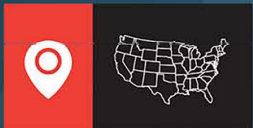




2017 **ESD CONTROL**

Anti-Static Solutions www.ams-fa.com



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ADVANCED
MECHATRONICS
SOLUTIONS, INC

AUTOMATION. SMT & LEAN MANUFACTURING



ANTISTATIC STAINLESS STEEL TWEEZERS

- Suitable for using in laboratories, hospitals, industries such as microelectronics, electronics, computers, watches and clean room project etc.
- Material: hypo-light/light stainless steel
- Replaceable head material: conductive PPS
- Surface resistance of replaceable head: $10^4 \sim 10^8 \Omega$



CONDUCTIVE PLASTIC TWEEZERS

Conductive plastic tweezers are made with carbon fibre and special plastic to avoid the pollution to the products. It is suitable for Class100 and less required cleanroom in semiconductor, computer magnetic head industries and etc.



Right-angle bent-nose tweezers



Level tweezers



Duckbill tweezers



Pinhead tweezers



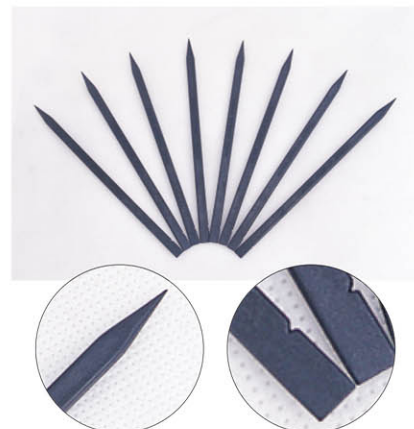
Bent-nose tweezers



Tip tweezers with raised head



Sharp Tip tweezers



015.008.007.10.00001

ANTISTATIC TOMMY BAR

- Material: conductive PPS
- Surface resistance: $10^3 \sim 10^4 \Omega$
- Size: L153mmxW6mmxD4.5mm
- Application: assembly of crust of cell phone and as operating tools of testing main board.

VACUUM PEN



- Vacuum suction pen is made from imported antistatic materials, which is suitable for absorbing small IC and LCD.
- There are 2 types available for choose, balloon type and pen type.

ANTISTATIC BRUSHES



- Antistatic brush with conductive plastic handle
- Surface resistance of handle: $\leq 10^7 \Omega$
- surface resistance of lever handle: $\leq 10^9 \Omega$
- Hair: antistatic plastic threads, animal hair or metal wire

Model and Specification

Model	Clusters	Brush(L*W)	Bristle(L*W)
014.001.007.10.00004	3 34	225*34MM	97*34MM
014.001.007.10.00001	1 33	390*10MM	225*5MM
014.001.007.10.00003	1 17	250*58MM	130*58MM
014.001.003.10.00001	3 13	195*20MM	85*20MM
014.001.002.10.00002	2 12	175*15MM	65*15MM
014.001.001.10.00002	2 8	170*10MM	40*10MM
014.001.011.10.00001	8 20	180*70MM	155*55MM
014.001.010.10.00001	7 14	120*70MM	95*45MM
014.001.012.10.00001	5 10	90*66MM	67*32MM
014.001.006.10.00001	1 12	170*62MM	62*25MM
014.001.005.10.00001	1 9	140*48MM	48*25MM
014.001.004.10.00001	1 7	140*38MM	38*25MM
014.001.009.10.00001	2 11	150*20MM	20*18MM
014.001.008.10.00001	3 7	125*11MM	11*18MM
014.001.014.10.00001	1 3	155*24MM	24*30MM

Custom hair length and stiffness available.



ANGLE DISPENSER BOTTLE

Materials: body (LDPE), cap (imported PP), nozzle (LLDO).
Integrated design with reliable seal, high sensitivity nozzle, fast rebound, no residue, can meet common requirements.

025.002.002.01.00002 025.002.002.01.00001



ESD SOLVENT DISPENSER

- Solvent Dispenser using for the strong and easy volatile solvent like Alcohol, Acetone, Ethanol, Retinol.
- Material: SUS304, Copper, HDPE
- Surface Resistance: $10E6-10\Omega$
- Color: pink, blue, white, yellow
- Volume: 125ml, 180ml, 250ml



025.001.001.01.00001
025.001.001.02.00001 025.001.001.18.00001 025.001.001.04.00001

ANTISTATIC HEEL-GROUNDING SERIES



035.001.002.11.00001



035.001.002.13.00001

VELCRO ADJUSTABLE WRIST STRAP



034.001.000.10.00022

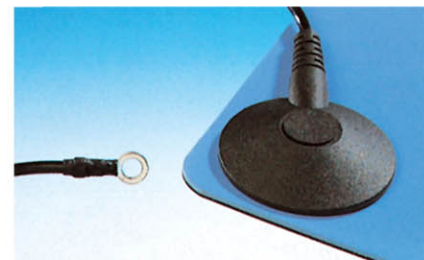
METALLIC WRIST STRAP WITH CORD



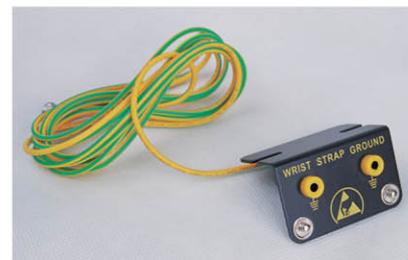
034.005.000.04.00001



034.004.000.10.00021



034.004.000.10.00024



034.003.000.10.00002



034.004.000.00.00008

GROUNDING LINE PART SERIES

- 1M Ω resistor in each socket only
- 0M Ω also possible

SILICON CLEANROOM WRIST STRAP



034.006.000.04.00001



034.006.000.05.00001

- Color: red, blue, yellow
- This new style silicon wrist strap, has integrated bayonet fastener, easy for adjust, comfortable, safe and long life time, powder free, is suitable for cleanroom.
- Internal Resistance: $<10E5\Omega$
- Surface Resistance: $>10E7\Omega$
- Decay time: $<0.2s$

CORDLESS WRIST STRAPS



034.001.000.04.00012

How it works: it follows corona and point discharge. Charge building up discharges when it reach a limit to eliminate electrostatic.

- Features:
- (easy to use, reliable)
 - (Discharge time) $<0.5s$



034.001.000.10.00023

ANTISTATIC WRIST STRAP

How it works: Skin contacts with conductive material on the wrist strap. Static charges building up on body are discharged to the earth through the earth system.

Specification:

- 1、Rubber disk type:16 pieces of imported conductive yarns (white and black yarn)
- 2、discharge time: <0.1s
- 3、Cord length: 2.8M, 3.05M, 4.91M



034.002.000.05.00001



034.001.000.04.00009



034.002.000.04.00003



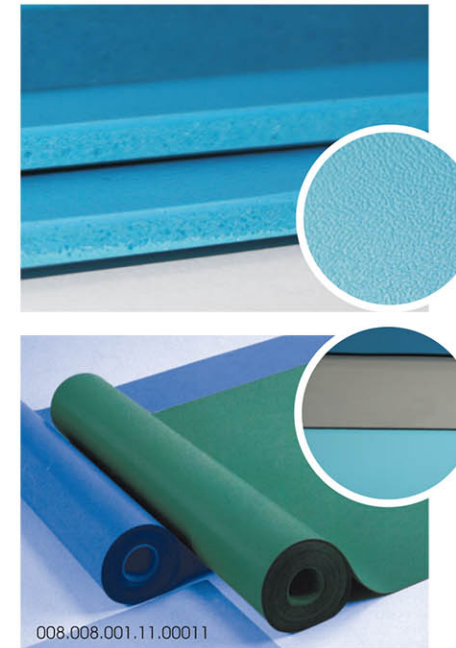
034.001.000.04.00036



034.005.000.10.00001



034.001.000.10.00029



008.008.001.11.00011

ANTISTATIC MAT

- High-quality dissipative mats are designed to harmlessly drain charges from personnel, circulation boxes, bags, components, etc.
- Size W(M) X L(M) : 0.6 X 10 0.8 X 10 0.9 X 10 1.0 X 10 1.2 X 10
- COLOR: Green/black Gray/black Blue/black
- Thickness: 2mm 3mm

Surface resistance	top layer	static dissipative	< 10 ⁸ ohm/square
	bottom layer	conductive	10 ⁴ ohm/square

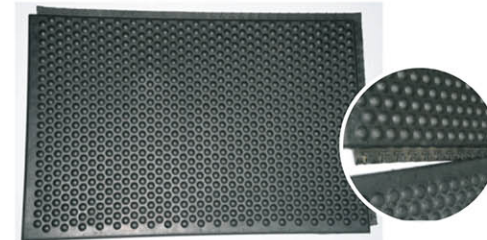


009.001.000.10.00001



009.002.000.15.00001

ANTI-FATIGUE RUBBER MAT



series	size	Technology spec	Material
antifatigue mat	910*610*15 \ 20mm 710*610*15 \ 20mm 610*610*15 \ 20mm 510*610*15 \ 20mm	10E8 - 10E9 Ω; 10E3-10E5 Ω, ESD.	PVC EPDM Material: Upper/Antistatic PVC Middle layer/Antistatic bubble
	customize Length available	Static dissipative surface resistance:10E8-10E9 Ω; conductive(antistatic) surface resistance(ESD permanence) 10E3-10E5 Ω	

CONDUCTIVE BUBBLE

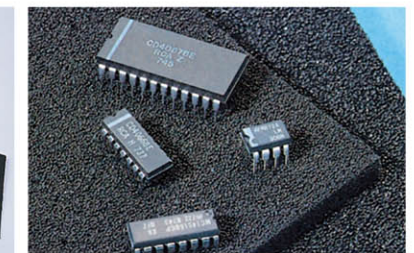
Custom size and thickness available
Appearance:

- Double sided leather
- Single sided leather
- No leather

 10³~10⁵ Ω
 Surface resistance: 10³~10⁵ Ω



027.001.002.10.00001



027.001.002.10.00002



防静电防潮材料及袋子

ANTISTATIC MOISTUREPROOF MATERIAL AND BAG

表面电阻率 Surface resistivity

- 外层 Top layer: <math>< 10^9\text{ohms/sq}</math>
- 铝箔层 Aluminum foil: <math>< 10^2\text{ohms/sq}</math>
- 内层 Inner layer: <math>< 10^9\text{ohms/sq}</math>

物理机械性能 Physical properties

- 拉断力 Stretching resistance at break: $\geq 70\text{N}$
- 断裂伸长率 Elongation at break: $\geq 40\%$
- 封口剥离力 Peel force: $\geq 50\text{N}$
- 撕裂力 Tearway force: $\geq 12\text{N}$



防静电屏蔽材料及袋子

ANTISTATIC SHIELDING MATERIAL AND BAG

表面电阻率 Surface resistivity

- 外层 Top layer: <math>< 10^9\text{ohms/sq}</math>
- 金属层 Metal layer: <math>< 10^3\text{ohms/sq}</math>
- 内层 Inner layer: <math>< 10^9\text{ohms/sq}</math>



	技术参数 SPECIFICATIONS
耐磨外层 ABRASION RESISTANT COATING	
厚度 Thickness	7.5微米 (7.5Microns)
表面电阻率 Surface Resistivity	<math>< 10^9\text{ohm/sq}</math> ASTM D 618 At 15% RH.ETS 803 probe, 100 Volts
耐磨强度 Abrasion Resistance	1000次磨损 CSI Model CS-39 Head Load 227 gms (100 Cycles with no damage CSI Model CS-39 Head Load 227 gms Abradent Rough Corrugated)
金属层 METALLIZED LAYER	
电阻 Resistance	<math>< 10^3\text{ohm/sq}</math>
光传输 Light Transmission	40%-0.4光密度 (40%-0.4 Optical Density.)
摩擦静电 Triboelectric Charging	<math>< 100\text{V}</math> E1A 541 Appendix C average. Triboelectric Nanocoulombs Quartz <math>< .13\text{n}^2/\text{in}^2</math> Teflon <math>< .13\text{n}^2/\text{in}^2</math>
静电消除时间 Static Decay	5000-0v <math>< 0.01\text{秒}</math> FTMS 101B Method 4046) (5000-0 Volts <math>< .01\text{ seconds}</math> Ftms 101B Method 4046)
电容耦合效应 Capacitance Probe	<math>< 10\text{ v}</math> 电压差—E1A 541 (<math>< 10\text{ Volts}</math> Differential -E1A 541)
耐腐蚀 Corrosion	无可见斑点 FTMS 101C Method 3005 (No visible signs detected FTMS 101C Method 3005)
特性 CHARACTERISTICE	
抗拉强度 Tensile Strength	>18 lbs./in ASTM D 882
开始破裂 Tear Initiation	>2.5 lbs./in ASTM D 1004
抗穿透强度 Puncture Resistance	>10 ⁹ p.s.i. ASTM D 3420
裂开强度 Seam Strength	>8 lbs./in ASTM D 882
阻隔 MVTR MVTR Barrier	>0.2 gm/100 in-2/24 hrs. ASTM E 96
阻氧 Oxygen Barrier	>0.5cc/100 in-2/24 hrs. ASTM D 3985
热封 HEAT SEALING	
温度 Temperature	220-240 $^{\circ}\text{C}$
时间 Time	0.5-3.5秒 (0.5-3.5 seconds)
压力 Pressure	30-70 p. S. I.



