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About Pro-Pack

For more than 24 years, the name of Pro-Pack has been synonymous with excellence in providing high quality Static-Control products.

Pro-Pack operates in 6 countries with a world-class work force and well-diversified customer market segments and business units. The company continues to grow as a global enterprise through the expansion of its diverse business activities.

Our global presence and resources provide value-added solutions that are integrated with manufacturing and logistics to optimize customer & operations and competency in their respective industry.

Pro-Pack cares for your business and so make Pro-Pack your partner to work with today!

Company History

Since 1984, we have been in the industrial products distributions business, specializing in supplying high quality clean room and electrostatic control products. Our major product lines are:

- Clean room and ESD Packaging materials
- Workstation and clean room accessories
- Clean room Garments
- ESD test and measurement equipment, calibration services
- ESD training

Over the years, Pro-Pack has experienced tremendous expansion into its capabilities such as diversifying into different market segments.

Today's Pro-Pack stood for quality, value-added solutions, reliability and satisfaction.

Working together with Pro-Pack ensures that your business will be scaling ladder to boundless success in no time!

Our Team

Pro-Pack highly value the people who work with us — our employees. Each individual with us is a Pro-Pack brand ambassador, responsible for upholding the values of our organization.

We aim to stimulate constant creativity and versatility throughout our organization by maintaining a culture in which our people feel valued, energized and rewarded for their ideas and contribution to our success.

And we strongly support and encourage our people in discovering their own potential, through excellent learning and development opportunities that are available to them throughout their careers in Pro-Pack.

Our Network

Our full spectrum of products and services is delivered through an extensive network of 13 branches in the South East Asia region – Singapore (HQ), Malaysia, China, Thailand, Indonesia, India, Vietnam and Philippines.

Pro-Pack has a well established regional presence, particularly in the South-east Asia region. With our strong foothold in the region, we understand the corporate culture, business mindset and are well-placed to serve and support customers’ needs.

With our dominant presence, Pro-Pack have also further expand our business to include customers in Europe, Asia and many parts of the world.
MISSION
Pro-Pack Materials Pte Ltd was established in 1984. Our Mission is to become a world class specialist in Cleanroom & Electrostatic Discharge (ESD) Control Products.

VISION
Pro-Pack has a vision to expand our business through globalization and make “Pro-Pack” a worldwide renowned name.

STRENGTH
Pro-Pack has cultivated and trained a pool of dedicated and efficient professionals to meet the demands and requirement of our customers. Our staff offer a tremendous competitive edge over other suppliers. Every Pro-Packer aims to perform his/her ultimate capability and to provide the highest standard of customer service.

COMMITMENT
Pro-Pack is committed to fulfill customer satisfaction with consistent supplies of high quality products and services. We have achieved ISO9001.2000 Standard.

PRODUCTS
Pro-Pack has grown robustly since its incorporation to supply packaging materials, equipments, industrial floorings, cleanroom accessories and calibration services. Our customers include MNCs in the electronics and semiconductors manufacturing, computer and telecommunication industries, solar industries.

NETWORK
Pro-Pack has built a network which covers many countries in the Asia Pacific region. We have established our presence in China, Malaysia, Thailand, Indonesia, The Philippines and India. Pro-Pack has also extended our services to customers in Taiwan, Europe and other part of the world.
<table>
<thead>
<tr>
<th>Material Type</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Static Shielding Bag</strong></td>
<td>- Antistatic polyester film and metal shielding outer layer with heat sealable&lt;br&gt;- 5 layer construction&lt;br&gt;- Good moisture barrier properties&lt;br&gt;- Good tensile strength&lt;br&gt;- High puncture resistance&lt;br&gt;- Thickness: 3.1 mil</td>
</tr>
<tr>
<td><strong>Black Conductive PE Bag</strong></td>
<td>- Homogeneous conductive material&lt;br&gt;- Provides EMI / RFI shielding&lt;br&gt;- Excellent grounding properties&lt;br&gt;- Good for handling explosive powders, PCB assemblies and components</td>
</tr>
<tr>
<td><strong>Metalized Moisture Barrier Bag</strong></td>
<td>- Thickness: 4.8 mil.&lt;br&gt;- 3 layer construction&lt;br&gt;- Good moisture barrier properties&lt;br&gt;- Good tensile strength&lt;br&gt;- High puncture resistance</td>
</tr>
<tr>
<td><strong>Aluminum Moisture Barrier Bag</strong></td>
<td>- Thickness: 6.1 mil.&lt;br&gt;- 4 layer construction&lt;br&gt;- Good moisture barrier properties&lt;br&gt;- Good tensile strength&lt;br&gt;- High puncture resistance</td>
</tr>
<tr>
<td><strong>Tyvek Moisture Barrier Bag</strong></td>
<td>- Thickness: 170 miron.&lt;br&gt;- 5 layer construction&lt;br&gt;- Good moisture barrier properties&lt;br&gt;- Good tensile strength&lt;br&gt;- High puncture resistance</td>
</tr>
<tr>
<td><strong>Multi Layer Bag</strong></td>
<td>Any combination of the below materials&lt;br&gt;- Static shielding material&lt;br&gt;- Aluminum material&lt;br&gt;- Conductive PE material&lt;br&gt;- Single or Double layer normal bubble&lt;br&gt;- Single or Double layer antistatic bubble&lt;br&gt;- Amide free material</td>
</tr>
<tr>
<td><strong>Pink Antistatic PE Bags</strong></td>
<td>- Come in various color&lt;br&gt;- Imprinted in the antistatic properties&lt;br&gt;- Ziplock and Gazetted is available&lt;br&gt;- Customise to all sizes</td>
</tr>
<tr>
<td><strong>Cleanroom Amide Silicon Free Bag</strong></td>
<td>- Made from low density polyethylene PE material&lt;br&gt;- Manufacture in cleanroom environment&lt;br&gt;- Customise to all sizes&lt;br&gt;- Generally transparent but other colour available upon request</td>
</tr>
</tbody>
</table>
Pink Antistatic Double Layer Bubble
- Excellent shock absorbing.
- Excellent cushioning properties.
- Non corrosive.
- Light weight.
- Available in rolls, sheets, bags and cut pieces.
- Added layer for better strength.

Pink Antistatic Single Layer Bubble
- Excellent shock absorbing.
- Excellent cushioning properties.
- Non corrosive.
- Light weight.
- Available in rolls, sheets, bags and cut pieces.

Normal Double Layer Bubble
- Excellent shock absorbing.
- Excellent cushioning properties.
- Non corrosive.
- Light weight.
- Available in rolls, sheets, bags and cut pieces.
- Added layer for better strength.

Normal Single Layer Bubble
- Excellent shock absorbing.
- Excellent cushioning properties.
- Non corrosive.
- Light weight.
- Available in rolls, sheets, bags and cut pieces.
Pro-Pack Materials

Normal Polyethylene (PE) Foam

- 100% Virgin Polyethylene.
- Good cushioning
- Customize shape and size.
- Varies density available.

Conductive Polyethylene (PE) Foam

- Carbon and Polyethylene.
- Non corrosive.
- Good cushioning
- Resistace reading : 1.0 E 3 to 1.0 E5 Ohm
- Standard size : 1m x 1m x 5mm
- Custom size available.

Conductive Polyurethane (PU) Foam

- Carbon and Polyurethane.
- Non corrosive.
- Good cushioning
- Resistace reading : less than 1.0 E5 Ohm.
- Standard size : 1m x 1m x 5mm
- Custom size available.

Conductive Rubber Foam

- Carbon and Polyethylene.
- Non corrosive.
- Good cushioning
- Resistace reading : less than 1.0 E5 Ohm.
- Standard size : 1m x 1m x 20 mm
- Custom size available.

ESD Polyethylene (PE) Foam

- 100% Virgin Polyethylene.
- Good cushioning
- Resistace reading : less than 1.0 E10 Ohm.
- Customize shape and size.
- Varies density available.

Pink ESD Wafer Foam Separator

- 100% Virgin Polyethylene.
- Good cushioning
- Resistace reading : less than 1.0 E10 Ohm.
- Use in packing of wafer.
- Size : 8 " , 12".
- Thickness : 3 mm
- Other thickness available.
Pro-Pack Materials

Cleanroom / ESD Workstation

**ESD Homogenous Mat - Brown**
- Made from natural Rubber.
- Top layer - Static dissipative
- Bottom layer - Conductive
- Surface resistivity:  $< 1.0 \times 10^9$ Ohm / Sq

**ESD Homogenous Mat - Black**
- Conductive Material.
- Surface resistivity:  $< 1.0 \times 10^9$ Ohm / Sq.
- Colour: Black.

**Conductive Antifatigue Mat**
- Conductive Material.
- Good cushioning effect.
- Surface resistivity:  $10^8 - 10^6$ Ohm / Sq.
- Colour: Black

**ESD Antifatigue Mat**
- Homogenous material.
- Material is static dissipative
- Surface resistance:  $< 9.0 \times 10^9$ Ohm
- Colour: Brown
- Suitable for cleanroom use.

**ESD 2 Layers Mat**
- Made from natural Rubber.
- Top layer - Static dissipative
- Bottom layer - Conductive
- Resistivity reading of Top:  $< 1.0 \times 10^9$ Ohm / Sq.
- Resistivity reading of Bottom:  $< 1.0 \times 10^6$ Ohm / Sq.

**ESD 2 Layer Rubber Mat - High Temp**
- Made from natural Rubber.
- Top layer: Static dissipative
- Bottom layer: Conductive
- High Temp.: 250 °C for 10 Min
- Resistance reading of Top:  $< 1.0 \times 10^9$ Ohm
- Resistance reading of Bottom:  $< 1.0 \times 10^6$ Ohm.

**Static Dissipative 3 Layer Mat**
- Top Layer: PVC
- Center Layer: Conductive
- Bottom Layer: PU Foam
- Good cushioning effect.
- Carbon free construction
- Surface resistance:  $< 10^9$ Ohm
- Thickness: 3 mm
- Colour: Blue, Green, Grey

**ESD Homogenous Mat - Blue**
- Static dissipative material.
- Good cushioning effect.
- Surface resistance:  $< 1.0 \times 10^9$ Ohm.
- Thickness: 6 mm
- Colour: Blue
ESD Production Chairs

ESD Chair are commonly used in the electronic industries. It helps dissipative the charges away when operators are working in the production environment.

Features:

- Static Dissipative Fabric.
- Single Level for adjustment of height.
- Resistance To Ground: $1.0 \times 10^6$ to $1.0 \times 10^7$ Ohm
- Adjustable height Chair: 50 cm to 70 cm.
- Tested to ANSI / ESD STM 12.1 Standard.

### Accessories available for your custom needs

Pro-Pack understands the needs to customize requirements. That’s why we have all the accessories in our warehouse to fabricate the right chair for our valued customers.

- Gas Cylinder
- Chrome Wheel
- Conductive Wheel
- Conductive Stud
- Foot Ring
**Capacitive Wrist Fabric Band**
- Full metal buckle plate and conductive yarn provide 360 degree contact around wrist.
- Conductive yarn provides good conductivity.
- Adjustable to suit different wrist size.

**Coil Cord For Capacitive Wrist Strap**
- Use with wrist band.
- Banana plug.
- Alligator clip.
- Built in 1 Meg ohm resistor.
- Colour : Blue, Black.
- Available length : 6 ft, 9 ft or 12 ft

**Grounding Cord**
- Comes with 1 Meg ohm built in resistor.
- Concealed snap button.
- Grounding point with banana plug, alligator clip or cable lug.
- Length : 6 ft

**Black Insulative Stainless Steel Capacitive Wrist Band**
- Comfortable watch band.
- Inner Stainless steel.
- Offers consistent result.

**Grounding Point**
- Provides two banana jack grounding ports.
- Easy access grounding ports regardless of outlet orientation.
- Low Cost.
- Non-Flammable ABS plastic

**Dual Jack Grounding Block**
- Easy to install.
- Length : 4 ft wire.
- Grounding point with either snap button or cable lug.

**Grounding Point**
- Provides two banana jack grounding ports.
- Snap on button for table mat grounding.
- Easy access grounding ports regardless of outlet orientation.
- Low Cost.
Conductive Bin
- Made from conductive PP material.
- Surface resistance: \(< 7 \times 10^6\) Ohm
- Size A: 88 x 89 x 42 mm
- Size B: 154 x 89 x 62 mm

Conductive Corrugated Box
- Made from conductive PP material.
- Surface resistance: \(< 7 \times 10^5\) Ohm
- Customize sizes available.

Antistatic Hinged Box
- Clear antistatic coating.
- Surface resistivity: \(< 10^{11}\) Ohm / sq.
- Various sizes available.

Conductive Hinged Box
- Black conductive PP material.
- Surface resistivity: \(< 10^5\) Ohm / sq.
- Various sizes available.

Conductive Flat Rack
- Conductive PP material.
- Double Size usage.
- Size: 140 x 480 x 35 mm.
- Loading capacity: 25.
- Surface resistivity: \(< 10^4 - 10^6\) Ohm / sq.

Conductive Angle PCB Rack
- Conductive ABS.
- Size: 325 x 205 x 93 mm.
- Surface resistivity: \(< 10^4 - 10^6\) Ohm / sq.

Conductive Flat Rack
- Conductive PP material.
- Size: 179 x 490 x 25 mm.
- Loading capacity: 25.
- Surface resistivity: \(< 10^4 - 10^6\) Ohm / sq.

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Conductive Flat Rack
- Conductive PP material.
- Size: 179 x 490 x 25 mm.
- Loading capacity: 25.
- Surface resistivity: \(< 10^4 - 10^6\) Ohm / sq.
Pro-Pack Materials

Vacuum Form Tray
- Various material available.
- Customize design.
  Surface resistance: < 10^{-2} - 10^{-9} Ohm.

Conductive ABS Tray
- Made from conductive ABS material.
- Surface resistivity: < 10^{-4} - 10^{-2} Ohm/sq
- Various colour available.
- Customize design.

Conductive PP Tray
- Conductive PP material.
  Surface resistivity: < 10^{9} Ohm/sq.
- Various colour available.
- Customize design.

Static Dissipative Waste Paper Bin
- High density polyethylene.
- Permanent dissipative.
- High impact resistance.
- Cleanroom and environmentally safe
- Will not slough or outgas.
  Size: 16” x 22”.
- Surface resistance: < 10^{-9} Ohm.

Static Dissipative Dispenser
- HDPE mixed with antistatic compound.
- Stainless steel pump.
- Air tight check valve.
  Surface resistivity: 10^{-10} to 10^{-5} Ohm/sq.
  Sizes: 4 oz, 6 oz, 8 oz.

Glass Dispenser
- Glass container
- Stainless steel pump.
- Air tight check valve.
  Sizes: 6 oz.

Antistatic Rubber Band
- Made from 100% rubber materials.
  Surface resistance: 2 x 10^{-10} Ohm.
  Colour: Pink.
  Packing: 1 kg per bag.
  Various sizes available.

Static Dissipative Rubber Band
- Made from 100% rubber materials.
  Surface resistance: 10^{-8} Ohm.
  Colour: Black
  Packing: 1 kg per bag.
  Various sizes available.
**Conductive Velcro Strap**
- Metal buckle – High Temp
- Plastic buckle – Low Temp.
- Size : 110 cm, 60 cm
- Colour : Black
- Surface resistance : < 10$^6$ Ohms

**ESD Safety Helmet**
- Excellent Impact protection.
- Surface resistance : $10^5$ to $10^9$ Ohms.
- Suitable for use in Cleanroom Environment.

