistance (with optional metal plate)

Features
- Evaluate packaging materials
- Evaluate garments
- Measure flooring, work surfaces and furniture resistance
- Measure electrostatic fields
- Analyze ionizers performance

ESD Audit Kit
7110.600.Set / 7110.B530.Set

The ESD Audit Kit includes the relevant test instruments and equipment needed to perform ESD audits according to ANSI ESD 20.20 and IEC 61340-5-1 and for qualification and verification of ESD control elements. Choose between the Metriso B530 standard resistance meter or the Metriso3000 high resistance meter.

Specifications
- Evaluate packaging materials
- Evaluate garments
- Measure flooring, work surfaces and furniture resistance
- Measure electrostatic fields
- Measure temperature and relative humidity
- Analyze ionizers performance
- View content specifications

Smart Log Pro®
With Turnstile

The EMIT SmartLog Pro® with Alvarado EDC Waist High Turnstile verifies the functionality of an operator´s wrist strap and footwear, logs the test results, and controls access to an ESD Protected Area. The turnstile unlocks after the operator´s wrist strap and/or footwear is determined to act as a path-to-ground. All operator test activity is logged into a database to meet the ANSI/ESD S20.20 requirements for on-going quality control purposes. Each log entry includes operator identification, test results, resistance measurements, time, temperature and humidity.

The Alvarado EDC Waist High Turnstile features a rugged industrial grade controller, optical rotation detection (no mechanical microswitches to break or continually adjust), adjustable timeout functionality (turnstile relocks if there is no passage through the unlocked turnstile). An adjustable dampener slows and cushions the rotation and self-centers the turnstile arms to be home position. Stainless steel internal and external components male the turnstile durable and easy to maintain.

The turnstile is configured to Fail-Safe Loss-of Power Operations. Should loss of power occur, the turnstile´s arms will unlock and rotate freely in both directions to allow operators to pass through.

LED Inspection Magnifiers
41300/41400/41600/42300/42400/42600

The Green-Lite® series from O.C White is the most energy efficient, highest output and longest lasting line of inspection lighting systems in the world. These exceptionally designed products offer important features & benefits available only from O.C White.

Features
- Standard 4 Diopter (2x) and optional 5 Diopter (2.25x) for optimum balance of magnification & working distance.
- Highest lumen output in a lighted magnifier.
- User controlled LED groups shine the desired level of light exactly where required.
- Superb dimming software via convenient, reliable membrane switch.
- Precision ground , 6" round optical grade glass.
- 6 LEDs standard - 12 LEDS models optional.
- Auto shut off after 4 hours helps prevent energy waste (user activated after purchase).
- High quality die cast aluminum shades and all metal arm components for ESD safety.
- Innovative 3 axis adjustable swivel arm.
- 5 year mechanical warranty. Best in the business!

Color must be specified at time of order Add Color Code to End of Part Number Example: 42400-4-BY

PRO-ZOOM® PZE-4.5
Extended Working Distance Microscope

This especially designed microscope provides full 7-45x magnification, at a comparable working distance to standard microscopes with .5x lenses (and half the magnification). At home in ESD critical environments, this microscope also features super-wide 28 mm eyepieces for increased operator comfort over the duration of the work day. Detented zoom stops are included standard on this model as well, which allow you (and your QA/QC Engineers) repeatable and documentable inspection results. An O.C. White Exclusive!

Features
- Build with ESD Safety Specifically in Mind.
- 7-45x Standard Magnification Range (up to 270x with options)
- Super-Wide 28mm High Eyepoint, Wide Field Eyepieces.
- 45° Eyepiece Angle with 360° Rotations in Focusing Arm.
- 195mm of Working Distance with .5x Aux Lens (standard)
- +/- 6 Diopter Eyepiece Adjustment Range
- Interpupillary Distance Adjustment on Eyepiece Tubes
- Double Ball Bearing Arm Base Assembly for Precision Movement
- 5 year Mechanical Warranty.
- Best in the Business!