020.004.003.10.00005

ANTISTATIC PE BAG

- Tough, puncture resistant, often re-used
- Made of linear polyethylene with carbon added, 0.07mm thick
- Rs: $10^3 \sim 10^8 \Omega$, independent of humidity
- Heat sealable, recyclable
- Surface resistivity $< 10E11 \text{ ohms/sq}$



SHIELDING BUBBLE PACKING BAG



020.001.001.19.00022

- Combines ESD shielding and mechanical protection
- Shields about twice as well as a normal shielding bag of equivalent size
- Flap can be tucked in to enclose contents or folded down and held in place by a label
- Inner layer is amine-free antistatic film
- Middle layer is antistatic bubble
- Outer layer is buried metal shielding film
- Rs inside and out: $10^2 \Omega$ to $5 \times 10^{10} \Omega$, T1000: $< 2 \text{ sec}$ at 50% rH

ANTISTATIC P.E. GRID BAG

- Top layer: $< 10^5 \text{ ohms/sq}$
- Inter layer: $< 10^{12} \text{ ohms/sq}$



020.004.003.10.00003

DESICCANT

The absorbent is a type of material capable of absorbing water vapor. It can absorb the water vapor in the external environment through the physical or chemical methods and lock it, so as to realize the dry and moisture resistance purposes. At present, the widely used absorbents for dry and moisture resistance mainly comprise: montmorillonite, active mine, silica gel, molecular sieve, calcium chloride. Packed desiccant is a general type desiccant developed for industrial packaging, it adopts "g" as measuring unit. There are different varieties of absorbant and multiple packaging materials to meet your different needs. Available in two categories of back seal and three side seal, 0.5g-1000g complete range of specifications and competitive price structure. It can be used widely in electronic products, metal products, electromechanical machinery, daily hardware, shoes, hats and leather sectors.

Raw material of absorbent:



Montmorillonite



The adsorbent of container



Silica gel



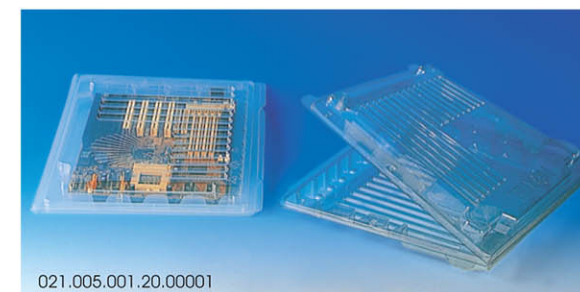
Active mineral



Indication silica gel

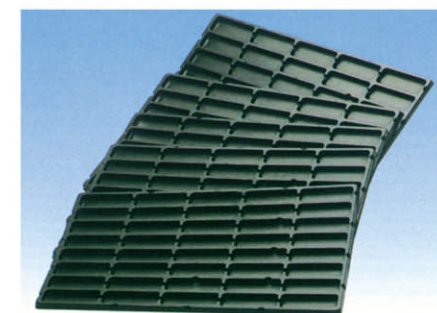


Molecular sieve



021.005.001.20.00001

PET/PS ANTI-STATIC SUCTION PLASTICS BOX



021.004.001.10.00004

PP/PS CONDUCTIVE SUCTION PLASTICS BOX

Surface resistivity

- exothecium: $< 10^4 \sim 10^6 \text{ ohms/sq}$
- lining: $< 10^4 \sim 10^6 \text{ ohms/sq}$



021.005.001.20.00003

CONDUCTIVE CORRUGATED BOX



Containers made of hollow slabs can efficiently eliminate static charges potential up on surface.

The hollow slabs are light, wearable, damp-proof, anticorrosive, and economical. They help reduce damage ratio of electronics in production to cut down cost and increase quality of product and profit.

Application: used for containing, packaging, storing, and transferring electronic parts or products which are sensitive to electrostatic during production.

Specification of conductive hollow slabs

Item	Unit	Thickness	
		2mm	4mm
Surface resistance	A (type)	$\sqrt{1 \times 10^4}$	$\sqrt{1 \times 10^4}$
	B (type)	$\sqrt{1 \times 10^9}$	$\sqrt{1 \times 10^9}$
Stretching resistance at break	N	$\wedge 250$	$\wedge 300$
Planar compression force	N	$\wedge 900$	$\wedge 1000$
Vertical compression force	N	$\wedge 150$	$\wedge 350$
Elongation at break	%	$\wedge 50$	$\wedge 50$

- Thickness: 2mm/3mm/4mm
- Conductive: 10^4 - $10^6 \Omega$
- Permanently antistatic: 10^7 - $10^9 \Omega$

Special specifications are acceptable without additional cost.



ANTISTATIC WASTEBIN

- Surface resistance: $10^4 \sim 10^6 \Omega$ or $10^9 \sim 10^{11} \Omega$
- Size: L1000 X W750 X H1000mm
- The thickness of the material: 5mm
- Custom size available



CONDUCTIVE DUSTBIN

- $10^6 \Omega$ Surface resistance: below $10^6 \Omega$
- $\Phi 270 \times H 250$ mm Size: $\Phi 270 \times H 250$ mm

CONDUCTIVE PARTS BOXES



Specification

Models	External size	Internal size	Models	External size	Internal size
021.001.004.10.00006	95×105×50	80×90×40	021.001.004.10.00011	104×104×49	88×87×40
021.001.004.10.00007	165×95×70	145×85×60	021.001.004.10.00012	140×122×68	125×109×65
021.001.004.10.00008	175×105×80	155×90×70	021.001.004.10.00013	180×121×79	150×100×76
021.001.004.10.00009	200×130×90	175×110×80	021.001.004.10.00014	253×155×125	210×132×115
021.001.004.10.00010	235×155×120	215×140×110	021.001.004.10.00015	352×201×143	303×175×135



COMPOSED DRAWER TYPE COMPONENTS CONDUCTIVE BOXES

- Surface Resistance: below $10^6 \Omega$
- Contour Size:(LXWXH)138mmX93mmX46mm
- Interior Size:(LXWXH)127mmX87mmX42mm



DRAWER TYPE COMPONENTS CONDUCTIVE BOXES

- Surface Resistance: below $10^6 \Omega$
- Contour Size:(LXWXH)253mmX140mmX70mm
- Interior Size:(LXWXH)233mmX127mmX58mm



CONDUCTIVE CIRCULATION BOXES

Antistatic, general type injection molding container

Applicable for holding electronic parts in production line to keep them against collision and static discharge. Custom specifications available. Stackable to make full use of space.

Item	Unit	Thickness	
		Antistatic type	General purpose
Surface resistance	Ω/M^2	$< 1 \times 10^9 - 11$	$< 1 \times 10^E14$
Stretching resistance at break	N	3mm	4mm
		> 250	> 300
Planar compression force	N	> 900	> 1000
Vertical compression force	N	> 150	> 350
Elongation at break	%	> 50	> 50

Models	External size	Intenal Size
021.001.002.10.00001	360mmX270mmX135mm	320mmX240mmX125mm
021.001.002.10.00031	420mmX310mmX155mm	380mmX280mmX145mm
021.001.002.10.00059	500mmX360mmX175mm	470mmX330mmX165mm
021.001.002.10.00046	565mmX420mmX240mm	510mmX390mmX235mm
021.001.002.10.00008	565mmX420mmX300mm	510mmX390mmX290mm
021.001.002.10.00060	565mmX420mmX380mm	510mmX390mmX375mm
021.001.002.10.00010	620mmX425mmX320mm	580mmX395mmX310mm
021.001.002.10.00011	610mmX415mmX245mm	580mmX380mmX240mm
021.001.002.10.00012	600mmX500mmX360mm	560mmX460mmX355mm
021.001.002.10.00013	600mmX500mmX150mm	560mmX455mmX140mm
021.001.002.10.00014	600mmX500mmX300mm	560mmX455mmX290mm
021.001.002.10.00015	380mmX240mmX100mm	340mmX220mmX90mm
021.001.002.10.00016	600mmX500mmX160mm	560mmX460mmX155mm
021.001.002.10.00017	580mmX368mmX200mm	535mmX345mmX195mm
021.001.002.10.00018	580mmX368mmX165mm	535mmX345mmX155mm
021.001.002.10.00019	560mmX430mmX145mm	515mmX350mmX140mm
021.001.002.10.00020	615mmX430mmX120mm	555mmX373mmX118mm
021.001.002.10.00021	615mmX425mmX155mm	580mmX385mmX145mm
021.001.002.10.00022	660mmX400mmX160mm	620mmX360mmX150mm
021.001.002.10.00023	510mmX345mmX185mm	464mmX300mmX175mm
021.001.002.10.00024	530mmX370mmX205mm	490mmX330mmX200mm
021.001.002.10.00025	585mmX405mmX175mm	538mmX360mmX170mm
021.001.002.10.00026	610mmX500mmX400mm	560mmX455mmX395mm
021.001.002.10.00027	620mmX430mmX200mm	580mmX395mmX195mm
021.001.002.10.00028	620mmX430mmX250mm	580mmX395mmX245mm
021.001.002.10.00029	720mmX450mmX180mm	680mmX420mmX170mm
021.001.002.10.00030	720mmX560mmX380mm	675mmX515mmX370mm

● Surface resistance: below $10^6 \text{ } ^\circ\text{C}$



ANTISTATIC TRAY

Specification

(Unit:mm)

Models	External size	Internal Size
021.001.001.10.00001	450X300X60	430X280X50
021.001.001.10.00006	320X235X43	310X225X35
021.001.001.10.00012	375X250X65	345X225X60
021.001.001.10.00013	440X295X80	410X265X75
021.001.001.10.00014	560X375X75	525X340X70
021.001.001.10.00015	440X290X50	400X265X45
021.001.001.10.00016	226X160X29	213X153X25
021.001.001.10.00018	480X328X42	445X292X35
021.001.001.10.00019	280X190X26	272X182X24

- Surface resistance: below $10^6 \Omega$



021.001.005.10.00005

L-SHAPED CONDUCTIVE CIRCULATION RACK

- Contour size: (LxWxH) 265mmX205mmX95mm
- Keep in 25 PCB plates
- surface resistance : $10^6 \Omega$ (below)



021.001.005.10.00010

L-SHAPED CONDUCTIVE CIRCULATION RACK

- External size: (LxWxH) 405mmX280mmX150mm
- Keep in 38 PCB plates
- Surface Resistance: below $10^6 \Omega$



ANTISTATIC FOLD CIRCULATION BOXES

SPECIFICATION

(单位 Unit:mm)

Models	External size	Internal size
021.001.002.10.00047	541X366X190	496X331X170
021.001.002.10.00048	541X366X250	496X331X230
021.001.002.10.00049	541X366X295	496X331X275
021.001.002.10.00050	541X366X325	496X331X305
021.001.002.10.00051	541X366X375	496X331X355
021.001.002.10.00052	540X423X303	495X395X280
021.001.002.10.00053	540X423X412	495X393X392
021.001.002.10.00032	607X495X303	558X458X280
021.001.002.10.00054	607X495X404	558X458X383
021.001.002.10.00055	647X443X280	602X408X260



021.001.005.10.00002

LEVEL-STYLE CONDUCTIVE CIRCULATION RACK

- Contour size: (LxWxH) 410mmX290mmX25mm
- Keep in 42 PCB plate
- Surface resistance : $10^6 \Omega$ (below)



021.001.005.10.00006

BAR-SHAPED PCB CONDUCTIVE CIRCULATION RACK

- Contour size: (LxWxH) 436mmX160mmX32mm
- Keep in 25 PCB plate
- Surface resistance : $10^6 \Omega$ (below)