**Static Dissipative PP Strap**
- Made from PP material.
- Size : 11 mm
- Surface resistance : $2 \times 10^8$ Ohm.
- Colour : Black

**ESD Safety Harness**
- Excellent safety properties.
- Shock absorbing properties.
- Surface resistance : $10^5$ to $10^9$ Ohm.
- Suitable for use in Cleanroom Environment.

**Static Dissipative Laminate**
- ESD hard top.
- Conductive center layer for discharging of static electricity.
- Surface resistance (Top) : $2 \times 10^8$ Ohms.
- Surface resistance (Middle) : $2 \times 10^5$ Ohms.
- Static decay : less than 0.5 Sec.
Chrome wire shelving or Trolleys are widely used in Electronic industries or cleanroom facilities, commercial shop floor and warehouse to store production parts or finish product before shipment.

Parts are packed knock down and it can be easily install with Rubber Hammer.

Variety of shelf sizes and accessories available for customization to fit production floor space.

Min. load of 100 kg per shelf.

Surface Resistance : $< 10^6$ Ohm.

**Wire Shelve / Trolley**

**Accessories**

- Chrome Wire Shelves
- Handles
- Wheels
- Footplates
- Post
- Coupling
- Donut Bumpers
- Shark Cages
- Ledges
- Dividers
- Label Holder

**Procedure for Assembly of shelf**

1. Determine the height of the post.
2. Mount coupling to the post of the desire height.
3. Insert post through the collar of the shelf.
4. Use Rubber Hammer to secure the collar to the coupling.
Chrome Wire Shelving (Standard)

Standard chrome wire shelving, also available in solid chrome top

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5007-0001</td>
<td>14” x 36” chrome wire shelf</td>
</tr>
<tr>
<td>5007-0004</td>
<td>18” x 30” chrome wire shelf</td>
</tr>
<tr>
<td>5007-0012</td>
<td>18” x 24” chrome wire shelf</td>
</tr>
<tr>
<td>5007-0005</td>
<td>18” x 36” chrome wire shelf</td>
</tr>
<tr>
<td>5007-0002</td>
<td>18” x 48” chrome wire shelf</td>
</tr>
</tbody>
</table>

Chrome Wire Shelving With Center Truss

Chrome wire shelving with center truss for better strength.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5007-0003</td>
<td>18” x 60” chrome wire w/one center truss</td>
</tr>
<tr>
<td>5007-0008</td>
<td>24” x 36” chrome wire w/one center truss</td>
</tr>
<tr>
<td>5007-0006</td>
<td>24” x 48” chrome wire w/one center truss</td>
</tr>
<tr>
<td>5007-0007</td>
<td>24” x 60” chrome wire w/two center truss</td>
</tr>
<tr>
<td>5007-0013</td>
<td>24” x 72” chrome wire w/two center truss</td>
</tr>
</tbody>
</table>

Coupling

Coupling is tapered and is used to clamp onto the posts. It acts as a support to hold the shelving in place at the desired height. One pair is needed per shelf collar.

- Aluminium coupling are commonly used in Cleanroom.
- Conductive Couplings are cheaper used in Production floor.
- Surface resistance : < 10⁻⁵ Ohms.

U-Handle with 2 collars

- Handle for operator handling when transporting trolley or wire shelving.
- Two sizes available.
- 2 pair of couplings are needed to hold the U-handle to the posts.
- It attached to the end of two of the straight posts.

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>5002-0001</td>
<td>18” (w)</td>
</tr>
<tr>
<td>5002-0002</td>
<td>24” (w)</td>
</tr>
</tbody>
</table>

U-Handle with 45 Degree Angle

- Used for assembling of trolley.
- 45 degree curve handle for handling comfort.
- Two standard height.

<table>
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<tbody>
<tr>
<td>5002-0006</td>
<td>24” (W) x 36” (L)</td>
</tr>
<tr>
<td>5002-0004</td>
<td>18” (W) x 40” (L)</td>
</tr>
</tbody>
</table>
U-Handle (Straight)

- Chrome straight handle for trolley.
- 200 mm length extendable with 800 mm posts.

<table>
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<tr>
<td>5002-0003</td>
<td>18” (W) x 200mm (L), 2pc 800mm Post</td>
</tr>
</tbody>
</table>

Center Divider

- Separation of shelf top

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5006-0002</td>
<td>24” x 8”H</td>
</tr>
<tr>
<td>5006-0001</td>
<td>18” x 8”H</td>
</tr>
</tbody>
</table>

Ledge

- It is placed at the edge of the shelf / trolley to prevent parts from falling off from the shelf.
- Comes in different lengths to suit the shelving requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5005-0010</td>
<td>14” (w)</td>
</tr>
<tr>
<td>5005-0002</td>
<td>18” (w)</td>
</tr>
<tr>
<td>5005-0006</td>
<td>24” (w)</td>
</tr>
<tr>
<td>5005-0003</td>
<td>30” (w)</td>
</tr>
<tr>
<td>5005-0001</td>
<td>36” (w)</td>
</tr>
<tr>
<td>5005-0009</td>
<td>48” (w)</td>
</tr>
</tbody>
</table>

Post

- Posts for shelving.
- Requires 4 pcs of equal height to form the shelf.
- Posts can be joined to extend the height of the trolley.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000-0003</td>
<td>98” (One Section)</td>
</tr>
<tr>
<td>5000-0004</td>
<td>108” (two Section)</td>
</tr>
</tbody>
</table>

Posts Clamp

- Used for holding two wire mesh shelving together.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000-0001</td>
<td>Post Clamp</td>
</tr>
</tbody>
</table>
Label Holder

- Come in length of 1500mm.
- Cut to different length to suit special requirement.

Triangular Foot Plate

- Use for Shelving that is place in permanent place.

Donut Bumper

- Used as cushion to prevent two trolleys from knocking at each other.

Conductive 5” PU wheels

- Comes in a set of 2 with brakes and 2 without brakes.
The first source of contamination, both particulate and microbial in any cleanroom is the operator. Contamination must be prevented through the use of protective clothing. Our protective clothing are made of cleanroom fabric with antistatic thread woven into it.

The clothing protects residual static charges that accumulate on personnel which cannot be removed from normal grounding devices. Rated static dissipative per DOD HDBK-263, these lightweight, breathable garments are washable and durable.

At Pro-Pack Garment Facility, we have Various ESD Materials and Colours that our customers can choose from. Our in house designers works with our customer to deliver design that is according to customer cooperate requirement. Coupled with our trained and experienced production team will ensure that our cleanroom garments meet the highest standards of workmanship and quality.

Products:
- Cleanroom & ESD Jumpsuits & Overalls
- Cleanroom & ESD Smocks
- Cleanroom & ESD Jackets & Pants
- Cleanroom & ESD Aprons
- Cleanroom & ESD Caps & Hoods
- Cleanroom & ESD Bags
- Cleanroom & ESD Shoe Carrier
- Cleanroom & ESD Booties
- Customization to customers' requirements
Pro-Pack Materials

Footwear

Static Dissipative PVC Shoe Model: PPM-S001
- Shoe base made from Static Dissipative PVC material.
- Durable
- Surface Resistance: 10 E6 to 10 E9 Ohm.
- Available size: 230, 240, 250, 260, 270, 280, 290, 300

Static Dissipative PVC Shoe Model: BSS-318
- Shoe base made from Static Dissipative PVC material.
- Durable
- Surface Resistance: 10 E6 to 10 E9 Ohm.
- Available size: 230, 240, 250, 260, 270, 280, 290, 300

Static Dissipative PU Shoe Model: TAU-9371
- Shoe base made from Static Dissipative PU material.
- Durable
- Soft and Comfortable
- Surface Resistance: 10 E7 to 10 E9 Ohm.
- Available size: 230, 240, 250, 260, 270, 280, 290, 300

Static Dissipative PU Shoe Model: BSS-314
- Shoe base made from Static Dissipative PU material.
- Durable
- Surface Resistance: 10 E6 to 10 E9 Ohm.
- Available size: 230, 240, 250, 260, 270, 280, 290, 300

Static Dissipative PVC Shoe Model: TA-9370
- Shoe base made from Static Dissipative PVC material.
- Durable
- Surface Resistance: 10 E7 to 10 E9 Ohm.
- Available size: 230, 240, 250, 260, 270, 280, 290, 300

Static Dissipative PVC Shoe Model: PPM-S001
- Shoe base made from Static Dissipative PVC material.
- Durable
- Surface Resistance: 10 E6 to 10 E9 Ohm.
- Available size: 230, 240, 250, 260, 270, 280, 290, 300

Static Dissipative PVC Shoe Model: BSS-314
- Shoe base made from Static Dissipative PVC material.
- Durable
- Surface Resistance: 10 E6 to 10 E9 Ohm.
- Available size: 230, 240, 250, 260, 270, 280, 290, 300

Static Dissipative PVC Shoe Model: TA-9370
- Shoe base made from Static Dissipative PVC material.
- Durable
- Surface Resistance: 10 E7 to 10 E9 Ohm.
- Available size: 230, 240, 250, 260, 270, 280, 290, 300

Antistatic EVA Slipper
- Soft and comfortable
- Flexible
- Antistatic property is impregnated
- Surface Resistance: < 10 E6 Ohm
- Body to ground resistance: 2.17 E6 Ohm/sq
- Available size: Small, Medium, Large, X-Large

Conductive PU Slipper
- Soft and comfortable
- Flexible
- Conductive property is impregnated
- Slip resistance
- Surface Resistance: < 10 E6 Ohm
- Body to ground resistance: 2.17 E6 Ohm/sq
- Available size: Small, Medium, Large, X-Large

http://www.pro-pack.com.sg
Static Dissipative Safety Shoe
Model : BTU-510
- Shoe base made from Static Dissipative PU material.
- Durable
- Steel toe Cap.
- Surface Resistance : 10 E6 to 10 E9 Ohm.
- Available size : 230, 240, 250, 260, 270, 280, 290, 300

Static Dissipative Safety Shoe – Low Cut
Model : 212811
- Made from black full grain leather.
- Padded collar with cambrelle lining.
- Durable PU injection outsole.
- Wide steel toe cap.
- Full length steel midsole.
- Infinity comfort insole

ESD Safety Booties
Model : BTU530
- Customise Legging for customer requirement.
- PU sole for comfortable wearing
- Anti slip properties
- Steel toe cap for safety protection.
- Resistance to ground : 10 E6 to 10 E8 Ohm
- Available size : 230, 240, 250, 260, 270, 280, 290, 300

Static Dissipative Safety Shoe
Model : TAU-9324
- Shoe base made from Static Dissipative PU material.
- Durable
- Enforced hard toe Cap.
- Surface Resistance : 10 E6 to 10 E9 Ohm.
- Available size : 230, 240, 250, 260, 270, 280, 290, 300

Static Dissipative Safety Shoe – Low Cut
Model : 21381
- Low cut slip-on design for greatest convenience.
- Black full grain leather.
- Padded collar with Cambrelle® lining.
- Durable PU injection outsole.
- Wide steel toe cap.
- Full length steel midsole.
- Infinity comfort insole.

ESD Heel Strap / Heel Grounder
- Made from ESD two layer rubber material.
- Inner layer : Static dissipative
- Outer layer : Conductive
- Surface Resistance : E7 to E9 Ohm.
- Conductive strap : E4 Ohm
- 1 Meg ohm resistance.
- Free size

Static Dissipative Boot
Model : TAU-9470
- Customise Legging for customer requirement.
- PU sole for comfortable wearing.
- Anti slip properties
- Resistance to ground : 10 E6 to 10 E8 Ohm
- Available size : 230, 240, 250, 260, 270, 280, 290, 300

ESD Over Boot
- Customise Legging for customer requirement.
- Synthetic rubber (Dupont Dow Hypalon Material).
- Autoclavable.
- Slip resistance.
- Heat resistance.
- Soft and flexible.
- Surface Resistance : 10 E8 to 10 E9 Ohm.
- Size : Small, medium, Large
Conductive Polyester Glove
- Made from 100% Polyester and conductive yarn.
- 5 mm conductive line interval.

Conductive Palm Fit Glove
- Made from 100% Polyester and conductive yarn.
- 5 mm conductive line interval.
- Polyurethane palm coated for better grip.

ESD Dotting Glove
- Excellent ESD protective properties.
- Elastic, absorbent and anti-slip.
- Embossed with PVC.
- Surface Resistance : 10 E7 ohm.

Conductive Top Fit Glove
- Made from nylon and carbon yarn.
- Polyurethane finger tip coated.

ESD Palm Fit Glove
- Provides non slip & eliminate finger print contamination.
- PU foam coating provides a super grip & abrasion resistance.
- Protect damage of product from chlorine of sweat.
- Ambidextrous to fit either hand.
- Help protect the product from harmful static electricity.
- Surface Resistance : 10 E7 to 10 E8 ohm.

ESD Grey Palm Coating Fit Glove
- Seamless knitted nylon glove.
- Breathable wet coating on palm.
- Super grip & abrasion resistance.
- Non Slip
- Protect hand from acid and chemical residue.
- Protect the product from harmful static electricity.
- Surface Resistance : 10 E7 to 10 E8 ohm.

Cleanroom Nitrile Glove
- Class 100 packed.
- Made from 100% nitrile compound.
- Anti skid.
- Available in finger textured, palm textured.
- Length : 245mm or 300 mm.

Cleanroom Vinyl Glove
- Non sterile and disposable.
- Transparent.
- Latex and protein free.
- Ambidextrous to fit either hand.
- Economical.
- Embossed to maintained a sense of touch.

