

- FUME EXTRACTORS
- SOLDERING ROBOT
- ESD & CLEANROOM PRODUCTS
- TOOLS FOR ELECTRONIC ASSEMBLY INDUSTRY

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WATERUN PROFILE



Established in 2003, Waterun Technology is located in Shenzhen, China. We are a leading manufacturer & exporter of Fume Extractors, Soldering Robots, Screw Fastening Robots, ESD & Cleanroom products, Tools & Instruments for electronic assembly industry.

Waterun owns two factories and one business & logistics center and nearly 100 employees.



Due to the good quality and good pricing, our products are getting popular in many countries in the world.

We have been supplying to a number of Global Top 500 Companies, such as Samsung, LG, Philips, ABB, Bosch, Honeywell, Panasonic, Toshiba, Nikon, Yamaha, Huawei, Foxconn, Vtech, etc.

Waterun's goal is to become the preferred and most trusted partner for global electronic assembly industry.

Waterun's mission is to build a one-stop supply chain platform for global electronic assembly industry.



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Fume Extractors

Summary:

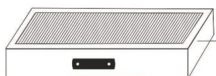
Waterun Fume Extractor is for cleaning of both particles and gases. It is designed to filter the harmful substances, such as hydrocarbon and cyanide, during the process of soldering, welding, laser marking & carving, 3D printing, moxibustion treatment, ect. It catches harmful smoke with freestanding ducts and adjustable air flow volume to significantly improve the working environment.

Triple Filtering System:



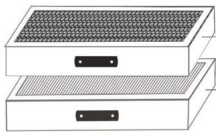
Pre-Filter Cotton:

It filters large particles of dust, suspended particulates, bacterial viruses.



HEPA Filter (High Efficiency Particulate Air Filter):

It filters more than 70 kinds of Micro Pollutants, such as suspended virus, bacteria, fungus, pollen, asbestos, ect. The filtering efficiency reaches 0.3um / 99.97%.

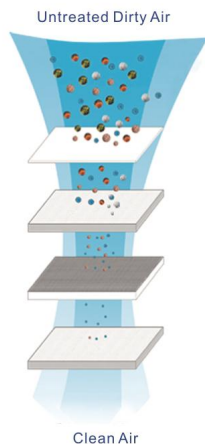


Active Carbon Filter:

It effectively filters the common toxic and hazardous gases, such as formaldehyde and benzene.

HEPA Filter:

Double HEPA Filtering can prevent the active carbon powder flowing with the air out of the machine. It guarantees the perfect air cleanliness.



Remarks:

- 1) Normally, we suggest the replacement period for filters as below:
Pre-Filter : 1 month
Middle Filter : 3 months
Main Filter : 6 months
- 2) However, the replacement period can be adjusted as per the exact pollutants generated in different environment.

Desktop Fume Extractor



F800
(P/N: W00446)

Features:

- Lightweight and compact design; save space and easy to move;
- Brushless motor ensures high speed with low noise, stable performance and long life time;
- The glass fiber filter can filter over 80 kinds of viruses, bacteria, microbe, etc;
- When the filter gets saturated, the built-in buzzer will give sound and light alarm in time;
- Two options for operation: with the duct or without the duct.

Applications:

Soldering, Small Lazer Machines

Model	F800
Voltage	85V / 265V
Power	35W
Systemic Flow	75m³/h
Filtering Efficiency	0.3um 99.97%
Noise	<50dB
Dimensions(mm)	300 x 270 x 300
Weight	4.5kg



Fume Extractors

Features:

- Metal body structure, strong and durable;
- Noise reduction design, quiet operation;
- Triple-filter design ensures thorough purification;
- High-quality alloy fan achieves great suction power.



Features:

- With the intelligent control panel and digital display, operation becomes easy and simple;
- With the remote control, you can control the machine from a distance;
- Truly sensitive and effective Filter Clogging Alarm System reminds you to replace the filter in time;
- Wheels make the movement easy and flexible.