037.002.001.00.00012

ANTISTATIC CART

- Anti-static cart
- Surface resistance: $10E4-6 \Omega$
- Overall Size: 660*445MM
- Maximum load:About200KG



021.001.005.10.00003

BAR-SHAPED PCB CONDUCTIVE CIRCULATION RACK

- External size: 480mmX140mmX35mm
- keep in 25 pcs of PCB plates
- surface resistance: $10^6 \Omega$ (below)

ANTISTATIC PALLET



021.004.008.10.00001

- size: 1200x1000x145mm
- Material: PP
- Surface Resistance: $10E3-9 \Omega$





036.002.003.00.00001
Metal frame type



036.002.002.00.00002
General molding type

SMT

SMT CONDUCTIVE MAGAZINE RACK

- PCB 50
- PCB: 330mm x (80-250)mm
- (LxWxH)355mm x 320mm x 563mm
- 2.8mm, 7mm, 10mm,
- 50mm, 6kg, $10^6 \Omega$
- 50 pieces of PCB plates can be stored in the largest size
- Specification of PCB: Max, length:330mm
- Width:80-250mm adjustable yange of side plate
- Contour size:(LxWxH)355mm x 315mm x580mm
- Effective size:(LxWxH)330mm x (80-250)mm adjustable x Height 570mm
- Directive Ditch of side plat: pepth:2.8mm width:7mm
- Pitch:10mm Directive depth:50mm
- Weight: 6kg surface Resistance: below $10^6 \Omega$

SMT

SMT CONDUCTIVE MAGAZINE RACK

- PCB 50
- PCB: 350mm x (50-250)mm
- (LxWxH)355mm x 320mm x 563mm
- $10^6 \Omega$
- 50 pcs of PCB plates can be stored in the largest specification of used PCB
- Plates:350mm x(50-250)mm
- Contour size:(LxWxH)355mm x 320mm x 563mm
- It's used in gear and cach structure to change distance
- Surface Resistance: below $10^6 \Omega$



036.002.003.00.00011
Chain type



036.002.003.00.00004

SMT

SMT CONDUCTIVE MAGAZINE RACK

- PCB 50
- PCB: 525 x (50-400)mm
- (LxWxH)535mm x 460mm x 570mm
- $10^6 \Omega$
- 50pcs of PCB plates can be stored
- The largest secification of used PCB plates:
525mm x (50-400)mm
- Contour Size:(LxWxH)535mm x 460mm x 570mm
- Surface Resistance: below $10^6 \Omega$



036.002.003.00.00005

- TDK
- (LxWxH)400mm x 460mm x 565mm
- PCB: 450 x (150 x 400)mm
- $10^6 \Omega$
- Use in TDK inserter
- Contour Size:(LxWxH)400mm x 460mm x 565mm
- The largest secification of used PCB plates:
450mm x (150 x 400)mm
- Size of PCB: Max, 450 x 330mmMin 150 x 100mm
- Surface Resistance:below: $10^6 \Omega$



036.002.003.00.00006

- PCB 50
- 120°C
- 400 x (70-330)mm
- (LxWxH)460mm x 400mm x 563mm
- 50pcs of PCB plates can be stored
- High temperature available:120°C
- The largest specification of used PCB plates:400mm x (70-330)mm
- Contour Size:(LxWxH)450mm x 400mm x 565mm

CONDUCTIVE CONTAINER CONVEYING CART

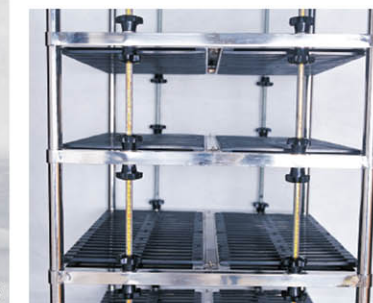
- Surface resistance : $10^6 \Omega$ below
- Any specification can be ordered
- 385x675mm , 365x655mm
Size: external dimensions:385x675mm , internal dimensions:365x655mm
- SMT HB-BOX6001/6002
Can store two lines of SMT up and down collecting rack
- Four corner angles can be made of stainless steel or be wrapped by conductive molded plastic; wheels for all directions made of conductive rubber



PCB

CONDUCTIVE PCB CONVEYING CART

- Surface resistance : $10^6 \Omega$ (below)
- Keep in 200, 400 pieces of PCB Plate



- 720*730*1650MM
- 720*615*1650MM

- 1100*650*1400MM

CONDUCTIVE CIRCULATION RACK

- Contour Size:
(LxWxH)457mm x 190mm x 546mm
- 100 pieces of PCB plates can be stored



CONDUCTIVE CIRCULATION RACK

- Contour Size:
L175mm x W50-350mm(Adjustable) x H355mm
- 50 pieces of PCB plates can be stored



- 850*450*1300mm
- 850*550*1300mm
- 850*630*1300mm

- 800*410*1300mm



- 850*450*1300mm
- 850*550*1300mm
- 850*630*1300mm



- 850*500*1300mm

SUPER-CLEAN UNROLL FINGER STALLS



007.001.002.02.00004

ANTISTATIC FINGER COTS

- It has been treated with chlorination to achieve power-free level
- Surface resistance: $\leq 10E10\Omega$
- Size: L, M, S available



007.001.001.18.00009

007.001.001.02.00010



007.001.001.10.00002

SLIP-PROOF FINGER STALLS



007.001.001.17.00002



007.001.004.01.00001

POWDER-FREE FINGER COTS



007.001.001.01.00004

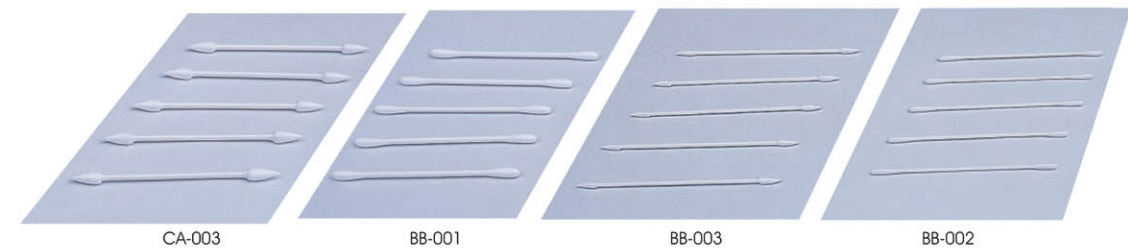
CLEAN COTTON SWABS



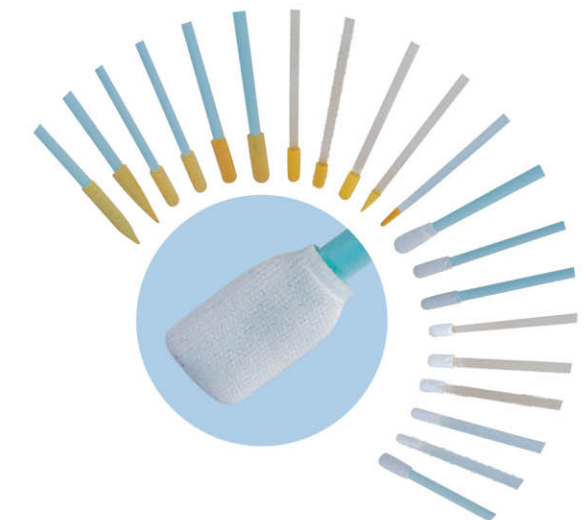
023.003.001.01.00005



• 100 pieces/bag



CLEANROOM SWABS



- Part of foam-tip swab models as below, pls contact with our related sales to get more product specification details.

P/N	MODLE
023.001.001.10.00001	920
023.001.002.01.00001	721A
023.001.002.10.00001	610
023.001.002.21.00001	741
023.001.002.21.00002	722
023.001.002.21.00003	706
023.001.002.21.00004	742
023.001.002.21.00005	750
023.001.002.21.00006	707H/707B
023.001.002.21.00009	708H/708B
023.001.002.21.00012	721
023.001.002.21.00013	740
023.001.002.21.00014	751
023.001.002.21.00015	757
023.001.002.21.00016	721B
023.001.002.22.00001	742B
023.001.002.22.00002	1702

- Part of fabric-tip swab models as below, pls contact with our related sales to get more product specification details.

P/N	MODLE
023.002.002.01.00010	743
023.002.002.20.00001	765
023.002.002.21.00001	714A
023.002.002.21.00002	707
023.002.002.21.00004	714B
023.002.002.21.00007	723
023.002.002.21.00008	758
023.002.002.21.00009	758
023.002.002.21.00011	759
023.002.002.21.00012	761

CLEANROOM NOTEBOOK

- Clean room material made of the 100% wood pulp, Through out three times coated crafts ,Assure the clean room paper keep well all the time.
- Suitable for Class 100.
- Binding with the special clean room paper, Control the dust produce
- Also increase the ink absorption. And reduce the binding dust together.
- As the copy of the notes.. All the material is safety. Also pass the ROHS.



- SPEC:
A4 Notebook 20 sheets Staple 72g/sq.m
A4 Notebook 50 PVC spiral 72g/sq.m
A5 Notebook 20 sheets Staple 72g/sq.m
A5 Notebook 50 PVC spiral 72g/sq.m
- A variety of sizes and colors available



022.001.002.01.00002

CLEANROOM PAPER

- Special fibre structure to reduce dust particle effectively
- Enhancement of ink absorption when printing and copying
- Multiple sizes available
- Application: writing and copying in clean room

Specification

1. PHYSICAL PROPERTIES

Performance characteristics	SPEC	Results(for 72g/SQM)	Remarks
Size(mm)	+/-0.5	Passed	Rule
Weight(g/sqm)	72 +/-3	71.5	Cas,balance
Thickness(um)	90 +/-5	88	Peacock
Smoothness	60 +/-20	70	KSM7028,Bekk
Tensile strength	Less3	Passed	HP desk jet950C Portor
	Less150	6.3	Achromatisch
Moisture	6.5 +/-1	6.5	KSM,Brainweigh MB301
Opacity(%)	Above 75	78	KSM,GE

2. IC TEST

Unit:ug/cm2

Ion	F	CL	NO2	Br	NO3	PO4	SO4	Anion total
Spec	0.1	0.3	0.1	0.1	0.3	0.1	0.3	1.0
Result	ND	0.03	0.001	ND	<0.01	ND	0.01	0.08

3. ESD TEST

Test Item	Sample			Spec
	#1	#2	#3	
Electrostatic charge voltage(v)	4	3.8	5.1	≅5
Triboelectric charge voltage(v)	39	41	33	≅50
Surface resistivity(ohm/sq)	8.7E10	7.6E10	6.0E10	E4E11
Decay time(s)	2.5	2.2	1.5	≅3.0

4. Particle test

Particle(ea/cfm)/0.3~1mic.m	Spec	Results	Test method
Rubbing		27	SEMI G67-0996
Crumpling		51	SEMI G67-0996
Tearing		128	SEMI G67-0996



CLEANROOM PEN

- Suitable for cleanroom, novelty design pen
- Permanent with ease
- Fade and water resistant
- Quick-drying ink
- Innocuity
- Assorted colors, size to make your marking unique



026.003.000.09.00001



026.003.000.04.00001

ANTISTATIC STATIONERIES

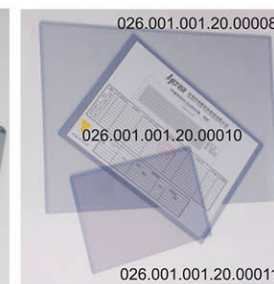
- $10^9 \Omega$ Surface Resistance: $10^9 \Omega$
- Suitable for both cleanroom and EPA area



026.005.000.10.00012



006.004.001.20.00005



026.001.001.20.00008

026.001.001.20.00010

026.001.001.20.00011

ID CARD HOLDERS

- PVC, 0.25mm
- Made of washable, permanently static dissipative PVC,
- 0.25mm thick
- Holds credit card sized passes
- Clips supplied separately
- Available in landscape or portrait orientation
- Supplied in bags of 10
- Note: Other sizes made to order



026.001.002.20.00002

026.001.002.20.00001

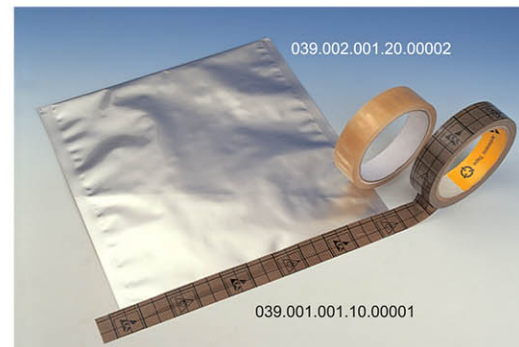
ANTISTATIC PAPER/FILE BAG

- Spec: A3, A4
- Thickness: 0.4-0.5mm
- Material: PVC Transparent PVC
- Resistance: $10^{6-9} \Omega$