Cleanroom Vinyl Glove
- Non sterile and disposable.
- Transparent.
- Latex and protein free.
- Ambidextrous to fit either hand.
- Economical.
- Embossed to maintained a sense of touch.
<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
</tr>
</thead>
</table>
| **Cleanroom Latex Glove**     | - Made from natural rubber  
- Packed in Class 100 environment.  
- Come in finger textured, smooth surface.  
- Colour: Natural  
- Chlorinated  
- Ambidextrous |
| **ESD Heat Resistant Glove – 300 Degree** | - Can withstand heat of up to 300 degree.  
- Cut resistant.  
- Abrasion resistant.  
- Antistatic ESD properties. |
| **ESD Heat Resistant Glove – 150 Degree** | - Can withstand heat of up to 150 degree.  
- Cut resistant.  
- Abrasion resistant.  
- Antistatic ESD properties. |
| **Heat and Puncture Resistance Glove** | - Made from Kevlar, glass fibre, Nylon and Black NBR foam  
- Heat resistance.  
- Puncture Resistance.  
- Prevent cut to personnel.  
- Individually packed. |
| **Anti-Slip Glove**           | - Made from 100% textured nylon and black NBR foam  
- Anti-slip properties.  
- Individually packed. |
| **Grey Anti-Cut PU Glove**    | - Made from Dyneema material., NBR PU and Fibre glass.  
- Anti-slip properties.  
- Individually packed. |
| **Kevlar Nylon Sleeve**       | - Made from Kevlar and nylon material.  
- Cut resistant.  
- Heat Resistant.  
- Light weight. |
| **Dyneema Grey Nylon Sleeve** | - Made from dyneema and grey nylon material.  
- Cut resistant.  
- Light weight. |
Pro-Pack Materials

Disposable Protective Wear

**Pink Antistatic Finger Cot**
- 100% pure natural latex.
- Colour: Pink.
- Sulphur Free.
- Colour: Natural
- Tough
- Rough surface for good Grip

**Orange Mask Finger Stall**
- Natural Latex
- Sulphur Free
- Colour: Orange
- Tough
- Rough surface for good Grip

**Static Dissipative Finger Cot**
- 100% pure natural latex.
- Colour: Black
- Surface resistivity: < 10 E6 Ohm/sq
- RoHS Compliance

**Blue Static Dissipative Finger Cot**
- Carboxylated butadiene acrylonite copolymer latex
- Powder free
- Colour: Blue
- Surface resistivity: < 10 E9 Ohm/sq
- Tribo Charge: +/- 1 Volt
- Decay Time: < 0.2 Sec

**Beige ESD Finger Cot**
- Carboxylated butadiene acrylonite copolymer latex
- Powder free
- Antistatic properties
- Non chlorinated
- Sulphur Free
- Colour: Natural
- Surface resistivity: < 10 E9 Ohm/sq

**Static Dissipative Mask Stall**
- Carboxylated butadiene acrylonite copolymer latex
- Powder free
- Non Powdered
- Colour: Black
- Surface resistivity: 10 E5 - 10 E6 Ohm/sq

**Pink Antistatic Finger Cot**
- 100% pure natural latex.
- Colour: Pink.
- Surface resistance: 10 E7 - 10 E9 Ohm.
- Class 100 pack.
- RoHS approved.

**Finger Stall – Work Cot**
- 100% nature rubber latex
- Powder free
- Non Sulphur
- Colour: Natural

**Beige ESD Finger Cot**
- Carboxylated butadiene acrylonite copolymer latex
- Powder free
- Antistatic properties
- Non chlorinated
- Sulphur Free
- Colour: Natural
- Surface resistivity: < 10 E9 Ohm/sq

**Pink Antistatic Finger Cot**
- 100% pure natural latex.
- Colour: Pink.
- Surface resistance: 10 E7 - 10 E9 Ohm.
- Class 100 pack.
- RoHS approved.

http://www.pro-pack.com.sg
Sticky Mat
- Made from PR material.
- Remove dirt and dust from footwear
- Size: 24” x 36”, 26” x 45”
- Thickness: 30, 40 micron
- 30 sheets per mat.
- Colour: Blue

Disposable Mob Cap
- PP non woven material.
- Size: 21 inches.
- Packing: 1—pcs / bag, 2000 pcs / ctn.
- Colour: Blue, White

Non Woven Shoe Cover
- Made from 100% non woven spunlace.
- Size: 15 cm x 36 cm, 15 cm x 42 cm ( +/- 1 cm)
- Colour: Blue.
- Good Strength.

Disposable Bouffant Cap
- PP non woven material.
- Size: 21 inches.
- Packing: 1—pcs / bag, 2000 pcs / ctn.
- Colour: Blue, White

Disposable CPE / PVC Shoe Cover
- Made from LDPE + LLDPE material.
- Size: 15 cm x 36 cm, 15 cm x 42 cm ( +/- 1 cm)
- Weight: 2.7 g / pc, 3.5 g / pc. (+/- 0.5 g)
- Colour: Blue
- Type: Welded

Non Woven Non Skid Shoe Cover
- Made from PE + PP material.
- Colour: White.
- Good Strength.
- Non Skid.
- Low Lint.
- Pack in cleanroom environment.
Pro-Pack Materials

Disposable Protective Wear

**Non Woven 1 Ply Face Mask**
- Made from 40 GSM SBPP non woven materials
- Length : 178 mm +/- 3mm
- Width : 90 mm +/- 3mm
- Knitted woolly elastic band
- Colour : White
- Nose clamp made from Steel wire coated with PVC

**Non Woven 2 Ply Face Mask**
- Made from 22 GSM SBPP non woven materials
- Length : 180 mm +/- 3mm
- Width : 90 mm +/- 3mm
- Knitted woolly elastic band
- Colour : White
- Nose clamp made from Steel wire coated with PVC

**Non Woven 3 Ply Face Mask**
- Made from 22 GSM SBPP non woven materials
- Center Layer : 20 GSM Meltblown filter media.
- Length : 180 mm +/- 3mm
- Width : 90 mm +/- 3mm
- Knitted woolly elastic band
- Colour : White
- Nose clamp made from Steel wire coated with PVC

**1 Ply Paper Face Mask**
- Prevent Contamination from coughing and breathing.
- Economical
- Soft
- Comfortable
- Breathable

**2 Ply Paper Face Mask**
- Prevent Contamination from coughing and breathing.
- Economical
- Soft
- Comfortable
- Breathable
Clean Polyester Wipes
Model: Kasder Klean
- Extremely low in both particles and fibres.
- Strong, solvent resistant (PET).
- Abrasion and chemical resistant.
- Sealed edges prevent particle or lint generation.
- Pack and wash in class 10 environment.
- Double packaged in bags.

Dupont Sontatra Micropure Wipes
Model: MP-SL
- Excellent absorbent capacity.
- Dynamic wiping efficiency.
- Low lint.
- No binders or chemical additives.
- Biodegradable.

Dupont Sontatra Micropure Wipes
Model: MP-Knit
- Extremely low in both particles and fibres.
- Strong, solvent resistant (PET).
- Abrasion and chemical resistant.
- Sealed edges prevent particle or lint generation.
- Unique aperture pattern.
- Double packaged in bags.

Dupont Sontatra Micropure Wipes
Model: MP-AP
- Excellent absorbent capacity.
- Dynamic wiping efficiency.
- Low lint.
- No binders or chemical additives.
- Biodegradable.
**Cleanroom Spiral Notebook**
- Clean paper made from natural pulp
- With ruled lines or Checkered for easy writing
- 50 sheets per book (inclusive of cover)
- Weight : 72 Gsm or 80 Gsm
- Resistivity : < $10^{-11}$ ohm / sq
- Colour : Sky Blue
- Sizes Available : A4 and A5

**Cleanroom Stapled Notebook**
- Clean paper made from natural pulp
- With ruled lines or Checkered for easy writing
- 50 sheets per book (inclusive of cover)
- Weight : 72 Gsm or 80 Gsm
- Resistivity : < $10^{-11}$ ohm / sq
- Colour : Sky Blue
- Sizes Available : A4 and A5

**Cleanroom Paper**
- Clean paper made from natural pulp
- 250 sheets per ream
- Weight : 72 Gsm or 80 Gsm
- Resistivity : < $10^{-11}$ ohm / sq
- Various colour available
- Sizes Available : A4 and A5

**Cleanroom Continuous Printing Paper**
- Clean paper made from natural pulp.
- Perforated ring on sides for continuous printing.
- Weight : 72 Gsm or 80 Gsm.
- Resistivity : < $10^{-11}$ ohm / sq.
- Various colour available.
- Various sizes available.

**Cleanroom Memo Pad**
- Clean paper made from natural pulp
- Water base adhesive
- Weight : 72 Gsm or 80 Gsm
- Resistivity : < $10^{-11}$ ohm / sq
- Colour : Sky Blue
- Various sizes available

**Wafer Separator**
- Tyvek paper from Dupont.
- Lint free.
- Weight : 53 – 58 Gsm.
- High burst strength.

**Static Dissipative PVC Clipboard**
- ESD PVC material.
- Suitable for cleanroom class 10 environment.
- Colour : Blue.
- Clip : Chrome.
- Surface Resistance : Less than $10^{9}$ Ohms.
- Size : 225 mm x 325 mm x 3 mm
- Custom sizes available.

**Static Dissipative Acrylic Clipboard**
- ESD Acrylic material
- Suitable for cleanroom class 10 or class 100 environment.
- Colour : Clear or Beige.
- Clip : Chrome.
- Surface Resistance : Less than $10^{9}$ Ohms.
- Size : 225 mm x 325 mm x 3 mm
- Custom sizes available.
Conductive Pen
- Carbon fibre material.
- Surface resistance: 10^3 to 10^5 Ohms.
- Suitable for use in cleanroom

Cleanroom Marker
- Specially formulated ink.
- Permanent.
- Colour: Black.
- Comes in fine and extra fine tip.
- Widely use in cleanroom industrial.

ESD Arch File
- ESD Vinyl material.
- Colour: Blue.
- Size: A4.
- Ring: 2 or 3.
- Ring height: 1", 2" and 3".
- Surface resistance: < 9.0 x 10^9 Ohm
- Customized sizes available.

ESD Arch File
- ESD Vinyl material.
- Colour: Blue.
- Size: A4.
- Ring: 2 or 3.
- Ring height: 1", 2" and 3".
- Surface resistance: < 9.0 x 10^9 Ohm
- Customized sizes available.

ESD Soft Document Holder
- Antistatic Polypropylene.
- Size: A4.
- Surface resistivity: < 10^-9 Ohm/sq
- Packing: 100 pcs / bag.

ESD PVC Document Holder
- Antistatic PVC.
- Size: A4, A3, B4, B5.
- Surface resistivity: 1.0 x 10^11 ohm/sq
- Packing: 100 pcs / bag.

Antistatic Badge / Card Holder
- Permanent ESD ABS material.
- Size: 90 mm x 55 mm.
- Surface resistivity: < 10^-11 Ohm/sq
- Packing: 500 pcs / box.
**Caution Tape**
- Bright yellow background with black colour warning wordings.
- Width : 3”.
- Length : 18 yards.

**Conductive Grid Tape**
- Easy to tear.
- Smooth dispensing.
- Good finger tack and adhesion.
- Various sizes available.
- Surface resistivity : $10^6$ ohm/sq.

**Antistatic Clear Tape**
- Excellent release layer antistatic property.
- Excellent copolymer layer antistatic property.
- Low peeling static voltage.
- Excellent durability.
- Surface resistivity : $10^9$ ohm/sq.
- Various sizes available.

**Static Shielding Tape**
- Metal plated polyester surface.
- Non Corrosive and durable.
- Shield electromagnetic waves
- Low static build up.
- Low charge when removed or unrolled from surface.
- Suitable for use in cleanroom.
- Outer surface resistivity : $10^{10}$ ohm.
- Inner surface resistivity : $10^3$ ohm
- Various sizes available.

**Kapton Tape**
- Excellent heat resistance.
- Excellent adhesion on all substrates.
- Various sizes available.

**PE Protective Tape**
- High elongation properties.
- Low adhesion.
- Protect surface from scratch.
- Customize width available upon request.

**ESD Tape Dispenser**
- Powder coated steel body.
- Static dissipative rubber base.
- Core : 3 inches.
- Hold up to 2 inches width tape.
Prostat ESD Auditing Kit Configuration

1. [Description]
2. [Description]
3. [Description]
4. & 5. [Description]
6. [Description]
7. [Description]
8. [Description]
9. [Description]
10. [Description]
11. [Description]
12. [Description]
13. [Description]
14. [Description]
15. [Description]
16. [Description]
17. [Description]
Prostat ESD Auditing Kits

- Specially customised to meet the most demanding auditing or process evaluation requirements.
- Most advanced static control measurement system.
- Flexible kit for most auditing needs.
- Instruments included provides accurate readings.
- Measurements taken meets all international reference and requirements (ANSI / ESD-20.20)

*Note*: This Auditing Kit can be configured to customer requirement. Each item can be purchased separately according to requirement.

<table>
<thead>
<tr>
<th>No.</th>
<th>Kit / Description</th>
<th>PFK101</th>
<th>PFK100</th>
<th>PMK151</th>
<th>PMK152</th>
<th>PAK210</th>
<th>PAK212</th>
<th>PSK310</th>
<th>PSK312</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PRS 801 Resistance meter set</td>
<td></td>
<td>X</td>
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<tr>
<td>2</td>
<td>PRS 812 Resistance meter set</td>
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<td>X</td>
<td>X</td>
<td></td>
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<td>3</td>
<td>PRS-801-W 5lbs Conductive electrodes</td>
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<tr>
<td>4</td>
<td>PRF-911 Concentric ring</td>
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<tr>
<td></td>
<td>➢ BNC Adaptor</td>
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<tr>
<td></td>
<td>➢ PTB-920 Test bed</td>
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</tr>
<tr>
<td>5</td>
<td>36&quot; Green ground lead</td>
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<td></td>
<td></td>
<td></td>
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<td>X</td>
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<td>6</td>
<td>PGT-61-164 Sure test circuit analyzer</td>
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<td>7</td>
<td>PWS-610M Wrist Strap (2x)</td>
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</tr>
<tr>
<td>8</td>
<td>Large pony clamp 6&quot;</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>9</td>
<td>Qube Ground adaptor plug</td>
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<td>X</td>
<td>X</td>
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</tr>
<tr>
<td>10</td>
<td>PRS-801WW Electrode cleaning wipes (5X)</td>
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<tr>
<td>11</td>
<td>PRS-800CS Cable spacers 36&quot; &amp; 10&quot; set</td>
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<td>12</td>
<td>PHT-771 Digital psychromotor</td>
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<tr>
<td>13</td>
<td>CPM-720A Charge plate</td>
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<tr>
<td>14</td>
<td>PFM-711A Field meter with analog output</td>
<td></td>
<td>X</td>
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<tr>
<td>15</td>
<td>PDT-740B Static decay timer</td>
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<tr>
<td>16</td>
<td>PCS-730 ±kV Charging source</td>
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<tr>
<td>17</td>
<td>Carrying case with handle &amp; wheel</td>
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<td>X</td>
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</tr>
</tbody>
</table>
### Resistance Meter
**Model : PRS-801**
- Measures resistance from < 0.1 to 2.0 x 10^13 ohms with overall measurement accuracy of ±5%.
- Data may be downloaded to standard computer systems.
- Records and stores up to 80 measurements.
- Constant voltage
- Fully automatic, controls test voltage, resistance ranging and electrification period.
- Displays measurements in ohms, kilohms, megohms, gigohms and terohms, and in exponential format.
- Battery operated (2 x 9 Volts)

### Resistance Meter
**Model : PRS-812**
- Measures resistance from < 0.1 to 1.0 x 10^17 ohms with overall measurement accuracy of ±5%.
- Records and stores up to 80 measurements.
- Constant voltage
- Fully automatic, controls test voltage, resistance ranging and electrification period.
- Displays measurements in ohms, kilohms, megohms, gigohms and terohms, and in exponential format.
- Battery operated (2 x 9 Volts)

### High Resistance Miniature Concentric Ring Set
**Model : PRF-914B**
- Measures surface resistance of small areas up to 1.0 x 10^14 ohms.
- Measurement Area: 0.35" (8.89mm).
- Spring loaded contact pins.
- Includes two (2) each spare outer contact pins and one (1) each spare inner center electrode contact pin.

### Resistance Meter
**Model : PRF-912B**
- Measures surface resistance of small areas up to 1.0 x 10^12 ohms.
- Measurement Area: 0.35" (8.89mm).
- Spring loaded contact pins.
- Includes two (2) each spare outer contact pins and one (1) each spare inner center electrode contact pin.