SUPER-SCOPE® PZE-4.5
Hd Integrated Inspection Tkadmacz/ Tkmacz With 22" Led Monitor

The heart of the Super-Scope® is our 5MP Hybrid HDMI/USB Camera with 12.1'' Integrated LED Screen. Featuring full 1080 resolution (300dpi) for super detailed 'heads up' viewing, this camera features onboard tools including Image & Video capture, calibrated measurement, split screen live view, and more! An 8 GB SD Card is included standard for easy transfer. This system features our exclusive varifocal lens technology, which allows for up to 80x magnification and working distances that can be measured in FEET not inches! Each system ships standard with our 24'' tall double ball bearing base (other mounting styles available).

Features
- Build with ESD Safety Specifically in Mind.
- 7-45x Standard Magnification Range (up to 270x with options)
- Super-Wide 28mm High Eyepoint, Wide Field Eyepieces.
- 45° Eyepiece Angle with 360° Rotation in Focusing Arm.
- 195mm of Working Distance with .5x Aux Lens (standard).
- +/- 6 Diopter Eyepiece Adjustment Range.
- Interpupillary Distance Adjustment on Eyepiece Tubes.
- Double Ball Bearing Arm Base Assembly for Precision Movement.
- 5 year Mechanical Warranty.
- Best in the Business!

ULP-MAG-30
Workplace Ergonomics 101

A pretty simple concept, but with far reaching implications. ULTIMA ™ EPS marries our award winning arm technology and world renowned lighting and inspection products together for industry exclusive performance and ultimate ergonomic safety.

Features
- Maximize efficiency and operator comfort.
- Custom fit to each operator.
- Free up workspace.
- Keyboard and mouse tray.
- Equipped with a copyholder.
- Many additional accessories.
- View technical specifications

Bechkam
Digital Camera Solution For Vision Luxo Bench Magnifiers

BeachKam is an innovative solution to image capture and reporting requirements when working with bench magnifiers.

Features
- Capture and share images of subjects.
- Keep work areas free for working.
- Retain clear view and full use of bench magnifier.
- View technical specifications

E Series Stereo Zoom Trinocular Microscopes With 45° Tilting Headwork

The first ever parallel stereo zoom microscope system from Scienscope. This microscope is comparable to leading brand manufacturers, see it for yourself. Years of development and design have yielded the first affordable high performance system of its kind. There are two types of optical heads available: Tilting or Fixed. The new Tilting/Ergo Head truly resolves the headaches associated with using a microscope continuously. The Ergo head allows up to 45 degrees of tilt/positioning capability and 180 degrees of rotational capability to accommodate operators of any height or bench position of the stereo microscope. The Fixed head provides a 20 degree inclination with extended eye tubes for fatigue reduced viewing.

Vizor

The new ergonomic, stereo, visual inspection system from Scienscope.

Inspect with accuracy and work in comfort without eyepieces. This system is affordably priced with several optical and mounting options.

Features
- 4X, 6X, 8X lenses included.
- Bench stand, bench stand with focusing stage, articulating arm stand with c-clamp.
- Stereo optics.
- No eyepieces.
- 2X and 10X lens options.
- Integrated LED lighting.
- Up to 7.5'' of working distance
- 5 year Optical Warranty

Mantis Elite-Cam Hd Stereo Microscope With Integrated Hd Usb Camera

The latest update in the popular Mantis stereo microscope range. Combining the ergonomic benefits of unique eyepiece-less technology with the imaging power of a HD camera, Mantis Elite-Cam HD is the ideal solution for inspection, reworking and reporting.

Features
- 2x- 20x magnification.
- Fully integrated HD camera with USB connection.
- Unique 3D stereo view and useful annotation software.
- Up to 7.5'' of working distance
- 5 year Optical Warranty

DRV-Z1 Digital Stereo 3D Viewer With Zoom

DRV-Z1 is a digital stereo 3D viewer with zoom that brings together the benefits of optical stereo microscopy and digital technology into a single unique system.

Features
- 6x- 186x magnification.
- Digital stereo 3D with vivid depth perception.
- Remote viewing of stereo 3D images in real-time.
- Real stereo magnification with 3D depth perception.
- Unparalleled hand to eye coordination.
- Remote viewing and sharing of live 3D images.
- Globally patented 3D technology.
- 10:1 zoom ratio for greater flexibility of application.
- Long working distances and low light requirements.
- Large field of view increasing efficiency and ease of working.
- Users are able to wear spectacles for eye correction or safety.
- No special eyewear or VR headsets.
- Optimized ergonomics.