EPA WARNING TAPE

- Does not generate electrostatic charge
- Suitable for use in an EPA
- Printed yellow with black logo and text to EN 61340-5
- Paper tape with water-based acrylic adhesive



- Surface resistance: $10^7 \sim 10^8 \Omega$
- Optional width available
- Antistatic tape Color: transparent, net, poppy
- Tape enduring high temperature color: coffee

**ANTISTATIC/ANTI-STATIC
HEAT-PROOF TAPE**

CONDUCTIVE PP STRAP

- Used to bundle IC shipping trays, e.g. Prior to oven-baking
- Made of coated. Black polypropylene
- Resistivity: $10e4 \sim 10e6 \text{ ohm/sq}$
- Size(± 5%): $T0.6\text{mm} \times W9\text{mm} \times L1200\text{m}$, $T0.6\text{mm} \times W12\text{mm} \times L1500\text{m}$
- Heat resistant: shrinkage @ 150°C for 24h:4%
- Supplied on a roll for use in electric strapping machine core diameter 200mm, width 190mm, weight approx 5kg



EPA EPA WARNING SIGN (FOR HANGING)



041.005.000.02.00001

ANTISTATIC LABEL



- Spec & content customize available
- Self-adhesive type: Printing on the yellow paper

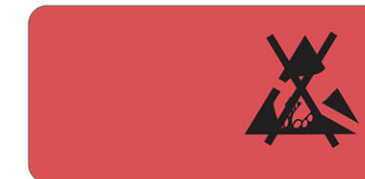
FOOTWEAR SIGN



041.005.000.03.00001

- A reminder to employees to remove conductive footwear on leaving the EPA or the changing room.

EPA EXIT SIGN



041.005.000.05.00001

EPA

EPA RETRACTABLE BELT BARRIER



P/N:
038.004.000.10.00010 (Retractable Belt Barrier Post)
038.004.000.10.00012 (A4 Sign Holder)

FEATURE:

The retractable belt barrier is designed for delimiting an EPA easily and safely. The belts are printed on both sides in yellow belts so the indication of EPA can be seen obviously.

Comparing to the ESD Floor Marking Tape, it would be:

- Setting up a quick and effective barrier of EPAs
- Durable to save the replacement cost and reduce pollution to environment
- Removable and resetting the EPAs anywhere
- Warning the visitors not to across the EPAs freely

SPECIFICATIONS:

- #201 polished stainless steel
- conductive rubber base plate, Resistance: $< 10E9$
- Weight: 9.6kg





010.001.001.04.00001



010.001.001.01.00001

010.001.001.09.00001

010.001.001.04.00016

STICKY MAT

- Thin sticky sheet, specially treated
- Digital label on edge helping identification and use
- Economical and practical
- Multiple sizes available
- Applicable to personnel in clean room and inlet for material

Technical Spec:

size	18" *36" /18" *45" /24" *36" /26" *45"
material	LDPE
color	blue/white/grey/transparent/green/black
viscosity	low/middle/high
thickness	0.035mm/0.04mm/0.045mm/0.05mm
film	30 , 60, 30 films/mat; 60 films/mat
package	8, 10, 8mats/ctn; 10mats/ctn

Dycem MAT



Dycem mat is the washable polymeric contamination control mat which is high efficient, economic and also can be recycled at the end of its lifecycle. It has been widely used in microelectronic manufactories, pharmaceutical laboratories, food manufactories, hospitals, and other critical areas. The maximum load-bearing is up to 2.5 tons for the heavy wheeled traffic areas. It was proven that Dycem mat prevent over 99% of all viable and non-viable foot and wheel borne contamination from entering a critical area.



STICKY ROLLER



010.001.002.01.00001

010.001.002.01.00002

010.001.002.01.00003

010.001.002.01.00004

Easy-to-use vacuum sucker eliminates quickly any dirt on floor, ceiling, wall, desktop and any other surfaces. It consists of a roller and a handle similar to that used for whitewashing walls. The roller contains sticky sheet which can be torn off. Roll the roller over dirty surface to be cleaned. Tear off the dirty sheet on the roller when it can't stick dirt.

Technical Spec:

size	4" /6" /8" /10" /12" /16"
inner/outside diameter	38.5mm/53.5mm
material	blue/white/transparent
color	low/middle/high
viscosity	100 100film/roll
film	18-20M/ 18-20M/roll
length	4":200 ,6"/8":100 , 10"/12":50
package	4":200 roll/ctn, 6"/8": 100 roll/ctn, 10"/12":50 roll/ctn

WASHABLE STICKY ROLLER

- Applicable to PCB, stainless steel plate, film for dusting.
- COLOR: BLUE
- SIZE:1" , 2" , 6" , 8" , 10" , 12"



010.002.002.04.00015

010.002.002.04.00013

010.002.002.04.00011

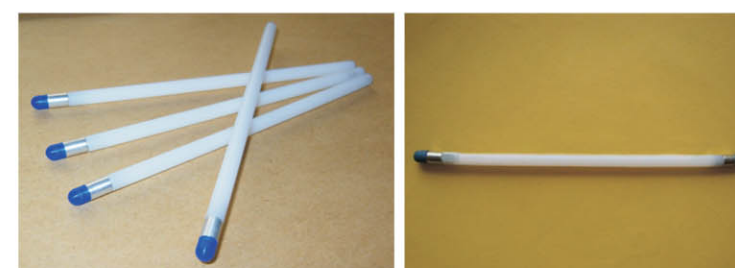
STICKY PAD

- 50, 10, 50 pieces/pad 10pads/box
- specification:240 x 340 mm
- color: white



010.003.001.01.00003

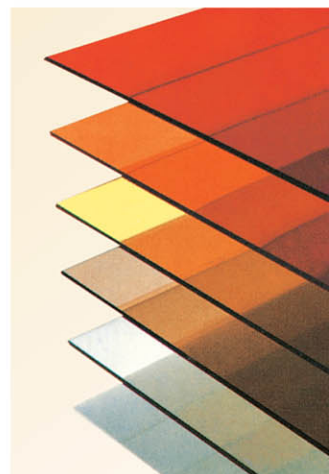
STICKY PEN



010.005.001.01.00001

010.005.001.01.00002

- Pen length: 13MM, silicone length: 8MM, diameter:5MM.
- Pen body :ABS plastic .
- Five type optional:higher, high, medium and low adhesive ability and non-sticky,
- Regularly use high sticky.Other required customize.

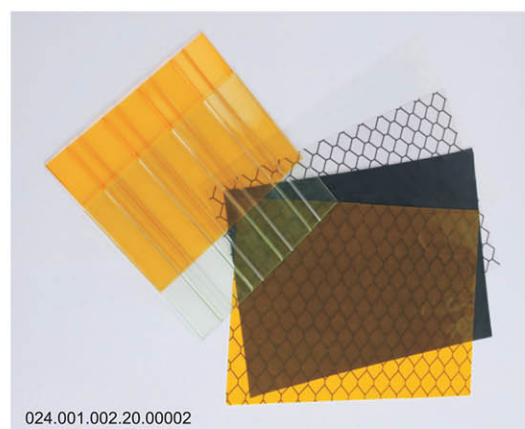


ANTISTATIC ACRYLICS

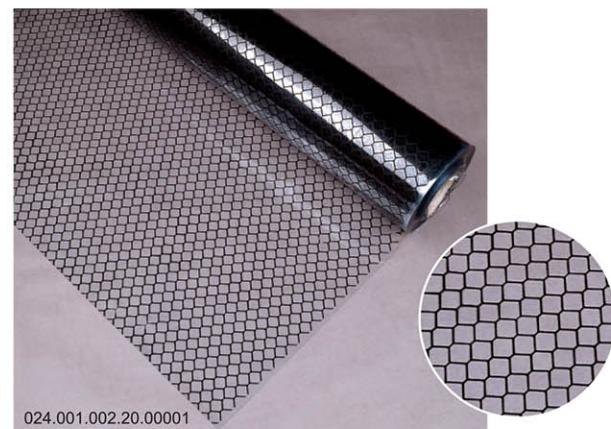
Antistatic plate can be used in semiconductor industry, electronics, and electrical, medical, precision machinery and biotechnology fields. Nd7 is especially suitable for clean rooms and etc. That require antistatic characteristics.

- Superb antistatic dissipative function: $10^8 \sim 10^9 \Omega/m^2$
- Long-term persistence of initial characteristics
- Virtually unaffected by humidity variations
- Excellent chemical resistance
- Size: L2m x W1m, depth: 2mm, 3mm, 5mm, 6mm
- Color: transparent, yellow translucent, or other colors can be ordered

029.001.001.02.00001



024.001.002.20.00002



024.001.002.20.00001

ANTISTATIC CURTAIN/ PORTIERE

SPECIFICATION

	Anti-Static PVC Grid/0.3mm(T)X1,370mm(W)		
	Surface	Black	Test Method
Surface Resistivity	$10^8 \sim 10^9 \Omega/Sq.m$	$10^{11} \sim 10^{12} \Omega/Sq.m$	ASTM D-257
Electrostatic voltage	50 V ↓	100 V ↓	Electro Static Field Meter
Electrostatic Decay	0.5 sec ↓	0.5 sec ↓	MIL-B-81705C, 5000V→500V
Flame Retardant	PASS		JIS A-1322
Tensile Strength	Length/MD	1.8kg/mm ²	ASTM D-822
	Width/TD	1.8kg/mm ²	
100% Modulus 100%	Length/MD	1.1kg/mm ²	ASTM D-822
	Width/TD	1.8kg/mm ²	
Elongation	Length/MD	170%	ASTM D-822
	Width/TD	210%	
Heat Shrinkage	60cx30min in H ₂ O		1% ↓
Size	Thickness		0.3\0.5\1.0\2.0mm
	Width		1.370mm
	Roll		30m/roll

- Optional colors: transparent, transparent net, black net, black, anti-ultraviolet radiation grid

ANTI-HUMIDITY/NITROGEN CABINET CLASSIC DIGITAL DISPLAY SERIES



031.002.002.12.00001 031.002.002.12.00002 031.002.002.12.00003 031.002.002.12.00004 031.002.002.12.00005

ANTI-HUMIDITY/NITROGEN CABINET METAL TOUGHENED GLASS DOOR SERIES



031.002.002.09.00001 031.002.002.09.00003 031.002.002.12.00006 031.002.002.12.00007

TRANSPARENT
PROPYLENE SERIES

- Use the transparent series, More easy to find which part in it. Also we can protect the goods well.
- Flame use Aluminum material, PC plastic connect part, toughened glass for the body.
- Light weight easy to move
- Digital date humidity meter built-in, Stainless steel plate, antistatic available.
- Transparent design , Easy to manage all the storage parts.
- quick to dehumiaity control. Can reach to 15%-20%RH.



031.002.002.20.00001 031.002.002.20.00002 031.002.002.20.00003 031.002.002.20.00004

Type	031.002.002.20.00004	031.002.002.20.00003	031.002.002.20.00002	031.002.002.20.00001
External Size	W426XD384XH848	W574XD517XH768	W574XD517XH1770	W1152XD517XH1770
Inner size	W418XD354XH840	W566XD487XH742	W566XD487XH1480	W1144XD487XH1480
cubage	120L	220L	400L	820L
Weight	20KG	23KG	48KG	92KG
Layer	3(glassplates)	2(stainless steel plates)	5(stainless steel plates)	10(stainless steel plates)
Max power	44W	76W	152W	202W
rated power	3.5W/H	5.5W/H	11W/H	15.6W/H

- customize available.

PRECISION ANTI-HUMIDITY SERIES



031.002.002.01.00001 031.002.001.01.00002 031.002.002.01.00004

Features:

- Newly developed dehumidification unit, it can the humidity of 20%RH in 2 hours. And the lowest to 3-5RH.
- Even no power,it can keep dehumidifying for 24 hours with the humidity increase of below 10%RH.
- With the fored circulation dehumidification unit,it accelerate the speed of dehumidification,So it is proper to take or put something (for example: SMT IC,MSD objects)
- There is a button which could forced dehumidifying in the control panel. After taking out or putting in something with the humidity increased, you could put the button that the humidity will decrease to the required value.
- It could operate for a long time with normal temperature,low voice and non-vibration.
- With the design of Puched medal plates that the space between them could be adjusted,the air in the shelf will circulate more faster. Can bear the weight fill 100KG/PCS
- ESD type is the special.You can choose for some semi-conductor part.
 - 1: The body use special conductive paint. The surface resistance:10E6-9ohm.
 - 2: The unit add the 1Mohm grounding resistance .
 - 3: All the plate are stainless steel.