### Resistance Meter
**Model : PRF-922B**
- Measures point-to-point surface resistance of small areas up to 0.9 x 10^13 ohms.
- Measurement Area: 0.25" (6.35mm).
- Spring loaded contact pins.
- Includes one (1) each spare contact pins and conductive rubber boots for measuring surfaces in accordance with ANSI/ESD STM11.13.

### Concentric Ring
**Model : PRF-911**
- Measures surface resistance per ANSI/ESD STM11.11.
- Measures surface volume & resistivity per ASTM D-257.
- Incorporates a spring loaded, self-aligning center electrode feature.
- The included Dual Test Bed consists of an insulated test surface for ANSI/ESD STM11.11 surface measurements laminated to a steel test plate for volume measurements.
- Use with a Resistance Meter and 5 lb Electrodes.
**Static Decay Meter**  
**Model : 406D**  
- Measure static decay rate of static dissipative material for ESD safe application.  
- Meets requirements of Method 4046, MIL-PRF-81705D (formerly Mil-8-81705D), EIA-541, NFPA 99, INDA, ESD Association and other electrostatic decay test methods.  
- Automatic and manual test mode.

**Electrostatic Discharge Simulator**  
**Model : 910**  
- Determine the ESD susceptibility level of electronic devices up to ±8 kV.  
- Accordance with Mil-STD883C method 3015 and ESD STM 5.1 and 5.2.  
- Simulation of HBM, MM, CDM.

**Nanocoulomb meter**  
**Model : 230**  
- Measurement of charge as low as ±0.01 nanocoulomb.  
- 0-20, 0-200 and 0-2000nC ranges  
- 0.01 nC resolution  
- Built-in calibration signal  
- Battery or AC power  
- Faraday cups and buckets  
- Meets all ESD Assoc. & EIA standard.

**Humidity Control Chamber**  
**Model : 5506**  
- Integrated environmental control system.  
- Independently maintain humidity level from < 10 to > 98% RH and temp from < 0 – 55 °C.  
- Working volume of 13 cu. Ft.  
- Design for storage, conditioning, testing, weighing and fabrication in electronic, electrostatic, biomedical, pharmaceutical and other application.  
- Option of customization available.

**Humidity and Temperature Controller**  
**Model : 5200-240-230**  
- Microprocessor PID control.  
- Single & dual controllers.  
- Easy installation & operation.  
- Accurate, precision sensors.  
- Humidity, Temperature.  
- Control any linear process.  
- Single & multiple Ramp/Soak profiling.

**Software for Humidity and Temperature control**  
**Model : 5000 Series**  
- Cost effective.  
- Easy to use.  
- Windows compatible.  
- Single and multi-user licenses.

**Humidity and Temperature Chamber**  
**Model : 5518**  
- Integrated environmental control system.  
- Independently maintain humidity level from < 10 to > 98% RH and temp from < 0 – 55 °C.  
- Working volume of 13 cu. Ft.  
- Build in humidity and temperature control system.  
- Design for storage, conditioning, testing, weighing and fabrication in electronic, electrostatic, biomedical, pharmaceutical and other application.  
- Option of customization available.

**Shielded Bag Test System**  
**Model : 4431**  
- Perform energy tests per ESDA STM11.31.  
- Perform voltage tests per EIA-541 & MIL-PRF-81705D.  
- Voltage adjust: 800 to 1200V.  
- 3½ digit LCD voltage readout.  
- Energy calculation program.  
- Turnkey System.

**Nanocoulomb meter**  
**Model : 230**  
- Measurement of charge as low as ±0.01 nanocoulomb.  
- 0-20, 0-200 and 0-2000nC ranges  
- 0.01 nC resolution  
- Built-in calibration signal  
- Battery or AC power  
- Faraday cups and buckets  
- Meets all ESD Assoc. & EIA standard.

**Humidity Control Chamber**  
**Model : 5506**  
- Integrated environmental control system.  
- Independently maintain humidity level from < 10 to > 98% RH and temp from < 0 – 55 °C.  
- Working volume of 13 cu. Ft.  
- Design for storage, conditioning, testing, weighing and fabrication in electronic, electrostatic, biomedical, pharmaceutical and other application.  
- Option of customization available.
**ESD Event Monitor**  
*Model: EM Aware TNG*
- Detect EM events.
- Measure magnitude in wide range of sensitivity.
- Real time measurement of static voltage.
- Allow high sensitivity of ionizer balance.
- Provide measurement of ionizer decay.
- Outputs for every parameter to all major facility monitoring systems (FMS).

**Ionizer Controller**  
*Model: Equilibrion*
- Monitor DC, AC and pulsed DC ionizer.
- Keep ionizer balance under ±1 V.

**Ground Monitor**  
*Model: CTC 065*
- Continuous ground monitoring.
- Adjustable alarm threshold.
- EMI monitoring of each ground.
- Safety protection for each ground.
- Enable switch for each ground.
- Industrial network interface, FMS connectivity and tool connectivity.

**Ground Integrity Meter.**  
*Model: Ground Pro*
- Measure AC impedance.
- Measure EM noise.
- Measure voltage.

**EM Eye Handheld Meter**  
*Model: EM Eye*
- ESD Event detection in Human Body Model (HBM), Machine Model (MM) and Charge Device Model (CDM).
- Electromagnetic field measurement.
- RF signal measurement.
- Comes in 1 KV and 20 KV model.

**Oriteq Wrist Strap Checker**  
*Model: Oriteq 894-1*
- Fast checking of wrist strap.
- Easy to use, LED indicator.
- Perform surface resistance and resistance to ground.
- Measurement range: 750 k – 100 meg.
- Battery operated.
Oriteq Wrist Strap / Footwear Tester  
Model : Oriteq 88  
• Filter human body noise.  
• 100 % 2 feet independent test.  
• Manual select test mode : Wrist only, foot only or both wrist and foot.  
• Easy, time saving with one touch  
• Built-in dry contact control for autogate or turnstile.  
• Build in “Near Fail Indicator”  

Oriteq Wrist Strap / Footwear Tester  
Model : Oriteq 100  
• The test result can be shown by “LCD” and separate LED’s for clear reading  
• “Near Fail” indicator  
• Manual select test mode : Wrist only, foot only or both wrist and foot.  
• Easy, time saving with one touch  
• Built-in dry contact control for autogate or turnstile.  

Wrist Strap / Footwear Tester  
Model : Oriteq 1600  
• Truly 100% paperless testing.  
• Automatic test records logging.  
• Digital resistance display.  
• Microprocessor-based independent left and right foot testing.  
• “Near-Fail” indicators.  
• Simultaneously or independently test footwear & wrist-strap.  
• Fast and user-friendly various reports generation for test results  

Wrist Strap / Footwear Tester  
Model : 872-1  
• Tests, measures and records wrist strap and foot grounder data  
• Computer interfere with data logging function  
• Works with turnstile and door access.  
• Card reading function.  

Oriteq Wrist Strap / Footwear Tester  
Model : Oriteq 600  
• Truly 100% paperless testing.  
• Automatic test records logging with history tracking.  
• Digital resistance display.  
• Microprocessor-based independent left and right foot testing.  
• “Near-Fail” failure-preventive indicators.  
• Simultaneously or independently test footwear & wrist-strap.  
• High/low test limits meeting S20.20-2007.  
• Fast and user-friendly various reports generation for test results  

Oriteq-600 is a product combining ESD footwear testing and computer-controlled access. In many EPA areas, the testing and recording of ESD footwear and wrist-strap is manually conducted in traditional ways. It is not guaranteed to be executed faithfully and in most cases is distorted by so many human errors. Both customers and the management are not confident with the test records. This leaves a big room for potential improvement in personnel ESD grounding test in your EPA. Aiming for this, the new Oriteq-600 provides an effective and failure-preventive solution. It enables enforced paperless testing of a person’s grounding footwear and/or wrist-strap before entering the EPA and generates daily test report for the managers.

The Oriteq-600 series offers RS-232/RS-485 and TCP/IP networking communication capabilities. The various card reader units include almost all popular proximity card formats. Though its initial setup cost is a bit higher than the traditional manual testing, the Return-Of-Investment (ROI)) is much higher. It is clearly seen here that your 1 dollar investment in personnel ESD grounding test will receive 2 dollars in return.

Applications:  
SMT ESD areas, Clean-rooms, Hi-Tech R/D rooms, Military ESD areas, Explosive handling areas, Aero-space repairs, Drug productions, Hospital ESD restricted areas.
The New CVM-780 Contact Voltmeter combines the ease of use of a digital voltmeter with the high input impedance and low input capacitance of a true electrostatic voltmeter in a small, portable, battery operated package.

**ESD Applications**

Analyze process, devices and assemblies for causes of Charge Device and Machine Model losses. Measure voltages on:

- Device Lead Frame Contacts
- Circuit Board Traces
- Automatic Test Contacts
- Conductors in process critical path
- Machine parts
- Placement heads
- Handlers
- Production Aids
- Chairs
- Carts
- Personnel
- Trays
- Shelving
**Field Meter**
**Model : PFM-711A**
- Electronic digital chopper instrument is used for locating and measuring electrostatic fields.
- Red “Bulls Eye” ranging lights assist in obtaining reproducible measurements.
- Use with CPM-720A Charge Plate Assembly and PCS-730 Charging Source to balance and test ionization blowers and devices.
- Analog output.

**Electrostatic Decay Timer**
**Model : PDT-740B**
- Designed to measure the time required for a 1,000 volt charge to dissipate to less than 100, 50 or 10 volts in tenths of a second.
- Used to evaluate the static decay capabilities of materials, personnel, equipment and other products.
- Compatible with most portable CPM’s and field meters having an analog output of ± 2 (10,000 volts equals 1 volt).
- Used in conjunction with the PFM-711A Field Meter.

**Collapsible 6 Inch Charge Plate Monitor Assembly**
**Model : CPM-760**
- The CPM-760A is a 20pF, 6-inch Charge Plate Monitor assembly intended for use with the PFM-711A Field Meter, PCS-730 Charging Source and PDT-740B Static Decay Timer.
- Designed to perform very accurate performance audits on overhead ionizers and room ionization systems.
- Used with extension wings, the CPM-760A is also used to evaluate and balance bench top ionizers.
- Completely collapsible for compact storage.

**Faraday Cup Assembly**
**Model : PFC-721**
- The experienced ESD practitioner’s fastest solution for obtaining approximate charge generation measurements on small parts and assemblies.
- Designed for use in tight machine spaces, the PFC-721 is used with the CPM-720 Charge Plate Monitor and PFM-711A Field Meter.
- Devices placed into the PFC-721 share their charge with the cup and the upper sensing plate of the CPM-720A.

**Autoanalysis System**
**Model : PGA-710**
- Measure, record, analyze & report electrostatic voltage generation and decay performance.
- Works with PFM-711A fieldmeter, also compatible with most field meter in the market.
- Comes with software that window compatible.

**Charging Source**
**Model : PCS-730**
- Use to evaluate ioniser performance and decay properties.
- It is a battery operated hand held device used to charge an object up to ±1 KV.
- The PCS-730 is designed to be used in conjunction with the Prostat PFM-711A Field Meter equipped with the Prostat CPM-720A Charge Plate Assembly. This unique instrument combination provides ionization performance testing, electrostatic decay of materials or equipment, and suppression analysis of worksurfaces or clothing.
- It is personnel safe and easy to use. It should not be used in contact with electrostatic discharge sensitive (ESDS) devices or assemblies.
<table>
<thead>
<tr>
<th>Product</th>
<th>Model</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bench Top Ionizer</td>
<td>201</td>
<td>• Remove static from work surface.</td>
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<tr>
<td></td>
<td></td>
<td>• Auto balance within ±5v.</td>
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<td>• Ionization indicator light.</td>
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<td>• Serial connection of up to six units.</td>
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<td></td>
<td>203</td>
<td>• Coverage of large surface area.</td>
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<tr>
<td></td>
<td></td>
<td>• Auto balance within ±5v.</td>
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<tr>
<td></td>
<td></td>
<td>• Ionization indicator light.</td>
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<td></td>
<td></td>
<td>• Special alloy decay needle.</td>
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<td></td>
<td>441</td>
<td>• Large area air flow, air speed and air volume adjustable.</td>
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<td></td>
<td></td>
<td>• Adjustable up and down angle for air flow.</td>
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<td></td>
<td></td>
<td>• Adjustable ion balance.</td>
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<tr>
<td></td>
<td></td>
<td>• Adjustable fan speed.</td>
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<td></td>
<td>201-1</td>
<td>• Remove static from work surface.</td>
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<td></td>
<td></td>
<td>• Auto balance within ±5v.</td>
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<td></td>
<td></td>
<td>• Ionization indicator light.</td>
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<tr>
<td></td>
<td></td>
<td>• Special alloy decay needle.</td>
</tr>
<tr>
<td>Overhead Ionizer</td>
<td>204</td>
<td>• Coverage of large surface area.</td>
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<td></td>
<td></td>
<td>• Auto balance within ±5v.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Ionization indicator light.</td>
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<tr>
<td></td>
<td></td>
<td>• Special tungsten alloy decay needle.</td>
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<td></td>
<td></td>
<td>• Adjustable blowing angle and air volume.</td>
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<tr>
<td>Ionizing Air Gun</td>
<td>AG211F</td>
<td>• Perform energy tests per ESDA STM11.31</td>
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<td></td>
<td>• Perform voltage tests per EIA-541 &amp; MIL-PRF-81705D</td>
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<tr>
<td></td>
<td></td>
<td>• Voltage adjust: 800 to 1200V</td>
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<td>• 3½ digit LCD voltage readout</td>
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<td>• Energy calculation program</td>
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<td>• Turnkey System</td>
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</tbody>
</table>
**Wrist Strap Monitor**
*Model : 898-1*
- ON / OFF switch on front panel.
- Constantly monitoring the wrist strap for skin contact.
- LED indicator on the front panel.
- Green for PASS, Red for FAIL.
- Ground connection post at the back panel.
- No checking is required.
- Small and handy, easy to use.
- Monitor 1 station and 1 ground.

**Workstation Monitor**
*Model : WS-Aware*
- Dual wrist strap monitor.
- Extremely low voltage of 25 millivolts.
- Body voltage monitoring.
- Metal ground monitoring.
- EMI on metal ground, dissipative ground monitoring.
- Programmable thresholds, industrial network interface

**Workstation Monitor**
*Model : 1800*
- Wrist-strap Alarm: High Limit: 8MΩ ~ 35MΩ; Low Limit: 750KΩ ~ 2.4MΩ
- Operator Voltage Alarm: ±1V ~ ±5V
- Mat (soft ground) Alarm: 1MΩ ~ 140MΩ
- Tool (hard ground) Alarm: 2Ω ~ 20Ω
- Support Dual Identity ID: One fixed ID and one dynamic ID

**Workstation Monitor Router**
*Model : 1800-H*
- Each RJ11 connection port supports connection up to 32 monitors.
- X1 RJ45 connection port for TCP/IP link to Local Area Network (LAN).
- Automatic connection detection; Independent hardware operation.
- Support wireless LAN connection.
- LED : X6 tricolor LED.