F6001
(P/N: W00447)



F6002
(P/N: W00448)



F6001D
(P/N: W00449)



F6002D
(P/N: W00450)

Model	F6001	F6002	F6001D	F6002D
Voltage	110V / 220V	110V / 220V	110V / 220V	110V / 220V
Power	80W	200W	80W	200W
Ducts	1	2	1	2
Systemic Flow	235m³/h	2 x 150m³/h	235m³/h	2 x 150m³/h
Air Velocity	17m/s	2 x 11m/s	17m/s	2 x 11m/s
Filtering Efficiency	0.3um 99.97%	0.3um 99.97%	0.3um 99.97%	0.3um 99.97%
Length of Duct	Φ75mm x 1.4m	Φ75mm x 1.4m	Φ75mm x 1.4m	Φ75mm x 1.4m
Noise	<52dB	<52dB	<52dB	<52dB
Dimensions(mm)	425 x 250 x 410	425 x 250 x 410	425 x 250 x 410	425 x 250 x 410
Weight	14kg	14.5kg	14kg	14.5kg

Applications: Soldering, Laser Marking & Carving, Moxibustion, Chemical Lab, Beauty Salon, etc.

Dust Collector & Fume Extractors

Features:

- Metal body structure, strong and durable;
- With digital display and remote control;
- Noise reduction design achieves quiet operation;
- Multiple-filter design ensures thorough purification;
- High-quality alloy fan achieves great suction power.
- With the observation window, you can monitor the dust accumulation status;



Dust Collector

Applications:

Absorbing the sawdust, woodchips from furniture manufacturing;
Absorbing the dust, powder, metal cut leads generated from polishing, cutting, stamping processes.

Fume Extractors

Applications:

Dust and powder collection;
SMT automatic machines;
Electronic soldering, reflow soldering, wave soldering;
Laser cutting, laser marking, laser engraving;
Electric welding, argon arc welding, plasma cutting.



F2000D
(P/N: W00538)



F3000D
(P/N: W00539)



F5000D
(P/N: W00540)



F6000D
(P/N: W00541)

Model	F2000D
Voltage	110V / 220V
Power	350W
Systemic Flow	480m³/h
Filtering Efficiency	0.3µm 99.97%
Noise	<70dB
Dimensions(mm)	550 x 415 x 920
Weight	42kg

Model	F3000D	F5000D	F6000D
Voltage	110V / 220V	110V / 220V	110V / 220V
Power	350W	450W	700W
Systemic Flow	435m³/h	500m³/h	620m³/h
Filtering Efficiency	0.3µm 99.97%	0.3µm 99.97%	0.3µm 99.97%
Noise	<65dB	<70dB	<75dB
Dimensions(mm)	550 x 415 x 920	550 x 415 x 920	550 x 415 x 1300
Weight	52.5kg	60kg	75kg



Features:

- High power Fume Extractors for big SMT machines;
- Air inlet diversion design, increase the purification efficiency by 80%;
- Sound and light alarm for filter clogging;
- Brushless DC motor with stable performance, can work for 40,000 hours consecutively.
- Adoption of accordion style bag to filter big particles.



Applications:

Reflow Soldering Fumes, Wave Soldering Fumes, Argo Arc Welding Fumes, Solder Pot Fumes, etc.



Solder Fume Extractor

New



XS-1500
(P/N: W00602)

XS-1200
(P/N: W00601)

XS-2000
(P/N: W00603)

Model	XS-1200	XS-1500	XS-2000
Voltage	220V	220V	380V
Power	1200W	1500W	2000W
Filters	5 layers	5 layers	5 layers
Systemic Flow	1150 m³/h	1600 m³/h	2000 m³/h
Noise	< 70 dB	< 72 dB	< 90 dB
Dimensions (mm)	750 x 597 x 1545	750 x 597 x 1545	750 x 597 x 1545
Weight	146 kg	155 kg	155 kg

Cut Lead Extractor

Features: (P/N: W00604)

- With 2 or 4 pcs of cutters with silicone tubes to extract the cutting ends;
- Metal body structure, strong and durable;
- Extracting efficiency reaches over 99%;
- The suction power is adjustable.
- DC brushless motor ensures high speed with low noise and long life time.

Model	XS1-2	XS1-4
Cutters	2 pcs	4 pcs
Power	80W	
Systemic Flow	150 m³/h	
Noise	< 62 dB	
Dimensions (mm)	285 x 204 x 183	
Weight	4 kg	



XS1-2

XS1-4

New

Automated Equipment

Screw Fastening Robot

Screw Fastening Robot greatly improves the work efficiency and the screw fastening consistency & reliability. With the advanced Teaching Pendant, operators can set up by themselves all the process parameters such as the screw coordinate and screw types. It can adapt to all sorts of difficult screw fastening process and achieve the complete automation.