Customize Series:

- Many kinds of the customize available like below

Type	External Size	Inner size	Cubage	Weight	Layer	Max power	rated power
031.002.001.01.00002	W1209XD660XH1860	W1174XD633XH1695	1258L	176kg	5	404W	31.2(w/h)
031.002.002.01.00001	W604XD660XH1860	W569XD633XH1695	600L	118kg	5	202W	15.6(w/h)
031.002.002.01.00005	W604XD660XH1002	W569XD633XH837	300L	72kg	5	202W	15.6(w/h)
031.002.002.01.00004	W604XD660XH1290	W569XD633XH1125	400L	83kg	5	202W	15.6(w/h)

- 50/60HZ) ESD type use stainless steel plywood(rated voltage:AC220V 50/60HZ)



028.001.002.00.00001

防静电不锈钢货架
ANTISTATIC STAINLESS STEEL SHELF



028.001.003.00.00001

防静电不锈钢推车
ANTISTATIC STAINLESS STEEL CART



028.002.003.00.00018

防静电镀铬推车
ANTISTATIC CHROME PLATED STEEL CART



028.001.004.00.00001

不锈钢储物箱
STAINLESS STEEL STORAGE BOXES

■ 订购详情 Ordering information

Code 产品编号	Product Name 产品名称	Size 尺寸	Description 说明
028.002.003.00.00009	防静电二层镀铬手推车	L600xW900xH900MM	含3" 普轮
028.002.003.00.00010	防静电二层镀铬手推车	L600xW450xH900MM	一个导电轮, 2个刹车轮, 一只普轮, 均为4", 宽边有把手, 配线网
028.002.003.00.00011	二层不锈钢电视机手推车	L800xW500xH200MM	双层线网
028.001.003.00.00008	防静电二层不锈钢孔板手推车	L600xW900xH900MM	含2个导电轮, 2个刹车轮, 板厚: 标1.0MM, 孔径5MM
028.001.003.00.00009	防静电二层不锈钢手推车	L1000xW500xH900MM	不含轮高, 配4个普轮, 孔板为1.0MM, 孔位为: 0.4-0.5MM
028.001.003.00.00010	防静电三层不锈钢手推车	L900xW550xH750MM	材料选用1.2mm不锈钢板, 16x32x1.0不锈钢扁通及加强筋, 配4" 恒昌导电轮, 不锈钢导电夹片
028.001.003.00.00011	防静电三层不锈钢手推车	L900xW550xH940MM	材料选用1.2mm不锈钢板, 16x32x1.0不锈钢扁通及加强筋, 配4" 恒昌导电轮, 不锈钢导电夹片, 含U型手柄2个(不含轮高190MM)
028.002.003.00.00016	防静电三层镀铬手推车	L750xW600xH700MM	配4个3" 导电轮, 可设10MM高护栏, 配线网, 无扶手
028.002.003.00.00017	防静电三层镀铬手推车	L530xW600xH700MM	配4个3" 导电轮, 每层隔板边缘设10MM高护栏, 配线网, 无扶手
028.002.003.00.00018	防静电四层镀铬手推车	L450xW900xH1510MM	含3" 普轮
028.002.003.00.00019	防静电四层镀铬手推车	L450xW1200xH1500MM	含3" 普轮
028.002.003.00.00020	防静电四层不锈钢手推车	L600xW900xH1000MM	4个5" 防静电轮, 2个平板定向轮, 2个平板带刹车万向轮, 第二层一端配不锈钢手推把手及2条不锈钢拖地链
028.002.003.00.00021	防静电五层镀铬手推车	L1200xW530xH1610MM	配4" 普轮
028.002.002.00.00009	防静电四层镀铬货架	L530xW1370xH1250MM	配4个塑料脚垫; 每层隔板边缘设10MM高护栏, 配线网
028.002.002.00.00010	防静电五层镀铬货架	L1800xW600xH1800MM	含4个5" 轮
028.002.002.00.00011	防静电五层镀铬货架	L400xW1100xH2100MM	不含轮子
028.002.002.00.00012	防静电五层镀铬货架	L2000xW600xH1800MM	不含轮子
028.002.003.00.00026	防静电六层镀铬货架	L450xW1200xH1500MM	含4" 普轮
028.002.003.00.00027	防静电六层不锈钢货架	L450xW1200xH1500MM	含4" 普轮

● 除以上规格外, 均可按客户要求制作不同规格 Custom specification available



028.002.002.00.00001

防静电镀铬货架
ANTISTATIC CHROME PLATED SHELF



028.001.003.00.00002

不锈钢活动手推车
STAINLESS STEEL CART



028.001.003.00.00003

平板型双层手推车
TWO-LAYER CART



028.001.003.00.00004

清洗类周转车
CIRCULATION CART



双层不锈钢工作台
TWO-LAYER WORKING BENCH



不锈钢工作台
WORK-PLATFORM (BENCH)

● 可按客户要求制作不同规格 Custom specification available



030.001.001.00.00001

AUTO AIR SHOWER

Air shower pass box is ideal accessory equipment for biological clean room (BCR) and industrial clean room (ICR). It not only removes dust on person or article to keep it from being brought into the clean room, but prevents outside dirty airflow from entering as well. It helps make the clean room secure and clean.



030.001.002.00.00001

AIR SHOWER PASS BOX

Air shower pass box features gate and lock that prevent convection of inside and outside airflows better than traditional pass box. All materials are treated with air shower to remove any dust and kill any bacteria before entering clean room.

Features:

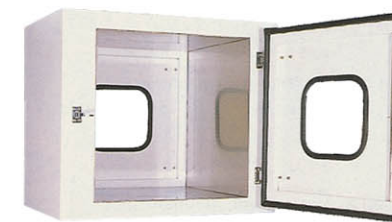
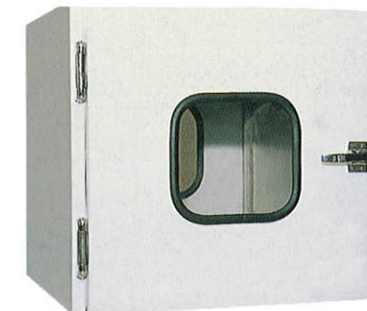
- An efficient filter without division plate is used to reduce resistance to Airflow and noise.
- A low-noise adjustable blower is used to keep the pass box under perfect conditions, Ensuring the clean room under control.

Ordering information

Code	Product Name	Size L x W x Hmmm	Description
030.001.001.00.00001	Single Air shower	Exterior size: L1290*W1000*H2050MM Shower size: 790*860*1885MM	1.Shower case and inner wall material: 1.1mm thickness cold rolled-plate with plastic coating (dull white). 2. Moveable bottom plate: 0.4mm 201# stainless steel sheet. 3. Stainless steel air nozzle and stainless steel single open door (Door frame: 0.9mm #304 stainless steel;door-sealing: 0.55mm #304 stainless steel; Core board of door: 40x60mm, 0.95mm #201 stainless
030.001.001.00.00002	Single Double Air shower	Exterior size: L1240*W1000*H2180MM Shower size: 790*860*1885MM	1.Shower case and inner wall material: 1.1mm thickness cold rolled-plate with plastic coating (dull white). 2. Moveable bottom plate: 0.4mm 201# stainless steel sheet. 3. Stainless steel air nozzle and stainless steel single open door (Door frame: 0.9mm #304 stainless steel;door-sealing: 0.55mm #304 stainless steel; Core board of door: 40x60mm, 0.95mm #201 stainless
030.001.001.00.00003	Single Double Air shower	Exterior size: L1590*W1000*H2050MM Shower size: 790*860*1885MM	1.Shower case and inner wall material: 1.1mm thickness cold rolled-plate with plastic coating (dull white). 2. Moveable bottom plate: 0.4mm 201# stainless steel sheet. 3. Stainless steel air nozzle and stainless steel single open door (Door frame: 0.9mm #304 stainless steel;door-sealing: 0.55mm #304 stainless steel; Core board of door: 40x60mm, 0.95mm #201 stainless
030.001.001.00.00004	Double Single Air shower	Exterior size: L1290*W2000*H2050MM Shower size: 790*1860*1885MM	1.Shower case and inner wall material: 1.1mm thickness cold rolled-plate with plastic coating (dull white). 2. Moveable bottom plate: 0.4mm 201# stainless steel sheet. 3. Stainless steel air nozzle and stainless steel single open door (Door frame: 0.9mm #304 stainless steel;door-sealing: 0.55mm #304 stainless steel; Core board of door: 40x60mm, 0.95mm #201 stainless
030.001.001.00.00005	Double air shower	Exterior size: W1240*L2000*H2180MM Shower size: 790*1860*1885MM	1.Shower case and inner wall material: 1.1mm thickness cold rolled-plate with plastic coating (dull white). 2. Moveable bottom plate: 0.4mm 201# stainless steel sheet. 3. Stainless steel air nozzle and stainless steel single open door (Door frame: 0.9mm #304 stainless steel;door-sealing: 0.55mm #304 stainless steel; Core board of door: 40x60mm, 0.95mm #201 stainless
030.001.001.00.00006	Double air shower	Exterior size: L1590*W2000*H2050MM Shower size: 790*1860*1885MM	1.Shower case and inner wall material: 1.1mm thickness cold rolled-plate with plastic coating (dull white). 2. Moveable bottom plate: 0.4mm 201# stainless steel sheet. 3. Stainless steel air nozzle and stainless steel single open door (Door frame: 0.9mm #304 stainless steel;door-sealing: 0.55mm #304 stainless steel; Core board of door: 40x60mm, 0.95mm #201 stainless steel bar).
030.001.001.00.00007	Goods Air shower	Exterior size: L2300*W2000*H2050MM Shower size: 1500*1860*1980MM	1.Shower case and inner wall material: 1.1mm thickness cold rolled-plate with plastic coating (dull white). 2. No bottom plate: 0.4mm 201# stainless steel sheet. 3. Stainless steel air nozzle and stainless steel single open door (Door frame: 0.9mm #304 stainless steel;Door-sealing: 0.55mm #304 stainless steel; Core board of door: 40x60mm, 0.95mm #201 stainless steel bar).
030.001.001.00.00008	Goods Air shower	Exterior size: L2000*W2000*H2050MM Shower size: 1200*1860*1980MM	1.Shower case and inner wall material: 1.1mm thickness cold rolled-plate with plastic coating (dull white). 2. No bottom plate: 0.4mm 201# stainless steel sheet. 3. Stainless steel air nozzle and stainless steel single open door (Door frame: 0.9mm #304 stainless steel;Door-sealing: 0.55mm #304 stainless steel; Core board of door: 40x60mm, 0.95mm #201 stainless steel bar).

• Custom specification available

MECHANICAL (ELECTROMAGNETISM) INTERLOCK/AIR SHOWER TYPE PASS BOXES



030.001.002.00.00002

This is accessory equipment for clean room which facilitates small articles passed between clean areas or between clean and unclean areas to decrease times of door opening and minimize contamination in the clean room.

Features:

- Inside is made of smooth stainless steel, while outside of quality steel treated with electrostatic spray coating.
- Mechanical or electronic interlock ensures two doors can't open at the same time.
- Indicator light turns on when another door on the back side is opened.
- Sealing strips are used to ensure air tightness.