**Wrist Strap Monitor**
*Model : 898-2*
- ON / OFF switch on front panel.
- Constantly monitoring the wrist strap for skin contact.
- LED indicator on the front panel.
- Green for PASS, Red for FAIL.
- Ground connection post at the back panel.
- No checking is required.
- Small and handy, easy to use.
- Monitor 2 station and 2 ground.

**Workstation Monitor**
*Model : 1600*
- Monitor 2 operator, 2 ESD mats, 2 Machines independently.
- 3 colour LED to indicate status of operator wrist strap. HIGH, LOW, SAFE
- Audio and LED will give alarms when monitor detects problems on grounding.
- Audio alarm volume is user.

**Workstation Monitor Display**
*Model : 1800-D*
- Use with ESD workstation monitor Model Oriteq-1800 and Oriteq-1600.
- Display resistance monitoring.
- Display ground resistance monitoring.
- Display voltage monitoring.
- Display voltage for ground monitoring.

**Workstation Station Combo**
*Model : 1800, 1800-D, 1800-H*
- Refer to individual equipment for more information.
- Via GZ-1800-D, provide digital display on LCD. Also provide 4-20 mA or 0 - 5V analog outputs and external interfaces for siren and tool controls
- Network up to 4000 units with GZ-1800-H router
- Control using Integrated Management System (IMS)
High Precision Tweezers

Handcrafted to perfect tip symmetry and balance, polished edges, superior no-scratch/antiglare satin finish. The right tweezers and material for a successful application.

All High Precision Tweezers are available in different materials (SA, S, NC, N, TA, BR,) and also available with special coatings (DC, EP, NE, TE). Please refer to technical datasheet on page 33-36 for more information.

- **Model: 0.5.A, 0.5, 0.1A**
  - 4 3/4" 120mm
  - Flat Edges, Fine Tips

- **Model: 00.5.A, 00.5**
  - 4 3/4" 120mm
  - Strong, Flat Radiused Edges, Fine

- **Model: 00B.5.A**
  - 4 3/4" 120mm
  - Same as 00 with serrated Grips

- **Model: OC9.5.A, 0C9.5, OC9.TA**
  - 3 1/2" 90 mm
  - Short, Flat Edges, Fine

- **Model: 0C11.5.A, 0C11.5**
  - 4 1/4" 110mm
  - Short, Flat Edges, Fine

- **Model: 00D.5.A, 00D.5, 00D.TA**
  - 4 3/4" 120mm
  - Sames As 00, Serrated Tips and Grips

- **Model: 1.5.A, 1.5, 1.NC, 1.TA**
  - 4 3/4" 120mm
  - Strong, Straight, Fine

- **Model: 2.5.A, 2.5, 2.NC, 2.TA, 2.BR**
  - 4 3/4" 120mm
  - Flat, Sharp Fine Tips
Model: 2A-SA, 2A.S, 2A.NC, 2A.TA
4 3/4" 120mm
Flat Accurate Round Tips

Model: 2AB-SA, 2AB.S, 2AB.TA
4 3/4" 120mm
As 2A, Curved

Model: 2A-SA
4 3/4" 120mm
As 2A, Double Bent Tips

Model: 3-SA, 3.S, 3.NC, 3.TA
4 3/4" 120mm
Very Sharp, Fine

Model: 3C-SA, 3C.S, 3C.NC, 3C.TA
4 1/4" 110mm
As 3, Short

Model: 3C-SA, 3C.S
4 1/4" 110mm
As 3C, Bent Tips

Model: 3CI-SA, 3CI.TA
4 1/4" 110mm
As 3C, Crush Proof, Smooth

Model: 3F-SA, 3F.S
4 3/4" 120mm
3mm Flat Touch, For Holding tiny Wire

Model: 4-SA, 4.S, 4.NC, 4.TA
4 1/4" 110mm
Extra Fine Tips

Model: 4A-SA, 4A.S
4 1/4" 110mm
As 4, Stronger
Model: 5B.SA, 5B.S
4 1/4" 110 mm
As 5, Bent Tips For Max Visibility

Model: 5TTH.SA, 5TTH.S
4 1/4" 110 mm
Anti Capillary, Extra Fine, with Locking-Ring for handling electronic microscope grids

Model: 7B.SA, 7B.S, 7BA.TA
4 1/2" 110mm
As 7, Serrated Tips
Pro-Pack Materials

Tools

Model: K5HP.SA, K5HP.S, K5HP.NC, K5HP.TA
High precision tweezer set 00, 2A, 3C, 5, 7 Top quality hard / foam wallet.

Model: 10G.SA
4 1/4" 110 mm
Fine, Serrated Tips and Grips

Model: 10L.SA
4 1/4" 110 mm
Fine, Serrated Tips and Grips

Model: 10L.SA, 10L.N
4 3/4" 120mm
Strong, Fine Tips

Model: 10L.SA, 10L.N
4 3/4" 120mm
Strong, Fine Tips

4 3/4" 120 mm, Width 0.4" 10mm
Strong Flat Straightening Wires

Model: 11.SA, 11.N
4 3/4" 120mm
Straight Fine Tips

Model: 11.SA, 11.N
4 3/4" 120mm
Straight Fine Tips

Model: 12.G.A.C
4 3/4" 120mm
Cutting Tweezers fine, 90 degree angled blades

Model: 12.SA, 12.N
4 3/4" 120mm
Strong, Fine Tips

Model: 12.SA, 12.N
4 3/4" 120mm
Strong, Fine Tips

Model: 14A.G.C
4 3/4" 120mm
Cutting Tweezers for max visibility fine, 90 degree angled blades

Model: 14.A.C
4 3/4" 120mm
Cutting Tweezers for soft copper, gold, silver, magnetic wires

Model: 14A.G.C
4 3/4" 120mm
Cutting Tweezers for max visibility fine, 90 degree angled blades

Model: 15.A.C
4 3/4" 120mm
Cutting Tweezers for soft copper, gold, silver, magnetic wires

Model: 15.AFW.C
4 3/4" 120mm
Cutting Tweezers for soft copper, gold, silver, magnetic wires
Model: 15ANW.C
4 3/4" 120mm
Round edges cutting tweezers for soft copper, gold, silver, magnetic wires

Model: 15AP.C
4 3/4" 120mm
Parallel cutting tweezers for soft copper, gold, silver, magnetic wires.

Model: 27.SA, 27.S
5 1/3" 135mm
Strong, Sharp, Fine Tips

Model: 15ASW.C
4 3/4" 120mm
Round edges cutting tweezers for soft copper, gold, silver, magnetic wires

Model: 51S.SA, 51S.S, 51S.TA
4 1/2" 115mm
As 5A, Bent Tips for max visibility

Model: 152.S
3 3/4" 98mm
Precision miniature cutting tweezers

Model: 15AGW.C
4 3/4" 120mm
Cutting Tweezers for soft copper, gold, silver, magnetic wires

Model: 15AGWHM.SA
4 3/4" 120mm
Antimagnetic stainless steel handle, hard metal blades (75 HRC) for very precise cutting of hairsprings, extended life time, high cutting capacity.

Model: 52A.SA, 52A.S, 52A.TA
4 3/4" 120 mm
As 2A, Crush proof, Smooth action

Model: 775.SA
6 1/8" 155mm
Fine, Bent tips epoxy coated handle

http://www.pro-pack.com.sg
Pro-Pack Materials

Model: A.SA, A.S
4 3/4" 120 mm
Strong, Precision Tips

Model: AM.BR
4 3/4" 125 mm
Precision brass tweezers anti-sparking

Model: D.SA
4 1/4" 110 mm
Precision strong, Flat tips

Model: F.SA, F.S, F.NC
4 3/4" 120 mm
As 2A, Flat and Squared tips

Model: P.SA, P.S, P.NC, P.TA
4 3/4" 120 mm
Fine, Strong Tips

Model: S.SA, S.S
4 3/4" 120 mm
Very fine tips
High Precision Mini Tweezers

Fine tips without the excess bulk of long tweezers

Model: M-000.SA, M-000.S
3 1/2" 90mm
Serrated tips and grips

Model: M-2.SA, M-2.S
3" 80mm
Flat sharp fine tips

Model: M-4.SA, M-4.S
3" 80mm
Very fine tips

Model: M-AC.SA, M-AC.S
3 1/2" 90 mm
Strong tips, serrated grips

Model: H.SA, H.S
3 1/2" 90 mm
Dove tailed fine tips
High Precision Reverse Action Tweezers

Specially intended for applications where a high precise self-closing action is required (e.g. microscopy).

Extra fine tips in anti-acid/anti-magnetic stainless steel (SA).

Model : 2AX.SA
4 3/4" 120 mm
Flat accurate round tips

Model : 3X.SA
4 3/4" 120 mm
Very sharp and fine

Model : 4X.SA
4 1/4" 110 mm
Extra fine tips

Model : 5AX.SA
4 1/2" 115 mm
Extra fine tips, superior finish

Model : 5TTHX.SA
4 1/4" 110 mm
Anti capillary, extra fine with lock-ring for handling electronic microscope grids

Model : 7X.SA
4 1/2" 115 mm
Very fine, Curved

Model : 5X.SA
4 1/4" 110 mm
Extra fine tips, superior finish
Ergonomic ESD Cushion Grip Tweezers

Anti-magnetic precision tweezers with soft ESD ergonomic cushion grips (resistivity 10E8) for an enhanced operator comfort.

For more information on our ESD Ergonomic Handle (DR) see page 35.

**Model : 00.SA.DR**
5" 125mm
Flat edges, thick

**Model : 2A.SA.DR**
5" 125mm
Strong, sharp, rounded tips

**Model : 3.SA.DR**
5" 125mm
Very sharp and superior finish

**Model : 3C.SA.DR**
4 1/2" 115mm
Very sharp and superior finish

**Model : 5.SA.DR**
4 1/2" 115mm
Extra fine tips

**Model : AA.SA.DR**
5" 130mm
Precision tips

**Model : 00.SA.DR**
4 3/4" 120mm
Fine curved tips

**Model : 15AGW.SA**
4 3/4" 120mm
For cutting hairsprings
Super Slim Tweezers

Long and slender tweezers for multiple precision applications especially suitable for working near heat sources.

Model: 60.SA
5 1/2" 140mm
Precision relieved tips

Model: 64A.SA
5 1/2" 140mm
Bend, rounded tips

Model: SS.SA, SS.S, SS.NC, SS.TA
5 1/2" 140mm
Extra fine tips

Model: SS6.SA, SS6.TA
6" 150mm
Extra fine tips

Model: SSF.SA, SSF.NC
5 1/2" 140mm
Extra fine, 2mm tips touch

Model: SSL.SA
6" 150mm
As SS*, for max visibility
Flat Tip Tweezers

Smooth scratch proof tips usefull tips for handling electronic sensitive parts.

Model: 33A SA
4 1/2" x 115 mm
Flat round tips

Model: 34A SA
4 3/4" x 120 mm
Smooth to hold delicate parts

Model: 35A SA
4 3/4" x 120 mm
Same as 34A

Model: 125A SA
4 3/4" x 120 mm
Same as 125 but elongated tips

Model: 126 SA
4 1/4" x 110 mm
Round, flat tips

Model: 127 SA
4" x 105 mm
Thin, square tips

Model: 128 SA
4" x 105 mm
Same as 127, bent tips
General Purpose Tweezers

Handcrafted to perfect tip symmetry and balance, polished edges, superior no-scratch/antiglare satin finish. The right tweezers and material for a successful application.

Model: 119.SA
6" 150mm
Fine Tips, serrated tips and grips

Model: 119.A.SA
6" 150mm
Same as 119, Strong, serrated tips and grips

Model: 120.A.SA
4 1/4" 110mm
Fine Tips, serrated tips and grips

Model: 121.SA
6 1/4" 160mm
Very strong, blunt serrated tips and grips

Model: 121.M.SA
6 1/4" 160mm
Same as 120, Thin serrated tips and serrated grips

Model: 122.SA
6" 150mm
Fine, bent serrated tips and grips

Model: 123.SA
6" 150mm
Fine, double bent serrated tips and grips

Model: 124.SA
6" 150mm
as 122, Strong serrated tips and serrated grips

Model: 231.SA
4 3/4" 120 mm
Fine Serrated tips

Model: 321.SA
4 3/4" 120 mm
Flat rounded tips teflon coated
General Purpose Tweezers

Handcrafted to perfect tip symmetry and balance, polished edges, superior no-scratch/antiglare satin finish
The right tweezers and material for a successful application.

Model: 456.SA
5" 150 mm
Fine serrated tips

Model: 475.SA
5 1/2" 140 mm
Strong blunt precision serrated tips and serrated grips

Model: 647.SA, 647.S
4 3/4" 120 mm
Strong blunt precision serrated tips and grips

Model: 648.SA, 648.S
6" 150 mm
Strong, fine, alignment pin serrated tips and grips

Model: 649.SA, 649.S
6" 150 mm
Strong, fine, bent, alignment pin serrated tips and grips

Model: PB.NP
5 3/4" 145 mm, 0.14" 3.6 mm
Nickel plated tweezers to hold pearls and ball bearings
Boley Tweezers

Ergonomic, general purpose tweezers available in different materials for specific applications.

Model: AA.SA, AA.S, AA.NP, AA.TA
5" 130mm
General purpose straight fine tips

Model: MM.SA, MM.NP
5" 130mm
General purpose strong fine tips

Model: NN.SA, NN.NP
4 1/2" 115mm
Same as MM, Short

Model: RR.SA, RR.NP
5 3/4" 145mm
Heavy duty tweezers strong tips, rounded edges

Model: GG.SA, GG.NP
5" 130mm
Very slim tips, Max visibility

Model: D.NP
3 3/4" 95mm
Cutting nickel plated tweezers rounded edges
SMD Tweezers

Smooth handling and positioning of all SMD components. Different tips and angles for specific jobs. Satin antiglare finish and ergonomic design. Modifications or special models available on request. Available as reverse action model.

Model : SM100.SA
4 1/2" 115mm
Reverse action for handling PCBs with SMDs

Model : SM102.SA
4 1/2" 115mm
Reverse action for soldering and de-soldering 20, 28, 44 and 68 LCCC and PLCC pad devices

Model : SM104.SA
4 3/4" 120mm
For handling and positioning 3 lead SOT packages, monolithic chip capacitors etc

Model : SM105.SA
4 3/4" 120mm
For positioning all SOT packages horizontally. With flat base tips (4 mm long)

Model : SM106.SA
4 3/4" 120mm
Same as SM 108 but with 45 degree tips without anti-crush feature

Model : SM107.SA
4 3/4" 120mm
For positioning all flat devices at 60 degree angle.

Model : SM108.SA
4 3/4" 120 mm
For positioning and soldering 1mm wide components, tips are grooved inside

Model : SM109.SA
4 3/4" 120 mm
Same as SM 108 but with 45 degree tips without anti-crush feature
SMD Tweezers

Smooth handling and positioning of all SMD components. Different tips and angles for specific jobs. Satin antiglare finish and ergonomic design. Modifications or special models available on request. Available as reverse action model.