Applications:

For all kinds of screw fastening process on mobile phones, keyboards, monitors, car accessories, toys, small home electrical appliances, integrated circuits, printed circuit boards, LCD screen, electronic components, etc.



LS-400YGD2
(P/N: W00578)



LS-300YY
(P/N: W00575)

Teaching Pendant

Model	LS-300YY	LS-400YGD2
Drive Mode	4-Axis precision step motor	5-Axis precision step motor
Operating Range (X * Y * Z)	500 x 300 x 80mm	500 x 400 x 80mm
Movement Speed	X * Y Axis: 0.1~800mm/sec, Z Axis: 0.1~400mm/sec	
Maximum Load Weight	8kgs (for work platform)	
Program Capacity	Max. 255 programs	
Operating Temperature	10°C ~ 40°C	
Operating Humidity	20 ~ 90%	
External Dimensions	760 x 620 x 710mm	1180 x 740 x 760mm
Weight	about 91kgs	about 107kgs

Hand-held Auto-feeding Screwing Device

It is a new patented product. There is no need for the operator to pick up the screw one by one from the screw feeder. The screws will feed to the screwdriver bit directly through a tube.

Hence, the operator's work efficiency has been greatly increased by 2-4 times. It helps to reduce cost and enhance the company's competitiveness. The estimated time to recover the investment of this device is only one month. It has stable performance and low failure rate.



LS-609N
(P/N: W00611)



Screwing Speed	0.5 - 1.0 second/ 1 pcs
Screw Feeding Speed	80 - 120 pcs/ sec
Suitable Screws	M1.4 - M4.0
Weight of Screw Feeding Device	150g

Soldering Robot

Features:

- Applicable for different products, soldering temperature can be set freely.
- The soldering iron unit can be multi-directionally adjusted, which can protect the PCB and components from damage.
- Numerically controlled temperature (static air condition: $\pm 1^{\circ}\text{C}$)
- With the handheld LCD Teaching Pendant, the programming is simple and easy to learn.
- In the soldering process, the solder tip has rapid heat recovery and a long life span.



Weller Heater & Soldering Tip



S513
(P/N: W00612)

Teaching Pendant

Model	S513
Heating Power	150W
Input Voltage	AC 110V / 220V
Output Voltage	DC24V
Solder Wire Diameter	0.5, 0.6, 0.8, 1.0, 1.2 (mm)
Preheating Temperature Range	0°C~500°C
Axis	4
Operating Range (X * Y * Z)	400 x 400 x 100mm
Dimensions (L * D * H)	720 x 700 x 810mm
Weight	about 66kg

Glue Dispensing Robot

Features:

- Replace the human labor and save labor cost.
- Simple and convenient operation, high speed and precise control.
- Realize the precise dispensing by the high-precision motor.
- High performance Linear structure platform with nice appearance.



DJ-200P
(P/N: W00588)

Teaching Pendant

Model	DJ-200P
Drive Mode	3-Axis precision step motor
Operating Range	200mm x 200mm x 80mm (X * Y * Z)
Movement Speed	X * Y Axis: 0.1~600mm/sec Z Axis: 0.1~400mm/sec
Repeatability Accuracy	$\pm 0.02\text{mm}$ (X * Y * Z)
Minimum Analysis	0.01mm (X * Y * Z)
Maximum Load Weight	8kgs (for work platform)
Program Capacity	Max. 255 programs
Operating Temperature	10°C ~ 40°C
Operating Humidity	20 ~ 90%
External Dimensions	380 x 440 x 630mm
Weight	about 31kgs

Soldering & Reworking Tools

Soldering Stations

Waterun-936ESD
(P/N: W00028)



- Adopting Japan long life ceramic heater.
- Handle is especially light, easy to operate.
- Temperature rises quickly. Stable and accurate temperature control.

Power Consumption	60W
Output Voltage	24V AC
Heating Element	ceramic heater
Temperature Range	200°C ~ 480°C
Applicable Tips	900M series

Waterun-937ESD
(P/N: W00218)



- Digital display ensures accurate temperature setting.
- Once set, temperature cannot be changed without inserting the key card.

Waterun-203H
(P/N: W00221)



- High frequency current heating element.
- Fast heating and temperature recovery.
- Auto-idle prolongs the tip life, energy-saving.