The 413B Heavy Duty Flux Remover

The 413B Heavy Duty Flux Remover is especially formulated to dissolve and remove the most stubborn, encrusted, hard, baked-on fluxes and residues left on parts after soldering. It penetrates quickly to remove non-ionic and ionic contaminants left on the non-component side of circuit boards. It can also work aggressively on isolated and hard to reach areas requiring spot cleaning. It is offered in aerosol and liquid formats.

Features
- RoHS Compliant
- Quickly dissolves burnt on flux.
- Fast dry time
- Zero residue
- CARB Compliant (Categories & Limit: Electronic Cleaners 75%)

Fine Braid Super Wick™

Fine Braid Super Wick ™ is a tightly woven, oxide-free copper braid coated with RMA flux. Its high purity and tight weave make it fast-wicking, quickly removing solder and minimizing dwell time. It is suitable for general purpose solder removal, including reworking and repairing of circuit boards, benchtop repair and service, through-hole repair, and surface mount assembly touch-up.

Features
- Available in 1.0, 1.5, 2.0, 2.5 and 3.0 mm width.
- Available in 1.5, 7.5 and 15 m length.
- ESD safe bobbins for 1.5 m size.
- NSF-nonfood compounds program listed.

No-Clean Super Wick™

No-Clean Super Wick ™ is a tightly woven, oxide-free copper braid coated with a high activation temperature no-clean flux. Its high purity and tight weave make it fast-wicking, quickly removing solder and minimizing dwell time.

It is suitable for general purpose solder removal, including reworking and repairing of circuit boards, benchtop repair and service, through-hole repair, and surface mount assembly touch-up.

Features
- Flux residue in non-conductive and non-corrosive
- Available in 1.5, 2.0 and 2.5 mm width.
- Available in 1.5 and 15 m length.
- ESD safe bobbins for 1.5 m size.
- NSF-nonfood compounds program listed

Super Duster™ 152

Super Duster ™ 152 is a pressurized gas duster made with 100% HFC152A gas. Its powerful blast blows away microscopic dust, lint, and foreign particles. Recommended for use in home or office over 402A.

Features
- 100 HFC 152A gas.
- Economical.
- Ozono safe.
- Non-VOC
- Non- flammable aerosol®
- Zero residue.
- High flow delivery system.
- Suitable for use in food facilities as Non-Food Chemical-Canadian and NFS recognition letters available on request.
- Filtered to 0.2 Microns.

Lead Free Super Wick™

flux. Its high purity and tight weave make it fast-wicking, quickly removing solder and minimizing dwell time.

It is suitable for general purpose solder removal including reworking and repairing of circuit boards, benchtop repair and service, through-hole repair, and surface mount assembly touch-up.

Features
- Suitable for use with lead-free solder.
- Flux residue in non.conductive and non-corrosive.
- Available in 1.5, 2.0 and 2.5 mm width.
- ESD safe bobbins.
- NSF-nonfood compounds program listed.

Durastatic™

Features
- Genuine Menda "dish-type" liquid dispenser pumps and bottle one-handed operation dispensing small amounts of liquid into the top dish.
- HDPE Durastatic ™ Bottles are dissipative and are designed to protect your valuable static sensitive printed circuitry; electrostatic charges will be removed to ground when grounded.
- No migratory additives- reduces the chance for contamination from the bottle.
- Highly visible with an ESD protective symbol, allowing people to immediately know the bottle is ESD protective.
- Meet ANSI/ESD S20.20 and ANSI/ESD S541:
- Rtt: 1x 104 to < 1x1011 ohms tested per ANSI/ESD STM11.12
  - <2 second charge decay, tested per IEC 61340-5-1:1998
  - "Flask" style shape provides stability.
- Dispenses approximately 2cc of liquid with each pump.
- Genuine Made in America Menda pump and bottle - accept no substitutes.

Flux Dispenser
With 18, 20, And 26 Ga Needle Tips, Durastatic® 2 Oz.

Features
- Low Density Polyethylene (LDPE) Durastatic® liquid dispensing flux bottles with needle tips are safe around static sensitive components.
- ESD properties are embedded in the bottle and conductive cap for longer product life.
- Silicone Free - No migratory or surfactants to cause contamination or oily surface.
- Volume Resistance: 1 x 107 ohms to <1 x 1010 ohms per ANSI/ESD 11.12.
- Embossed with an ESD protective symbol.
- Available with 3 different needle tip sizes: 18, 20, 26 GA.
- Available in 2 colors: Blue and Yellow.
- Made in the United States of America.