- **Model : SM110.SA**
  - 4 3/4” 120 mm
  - For positioning monolithic chips capacitor, grooved tips

- **Model : SM111.SA**
  - 4 3/4” 120 mm
  - For positioning 5 mm monolithic chips capacitor with flat base grooved tips (2 mm long)

- **Model : SM112.SA**
  - 4 3/4” 120 mm
  - For positioning 5 mm monolithic chips capacitors at 60 degree, grooved tips

- **Model : SM113.SA**
  - 4 3/4” 120 mm
  - 3 mm long tips bent at 60 degree angle one forked blade lead entry

- **Model : SM114.SA**
  - 4 3/4” 120 mm
  - Same as SM 113 but with straight tips for vertical holding

- **Model : SM115.SA**
  - 4 3/4” 120 mm
  - Grooved straight tips at 30 degree angle for holding and positioning cylindrical devices (up to 1 mm diam.)

- **Model : SM116.SA**
  - 4 3/4” 120 mm
  - Grooved straight tips for vertical positioning of cylindrical devices (up to 1 mm or more)

- **Model : SM117.SA**
  - 4 3/4” 120 mm
  - For positioning FOT package at 30 degree angle
Wafer Tweezers

Especially designed for use with delicate (very fragile) wafer, glass wafer,....

Very firm yet anti-crush/anti-crack grip. Very smooth surface to satin finish (non glare).

Teflon coating, plastic tips as well as special design to user's specifications are available.

Model: 2W.SA
A 0.25" 6.5 mm, B 0.20" 5.0 mm, C 0.10" 2.5 mm, D 0.15" 4.0 mm

Model: 2WF.SA
A 0.25" 6.0 mm, B 0.25" 9.0 mm, C 0.10" 2.5 mm, D 0.15" 4.0 mm, E 0.10" 2.5 mm

Model: 2WFCPR.SA
A 0.25" 6.6 mm, B 0.41" 10.5 mm, C 0.08" 4.0 mm, D 0.14" 3.5 mm, E 0.18" 4.5 mm
Replaceable Tips Set: A2WFCP

Model: 2WG.SA
A 0.25" 6.5 mm, B 0.35" 9.0 mm, C 0.10" 2.5 mm, D 0.15" 4.0 mm, E 0.10" 2.5 mm

Model: 2WL.SA
A 0.25" 5.5 mm, B 0.35" 9.0 mm, C 0.10" 2.5 mm, D 0.15" 4.0 mm, E 0.10" 2.5 mm

Model: 2WF.SA
A 0.25" 6.5 mm, B 0.25" 9.0 mm, C 0.10" 2.5 mm, D 0.15" 4.0 mm, E 0.10" 2.5 mm

Model: 2WL.SA
A 0.25" 5.5 mm, B 0.35" 9.0 mm, C 0.10" 2.5 mm, D 0.15" 4.0 mm, E 0.10" 2.5 mm

Model: 3W.SA
A 0.37" 9.5 mm, B 0.39" 10.0 mm, C 0.10" 2.5 mm, D 0.15" 4.0 mm

Model: 3WF.SA
A 0.37" 9.5 mm, B 0.39" 10.0 mm, C 0.10" 2.5 mm, D 0.15" 4.0 mm, E 0.10" 2.5 mm

Model: 3WL.SA
A 0.37" 9.5 mm, B 0.39" 10.0 mm, C 0.10" 2.5 mm, D 0.15" 4.0 mm, E 0.10" 2.5 mm

Model: 3WF.SA
A 0.37" 9.5 mm, B 0.39" 10.0 mm, C 0.10" 2.5 mm, D 0.15" 4.0 mm, E 0.10" 2.5 mm

Model: 4W.SA
A 0.47" 12.0 mm, B 0.33" 8.5 mm, C 0.10" 2.5 mm, D 0.15" 4.0 mm
Pro-Pack Materials

Model: 4WFG.SA
A 0.47” 12.0 mm, B 0.35” 9.0 mm
C 0.10” 2.5 mm, D 0.15” 4.0 mm, E 0.10” 2.5 mm

Model: 4WFCPR.SA
A 0.47” 12.0 mm, B 0.41” 10.5 mm
C 0.08” 2.0 mm, D 0.14” 3.5 mm, E 0.18” 4.5 mm
Replaceable Tips Set: A2WFCP

Model: 4WL.SA
A 0.47” 12.0 mm, B 0.29” 7.5 mm
C 0.12” 3.0 mm, D 0.15” 4.0 mm, E 0.10” 2.5 mm

Model: 5WL.SA
A 0.63” 16.0 mm, B 0.33” 8.5 mm
C 0.10” 2.5 mm, D 0.15” 4.0 mm, E 0.10” 2.5 mm

Model: 4WF.SA
A 0.47” 12.0 mm, B 0.33” 9.0 mm
C 0.10” 2.5 mm, D 0.15” 4.0 mm, E 0.10” 2.5 mm

Model: 4WFCPR.SA
A 0.47” 12.0 mm, B 0.41” 10.5 mm
C 0.08” 2.0 mm, D 0.14” 3.5 mm, E 0.18” 4.5 mm
Replaceable Tips Set: A2WFCP

Model: 5WF.SA
A 0.63” 16.0 mm, B 0.33” 8.5 mm
C 0.10” 2.5 mm, D 0.15” 4.0 mm, E 0.10” 2.5 mm

Model: 6WF.SA
A 0.78” 20.0 mm, B 0.33” 8.5 mm
C 0.10” 2.5 mm, D 0.15” 4.0 mm, E 0.10” 2.5 mm

Model: 8WNY.SA, 8WT.SA
A 1.12” 28.5 mm, B 0.47” 12.0 mm
C 0.08” 2.2 mm, D 0.14” 3.5 mm, E 0.10” 2.5 mm

Nylon (NY) Pads or Teflon (T) Pads

Model: 8WF.SA
A 1.12” 28.5 mm, B 0.47” 12.0 mm
C 0.08” 2.2 mm, D 0.14” 3.5 mm, E 0.10” 2.5 mm

http://www.pro-pack.com.sg
Model : 35AP.SA
A 0.27" 7.0 mm , B 0.15" 4.0 mm
E 0.15" 4.0 mm

Model : 35S.SA
A 0.14" 29.0 mm , B 0.20" 5.5 mm
D 0.12" 3.0 mm

Model : 36AP.SA
A 0.24" 6.0 mm , B 0.27" 7.0 mm
E 0.08" 2.0 mm

Model : 37S.SA
A 0.30" 7.8 mm , B 0.20" 6.0 mm
E 0.24" 6.0 mm

Model : 38FG.SA
A 0.47" 12.0 mm , B 0.39" 10.5 mm
D 0.15" 4.0 mm , E 0.10" 2.5 mm

Model : 39S2.SA
A 0.25" 6.5 mm , B 0.33" 8.5 mm
D 0.20" 5.5 mm , E 0.09" 2.4 mm

Model : 39S3.SA
A 0.37" 9.5 mm , B 0.23" 8.5 mm
D 0.20" 5.5 mm , E 0.09" 2.4 mm

Model : 35B.SA
A 0.47" 12.0 mm , B 0.51" 13.0 mm
D 0.10" 2.5 mm

Model : 35S.SA
A 0.14" 29.0 mm , B 0.20" 5.5 mm

Model : 36AP.SA
A 0.24" 6.0 mm , B 0.27" 7.0 mm

Model : 37S.SA
A 0.30" 7.8 mm , B 0.20" 6.0 mm

Model : 38FG.SA
A 0.47" 12.0 mm , B 0.39" 10.5 mm

Model : 39S2.SA
A 0.25" 6.5 mm , B 0.33" 8.5 mm

Model : 39S3.SA
A 0.37" 9.5 mm , B 0.23" 8.5 mm

Model : 35B.SA
A 0.47" 12.0 mm , B 0.51" 13.0 mm
D 0.10" 2.5 mm

Model : 35S.SA
A 0.14" 29.0 mm , B 0.20" 5.5 mm
D 0.12" 3.0 mm

Model : 36AP.SA
A 0.24" 6.0 mm , B 0.27" 7.0 mm
E 0.08" 2.0 mm

Model : 37S.SA
A 0.30" 7.8 mm , B 0.20" 6.0 mm
E 0.24" 6.0 mm

Model : 38FG.SA
A 0.47" 12.0 mm , B 0.39" 10.5 mm
D 0.15" 4.0 mm , E 0.10" 2.5 mm

Model : 39S2.SA
A 0.25" 6.5 mm , B 0.33" 8.5 mm
D 0.20" 5.5 mm , E 0.09" 2.4 mm

Model : 39S3.SA
A 0.37" 9.5 mm , B 0.23" 8.5 mm
D 0.20" 5.5 mm , E 0.09" 2.4 mm

Model : 41W.SA
A 1.1" 28.0 mm , B 0.47" 12.0 mm
D 0.20" 5.0 mm , E 0.20" 5.0 mm
Model : 42W.SA
A 0.25" 6.5 mm , B 0.33" 8.5 mm
D 0.14" 3.5 mm , E 0.10" 2.5 mm

Model : 42WF.SA
A 0.25" 6.5 mm , B 0.33" 8.5 mm
D 0.14" 3.5 mm , E 0.10" 2.5 mm

Model : 42WF.G.SA
A 0.25" 6.5 mm , B 0.33" 8.5 mm
D 0.14" 3.5 mm , E 0.10" 2.5 mm

Model : 43W.SA
A 0.37" 9.5 mm , B 0.33" 8.5 mm
D 0.14" 3.5 mm , E 0.10" 2.5 mm

Model : 43W.G.SA
A 0.37" 9.5 mm , B 0.33" 8.5 mm
D 0.14" 3.5 mm , E 0.10" 2.5 mm

Model : 43WF.SA
A 0.37" 9.5 mm , B 0.33" 8.5 mm
D 0.14" 3.5 mm , E 0.10" 2.5 mm

Model : 44W.SA
A 0.47" 12.0 mm , B 0.35" 9.0 mm
D 0.12" 3.0 mm , E 0.10" 2.5 mm

Model : 44WF.SA
A 0.47" 12.0 mm , B 0.33" 8.5 mm
D 0.14" 3.5 mm , E 0.10" 2.5 mm

Model : 45W.SA
A 0.63" 16.0 mm , B 0.30" 7.5 mm
D 0.14" 3.5 mm , E 0.10" 2.5 mm

Model : 45WF.SA
A 0.63" 16.0 mm , B 0.30" 7.5 mm
D 0.14" 3.5 mm , E 0.10" 2.5 mm
Model : 46W SA
A 0.79" 20.0 mm, B 0.27" 7.0 mm
D 0.14" 3.5 mm, E 0.10" 2.5 mm

Model : 46WF SA
A 0.79" 20.0 mm, B 0.27" 7.0 mm
D 0.14" 3.5 mm, E 0.10" 2.5 mm

Model : 46WFG SA
A 0.79" 20.0 mm, B 0.27" 7.0 mm
D 0.14" 3.5 mm, E 0.10" 2.5 mm

Model : 48W SA
A 1.1" 28.0 mm, B 0.35" 9.0 mm
D 0.15" 4.0 mm, E 0.10" 2.5 mm

Model : 55WFL SA
A 0.63" 16.0 mm, B 0.39" 10.0 mm
D 0.14" 3.5 mm, E 0.10" 2.5 mm

Model : 56WFL SA
A 0.79" 20.0 mm, B 0.3" 8.0 mm
D 0.14" 3.5 mm, E 0.10" 2.5 mm

Model : 58WFL SA
A 1.12" 28.5 mm, B 0.61" 15.5 mm
C 0.09" 2.2 mm, D 0.14" 3.5 mm, E 0.10" 2.5 mm

Model : 85B SA
A 0.57" 14.5 mm, B 0.41" 10.5 mm
C 0.35" 9.0 mm

Model : 85C SA
A 0.27" 7.0 mm, B 0.17" 4.5 mm
C 0.12" 3.0 mm, D 0.15" 4.0 mm, E 0.08" 2.0 mm

Model : 58C SA
A 0.25" 6.5 mm, B 0.25" 6.0 mm
C 0.12" 3.0 mm, D 0.15" 4.0 mm, E 0.08" 2.0 mm

Model : 96 SA
A 0.57" 14.5 mm, B 0.41" 10.5 mm
C 0.35" 9.0 mm

http://www.pro-pack.com.sg
Model : 391.SA
A 0.37” 9.5 mm , B 0.25” 6.0 mm
C 0.14” 3.5 mm , D 0.17” 4.4 mm , E 0.11” 2.8 mm

Model : 600M.SA
A 0.79” 20.0 mm , B 0.43” 11.0 mm
E 0.09” 2.3 mm

Model : 637S.SA
A 0.20” 5.0 mm , B 0.05” 1.3 mm
E 0.05” 1.3 mm

Model : 640B.SA
A 0.20” 5.0 mm , B 0.04” 1.0 mm
E 0.04” 1.0 mm

Model : 666A.SA
A 0.36” 9.3 mm , B 0.20” 5.5 mm

Model : 391.SA
A 0.37” 9.5 mm , B 0.25” 6.0 mm
C 0.14” 3.5 mm , D 0.17” 4.4 mm , E 0.11” 2.8 mm

Model : 444W.SA
A 0.47” 12.0 mm , B 0.35” 9.0 mm
D 0.15” 4.0 mm

Model : 637L.SA
A 0.23” 6.0 mm , B 0.15” 4.0 mm
E 0.15” 4.0 mm

Model : 637SB.SA
A 0.20” 5.0 mm , B 0.05” 1.3 mm
E 0.05” 1.3 mm

Model : 666A.SA
A 0.36” 9.3 mm , B 0.20” 5.5 mm

Model : SP4T.SA
A 0.47” 12.0 mm , B 0.33” 8.5 mm
D 0.25” 6.5 mm
Teflon upper pad
Ceramic Replaceable Tip Tweezers

Zirconia ceramic precision tips (MZ). Surface resistivity $10^{12}$ Ohm. Contamination free, high temperature ($1500^\circ$C) wear and solder resistant. Stainless steel (SA) handles. PATENT PENDING NO. 1750/97, Alignable replaceable tips.

Model: 2AMZ.AL, 2AMZ.SA
A 1.4" 35 mm, B 0.08" 2.0 mm, C 0.02" 0.6 mm
Replaceable tips set code: A2MZ

Model: 7MZ.AL, 7MZ.SA
A 1.7" 43.5 mm, B 0.02" 0.6 mm, C 0.02" 0.6 mm
Replaceable tips set code: A7MZ

Model: 71MZ.AL, 71MZ.SA
A 1.2" 30.0 mm, B 0.011" 0.3 mm, C 0.011" 0.3 mm
Replaceable tips set code: A71MZ

Model: 72MZ.AL, 72MZ.SA
A 1.2" 30.0 mm, B 0.007" 0.2 mm, C 0.016" 0.4 mm
Replaceable tips set code: A72MZ

Model: 73MZ.AL, 73Z.SA
A 1.3" 33.0 mm, B 0.011" 0.3 mm, C 0.03" 0.6 mm
Replaceable tips set code: A73MZ

Model: 74MZ.AL, 74MZ.SA
A 1.6" 40.0 mm, B 0.019" 0.5 mm, C 0.019" 0.5 mm
Replaceable tips set code: A74MZ

Replacing Ceramic Tip
Plastic Tip Tweezers

The largest and the most precise plastic tweezers range all over the world. 20 years of experience in high engineering plastic materials.

Choose the right tweezers with the right material for your success in your application.

A, B, C dimensions scheme.