Model	Waterun-203H	Waterun-205
Temperature Range	50 ~ 600°C	50 ~ 600°C
Max Power	90W	150W
Applicable Tips	200 series	500 series
Dimensions (mm)	130(W) x 100(H) x 200(D)	200(L) x 130(M) x 100(H)
Weight	2.6 Kg	2.7 Kg

Waterun-205
(P/N: W00444)



- Micro-computer control, with auto sleeping and auto shut-off functions;
- Large power design (150W), Max 8mm tip available;

Waterun-951
(P/N: W00220)



- Superior heat recovery; Digital display.
- Temperature compensation; Low temperature alarm.
- Composite tip of excellent thermal recovery.

Power Consumption	75W
Temperature Range	200 ~ 450°C
Output	24V
Applicable Tips	T12 series
Dimensions (mm)	80(W) x 130(H) x 131(D)
Weight (w/o cord)	1.2 Kg

Waterun WSD-81
(P/N: W00309)



- Light handle suitable for long time operation;
- A silver heating element and very small tip allow for faster recovery time.

Power Consumption	80W
Temperature Range	50°C~450°C
Temperature Tolerance	± 2%
Applicable Tips	LT series

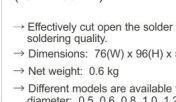
Waterun-373
Automatic Solder Feeder
(P/N: W00445)



- Solder feed time and speed can be set.
- Connected with a soldering iron, it enables automatic solder feed.

Solder Feed Time	0 ~ 7 sec
Solder Feed Speed	4.5 ~ 26mm /sec
Solder Feed Quantity	0 ~ 182 mm
Mode	Auto / Manual
Usable Solder Dia.	Φ0.6, Φ0.8, Φ1.0, Φ1.2, Φ1.6 mm

Waterun-375
Solder Feeding Machine
(P/N: W00224)



- Effectively cut open the solder wire and improve the soldering quality.
- Dimensions: 76(W) x 96(H) x 50(D)mm
- Net weight: 0.6 kg
- Different models are available to cut different solder wire diameter: 0.5, 0.6, 0.8, 1.0, 1.2, 1.5, 1.6mm



Thermometers

Waterun-191
Thermometer
(P/N: W00023)



- Clear LCD indication;
- Sensors are easy to be replaced;
- Wide testing temperature range of 0°C-600°C
- Test the temperature of soldering iron precisely and quickly;

Waterun-191A
Thermometer
(P/N: W00499)



- Wide testing temperature range of 0°C-600°C
- 2-in-1 design for measurement of temperature of the solder pot and other surface

Waterun FG-100
Thermometer
(P/N: W00315)



- Providing reliable temperature control of soldering tips.
- Extremely fine sensor with high temperature reactivity is incorporated.

Rework Stations

Waterun-850
(P/N: W00025)



- Wide range of temperature and airflow adjustment.
- Cool air will start to blow continuously after using, to avoid the heater damage.
- Especially suitable for repairing QFP, SOP, PLCC and SOJ components.

Waterun-852
(P/N: W00225)



- With digital display, easy to control the hot air temperature visually.
- Featuring airflow meter, easy to control the airflow volume.
- Automatic cooling function protects and extends the usage life of the system.

Waterun-852D
(P/N: W00288)



- 2 functions in a single unit: soldering and SMD reworking.
- The compact design saves space and more convenient to use.
- Automatic cooling function protects and extends the usage life of the system.

Waterun-858D
(P/N: W00290)



- Rapid warming, accurate and stabilized temperature.
- Automatic cooling function protects and extends the usage life of the system.
- Brushless fan design, longer life, minimal noise.

Model	Waterun-850	Waterun-852	Waterun-852D	Waterun-858D
Power Consumption	550W	650W	700W	700W
Power of the Iron			60W	
Temperature Range	100 ~ 480 °C	100 ~ 480 °C	200 ~ 480°C	100 ~ 450 °C
Air Pump Type	Diaphragm Pump	Diaphragm Pump	24 L /min (max)	Brushless Fan with Soft Wind
Air Capacity	24 L /min (max)	24 L /min (max)	5.1 Kg	120 L /min (max)
Weight				150(L) x 100(W) x 140(H)mm
				1.8 Kg

Smoke Absorbers

Waterun-496ESD
(P/N: W00500)