Optional accessories:

- Inside light or ultraviolet light for sterilization
- Audible and visual alarm system
- Full stainless steel pass box

Ordering information

Code	Size L x W x Hmmm
030.001.002.00.00002	780 x 600 x 690 600 x 600 x 600
030.001.002.00.00003	780 x 600 x 690 600 x 600 x 600
030.001.002.00.00001	1185 x 1000 x 1045 1000 x 1000 x 1000
030.001.002.00.00004	980 x 700 x 1800 600 x 700 x 600



SALM-1801D-I

3.019.01.001

BFN GROUNDING SYSTEM LINE MONITOR

- Compact, easy-to-install, easy-to-use
- Working after switching on
- Automatic alarm function
- Simultaneous monitor of one or two wrist straps
- Manual switch or automatic switch available
- Operating Environments: temperature 0°C~50°C, relative humidity 20%~85%
- Operating Voltage: DC6V(SALM1801S/D- I); AC12V(SALM1801S/D- II)
- Response Time: <20mS
- Colour: off white (SALM1801S/D- I); orange (SALM1801S/D- II)
- Material: Aluminium plate
- Dimension: W40mmxH21mmxD92mm(SALM1801S- I / II) W62mmxH21mmxD120mm(SALM1801D- I / II)
- Net weight: 63g ± 10g(SALM1801S- I / II) 104g ± 10g(SALM1801D- I / II)



SALM-1801D-II

3.019.01.002



3.019.01.071

BFN-NGM-I GROUNDING REAL-TIME MONITOR

- Working Environment: temperature 0~50°C Relative Humidity : 20%~85%RH
- Working Voltage: AC/DC 9 ~ 12V
- Range of Warning : 0-50Ω is settable
- Color: colorless
- Material: Iron
- External Size: W84mm × D94mm × H22.5mm
- Resistance Accuracy: ± 1 Ω



3.019.01.016

BFN-SALM1801S-III NET CONTINUOUS MONITOR

- Working environment: Temperature 0~50°C, relative humidity 20%~85% RH
- Working voltage: AC/DC 9 ~ 12V
- Working current: >500 mA
- Wrist strap alarm resistance: 5M ± 20%
- 200M ± 20%(1-200M可出厂设定)
- Mat alarm resistance: 200M ± 20%(option 1-200M)
- Color: no
- Material: stainless steel (mirror/wire drawing)
- Dimension: W57mm × D128.5mm × H23mm



3.001.01.039

CALIBRATION UNIT

SALM1800 calibration instrument is a simplified monitor of calibrating wrist strap on-line monitor. It can make user quickly and easily verify whether wrist strap line monitor is working as requested. SALM1800 is a piece of passive equipment, and in the meantime, it doesn't need power supply.



3.019.01.004

SALM1801D-IV NET CONTINUOUS MONITOR

- Working environment: Temperature 0~50°C, Relative humidity 20%~85% RH
- Working voltage: AC/DC 9 ~ 12V
- Wrist strap alarm resistance: 35M ± 20%(can be adjustable in 0~100M)
- Mat alarm resistance: : 200 M ± 20%
- Color : stainless steel mirror
- Material: stainless steel (mirror/wire drawing)
- Dimension: W57mm × D128.5mm × H23mm



BFN-TW1018-II PERSONAL TESTER

3.008.01.002 CE

- Working condition: Temperature 0~50°C, RH20%~85%, in-house use.
- Power: DC 9V
- Power alarm: LCD will light when battery voltage <6.5V
- Test time: <1 Secretary
- Test accumulate: ±10%
- Test Range:
 - Wrist strap:
 - <750KΩ (7.5×10E5Ω) (Low) ;
 - 750KΩ (7.5×10E5Ω)~10MΩ (1×10E7Ω)(Pass)
 - 10MΩ (1×10E7Ω)~ 35MΩ (3.5×10E7Ω) (Pass)
 - >35MΩ (3.5×10E7Ω) (High)
 - Footwear:
 - <100KΩ (1×10E5Ω) (Low) ;
 - 100KΩ (1×10E5Ω)~10MΩ (1×10E7Ω)(Pass)
 - 10MΩ (1×10E7Ω)~ 35MΩ (3.5×10E7Ω) (Pass)
 - >35MΩ (3.5×10E7Ω) (High)
- Color: black
- Material: ABS plastic
- Dimension: D117mm × W97mm × H33mm
- Weight: 265g (checker, not include battery)



BFN-TW1018-III/IV PERSONAL ESD SYSTEM TESTER

P/N:
TW1018-III-IC:3.001.01.225
TW1018-III-ID:3.001.01.207
TW1018-IV-IC:3.001.01.206
TW1018-IV-ID:3.001.01.226

- Work environment: Temperature 0-50°C, RH20%-85%
- Working voltage: DC9-12V
- Working current: <500mA
- Test time: <1 SEC
- Test Range:
 - Left shoe: 750KΩ -100MΩ
 - Right shoe: 750KΩ -100MΩ
 - For wrist strap: 750KΩ -10MΩ
- Test accumulate: ± 10-20%
- Color: Grey
- Material: ABS plastic
- Dimension: W165mm*L97mm*H40mm
- Foot plate and size: stainless steel.W460mm*L460*H450mm
- Stand height: 1.15M
- Gross weight: 323g (body) , 2.5Kg(stand) , 4.5Kg(plate)



BFN-TE1018 STATIC-CHECK METER

- The product have low battery reminding function.
- The product can uses two type of power,battery and electrical source
- 0 ~ 50°C, 20%~85%RH,
Working condition: Temperature 0 ~ 50°C, RH20%~85%, in-house use.
- Power: DC 9V
- <6.5V "LOBAT"
- Power alarm: LCD will show "LOBAT" when battery voltage <6.5V
- Test range: +/-1 ~ 19990V
- Test accumulate: ± 5%
- Color: black
- Material: ABS plastic
- Dimension: W90mm × H34mm × 150mm
- Weight: 210g (checker, not include battery)

3.011.01.062

CE

BFN-TE1003 ELECTROSTATIC FIELD METER

- Static voltage: 0- ± 1.49KV(min), ± 1.0KV- ± 22KV(max)
- Balance: 0- ± 220V
- Testing distance: 25mm ± 0.5mm (distance between the tested items and LED)
- Reaction time: Less than 5 time/second with data updating
- Accuracy: ± 10%
- Battery: 9V
- Weight: 138g(exclude the battery)
- Size: L123*W73*H25mm
- Material: Antistatic ABS plastic
- Color: Gray



3.011.02.003

BFN-TR1800 MEGOHM METER



- Resistivity: 10E3-10E12ohms
- Resistance: 10E3-10E12ohms
- Relative Humidity: 10%-90%RH
- Temperature: 0-37.7°C
- Measuring voltage: 10V-100V
- Tester size: L190*W100*H40mm

3.011.01.001

BFN-TR1380 SURFACE RESISTANCE METER



- Battery: 9V
- Resistivity: 10E3-10E12ohms/sq
- Resistance: 10E3-10E12ohms
- Measuring: 10V and 100V
- Size: L132*W75*H35mm
- Wight: 110g(exclude the battery)
- Material: ABS plastic
- Color: Black

3.011.01.002

BFN-TR1801 MEGOHM METER



- Weight: 243g
- Length of the connecting cable not less than 1500mm
- Dimensions and material of a metal plate for testing electrodes 150*65*0.5 mm, steel
- Test voltage up to 116V
- Measuring accuracy of surface resistance ± 3% and 100V
- Measuring rangen 10V-10E3.....10E6Ω
- Measuring rangen 100V-10E4....10E11Ω
- Standard power supply batteries: «Krona» , 9V and «AAA» ,1.5V

3.006.01.001

MINI DC IONIZING BLOWER



3.003.01.007

3.003.01.001

Automatic alarm function and net function

CE patent of invention ,all rights reserved

DESKTOP DC IONIZING BLOWER

Item	BFN-700		BFN-701
	Static-eliminating fan BFN-700F	Static-generating controller BFN-700C	
Ion-generating mode	Corona Discharge Mode		Corona Discharge Mode
Ion output voltage	At the highest: $\pm 4500V$		At the highest: $\pm 4500V$
Ion balance control mode	Manual adjustment		Manual adjustment
Static Decay Time (from $\pm 1000V$ to $\pm 100V$)	$< 1.5S$ ** *		$< 1.5S$ ** *
Ion Balance	$< \pm 10V$		$< 0 - \pm 3V$ ** * In bad environment, it may be close to $\pm 5V$
Rating	Operating Current Consumption	0.015A (Fan fixed at the highest speed)	0.075A(Fan fixed at the highest speed)
	Power Supply	AC 220V $\pm 15\%$ /50Hz or AC 110V $\pm 15\%$ /60Hz	
Maximal air output	85CFM		150/280CFM
Operating Distance	150~600mm		300~900mm
Ozone Concentration	$< 0.002PPM$		$< 0.002PPM$
Noise	18db		35/44db
Environment Durability	Environment Temperature	0°C ~ 50°C	
	Environment Humidity	20%~85%RH	
Weight of Ionizing Blower	220g $\pm 3g$	800g $\pm 5g$	1.5kg
Colour	Off white	argent	Off white + sky blue (plastic)
Dimensions	W85mm x H100mm x D33mm	W106mm x H57mm x D129.9mm	W175mm x H200mm x D75mm

** Measure conditions: at the highest speed, at the centre of air outlet and 300mm away from frontal centre of fan.
Test conditions: 25°C, humidity 55%, (accord with the EOS/ESD S3.1-2006 standard regulations).
★ Test equipment: TREK157



3.003.01.012

LED
LED LIGHTING

OVERHEAD DC IONIZING BLOWER



3.003.01.019

LED
LED LIGHTING

OVERHEAD DC IONIZING BLOWER

Automatic alarm function and net function

CE patent of invention ,all rights reserved

Item	BFN-702	BFN-703
Ion-generating mode	Corona Discharge Type	Corona Discharge Type
Ion output voltage	The highest voltage: $\pm 4500V$	The highest voltage: $\pm 4500V$
Ion balance control mode	Manual Adjustment	Manual Adjustment
Static Decay Time (from $\pm 1000V$ to $\pm 100V$)	$< 2.0S$ ** ** *	$< 2.0S$ ** ** *
Ion Balance	$< \pm 5V$	$< \pm 5V$
Rating	Operating Current Consumption	0.15A (fan fixed at the highest speed)
	Power Supply	AC 220V $\pm 15\%$ /50Hz or AC 110V $\pm 15\%$ /60Hz
Maximal air output	160/280CFM	160/280CFM
Operating Distance	300~1200mm	300~1200mm
Ozone Concentration	$< 0.002PPM$	$< 0.002PPM$
Noise	38db	42db
Environment Durability	Environment Temperature	0°C ~ 50°C
	Environment Humidity	20%~85%RH
Weight of Ionizing Blower	3.0kg	4.0kg
Material	Aluminium Plates	Aluminium Plates
Colour	Off white + sky blue(plastic)	Off white + sky blue(plastic)
Dimensions	W555mmxH85mmxD180mm	W955mmxH85mmxD180mm

** Measure conditions: at the highest speed, at the centre of air outlet and 300mm away from frontal centre of fan.
Test conditions: 25°C, humidity 55%, (accord with the EOS/ESD S3.1-2006 standard regulations).
★ Test equipment: TREK157

DESKTOP AC IONIZING BLOWER



OVERHEAD AC IONIZING BLOWER



OVERHEAD AC IONIZING BLOWER

patent of invention ,all rights reserved

Item	BFN-801	BFN-802	BFN-803
Ion-generating mode	Corona Discharge Mode		
Ion output voltage	At the highest: 4500V,AC		
Ion balance control mode	Self-poise		
Static Decay Time (from ± 1000V to ± 100V)	< 2. 0S ※#★	< 2. 0S ※#★	< 2. 0S ※#★
Ion Balance	< ± 10V	< ± 10V	< ± 10V
Rating	Operating Current Consumption	0.15A (Fan fixed at the highest speed)	0.32A (Fan fixed at the highest speed)
	Power Supply	AC 220V ± 15%/50Hz or AC 110V ± 15%/60Hz	
Maximal air output	200CFM	210CFM	210CFM
Operating Distance	300~900mm	300~1200mm	300~1200mm
Ozone Concentration	< 0.002PPM	< 0.002PPM	< 0.002PPM
Noise	44db	48db	52db
Environment Durability	Environment Temperature	0℃~50℃	0℃~50℃
	Environment Humidity	20%~85%RH	20%~85%RH
Weight of Ionizing Blower	3.75kg	5.8kg	8.3kg
Material	Cold rolled steel plate		
Colour	[O]ff white + sky blue (plastic)		
Dimensions	W220mm×H285mm×D110mm	W585mm×H185mm×D115mm	W985mm×H185mm×D115mm

※ Measure conditions: at the highest speed, at the centre of air outlet and 300mm away from frontal centre of fan.
Test conditions: 25℃, humidity 55%, (accord with the EOS/ESD S3.1-2006 standard regulations).
★ Test equipment:TREK157



patent of invention ,all rights reserved

HORIZONTAL AC IONIZING BLOWER

Item	BFN-8412	
Ion-generating mode	Corona Discharge Mode	
Ion output voltage	At the highest: 4500V,AC	
Ion balance control mode	Self-poise	
Static Decay Time (from ± 1000V to ± 100V)	< 2. 0S ※#	
Ion Balance	< ± 10V	
Rating	Operating Current Consumption	2. 5A (Fan fixed at the highest speed)
	Power Supply	AC 220V ± 15%/50Hz or AC 110V ± 15%/60Hz
Maximal air output	230CFM	
Operating Distance	300~1200mm	
Ozone Concentration	< 0.002PPM	
Noise	46db	
Environment Durability	Environment Temperature	0℃~50℃
	Environment Humidity	20%~85%RH
Weight of Ionizing Blower	6.9kg	
Material	Cold rolled steel plate	
Colour	Off white + sky blue (plastic)	
Dimensions	W500mm×H185mm×D200mm	