Model: 00CF.SA, 00CP.SA, 00DG.SA, 00DL.SA, 00LC.SA, 00LR.SA, 00SV.SA
A 5" 130 mm, B 0.04" 1.0 mm, C 0.08" 2.0 mm

Model: 2ABCF.SA, 2ABCP.SA, 2ABDL.SA, 2ABLC.SA, 2ABLR.SA, 2ABSV.SA
A 5" 130 mm, B 0.07" 1.8 mm, C 0.04" 1.0 mm

Model: 2ACF.SA, 2ACP.SA, 2ADL.SA, 2ALC.SA, 2ALR.SA, 2ASV.SA
A 5" 130 mm, B 0.07" 1.8 mm, C 0.04" 1.0 mm

Model: 2CCF.SA, 2CCP.SA, 2CDL.SA, 2CLC.SA, 2CLR.SA, 2CSV.SA
A 4 1/4" 110 mm, B 0.03" 0.8 mm, C 0.05" 1.3 mm

Model: 3CF.SA, 3CP.SA, 3DL.SA, 3LC.SA, 3LR.SA, 3SV.SA
A 5" 130 mm, B 0.02" 0.5 mm, C 0.025" 0.6 mm
Plastic Tip Tweezers

The largest and the most precise plastic tweezers range all over the world. 20 years of experience in high engineering plastic materials.

Choose the right tweezers with the right material for your success in your application.

Model: 7CF.SA, 7CP.SA, 7DL.SA, 7LC.SA, 7LR.SA, 7SV.SA
A 5" 130 mm, B 0.025" 0.6 mm, C 0.025" 0.6 mm

Model: 248CF.SA, 248DL.SA, 248LR.SA
A 5" 130 mm, B 0.4" 10.0 mm, C 0.07" 1.8 mm

Model: 249CF.SA, 249CP.SA, 249DL.SA, 249LC.SA, 249LR.SA, 249SV.SA
A 5" 130 mm, B 0.09" 2.2 mm, C 0.09" 2.2 mm

Model: 250CF.SA, 250DL.SA
A 5" 130 mm, B 0.4" 10.0 mm, C 0.07" 1.8 mm

Model: 259CF.SA, 259CP.SA, 259DL.SA, 259LC.SA, 259LR.SA, 259SV.SA
A 5" 130 mm, B 0.025" 0.6 mm, C 0.04" 1.0 mm

Model: 269CF.SA, 269CP.SA, 269DL.SA, 269LC.SA, 269LR.SA, 269SV.SA
A 5" 130 mm, B 0.12" 3.0 mm, C 0.07" 1.8 mm
Plastic Tip Tweezers

The largest and the most precise plastic tweezers range all over the world. 20 years of experience in high engineering plastic materials.

Choose the right tweezers with the right material for your success in your application.

Model: 00CF.SA, 00CP.SA, 00DG.SA, 00DL.SA, 00LC.SA, 00LR.SA, 00SV.SA
A 5" 130 mm, B 0.04" 1.0 mm, C 0.08" 2.0 mm

Model: 2ABC.F.SA, 2ABCP.SA, 2ABDL.SA, 2ABLC.SA, 2ABLR.SA, 2ABSV.SA
A 5" 130 mm, B 0.07" 1.8 mm, C 0.04" 1.0 mm

Model: 2CF.SA, 2CP.SA, 2DL.SA, 2LC.SA, 2LR.SA, 2SV.SA
A 5" 130 mm, B 0.03" 0.8 mm, C 0.04" 1.0 mm

Model: 2ACF.SA, 2ACP.SA, 2ADL.SA, 2ALC.SA, 2ALR.SA, 2ASV.SA
A 5" 130 mm, B 0.07" 1.8 mm, C 0.04" 1.0 mm

Model: 3CF.SA, 3CP.SA, 3DL.SA, 3LC.SA, 3LR.SA, 3SV.SA
A 4 1/4" 110 mm, B 0.03" 0.8 mm, C 0.05" 1.3 mm

Model: 3CCF.SA, 3CCP.SA, 3CDL.SA, 3CLC.SA, 3CLR.SA, 3CSV.SA
A 4 1/4" 110 mm, B 0.03" 0.8 mm, C 0.05" 1.3 mm

Model: 5XCF.SA, 5XCP.SA, 5XDL.SA, 5XLC.SA, 5XLR.SA, 5XSV.SA
A 5" 130 mm, B 0.02" 0.5 mm, C 0.025" 0.6 mm

Model: 5CF.SA, 5CP.SA, 5DL.SA, 5LC.SA, 5LR.SA, 5SV.SA
A 5" 130 mm, B 0.02" 0.5 mm, C 0.025" 0.6 mm
Plastic Tip Tweezers

The largest and the most precise plastic tweezers range all over the world. 20 years of experience in high engineering plastic materials.

Choose the right tweezers with the right material for your success in your application.

Model: 7CF.SA, 7CP.SA, 7DL.SA, 7LC.SA, 7LR.SA, 7SV.SA
A 5" 130 mm, B 0.025" 0.6 mm, C 0.025" 0.6 mm

Model: 248CF.SA, 248DL.SA, 248LR.SA
A 5" 130 mm, B 0.4" 10.0 mm, C 0.07" 1.8 mm

Model: 249CF.SA, 249CP.SA, 249DL.SA, 249LC.SA, 249LR.SA, 249SV.SA
A 5" 130 mm, B 0.09" 2.2 mm, C 0.09" 2.2 mm

Model: 250CF.SA, 250DL.SA
A 5" 130 mm, B 0.4" 10.0 mm, C 0.07" 1.8 mm

Model: 269CF.SA, 269CP.SA, 269DL.SA, 269LC.SA, 269LR.SA, 269SV.SA
A 5" 130 mm, B 0.025" 0.6 mm, C 0.025" 0.6 mm
Conductive Plastic Tweezers

High precision plastic tweezers available in four different materials for various applications.

Model: 702A.CF, 702A.DG, 702A.LR, 702A.SV
A 4 1/2" 115 mm, B 0.08" 2.0 mm, C 0.04" 1.0 mm

Model: 705A.CF, 705A.DG, 705A.LR, 705A.SV
A 4 1/2" 115 mm, B 0.02" 0.5 mm, C 0.025" 0.6 mm

Model: 707.CF, 707.DG, 707.LR, 707.SV
A 4 1/2" 115 mm, B 0.02" 0.5 mm, C 0.045" 1.2 mm

A 4 1/2" 115 mm, B 0.025" 0.6 mm, C 0.04" 1.0 mm

Model: 709.CF, 709.DG, 709.LR, 709.SV
A 4 1/2" 115 mm, B 0.013" 3.3 mm, C 0.02" 0.5 mm

Model: 708.CF, 708.DG, 708.LR, 708.SV
A 4 1/2" 115 mm, B 0.02" 0.5 mm, C 0.04" 1.0 mm, D 0.35" 9.0 mm, E 45 Degree

Model: 709A.CF, 709A.DG, 709A.LR, 709A.SV
A 4 1/2" 115 mm, B 0.013" 3.3 mm, C 0.02" 0.5 mm

Model: 710A.CF, 710A.DG, 710A.LR, 710A.SV
A 4 1/2" 115 mm, B 0.03" 7.7 mm, C 0.02" 0.5 mm
Plastics

Engineering plastic type CF
- **PA66/CF30** polyamide 66 reinforced with 30 wt% carbon fibre
- heat stabilized
- very hard, rigid, high tensile and flexural strength, fatigue and creep resistance
- low friction, good wear and abrasion resistance
- good heat capability
- good chemical resistance (oils, grease, fuels, non-polar solvents; not resistant to strong acids, alkalis and hot water or steam)
- **ESD safe** material, (avoids dust attraction, sparks generation, ignition sources).
- Very low coefficient of linear thermal expansion
- Typical applications include handling of sensitive components and devices (electronic components, micromechanical parts, glass and ceramic substrates, capillary, etc.)

High-performance plastic type CP
- **PEEK/CF30** polyetheretherketone reinforced with 30 wt% carbon fibre
- very hard, rigid, high tensile and flexural strength, very high wear resistance
- high heat capability (260-300°C), good dimension stability, low thermal linear expansion coefficient
- excellent resistance to chemicals and aggressive agents, excellent resistance to thermal ageing.
- **ESD safe** material, low surface resistivity (106 Ohm)
- Typical applications include handling of components in cleaning/chemical/assembly processes also at high temperatures (soldering).

Engineering plastic type DG/DL
- **POM/GF30** acetal resin reinforced with 30 wt% glass fibre
- good tensile and flexural strength, fatigue and creep resistance
- low friction, good wear and abrasion resistance
- low moisture absorption
- good chemical resistance (oils, grease, fuels, organic solvents; not resistant to strong acids, alkalis and oxidizing agents; good hydrolytic resistance (hot water)
- Insulating
- Typical applications include handling of very scratch sensitive components

Engineering plastic type LR
- **PPS/GF30** polyphenylene sulphide reinforced with 30 wt% glass fibre
- very hard, rigid, high tensile and flexural strength, creep resistance
- high heat capability (250-260°C), good dimension stability, low thermal linear expansion coefficient
- excellent chemical resistance (organic solvent, oils, grease, fuels, acids and alkalis; not resistant only to hydrochloric acid and oxidizing agents), excellent resistance to thermal ageing, very low moisture absorption
- Insulating
- Microwave transparent
- Typical applications include soldering processes, handling of components in cleaning/chemical processes.

High performance plastic type SV
- **PVDF** polyvinylidene fluoride carbon fibre reinforced
- excellent mechanical strength and toughness
- smooth surface
- heat stabilized, high heat capability, continuous use temperature up to 150°C
- high purity (clean room and medical devices approved, low extraction value)
- excellent chemical resistance to most aggressive substances (mineral and organic acid) and solvents (hydrocarbons, alcohols, halogenated), resistant to halogens
- outstanding resistance to hydrofluoric acid (40% conc., 90°C), nitric acid (50% conc., 90°C), hydrochloric acid (36% conc., 90°C)
- high abrasion resistant
- resistant to UV and nuclear radiation (sterilisation)
- **ESD safe** material, (avoids dust attraction, sparks generation, ignition sources).
- very low coefficient of linear thermal expansion
- Typical applications include handling of very scratch and contamination-sensitive components, cleaning and etching processes

Engineering plastic type LC
- **PPS/GF30** polyphenylene sulphide reinforced with 30 wt% glass fibre
- very hard, rigid, high tensile and flexural strength, creep resistance
- high heat capability (230-260°C), good dimension stability, low thermal linear expansion coefficient
- excellent chemical resistance (organic solvent, oils, grease, fuels, acids and alkalis; not resistant only to hydrochloric acid and oxidizing agents), excellent resistance to thermal ageing, very low moisture absorption
- **ESD safe** material, low surface resistivity (104-105 Ohm)
- Microwave transparent
- Typical applications include handling of components in soldering and cleaning/chemical processes also at high temperature
Round Nose Pliers
Model: 6041

Round nose pliers have jaws formed by two long cones. A round nose pliers is generally used both to clamp and to form loops on leads or wire. The long jaws also provide increased access.

- Overall length: 133 mm
- Jaws length: 20 mm
- Box width: 10 mm
- Box thickness: 6.4 mm

Snipe Nose Long Pliers
Model: 6023, 6024

Commonly used in electronic assembly and rework as well as in fine jewellery and beading work. Snipe nose pliers have flat-faced inner jaws.

- Overall length: 143 mm
- Jaws length: 30 mm
- Box width: 10 mm
- Box thickness: 6.4 mm

Snipe Nose Pliers
Model: 6021, 6022

Commonly used in electronic assembly and rework as well as in fine jewellery and beading work. Snipe nose pliers have flat-faced inner jaws.

- Overall length: 133 mm
- Jaws length: 20 mm
- Box width: 10 mm
- Box thickness: 6.4 mm

Flat Nose Pliers
Model: 6011

Flat nose pliers feature a very fine tip, smooth jaws and inner edges.

- Overall length: 133 mm
- Jaws length: 20 mm
- Box width: 10 mm
- Box thickness: 6.4 mm
Oval Micro ESD Cutter
Model: 5130, 5131, 5132
- Very slim, relieved to maximize accessibility
- Overall length: 121 mm
- Cutting edges length: 8 mm
- Box width: 8 mm
- Box thickness: 6.4 mm

Oval Small ESD Cutter
Model: 5140, 5141, 5142
- Robust, Slim shape to increase accessibility when limited space.
- Overall length: 123 mm
- Cutting edges length: 10 mm
- Box width: 10 mm
- Box thickness: 6.4 mm

Oval Big ESD Cutter
Model: 5150, 5151, 5152
- Overall length: 125 mm
- Cutting edges length: 12.5 mm
- Box width: 12.5 mm
- Box thickness: 6.4 mm

Tapered Micro ESD Cutter
Model: 5330, 5331, 5321
- Pointed head shape to increase accessibility when limited space.
- Robust and versatile.
- Overall length: 121 mm
- Cutting edges length: 8 mm
- Box width: 8 mm
- Box thickness: 6.4 mm

Tapered Small ESD Cutter
Model: 5340, 5341, 5342
- Pointed head shape to increase accessibility when limited space.
- Overall length: 123 mm
- Cutting edges length: 10 mm
- Box width: 10 mm

Tapered Big ESD Cutter
Model: 5350, 5351, 5352
- Pointed head shape to increase accessibility when limited space.
- Robust and versatile.
- Overall length: 125 mm
- Cutting edges length: 12.5 mm
- Box width: 12.5 mm
- Box thickness: 6.4 mm

Tapered and Relieved ESD Cutter
Model: 5540, 5541, 5542
Features:
- Pointed head shape and deep relief for a very low profile to maximise accessibility when limited space.
- Overall length: 123 mm
- Cutting edges length: 10 mm
- Box width: 10 mm
- Box thickness: 6.4 mm

ESD Microshares
Features:
- Comfortable, Ergonomic design
- ESD safe to protect sensitive components
- Responsive spring-back action for quick, comfortable cutting of multiple leads
- Thin profile design to reach tight areas in electronics assembly
- Available with a permanently attached safety guard to reduce the risk of lead fly-off
Vampire Vacuum Pen

Vampire is the new battery-free hand held vacuum pick up pen designed for the safe pick-up of SMD components during assembly, test and rework processes. With fountain-pen dimensions, Vampire grabs, lifts and places components in complete safety, aided by a powerful internal piston and a full ESD protection. A complete choice of tips designed for any size of SMD component helps the operator to have always the right tool in hand.

Vacuum tweezer set including: 1 Vampire body, 1 conductive metal straight needle, 1 45° angled metal needle, 1 conductive rubber cup 4 mm, 1 conductive rubber cup 6mm, 1 conductive rubber cup 9 mm, 1 lubricant kit.

Features:

- ESD Safe.
- General purpose component handling.
- Two different tips
- Three different cup sizes.

Handi Vac Vacuum Pen

These lightweight, economical tools have black dissipative plastic handles and are available with non-marring static dissipative or conductive silicon vacuum cups. Press / release the Pen-Vac to control the vacuum. All probes have stainless steel stems with zinc fittings. Black cups have 0.035” inner diameter on component side and can be directly mounted to handle.

Handi-Vac Kits include 4 interchangeable tips (OD cup size): 1/8” (one bent & one straight probe), 1/4” with bent probe, and 3/8” with straight probe. Kits include 8 tips, in same sizes, each with one bent and one straight probe.