- Genuine ESD safe material;
- Power: 23W
- Weight: 1.4Kg
- Dimensions: 220 x 270 x 168mm
- With extra 2 pcs of replacement carbon filter



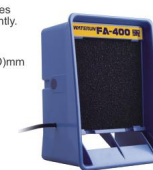
Waterun-493ESD
(P/N: W00034)

- Easy to replace the activated carbon filter; low noise;
- Power: 23W
- Dimensions: 220 x 270 x 168mm
- With extra 2 pcs of replacement carbon filter



Waterun FA-400
(P/N: W00308)

- Removes soldering fumes quickly, safely and efficiently.
- Power: 23W
- Dimensions: 166(W) x 212(H) x 113(D)mm
- Weight: 0.93kg



Heating Guns

WT-703
(P/N: W00293)



Power: 1800W
Temp range: 60°C - 600°C

WT-705
(P/N: W00378)



Power: 2000W
Temp range: 60°C - 650°C

WT-706
(P/N: W00379)



WT-881 / 882
(P/N: W00226)



Power: 1000W
Temp range: room temp to 450°C

Desoldering Pumps

201



(P/N: W00300)

202



203



204



205



Model	201	202	203	204	205
Case Material	Plastic	Plastic	Aluminium	Aluminium	Nylon + EVA Foam
Suction Power	40 hg /cm	40 hg /cm	28 hg /cm	30 hg /cm	32 hg /cm

Soldering Accessories

Desoldering Wire
(P/N: W00228)



Width: 1.5, 2.0, 2.5, 3.0mm
Length: 1.5m, 3.0m, 10m

Tip Cleaner
(P/N: W00231)
Model: 599B



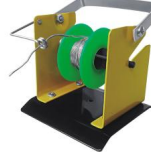
Tip Cleaner
(P/N: W00307)
Model: FT-710



Lead-Free Solder Wire
(P/N: W00229)



Solder Reel Stand
(P/N: W00237)



Soldering Iron Stand
(P/N: W00236)



Solder Aid Tool
(P/N: W00453)



Vacuum Pick-Up Tool
(P/N: W00232)



Vacuum Pick-Up Tool
(P/N: W00313)
Equivalent to Edsyn Lp200



Vacuum Pick-Up Tool
(P/N: W00314)
Equivalent to Handi-Vac



Flux Pen
(P/N: W00233)



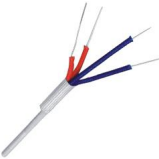
Yellow Cleaning Sponge
(P/N: W00235)
Custom sizes are available.



Blue Cleaning Sponge
(P/N: W00477)
Custom sizes are available.



A1321 Ceramic
Heating Element
(P/N: W00234)
For 936 / 937 Soldering Stations



High Frequency
Heating Element
(P/N: W00478)
For 203H / 205 Soldering Stations



Soldering Tips

We make a variety of tips to fit different brands of soldering irons.
We also customize special tips requested by customers.



Apollo Seiko
Robotic Soldering Tips



Japan Unix
Robotic Soldering Tips



Tsutsumi
Robotic Soldering Tips



Quick
200 & 500 Series
Soldering Tips



Quick
200 & 500 Series
Soldering Tips



Weller
LT Series
Soldering Tips



Hakko
900M & T18 Series
Soldering Tips



Hakko
T12 Series
Soldering Tips



JBC
C245 Series
Soldering Cartridges



OKI Metcal
Soldering Cartridges

Soldering Pots

Round Titanium Lead-Free Solder Pots
(P/N: W00454)



Model	Rated Power	Temperature Range	Melting Capacity	External Dimensions (mm)	Solder Bath Sizes (mm)
WT-506	180W	0 - 600°C	0.3kg	266L x 145W x 120H	ø 38 x 40
WT-508	250W	0 - 600°C	0.6kg	266L x 145W x 120H	ø 50 x 40
WT-808	400W	0 - 600°C	1.5kg	327L x 175W x 120H	ø 80 x 40
WT-108	500W	0 - 600°C	2.0kg	327L x 175W x 120H	ø 100 x 40

Square Titanium Lead-Free Solder Pots
(P/N: W00455)