Durastatic®
Dissipative BottlesWith Ghs Label

Features
- High density polyethylene (HDPE) Durastatic® bottles are dissipative and 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
- No migratory additives- reduces the chance for contamination from the bottle.
- Embossed with an ESD protective symbol, allowing people to immediately know the bottle is ESD protective.
- Long lasting dissipative properties:
  - Rtt: 1 x 104 to <1 x 1011 ohms tested per ANSI/ESD STM11.12 <2 second charge decay, tested per IEC 61340-5-1: 1998
- Dispenses approximately 0.2cc of liquid with each pump.
- Compatible with any 38-400 threaded neck pump or cap
- Genuine Menda "dish-type" liquid dispenser pumps and bottle one-handed operation dispensing small amounts of liquid into the dish.
- Genuine Made in America Menda pump and bottle - accept no substitutes.

Aviation Degreasers

Especially engineered aviation degreasers with strong grease removal of hydraulic fluid, fuel oils, lubricating oils and greases, and other organic residues. They are fast evaporating, quick penetrating, and ideal for cleaning aviation parts.

Features
- Strong cleaners for removing hydraulic and lubricating fluids.
- Non-flammable, fast-drying and leaves no residue.
- Do not contain n-propyl bromide.
- Compliant with Boeing Spec D6-17487 Rev. T.

SPR Super Clean PS

Hydro Entangled cellulose/polyester wipe with high absorbency. Economical, but very high quality wipes are ideal for production and maintenance applications.

Features
- High absorbency.
- Economical.

3 Blue Shower

3 Blue Shower is a non-flammable cleaner formulated to be powerful, yet economical. Eliminate bruising and scrubbing, saving time and materials. Clean oil and contaminants off metal parts, printed circuit boards, barcode instruments switch boxes, gear relays, and electronic motor controllers.

Techspray has produced Blue Shower® maintenance cleaners for over 30 years, making Blue Shower a staple in maintenance departments all over the world!

Features & Benefits
- Powerful cleaner
- Non-flammable
- Rapid evaporation
- Zero residue
- Dielectric strength 27.3 kv
- Non-ozone depleting
- NSF registered K1 and K2

64129, Cl-7000 Ht Dc Electric Screwdriver

#1 to #10 screws (2.0 mm to 5.0 mm) Tamper resistant torque nut standard 6 ft detachable cord.
Light Spring Type: Yellow
Heavy Spring Type: Purple

Features & Benefits
- Product Group Assembly
- Electric or Pneumatic Electric
- Manual or Powered
- Low Voltage DC w/Power Source or Direct Plug-in DC
- Brush Type or Brushless Brush
- Torque 2.7 to 22.1 ibf in 0.3 to 2.5
- Body Style Inline Drive Type ¼
- Hex Operation Lever Start
- Speed (HI) 480
- Length 10.0 in 255 mm
- Weight 750 g 1.7 ib
- Body Diameter 1.5 in 37 mm
- Light Spring Type: Yellow
- Heavy Spring Type: Purple
- ESD Safe No Note
- Low speed not recommended
- DC Electric Drivers Standard-Size Drive 1.7 - 30 lbf in ¼ hex or 5.0 mm drive
- Lever or Push-to-Start 6' detachable cord
- CL-6000, CL-6500, CL-7000 & A-6500
- Standard to medium torque applications
- #1 to #10 screws (2.0 mm to 5.0 mm)
- Alpha-Series (A-Series) features a rare earth magnet motor for more power
- Tamper-resistant torque nut standard
- Low RPM models for low speed applications
- For 220V power supplies

1912 ESD Chair

Rotary chair with solid conductive polyurethane foam molded integral leather back and seat, back tilting machinery, back height pneumatic adjust, base with 5 adjustable rimed footrest anchors (1912A) and conductive ends; 1 x 109 W resistance.