※ Measure conditions: at the highest speed, at the centre of air outlet and 300mm away from frontal centre of fan.
Test conditions: 25℃, humidity 55%, (accord with the EOS/ESD S3.1-2006 standard regulations).
★ Test equipment:TREK157

IONIZING AIR GUN



IONIZING AIR GUN



IONIZING AIR NOZZLE



Automatic alarm function

Item	BFN-HFG9/BFN-HFG10	BFN-HFN9
Ion-generating mode	Corona Discharge Mode	
Ion output voltage	2.2KV	
Ion balance control mode	Self-poise	
Static Decay Time (from ± 1000V to ± 100V)	< 1S ※#★	
Ion balance	< ± 15V※#★	
Power Supply	DC24V/500mA output (power input AC220/50HZ or AC110/60HZ)	
Pressure of air	≤0.6MPA	
Operating Distance	100mm~800mm	
Ozone Concentration	< 0.002ppm	
Windpipe connector spec	Diameter φ6 mm	
Environment Durability	Environment Temperature	0℃~50℃
	Environment Humidity	20%~80%RH(without frost)
Cable length	2M	
Weight of Ionizing Blower	BFN-HFG9:250g	153g
	BFN-HFG10:950g	
Material	ABS Fireproofing	Cold rolled steel plate
Colour	Light grey	Light grey
Dimensions	BFN-HFG9: W127mm×H198mm×D28mm	W34mm×H45mm×D115mm
	BFN-HFG10: W210mm×H87mm×D26.5mm W166mm×H84mm×D35.5mm	

※ Measure conditions: at the highest speed, at the centre of air outlet and 300mm away from frontal centre of fan.
Test conditions: 25℃, humidity 55%, (accord with the EOS/ESD S3.1-2006 standard regulations).
★ Test equipment:TREK157



3.017.01.004

BENCHTOP AC IONIZING BLOWER

- Working voltage: 220V/50Hz or 110V/60Hz
- Working current:0.13Amps.
(at the highest air speed)
- Air output: 100CFM.(at the highest air speed)
- Ion balance: $\leq \pm 10V$
- Working distance: 300mm~900mm
- Working temperature: 0°C~5 0°C
- Working humidity: 35%~75%RH
- Material: cold rolled steel plates
- Dimensions: D88mmX W140mmXH222mm
- Color : off-white+black(bracket)
- Weight: 2.8kg



3.017.01.009

HORIZONTAL AC IONIZING BLOWER

- Working voltage: 220V/50Hz or 110V/60Hz
- Working current:1.5Amps. or 3.0Amps.
- Air output: 200CFM.(Max)
- Ion balance: $\leq \pm 10V$
- Working distance: 300mm~1800mm
- Working temperature: 0°C~5 0°C
- Working humidity: 30%~75%RH
- Material: cold rolled steel plates
- Dimensions: D210mmX W390mmXH115mm
- Color : off-white
- Weight: 7.6kg



3.017.01.005

OVERHEAD AC IONIZING BLOWER

- Working voltage: 220V/50Hz or 110V/60Hz
- Working current:0.31Amps.
(at the highest air speed)
- Air output: 200CFM.(at the highest air speed)
- Ion balance: $\leq \pm 10V$
- Working distance: 300mm~1200mm
- Working temperature: 0°C~5 0°C
- Working humidity: 35%~75%RH
- Material: cold rolled steel plates
- Dimensions: D155mmX W600mmXH85mm
- Color : off-white
- Weight: 5.8kg



3.017.01.024

HORIZONTAL AC IONIZING BLOWER

- Working voltage: 220V/50Hz or 110V/60Hz
- Working current:1.5Amps. or 3.0Amps.
- Air output: 200CFM.(Max)
- Ion balance: $\leq \pm 10V$
- Working distance: 300mm~2000mm
- Working temperature: 0°C~5 0°C
- Working humidity: 30%~75%RH
- Material: cold rolled steel plates
- Dimensions: D210mmX W504mmXH105mm
- Color : off-white
- Weight: 8.2kg



3.017.01.003

OVERHEAD AC IONIZING BLOWER

- Working voltage: 220V/50Hz or 110V/60Hz
- Working current:0.48Amps.
(at the highest air speed)
- Air output: 300CFM.(at the highest air speed)
- Ion balance: $\leq \pm 10V$
- Working distance: 300mm~1800mm
- Working temperature: 0°C~5 0°C
- Working humidity: 35%~75%RH
- Material: cold rolled steel plates
- Dimensions: D155mmX W1000mmXH85mm
- Color : off-white
- Weight: 8.4kg



3.017.01.010



3.004.01.002

HIGH PERFORMANCE AC IONIZING AIR GUN

Working voltage	5.6kV
Working current	$< 300 \mu A$
Air flux	$> 300CFM(5kgF/cm^2)$
Compressed air pressure	3 ~ 5kg/cm ²
Ozone content	0.03PPM
Operating temperature	0°C to 50°C



3.020.01.005

HIGH VOLTAGE GENERATOR

Item	Model	ECO-H03T
Voltage input		220V /50Hz or110V/60Hz
Current input		0.12A or 0.23A
Voltage output		5.6KVX2
Current output		Max 4.5mA
Working environment humidity		30%~75%RH
The length of power cord		1.2M
Weight		3.2kg
Dimensions		D140mmxW100mmxH114mm
Short circuit protection		$< 3s$



3.010.01.004

STATIC-ELIMINATING IONIZING COPPER BAR/IONIZING AIR COPPER BAR

Item	Model	ECO-B01	ECO-B03
Working voltage		5.6KV	5.6KV
Working current		230 μ A/M	230 μ A/M
Operating temperature		0°C to 50°C	0°C to 50°C
Available production length		200~2000m	200~2000mm
Weight		1.6kg/M	2.8kg/M
Ozone content		0.04PPM	0.04PPM
Compressed air pressure		/	3~7kg/cm3



3.010.01.009

IONIZING BAR/AIR CURTAIN

Item	Model	ECO-B02	ECO-C01
Working voltage		7.0kv	7.0kv
Working current		0.52mA/M	0.6mA/M
Working temperature		0°C ~ 50°C	0°C ~ 50°C
Effective coverage		20~60mm	60~600mm
Working air pressure		/	0.3~0.6MPa
Weight		500g/M	2kg/M
Ozone content		0.04PPM	0.04PPM
Available length		20cm~2m	20cm~2m



3.010.01.001

HIGH PERFORMANCE AC IONIZING AIR ALUMINIUM BAR

Operating voltage	7.0kv
Operating current	0.04mA
Operating temperature	0°C ~ 50°C
Weight	600g/M
Available length	200mm~2000mm
The length of wiring	2M(standard)
Ozone content	0.04PPM
Compressed air pressure	3-7kg/cm ²

HIGH VOLTAGE GENERATOR

Item	Model	ECO-H01T	ECO-H02T	ECO-H01F	ECO-H02F
Voltage input		220v/50Hz or 110V/60Hz		220v/50Hz or 110V/60Hz	
Current input		0.12A or 0.23A		0.12A or 0.23A	
Voltage output		7.0KVX2	5.6KVX2	7.0KVX4	5.6KVX4
Current output		Max 4.5mA		Max 4.5mA	
Working environment humidity		0°C to 50°C		0°C to 50°C	
The length of power cord		1.2M		1.2M	
Weight		2.8kg		3.4kg	
Dimensions		D137mmxW100mmxH114m		D137mmxW184mmxH114m	
Short circuit protection		<3s		<3s	

The length of cable	2.8M
Operating voltage	5.6KV
Current consumption(at rest)	0.05Amps
Dimensions of windpipe tie-in	1/8NPT(female)
Air input pressure	100PSI(7 bar) maximal pressure
Air consumption	compressed air, inert gases or nitrogen gases. 2.4 SCFM at 30 PSI(68 l/min. at 2bar) 4.6 SCFM at 60 PSI(130 l/min. at 4bar) 7.4 SCFM at 100 PSI(210 l/min. at 7bar)
Replaceable filter	0.02 micron
Noise	76 dB at 30PSI (2 bar) 89 dB at 60PSI (4 bar) 97 dB at 100PSI (7 bar) measure at the position 24" (600mm) away from nozzle
Ozone content	0.001 PPM measure at 18" (450mm) away from gun and working pressure 15 PSI (1 bar). Test depends on American Federation Standard: EPA EQQA-0577-019 Using Dasibi ozone measuring instrument, model 1003AH.
Working temperature	0°C ~ 50°C
Material	Gun body ABS ABS molded Cable shielding cable
Weight	Generator cold rolled steel plates sprinkled with powder 4.6kg(including gun body, high-voltage ionizer and cable)
Ion balance	< ± 15v

**HIGH PERFORMANCE AC IONIZING AIR GUN
HIGH VOLTAGE GENERATOR**



3.004.01.017

HIGH VOLTAGE GENERATOR

Item	Model	ECO-G03H
Voltage input		220V /50Hz or 110V/60Hz
Current input		0.12A or 0.23A
Voltage output		5.6KV
Current output		Max 4.5mA
Working environment humidity		30%~75%RH
The length of power cord		1.2M
Weight		3.2kg
Dimensions		D140mmxW100mmxH114mm
Short circuit protection		<3s



3.004.01.014

HIGH PERFORMANCE AC IONIZING AIR NOZZLE

Working voltage	5.6kv
Working current	< 300 μ A
Air flux	> 300CFM(5kgF/cm ²)
Compressed air pressure	3 ~ 5kg/cm ²
Ozone content	0.03PPM
Operating temperature	0°C to 50°C



3.013.01.002

HIGH PERFORMANCE AC IONIZING AIR SNAKE

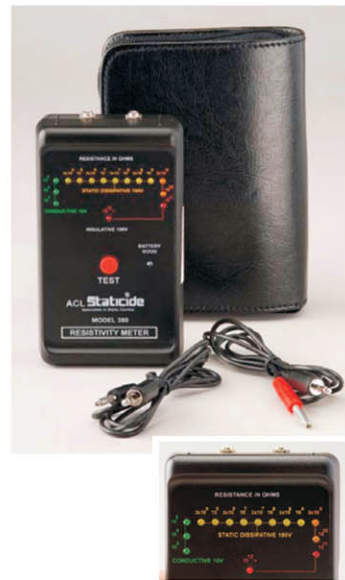
Working voltage	5.6kv
Working current	< 300 μ A
Air flux	> 300CFM(5kgF/cm ²)
Compressed air pressure	3 ~ 5kg/cm ²
Ozone content	0.03PPM
Operating temperature	0°C to 50°C



018.001.000.00.00001

PRECISION ELECTROSTATIC LOCATOR METER

- Measures static charges instantly from 0-30,000 Volts, reliably and economically in a pocket size meter!
- Uses standard 9 volt battery with battery test feature
- Low drift, Repeatability $\pm 1\%$, Accuracy: $\pm 10\%$
- Unique "Quick zero" function which instantly re-zeros the instrument and provides ground compensation for the user
- Size: $4\frac{3}{8}$ " X $2\frac{5}{8}$ " X $1\frac{9}{16}$ "
- Weight: 5.5 ounces



018.001.000.00.00003

RESISTIVITY POCKET METER

SPECIFICATIONS :

- Power Supply : 9 volt alkaline battery
- Test Voltage: 10 volt / 100 volt
- Resistivity Limits: $10E3$ - $10E12 \Omega/M^2$
- Accuracy: 10%
- Weight: 8.9 oz
- Meter Size: $5\frac{1}{4}$ " X $1\frac{3}{8}$ " X 3"
- COLOR ELECTRICAL :
 - Green Conductive $10E3$ - $10E5 \Omega$
 - Yellow Dissipative $3 \times 10E5$ - $10E9 \Omega$
 - Orange Dissipative $3 \times 10E9$ - $10E10 \Omega$
- Insulative: $10E11$ - $10E12 \Omega$

ACL 390 :

- Lightweight tester Two 5 lb probes
- Two cables (monaural to banana) Foam lined carrying case