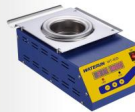
Model	Rated Power	Temperature Range	Melting Capacity	External Dimensions (mm)	Solder Bath Sizes (mm)
WT-558	300W	0 - 600°C	1.32kg	266L x 145W x 115H	55 x 55 x 45
WT-107	500W	0 - 600°C	2.3kg	327L x 175W x 115H	100 x 70 x 45
WT-118	600W	0 - 600°C	2.7kg	327L x 175W x 115H	110 x 80 x 45
WT-101	800W	0 - 600°C	3.2kg	327L x 175W x 115H	100 x 100 x 45
WT-141	900W	0 - 600°C	4.5kg	397L x 205W x 115H	140 x 100 x 45
WT-161	1000W	0 - 600°C	5.7kg	397L x 205W x 115H	160 x 110 x 45
WT-181	1200W	0 - 600°C	8.2kg	446L x 245W x 115H	180 x 140 x 45
WT-201	1500W	0 - 600°C	9.8kg	446L x 245W x 115H	200 x 150 x 45
WT-252	1800W	0 - 600°C	13.1kg	536L x 285W x 115H	250 x 160 x 45
WT-282	2000W	0 - 600°C	18.3kg	536L x 285W x 115H	280 x 200 x 45

Small Titanium Lead-Free Solder Pots
(P/N: W00456)



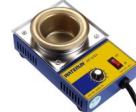
Model	Rated Power	Temperature Range	Melting Capacity	Frequency	Solder Bath Sizes (mm)
WT-360	100W	200 - 480°C	0.3kg	50 - 60Hz	ø 38
WT-360	150W	200 - 480°C	0.5kg	50 - 60Hz	ø 50
WT-380	250W	200 - 480°C	1.6kg	50 - 60Hz	ø 80
WT-310	300W	200 - 480°C	2.2kg	50 - 60Hz	ø 100

Round Stainless Steel Solder Pots
(P/N: W00457)



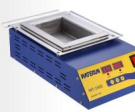
Model	Rated Power	Temperature Range	Melting Capacity	External Dimensions (mm)	Solder Bath Sizes (mm)
WT-50S	250W	0 - 400°C	0.6kg	266L x 145W x 120H	ø 50 x 40
WT-80S	400W	0 - 400°C	1.5kg	327L x 175W x 120H	ø 80 x 40
WT-100S	500W	0 - 400°C	2.0kg	327L x 175W x 120H	ø 100 x 40

Small Titanium Coating Solder Pots
(P/N: W00459)



Model	Rated Power	Temperature Range	Melting Capacity	Frequency	Solder Bath Sizes (mm)
WT-360A	100W	200 - 480°C	0.3kg	50 - 60Hz	ø 38
WT-360A	150W	200 - 480°C	0.5kg	50 - 60Hz	ø 50
WT-380A	250W	200 - 480°C	1.6kg	50 - 60Hz	ø 80
WT-310A	300W	200 - 480°C	2.2kg	50 - 60Hz	ø 100

Square Stainless Steel Solder Pots
(P/N: W00458)



Model	Rated Power	Temperature Range	Melting Capacity	External Dimensions (mm)	Solder Bath Sizes (mm)
WT-100	500W	0 - 400°C	2.6kg	327L x 175W x 120H	100 x 70 x 45
WT-150S	900W	0 - 400°C	5.7kg	397L x 205W x 120H	150 x 100 x 45
WT-180S	1200W	0 - 400°C	9.5kg	446L x 245W x 120H	180 x 140 x 45
WT-200S	1500W	0 - 400°C	11.3kg	446L x 245W x 120H	200 x 150 x 45
WT-250S	1800W	0 - 400°C	15.1kg	536L x 285W x 120H	250 x 160 x 45
WT-280S	2000W	0 - 400°C	21.2kg	536L x 285W x 120H	280 x 200 x 45

Lead-Free Heating Board
(P/N: W00460)



Model	Rated Power	Temperature Range	Platform Material	External Dimensions (mm)	Solder Bath Sizes (mm)
WT-195	300W	0 - 400°C	Aluminum Alloys	266L x 145W x 115H	90 x 90
WT-198	1000W	0 - 400°C	Aluminum Alloys	397L x 205W x 115H	190 x 150
WT-298	1500W	0 - 400°C	Aluminum Alloys	446L x 245W x 115H	250 x 200
WT-398	2000W	0 - 400°C	Aluminum Alloys	536L x 285W x 115H	300 x 250
WT-196	1200W	0 - 400°C	Aluminum Alloys	250L x 250W x 210H	200 x 200

Electric & Automatic Tools

Electric Screwdrivers

Super Value Trigger Start Type (P/N: W00501)

→ Best for general electronics, home appliances, toys assembly operations.