Features
- Seat and back: Seat with 8 layers of molded beech wood: Thickness: 9 mm; back with 7 layers: Thickness 8 mm covered with solid conductive polyurethane (PUR) foam and integral leather.
- Pneumatic elevator: 26 cm height adjust (1912A), effective 11 cm (1912B), 0.5 cm rail tube, 300 N pneumatic charge.
- Base: Die-cast aluminum, five 62 cm anchors painted in black 0 (24").
- Rimmed foot rest (only 1912A): Adjustable, 0.45 cm, chromed rim/black star.
- Casters and ends: Conductive black ends. Polyamide (PA) conductive black twin casters (optional).
- Maintenance: Free of maintenance.
- Spare parts: Free of spare parts .
- Warranty: 5 years (1 shift every 8 hrs. a day) against material or workmanship faults.

Dimensions
- Seat height measured from the floor:
  - 1912A - max 54 cm, min 39 cm.
  - 1912B - max 80 cm, min 50 cm.
- Seat depth: 39 cm.
- Seat width: 42 cm.
- Back height: 26 cm.
- Back width: 42 cm.
- Foot rest adjust range: 25 cm (1912A)
- Base diameter: 62 cm.

1915-1916 SD

Fixed bench with tubular frame and anti-skid ends, polyurethane seat, 8-position graduate seat height adjustment, and forward and side turn seat tilting adjustment.

Features
- Seat: Solid polyurethane (PUR) foam cover steel soul free of conductive CFC (ESD conductive 1916) with integral leather.
- Machinery: Iron with height adjusted from 60 to 83 cm on eight 3.5 steps, each one with 16° side turn, 15° forward tilt and/or workmanship.
- Base: 0.27 mm tubular iron frame, 2 mm wall thickness.
- Painting: Black epoxic baked.
- End: Iron insert covered with polyurethane (PUR) (ESD conductive 1916).
- Maintenance: Free of maintenance.
- Spare parts: Free of spare parts.
- Warranty: 5 years (1 shift every 8 hrs. a day) against material or workmanship faults.
- Weight: 8 Kg.

Dimensions
- Total height: 83 cm
- Seat width: 31 cm
- Seat depth: 22 cm
- Max base width: 52 cm
- Base depth: 42 cm
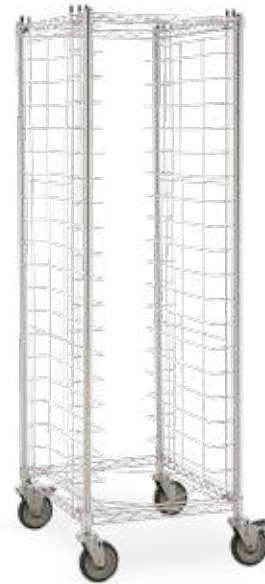- Electrical resistance: <1x109 ohm, acc. to STM 12.1-2006

Metro Mobile End- And Side Load Wire Bun Pan Racks

Cost Effective: Metros´s Bun Pan offer an economical solution for study, dependable storage and transport of bun pans.

Two Styles Available: End-load models allow for optimum floor space utilization, while side- load models offer a larger tray landing area. Both styles can be loaded on one side and unloaded from the other maximum efficiency and convenience Choice of Slide Spacing: Each Style is available with a choice of slide spacings - 11/2 '' (38mm), which has a 38 pan capacity, and 3'' (76mm), which has a 20 pan capacity.

UPS Shippable in one box for lower freight costs.
Quick, Secure Assembly: Units assemble quick and easy without special tools.

Lightweight, Maneuverable: 5" (127 mm) swivel casters promote ease of mobility.

ESD Trays Overview

Features
MFG Tray´s Fibrestat product line encompasses a variety of trays, containers and speciality products molded from high-strength, glass-reinforced composites that are specifically formulated to dissipate electrostatic discharge and to safely and effectively convey, accumulate and store static sensitive parts and assemblies.

The company´s ESD-safe conductive products have a surface resistivity of less than 105 to 106 ohms, and static dissipative products have surface resistivity between 105 to 1011 ohms.

Model Measures
332000 Tray 25 ¾" (654mm) x 17-⅞" (454mm) x 1-⅛" (29mm)
217109 Tray 27" (686mm) x 20" (508mm) x 1" (25mm)

SMT ESD PCB Magazine Rack

Features
ESD SMT PCB magazine rack is made according to International standard, comply with International and National standard. It is used for inserting PCB boards by manual or used in loader and unloader machines for SMT factories. It has many sizes to fit different SURFACE RESISTANCE.