Features:

- ESD Safe.
- General purpose component handling.
- Four different tips.
Conductive / Static Dissipative Tiles

In today's environment, components are sensitive to static electricity. Charges are build up through walking and friction between two parts that generates high charges that can be harmful to manufacturing.

Static charge can attracts dust or small particles and this can be harmful to patient when doctor performing operation. Possible implication may arises from a highly charge build up area in the surgical theatres.

Conductive flooring is designed to eliminate or prevent electrostatic build up and electrostatic or mechanical sparking.

It is used in electronic manufacturing, receiving stores, assembly, test and inspection, wafer fabrication, cleanroom, Pharmaceutical manufacturing, hospital surgeries, ICU’s and radiological facilities.

Pro-Pack have wide range of conductive tiles that can give customer the option to choose the colour to meet customer manufacturing environment.

- Tested To Internal Standard. ASTM F150 / NFPA 99 / UL 779 (Listed no. 22L9)
- Surface Resistance : $2.5 \times 10^4 - 1 \times 10^6$ Ohms.
- Resistance To Chemical
- Fire Resistance.
- Good Load Test.
- Size : 600 x 600 x 2 mm
- Body Voltage Test of less than 50V on Pro-Pack Shoe. Contact our manager for the testing report.
HK Tiles Colour Design

HK-1101
HK-1102
HK-1103
HK-1104
HK-1105
HK-1106
HK-1107
HK-1108
HK-2203
HK-2204
HK-2205
HK-2206

Site Installations
ESD Work Bench

Pro-Pack's comprehensive line of cleanroom furniture is made of stainless steel to meet with strict quality standards. Designed for electronic assembly, semi-conductors manufacturing, computers industries, etc.

Furniture include tables, chairs, stools, sitting bench, work bench, changing room lockers, etc. They meet industry specifications for quality production and ergonomic designs. Dissipative table tops are also available.

Features :
- Stainless steel materials.
- Durable.
- Easy to maintain and clean.
- Available in solid worktop or perforated worktop.

Pro-Pack ESD Auto-Gate

Nowadays in the electronics and semiconductor field, more sensitive devices / products are on the leading edge of technology and hence, ESD control is getting increasingly important.

By integrating flap barrier / drop arm / Pedestrian turnstiles which are used for automatic human access control together with our ESD footwear and wrist strap combo testers, one will have a well-controlled ESD access system.

Using or design microcontroller, we are able to customise the control software to suit each customer’s application including barcode scanning or proximity card reading, additional beam sensors can be added for tailgating control.

Benefit of using ESD Controlled Auto Gate

1. Tighter ESD control at the entry level especially for operators who are not properly educated on the importance of doing ESD checks before stepping onto the production floor, especially since ESD control is increasingly becoming more stringent.
2. If using the data logging function, you can monitor the human traffic flow.
3. Trend for ESD controlled Auto Gate is increasingly popular these days. It is a permanent fixture in the operation and the possibility of damage is very low due to the hidden wiring and hidden tester.
4. Quick clearance for the operators to go through as the automated function is designed to accommodate heavy human traffic.
5. There will be no switch flipping as the tester is hidden which ensures that the testing will always be compliant to the ESDA standards.
**Clean Booth**

The Clean Booth is a cost efficient alternative to a clean room. Cleanliness class 1 is achievable with this versatile equipment that is expandable, portable and durable. The aluminium framework offers a stable structure yet requires minimal construction time. The adjustable support allows for easy height adjustment. The side panels can be constructed out of acrylic, DC plate or anti-static vinyl sheet as per customer's requirements. The High Efficiency Particulate Air (HEPA) filter ensures an efficiency of filtering 99.97% of 0.3μm or larger particles. The resulting laminar flow also restricts any contaminating particles present to the streamlines thus ensuring minimum contamination. For more stringent requirement, Ultra Low Penetration Air (ULPA) filter achieves a rate of 99.9999% of 0.12μm or larger particles.

**Laminar Flow Clean Booth**

The Laminar Flow Bench is a self-contained system that provides an economical contamination controlled environment. Designed to sit on top of an existing tabletop or as a stand-alone unit, it offers a class 100 or better environment using HEPA filters to remove up to 99.97% of 0.3μm or larger particles. The continuous flow of clean air ensures that the work area is constantly purged of any contaminants present. The vertical laminar flow is chosen when the equipment is tall and narrow or when process and personnel are to be protected from powders, chemicals or solvents. The horizontal laminar flow is chosen when the product or process must be the first in line with the clean air or when workers lean over work surfaces when carrying out the process.
**Standard Safety Eye Wear – Smoke**

- Impact resistant polycarbonate lens.
- Lightweight frames for assed comfort.
- 99.9% UVA / UVB protection.
- Out Door Use.

**Standard Safety Eye Wear – Clear**

- Impact resistant polycarbonate lens.
- Lightweight frames for assed comfort.
- 99.9% UVA / UVB protection.

**Standard Safety Eye Wear – Clear, OTG**

- Impact resistant polycarbonate lens.
- Lightweight frames for assed comfort.
- 99.9% UVA / UVB protection.
- Over the Glass (OTG)

**Comfort Safety Eye Wear – Indoor / Outdoor**

- Impact resistant polycarbonate lens.
- Lightweight frames for assed comfort.
- 99.9% UVA / UVB protection.
- Comfortable, padded temples.
- Indoor / Outdoor use.

**Comfort Safety Eye Wear – Indoor / Outdoor**

- Impact resistant polycarbonate lens.
- Lightweight frames for assed comfort.
- 99.9% UVA / UVB protection.
- Comfortable, padded temples.
- Indoor / Outdoor use.

**Comfort Safety Eye Wear – Amber**

- Impact resistant polycarbonate lens.
- Lightweight frames for assed comfort.
- 99.9% UVA / UVB protection.
- Comfortable, padded temples.
- Amber

**Comfort Safety Eye Wear – Clear, Anti-Fog**

- Impact resistant polycarbonate lens.
- Lightweight frames for assed comfort.
- 99.9% UVA / UVB protection.
- Comfortable, padded temples.
- Clear.
- Anti-Fog.

**Flexible Safety Eye Wear – Clear, Anti-Fog**

- Impact resistant polycarbonate lens.
- Lightweight frames for assed comfort.
- 99.9% UVA / UVB protection.
- Comfortable, padded nose bridge.
- Special flexible temples for added comfort.
- Adjustable lens angle
- Clear.
- Anti-Fog.

**Flexible Safety Eye Wear – Indoor / Outdoor**

- Impact resistant polycarbonate lens.
- Lightweight frames for assed comfort.
- 99.9% UVA / UVB protection.
- Comfortable, padded nose bridge.
- Special flexible temples for added comfort.
- Adjustable lens angle
- Indoor / Outdoor.
### Safety Eyewear Comparison Chart

<table>
<thead>
<tr>
<th>Lens Style</th>
<th>V10 Standard</th>
<th>V20 Comfort</th>
<th>V30 Flexible</th>
<th>V40 Contour</th>
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<tbody>
<tr>
<td>Amber</td>
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<tr>
<td>Clear</td>
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<td>Smoke</td>
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<td>Clear, Anti-Fog</td>
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<td>Indoor / Outdoor</td>
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<tr>
<td>OTG, Clear</td>
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<tr>
<td>Protection Feature</td>
<td>V10 Standard</td>
<td>V20 Comfort</td>
<td>V30 Flexible</td>
<td>V40 Contour</td>
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<tr>
<td>Impact Resistant</td>
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<td>Wraparound Lens</td>
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<td>Adjustable Lens Angle</td>
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<td>ANSI Z87.1+</td>
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<tr>
<td>99.9% UVA / UVB Protection</td>
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<tr>
<td>Hardcoat Lenses</td>
<td>X</td>
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<tr>
<td>Comfort Feature</td>
<td>V10 Standard</td>
<td>V20 Comfort</td>
<td>V30 Flexible</td>
<td>V40 Contour</td>
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<td>Lightweight Frames</td>
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<td>Ratcheted Temples</td>
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<td>Padded Temples</td>
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<td>Padded Nose Bridge</td>
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<tr>
<td>Cushioned Brow Bar</td>
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</tbody>
</table>

Remark: t Except OTG (Over-the-glass)
Pro-Pack Materials

**Static Dissipative Safety Shoe**
Model : BTU-510
- Shoe base made from Static Dissipative PU material.
- Durable
- Steel toe Cap.
- Surface Resistance : 10 E7 to 10 E9 Ohm.
- Available size : 230, 240, 250, 260, 270, 280, 290, 300

**Static Dissipative Safety Shoe – Low Cut**
Model : 212811
- Made from black full grain leather.
- Padded collar with cambrelle lining.
- Durable PU injection outsole.
- Wide steel toe cap.
- Full length steel midsole.
- Infinity comfort insole

**ESD Safety Booties**
Model : BTU530
- Customise Legging for customer requirement.
- PU sole for comfortable wearing
- anti slip properties
- Steel toe cap for safety protection.
- Resistance to ground : 10 E6 to 10 E8 Ohm
- Available size : 230, 240, 250, 260, 270, 280, 290, 300

**ESD Safety Helmet**
- Excellent Impact Protection.
- Surface Resistance : 10 E6 to 10 E9.
- Suitable for use in Cleanroom Environment.

**Static Dissipative Safety Shoe**
Model : TAU-9324
- Shoe base made from Static Dissipative PU material.
- Durable
- Enforced hard toe Cap.
- Surface Resistance : 10 E7 to 10 E9 Ohm.
- Available size : 230, 240, 250, 260, 270, 280, 290, 300

**Static Dissipative Safety Shoe – Low Cut**
Model : 21381
- Low cut slip-on design for greatest convenience.
- Black full grain leather .
- Padded collar with Cambrelle® lining.
- Durable PU injection outsole.
- Wide steel toe cap.
- Full length steel midsole.
- Infinity comfort insole

**Static Dissipative Boot**
Model : TAU-9470
- Customise Legging for customer requirement.
- PU sole for comfortable wearing.
- anti slip properties
- Resistance to ground : 10 E6 to 10 E8 Ohm
- Available size : 230, 240, 250, 260, 270, 280, 290, 300

**ESD Safety Harness**
- Excellent Safety properties.
- Shock Absorbing properties.
- Surface Resistance : 6 to 10 E8 Ohm.
- Suitable for use in Cleanroom Environment.
Pro-Pack Materials

**ESD Heat Resistant Glove – 150 Degree**
- Can withstand heat of up to 150 degree.
- Cut resistant.
- Abrasion resistant.
- Antistatic ESD properties.

**ESD Heat Resistant Glove – 300 Degree**
- Can withstand heat of up to 300 degree.
- Cut resistant.
- Abrasion resistant.
- Antistatic ESD properties.

**Anti-Slip Glove**
- Made from 100% textured nylon and black NBR foam
- Anti-slip properties.
- Individually packed.

**Heat and Puncture Resistance Glove**
- Made from Kevlar, glass fibre, NBR PU and Fibre glass
- Heat resistance.
- Puncture Resistance.
- Prevent cut to personnel.
- Individually packed.

**Grey Anti-Cut PU Glove**
- Made from Dyneema material, NBR PU and Fibre glass
- Anti-slip properties.
- Individually packed.

**Kevlar Nylon Sleeve**
- Made from Kevlar and nylon material.
- Cut resistant.
- Heat Resistant.
- Light weight.

**Dyneema Grey Nylon Sleeve**
- Made from dyneema and grey nylon material.
- Cut resistant.
- Light weight.
Total Integrated Solution

Having served the cleanroom industry for more than 24 years, the name of Pro-Pack has been synonymous with excellence in providing high quality products. We are continuously introducing new innovative programs and superior service so as to serve our customer better.

We understand that while each customer has a unique facility to operate and a different problem to solve, all our customers share one common requirement: when they need Pro-Pack's products or services, they often need it right away.

Therefore, fully equipped with a vast global network, experience and the knowledge of understanding what our customers need, Pro-Pack is proud to provide a one-stop Total Integrated System.

Innovation
Pro-Pack has more than just the quality products needed to minimize downtime and improve your company’s operations. We provide added value through innovative solutions and knowledgeable recommendations, creating customer success.

Expertise
More than just order takers, Pro-Pack's sales force works closely with customers to better understand their challenges and provide cost-saving solutions. Besides that, we also have a group of dedicated and well-trained administrative and quality control staff as well as in-house testing lab to do:

1. Static control testing adhering to S20.20 standards
2. Particle checks
3. Cleanliness test reports

Support
Our Total Integrated System ensures that you save on logistics cost from managing different suppliers. Pro-Pack can do one time delivery of all the materials to you whenever you require. Automatic replenishment of stock is also managed by Pro-Pack to safeguard that stock is always at a safe level for consumption. Pro-Pack also controls manufacturing for some of the products which means better cost offering and control of raw materials for shorter lead time.

Therefore, you can be assured that helps our Total Integrated System helps save time and money by providing them the right products and the right services to keep your facilities up and running!

Laundry Services

Being one of the pioneer in the cleanroom laundry industry, our class 100 cleanroom laundry in both Singapore and Batam offer a highly professional package to industries where attention to detail is of utmost importance. It also ensures complete compatibility with the operations of your cleanroom.

Currently, our laundry is capable of supporting filtered water requirements and DI water requirements.

Our cleanroom facilities are certified to the following standards:

- National Environmental Balancing Bureau Standard (NEBB)

At Pro-Pack, we take an uncompromising attitude to cleanliness and garment tracking for our cleanroom services. We manage our customers garments through barcoding and have reports on number of washes to allow monitoring of garments lifespan.

We make use of high quality ESD chemicals to wash all garments and footwear. The amide silicon free bags used for product packaging are of the highest quality available and are approved by our customers, so as to assure our customers of the highest product quality possible.

From our daily pickups to emergency deliveries on weekends, Pro-pack is dedicated to provide the best possible service to our customers. We can make special arrangement of daily pickups and deliveries to your facilities. Once cleaned, we package and box the garments according to your specification.
Calibration and Repair Services

Pro-Pack Calibration Service Center provides quality services in the field of Electrostatic Discharge (ESD) Test and Measurement instrument. We have a team of engineers who have gone through product and calibration training in the States. We are fully staffed and equipped to provide calibration services traceable to the National Institute of Standards & Technology (NIST).

Our ESD Laboratory

- Meet ESD environment requirement.
- Relative Humidity at 55% +/-10%.
- Temperature is 23 degree Celsius +/- 3 Deg Celsius.

Fast turn around time at reasonable pricing.

Calibration Recall Service System to customer informing them 1 month ahead of time.

Free Collection and Delivery Service. (Singapore)

On-Site Calibration Service for ionizers, ESD monitor and checker, workstation testing, etc.

We provide Installation of workstations that comply with ESD requirement.

Calibration contract services – Quarterly, half-yearly or yearly.

Pro-Pack Calibration and Repair Services Includes:

- Resistance Meter
- Resistivity Meter
- Wrist Strap And Footwear tester
- Wrist Strap Monitor
- Electrostatic Fieldmeter
- Electrostatic Voltmeter
- Charge Plate Monitor
- Bench Top Ionizer
- Overhead Ionizer
- Static Decay Meter

Contact our qualify Technical Manager at :

Phone : +(65) 6354-1511 x 868

Email : calibration@pro-pack.com.sg