HUMAN BODY STATIC TESTER WITH STAND

- Size: 9.5 x 15.2 x 3.8cm
- Weight: 1002S (0.284kg)
- Accuracy: $\pm 10\%$
- Wrist strap:
 - 500k, 750k Low:500k,750k ohms
 - High: 2M/5M/10M/25k/35k/50k/75k/100k
- Heel/Toe/shoe:
 - 500k, 750k low:500k,750k ohms
 - 2M/5M/10M/25M/75M/100M (1000M),
 - High:2M/5M/10M/25M/75M/100M(1000M optional)
 - Internally selec table
- Compatibility with US and EU standards and CE certification



018.001.000.00.00005



018.001.000.00.00002

DIGITAL VOLTAGE TESTER

- $3\frac{1}{2}$ LCD
- Easy-to-read $3\frac{1}{2}$ digit LCD display automatically updates three times per second
- Test Range: 0-20, 000V
- Automatic shut-off after 90 seconds
- Equipped with a power on /Hold button and zero button
- Size: 4.2" x 2.4" X 0.9"
- Accuracy: $\pm 10\%$



018.001.000.00.00004

ESD CHECKER

- 0-19990
- Watch the liquid crystal display indicated between 0-19,990 Volts of static charge + or - polarity
- Operating voltage > 6.5 volts < 9 volts lowbt set at 6.5 volts
- Operating :5°C ~49°C
- Relative Humidity :0%~90%
- Accuracy: $\pm 5\%$
- Weight:2 pounds
- Size : $14\frac{1}{2}$ " X 9.0" X $3\frac{1}{3}$ "



018.001.000.00.00006

MEGOHM METER

- Measures resistivity: $10^3 \sim 10^{12} \Omega/sq$
- Measures relative humidity: 10%~90% RH
- Measures temperature: 0°C ~37.7°C
- test voltage range: 10V/100V
- LCD alpha-numeric scale-no LED' S
- Compliance with EOS/ESD, CECC, ANSI, ASTM and UL certification processes



018.001.000.00.00012

ELECTROSTATIC CHAIR TESTER

- Size: approx 95mm (4")W x 190mm (8 $\frac{1}{2}$ ")L x 50mm (2")H
- Weight with case: 4 pounds
- Power: 9V Battery 9volt
- Test range: $10^3 \sim 10^{12} \Omega$
- Test voltage: automatically adjust 10v conductive /100V dssipative $\pm 10\%$
- Accuracy: $\pm 10\%$



018.007.000.00.00010

ELECTROSTATIC FIELD METER

- Automatic convert between V/m-V;
- LCD display (first row-test distance; Second-row: test data;)
- Display 0 when power-on; power-off automatism when stand-by
- CPS mode can convert between ion balance and dissipation time test
- Body with EMV plastic. forbidden the electromagnetic wave affect the accuracy



018.007.000.00.00009

CHARGE PLATE SET

- EFM 022 Electrostatic Field meter including 75x150mm charge plate and CPS 022 high-voltage generator.
- We can test the voltage decay time and ion balance. (reference to EN100015 EOS/ESD S.3.1)
- EFM022 75mmx150mm (20pF) CPS022 (EN100015 EOS/ESD S.3.1).
- Order Number
- EFM 022 Meter(Holster, grounding line ,battery
- CPS022 set; EFM022 TEST meter,CPS022 high-voltage generator, test Electrode plate, conduct flat plate, battery, charger,carrying bag



018.003.000.00.00001

SURFACE RESISTANCE METER

- Measurement ranges:
10 E4 to 10 E14 ohms/square
Resistance : 10 E3 to 10 E13 ohms
- A variety of measuring probe electrode configurations are available
- User selectable for 10 V or 100 V,
- Accuracy : +/- 5%
- Optional: special small probe
- Test in the high temperature room



018.003.000.00.00002

CHARGED PLATE MONITORS

- 156A : 3 1/2 digit red LED display. 157 :LCD display; 158: Colorful LCD display
- Mode Select:
+Decay and -Decay Modes: ± 100- ± 1000V(Start Voltage set as you like)
- Optional: two size plate
- Power Requirements:Battery Eliminator/Charger,Available for all nominal line voltages.
- 157 character:1. Memory:Can store or retrieve as many as 1500 manual or up to 1000 automated test results in its internal memory. 2.Standard USB receptacle on Model 157 unit connects to a PC for data exchanges or transfers.
- 158 character: the Model 158 features a color graphics display to permit viewing of discharge waveforms and offset voltage in the time domain, and the ability to store test data and waveforms for hundreds of ionizer tests.

CHARGED PLATE MONITOR

- CPM 374 built-in timer, Stain steel plate. Compound with High-voltage generator and potential prober. We can test the voltage decay time and ion balance. Also we can test the body static potential.
- Aluminum body
- 100mm x 24mm, 2 x 16
100mm x 24mm, LCD-Display 2 x 16
- PC port: 9 Pole Sub D
- 7.2V/1300mAh (6)12V-DC/750mA
Power supply: 7.2V/1300mAh chargeable batteries.(6 hours work time) .
Or 12V-DC/750mA outer power
- Charge time: MAX 14H
- 100mA ; 350mA
Power Consumption: 100mA interior cell .350mA exterior power supply
- Shot off after 5 minutes
- Size: 152mm x 152mm x 152mm(L x M x H)
- Weight:990g
- IEC61340-5-1 EOS/ESD S.3.1
Reference IEC61340-5-1; EOS/ESD S.3.1
- Order Number :
CPM374: test meter; Battery charger ; Suitcase



018.007.000.00.00002



018.007.000.00.00011

CONCENTRIC RING/CYLINDRICAL PROBES

- Use for testing surface resistance to IEC61340-5-1 and ANSI/ESD STM11.11-2001
- To obtain surface resistivity, multiply meter reading by 10
- Internal resistance: < 500Ω
- Carbon pad hardness: Shore A= 70+/-5
- Insulation resistance: > 2x10E13Ω@100V, rH<50%
- Size:65mm diameter x 105mm high
- Weight:2.5kg +/-0.1kg
- Supplied with 1.2m cable and carry case



018.008.000.00.00002
GT-321 PARTICLE COUNTER



018.008.000.00.00001
GT-521 PARTICLE COUNTER



018.008.000.00.00003
GT-526 PARTICLE COUNTER



018.008.000.00.00004
AEROCET 531 MASS PARTICLE COUNTER



018.007.000.00.00015
G3120



018.007.000.00.00016
G3115



018.007.000.00.00018

ESD GENERATOR

Features:

- The output voltage of contact discharge(CD) and air discharge (CD) is 0 ~ ± 20 KV, convenient, replaceable contact discharge/ air discharge tip.
- Digital display, high precision (better than 1%), high stability (0.5%), high distinguish (10V).
- Output voltage is continuous adjustable. Can freely choose the value & electrode of tested voltage.
- The lightest static discharge gun in the world.
- The key part's voltage durability is 10KV~20KV better than international and national criterion required. It can completely ensure the safety of human and devices.
- Optional discharge mode. One time, once/second, 20 times/second and other modes are available. We can also set the discharge frequency according to customer's requirements.
- Multi-function. Main body can act as high precision (1%), high stability (less than 0.1%), and continuous adjustable high voltage power supply. It's used for calibrating static voltage meter and other experiment.
- Common AC85V 260V/40-65Hz-power supply. Can work immediately in any country or area.

526/521/321 technology parameter

	526	521	321
Flow Rate	0.1cfm(2.83l/min)		
Sensitivity	0-3,000,000		
Particle Size Range	0.3um		
Concentration Range	0.3um, 0.5um, 0.7um, 1.0um, 2.0um, 5.0u	0.3um-5.0um (0.1um) (selectable in 0.1 micron increments)	0.3/0.5/1.0/2.0/5.0um (Selectable)
Sample Time	1-999秒(可调) Adjustable from 1 to 999 seconds	6-999 Adjustable from 6 to 999 seconds	1 minute total (first reading in 9 seconds, subsequently every 6 seconds)
Hold Time	Adjustable from 1 to 999 seconds		
Keyboard	7 key membrane type	7 key membrane type	2-button membrane
Interface Display	16 character x 4 line LCD	16 character x 4 line LCD	12-character LCD
Operating Temperature	0 to 50 Degrees Celsius		
AC Adapter/Charger	AC to DC module, 100 to 240 VAC to 9 VDC at 350 mA typical		
Size(L x W x D)	165.1 x 101.6 x 53.3 mm	152.4 x 88.9 x 63.5 mm	
Weight	880g	737g	740g

Aerocet 531 Technology parameter

Operating Principle	Counts individual particles using scattered laser light and calculates the equivalent mass concentration using a proprietary algorithm
Interface Display	16 character x 4 line LCD
Keyboard	7 key membrane type
flow	0.1 cfm (2.83 lpm)
Operation mode	Mass Particle Counter
Concentration Range	0-1mg/m3
Sample Time - Particle Mode	2 minutes
Powder dust instrument Mode	PM1, PM2.5, PM7, PM10, TSP
Mass Concentration Ranges	up to 3,000,000 particles per cubic foot (105,900 particles per liter)
Concentration Range	Sample Time - Particle Mode
Sample Time - Particle Mode	1 minutes
Particle Size Range	Two Channels - 0.5 and 5.0 microns
Communications	RS-232, 9600 Baud
Operating Temperature	0-+50 °C
power	100-240VAC-9VDC V Ni-MH Self-contained battery pack - provides 8 hours of typical operation and up to 5 hours of continuous use
weight	0.737kg

Technology Parameter:

- Energy-storage capacitance: 150 pF ± 10%
- Discharge resistance: 330Ω ± 10%
- Charge resistance: 50M-100M ohm
- Discharge current ascending: 0.7ns ~ 1ns
- Output voltage: 0 ~ ± 20KV, 0 ~ ± 20KV
- Contact discharge: 0 ~ ± 20 KV, continuous adjustable.
- Air discharge: 0 ~ ± 20 KV, continuous adjustable.
- Acceptable error of output voltage: < 1% (1~ ± 20 KV)
- Electrode of output voltage: positive or negative (can switch freely)
- Holding period: longer than 5s
- Stability of output voltage: 0.5% (24 hours)
- Voltage display: 3 1/2 bit display, voltage display distinguish: 10V
- Discharge current electric wave and pulse parameter: accord with International Electricity Industrial Community IEC/EN61000-4-2 or national GB/T 1 7626.2-1998 criterion.
- Operation condition: temperature: 5~40 OC, relative humidity: 20~80%, no coagulate dew, air pressure: 68~106kpa.
- Power supply: AC85V~240V/50Hz
- Dimension and weight: 28cm(L)*13cm(W)*28cm(D), about 4kg. (the weight may be slightly different among items produced at different year)

Basic Parts

- Main body: high voltage generator and controller
- Discharge gun: changeable tip (ball or taper discharge electrode) and cable connected with main body
- Power supply cable
- Tool box

	(kV)	(±10%)A	tr (ns)	(±30%) A	60ns (±30%) A
1	2	7.5	0.7-1	4	2
2	4	15	0.7-1	8	4
3	6	22.5	0.7-1	12	6
4	8	30	0.7-1	16	8

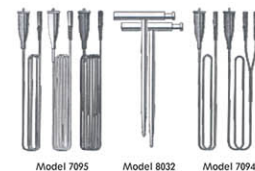
GROUNDING CORDS RESISTANCE TESTER

Specifications

Measurement Ranges	Earth Resistance 0-20Ω/0-200Ω/0-2000Ω Earth Voltage(50Hz,60Hz) 0-200V AC
Accuracy	Earth Resistance ± 2%rdg ± 0.1 Ω (20Ω range) ± 2%rdg ± 3dgt (200Ω/2000Ω range) Earth Voltage ± 1%rdg ± 4dgt
Overload Protection	Earth Resistance 200V AC for 10 (seconds) across 2 of the 3 terminals Earth Voltage 300V AC for 1 minute
Safety Standard	IEC1010-1 CAT. III
Applicable Standards	IEC529 Ip54 JISC 1304
Withstand Voltage	3700V AC for 1 minute
Power Source	R6P(AA)(1.5V)x6
Dimensions	105(L)x158(W)x70(D)mm
Weight	540g approx.(battery included)
Accessories	7095 (Test leads)x1 set 8032 (Auxiliary earth spikes)x1 set 7094 (Simplified measurement probe)x1 set R6P(AA)x6 Neck strap 9084 (Carrying Case) Instruction manual



018.007.000.00.00017



Model 7095 Model 8032 Model 7094