- 10e5-10e9 ohms
- Side Plate Material: PP compound with conductive fiber.
- Side Plate Type: Injection mold
- Color: black
- Trolley frame rack material: stainless steel
- Trolley frame rack: square type
- Adjustable method: handle adjustable/screw adjustable

ESD Plastic Containers

Protect your electrical components from typical electromagnetic interference (EMI), electrostatic or induced fields. Quantum´s Ultra Stack conductive containers provide a barrier that these fields cannot penetrate and prevent the build-up of electrostatic charge.

- It will not interfere with the conductivity of your equipment.
- Molded from a carbon-filled copolymer polypropylene material with an electrostatic decomposition rate of less than 0.1 second.
- Meets the conductivity standards tested with ASTM-D257 methods.
- Meets Mil-B-81075B military specifications.
- The surface resistivity is less than 105 ohms per square.
- It remains

NON-ESD Plastic Containers

- Ideal for industrial, commercial, electronic and sanitary industries.
- High density injection molded polypropylene.
- Resists most solvents and chemicals.
- High impact resistance provided by multi-ribbed sides.
- Stacks securely with or without optional lids thanks to raised edges.
- Extra rib resistance also prevents bulging and spread when stacked.

ESD Corrugated Box

Description
Provides physical protection with conductive material providing reliable path-to-ground.
- Includes steel wire frame for extra strength.
- Conductive plastic handle for ease of handling while providing reliable path-to-ground.
- Product ships assembled.
- Available options include: (1) Lid manufactured from Plastek™; (2) Static Dissipative Foam bottom to provide ESD and shock protection.

Convenient storage tray made of conductive material, providing reliable path-to-ground.
- Includes steel wire frame which allows trays to stack, improving productivity and saving valuable space.
- Static dissipative foam bottom provides ESD and shock protection.
- Product ships assembled.
- Static Dissipative Foam bottom laminated to Plastek™.
- Conductive 10E2 - 10E4 ohms material provides reliable path-to-ground.
- Ideal for use where corrugated and/or paper products cannot be used.
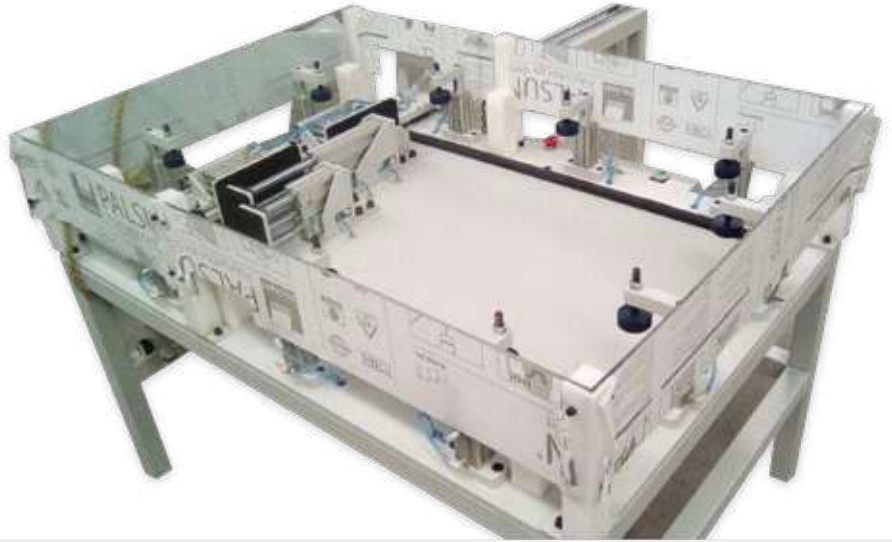- Great container for Kanban.

Assembly Fixture

- Precision activity.
- Improve production time.
- Quality in our product.

Process automation, service in automated systems.

Our products
- First and second pass dishes.
- SMT pallet
- Wave palette
- Selective wave pallet
- Selective wave nozzle
- Pressfit bases
- Pressfit dice
- Base router
- Assembly Fixtures
- Screw fixing
- Welding Fixtures Manual
- Manipulation Fixtures
- Manual presses
- Automatic stations
- Machinery Automation
- Spare parts

Eva Black Conductive Eva Foam

Ethylene vinyl acetate (EVA) foams are a specific form of cross foams. Although firmer than other closed cell materials, EVA foams have a softer and more rubber-like texture. They also provide and recover their shape. As a result EVA foams are ideal in product packaging applications where a high level of protection and durability.

Specifications
Physical characteristics
- Color: Black
- Indent Force Deflection 25%
- Corrosity

Item Numbers
- EVA-3MM-BLACK 16 in. x 24 in. x .125 in.
- EVA-13MM-BLACK 16 in. x 24 in. x.
- EVA-25MM-BLACK 16 in. x 24 in. x 1.0 in.
- BLACK Conductive EVA Foam

- +68C to - 70C (factory test)
- 2.5 Kgf/cm (per ASTM D 3575)
- 2.7 Kgf/cm2 (per ASTM D 3575)
- 9.8 psi (per ASTM D3575)
- <5 x 105 ohms (per ASTM D991)
- < 5 x 105 ohms (per ASTM D991 ⅛ in thickness)
- .500 in. (½ in. thickness)
- (1 in. Thickness)

31201517 / Cin-Color Luvitape Color Tape 48X150

Description
- Polypropylene Film (BOPP).
- Synthetic Hot Melt Adhesive - Backing 20/20
- Total thickness of the tape 0.040 mm (1.6mm).
- Film thickness 0.020 mm (0.001 inch) +/- 0.002mm.
- Longitudinal Tension 19 pounds / inch +/- 3 lb/in
- Transverse Tension 32 lbs / inch +/- 3 lb/in.
- Adhesion to Steel 40 Oz / inch +/- 5%. 110% elongation at break.
- Width 2" (48mm)
- Meters 150 mts +/- 0.5 mts.
- Available colors: orange, red, yellow, blue.
- Storage conditions: store in a clean dry place.
- Temperature: 25° + -2°C 55% + - 5% relative humidity is recommended.
- Life period: approximately 1 year.

QPK-1000-METAL-IN Static Shielding Bags

Transparent, metalized static shielding bags that provide a safe package for your ESD sensitive products. These bags are a four layer construction incorporating a polyester dielectric and metal layer to provide Faraday effect shielding of ESD and fields. Tribocharging is minimized by the specially processed polyethylene. The bags are available flat or with various style closures. QPK bags are coded for QC traceability.

Specifications
- Typical Values - MP005
- Thickness: 3.1 mils. Nominal - MP005
- Light Transmission: 40%- Tobias/Macbeth
- Tensile Strength: > 25 lbs - ASTM D882
- Seal Strength: Pass- MIL-STD-81705

HEAT SEALING CONDITIONS
- Temperature: 250°F-375°F
- TIME: 0.5 - 3.5 seconds
- Pressure: 30-70 psi
- Outgassing: Pass- ASTM E595
- Non-corrosive: Pass - FTMS 101 MTH 3005

ELECTRICAL PROPERTIES
- Surface resistivity / Resistance: ASTM D257 - or ANSI/ESD STM 11.11
- Interior: <10
- Superior: <10
- Metal
- Static Shielding:
- Static Decay: < 0.05 seconds - FTMS 101 MTD 4046

CHARGE GENERATION
- Teflon: 0.09 nC/sq. in. -Modified Incline Plane
- Quartz: 0.01 nC/sq. in.
- Recommended Storage: 36°F- 80°F -10% - 30% RH

PLI-18/50 18'' Stretch Film Cal 50 1100 FT

Co- Extruded Polyethylene film which is used in the Tying and Strapping of pallets, furniture, in addition to having other applications in product packaging.
It can be used manually or with any applicator. Due to its low weight, it has higher performance than other resins, it provides a good barrier against moisture.
The 45, 50, 60, 70 and 80 Gauge manual films have a multiplayer Polyolefin co- extrusion, developed for packing a wide variety of products such as paper, plastics, textiles, food, medicine, leather, etc.

Specifications
- Recyclable
- High elongation
- Transparent
- Dust protection
- High resistance
- Greater adherence
- Performance
- Manual measurements in inches: 1", 2",3", 5", 9", 10", 18", 20"
- Gauges: from 50 to 80.
- Feet: from 500 to 2000.

841AR-P Pen 841AR-P Pen

841AR-P pen dispenses an acrylic lacquer pigmented with conductive nickel flakes. The cured traces are durable and corrosion resistant. They adhere well to plastics and most electronic substrates. The traces are flexible, but the product works best on a smooth, flat, hard surface. The valve tip opens when pressed against the surface, and the flow is controlled by squeezing the barrel.

Features
- Creates durable, reliable and conductive traces
- Typical trace width: 1.5–2.0 mm
- Dries in 1 minute at room temperature
- Strong corrosion resistance
- Does not contain toluene, xylene, or MEK

842AR Liquid

842AR is designed to provide a conductive coating for the interior of plastic electronic enclosures that suppresses EMI/RFI emissions. It excels when the highest level of shielding is required. Also, its thin minimum layer height makes it suitable for board level applications.

Features
- Provides superior EMI/RFI shielding over a broad frequency range
- Strong corrosion resistance
- Mild solvent system, safe on polystyrenes
- Does not contain toluene, xylene, or MEK
- Also available in aerosol (842AR-340G) and pen (842AR-P) formats, see separate TDSsmaterial to be used with ESD workstation monitors.
- Lot coded for Control & Auditing Purposes.
- Lead-free RoHS compliant

65132-Roll, Statfree B2 Plus Vinyl Dark Blue, 0.060''X36''X50'

Features
- 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 surface1.
- NEW Reinforced Vinyl Compound
- Improved material compound is more durable, dimensionally stable, and suitable for most electronic assembly applications.
- Dissipative (1 x 106to <1 x 109 ohms Rtt) Top Layer - Limited Lifetime Warranty
- Meets ANSI/ESD S20.20 worksurface required limit and recommendation of ANSI/ESD S4.1 for contact with ESD susceptible items.
- Conductive (<1 x 106Rtt) Bottom Layer - Limited Lifetime Warranty
- 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.
- Lot coded for Control & Auditing Purposes.
- Lead-free RoHS compliant

Customized
EVA Machining and Fixtures

We have an alliance with Avante to provide our customers with the best quality products they need.
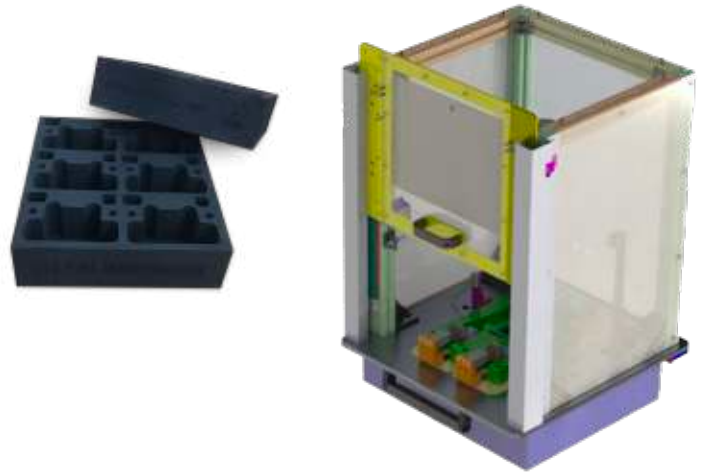
Fixtures
An excellent alternative to improve quality control processes in repetitive tasks
- Assembly Fixturing
- Electrical test fixture
- Bolting Fixture
- Manual welding fixture
- Handling Fixture

EVA machining
Excellent protection, rugged, lightweight, and custom-designed machines.
- Perfect for storing and transporting electronic devices
- Sensitive to prevent static generation due to its high conductive grounding capacity
- Conductive grounding capacity

Additional Products

- Eva Trays
- First And Second Pass Vacuum Plate-Mpm
- First And Second Pass Vacuum Plate-Dek
- Printing Pallets
- Wave Solder Pallets
- Selective Pallets
- Selective Wave Nozzle
- H5" Dek Tower
- H2" Dek Tower
- Pressfit Bases
- Pressfit Dice
- Router Bases
- Assembly Fixtures
- Screwing Fixtures
- Manual Welding Fixtures
- Handling Fixtures
- Manual Presses
- Automatic Stations
- Machinery
- Automation
- Replacement Parts