○ A1010L
○ A2015L
○ A3019L



Economic Trigger Start Type (P/N: W00502)

→ For laptop, integrated substrate, mobile phone, digital camera, etc.

○ A400L
○ A500L
○ A600L



Normal Trigger Start Type (P/N: W00503)

→ Small size and light weight, low noise, stable performance.

○ A4000L
○ A5000L
○ A6000L



Intelligent Brushless Trigger Start Type with Counter (P/N: W00504)

→ LED warning light allows the user to make the locking judgment more intuitively.

○ BC4000L
○ BC4500L
○ BC5500L



Features:

- It is automatic Electric Screwdriver. When the torque is locked, the clutch will automatically trig, the motor power will be automatically off and the electric screwdriver will stop running.
- Non-contact switch is used to provide a durable life in which there is no necessity to replace the item often.
- Torque adjustment is easy and convenient step-less adjustment by rotating the torque adjustment ring to the left or to the right. Speed can also be adjusted to High (Hi) or low (Lo).

Model	Measuring Range		No load speed (r.p.m)		Diameter of screw	Screw bit	Applicable screw bit
	kgf.cm	N.m	HI	LO			
A1010L	1-10	0.1-1			M1.4-M3.0	Ø4mm	A
A2015L	2-15	0.19-1.47	1000	650	M1.6-M3.0	Ø5mm	
A3019L	3-19	0.29-1.86			M2.3-M3.5	1/4 hex	
A400L	0.3-6.5	0.05-0.69			M1.2-M2.5	Ø4mm	B
A500L	2-12	0.2-1.18	1000	650	M1.6-M3.0	Ø5mm	
A600L	5-25	0.5-2.45			M2.6-M4.0	1/4 hex	
A4000L	0.3-6.5	0.05-0.69			M1.4-M2.6	Ø4mm	C
A5000L	2-12	0.2-1.18	1000	650	M1.6-M3.0	Ø5mm	
A6000L	5-25	0.5-2.45			M2.6-M4.0	1/4 hex	
BC4000L	0.3-6.5	0.05-0.69			M1.4-M2.6	Ø4mm	D
BC4500L	1-10	0.1-1	1000	650	M1.4-M3.0	Ø5mm	
BC5500L	3-19	0.29-1.86			M2.3-M3.5	1/4 hex	

BSD-101 DC Semi-Automatic (P/N: W00505)

→ Stable torque and motor. Low noise and durable.



Waterun-4000 Electric Screwdriver (P/N: W00021)

→ Brushless aerospace-graded motor, no dust, low noise and durable.



Model	Measuring Range		No load speed (r.p.m)		Input voltage	Diameter of screw	Screw bit	Applicable screw bit
	kgf.cm	N.m	HI	LO				
BSD-101	0.51-15.3	0.05-1.5	1100		36V	M1.6-M4.0	Ø5mm	A
Waterun-4000	1-5.5	0.1-0.55	1000	690	36V	M1.4-M3.5	Ø4mm	

Power Supply



Waterun CLT-50
(P/N: W00020)



Waterun CLT-50S
(P/N: W000506)



Waterun CLT-60
(P/N: W00306)

Spring Balancers

(P/N: W00239)
Model: 0.5 - 1.5kg, 0.6 - 2.0kg
1.5 - 3.0kg, 3.0 - 5.0kg



(P/N: W00507)
Weight capacity: 0.5-1.5kg
Wire travel: 1.5m



(P/N: W00240)
We supply all range of screwdriver bits.



Screwdriver Bits

Digital Torque Meters

Digital Torque Meters (Normal Type) (P/N: W00018)



- For measuring the torque setting of electric screwdrivers, torque drivers and torque wrenches;
- For quality control of plastic screws and parts.

Model	HP-10		HP-50		HP-100	
	Kgf.cm	N.m	Kgf.cm	N.m	Kgf.cm	N.m
Measurement Range	0.15-10.0	0.015-1.0	1.5-50	0.15-5	1.5-100	0.15-10
	Lbf.in	0.15-9.00	1.5-45	1.5-90		
Accuracy	within ± 0.5%					
Power Source	chargeable 1.2V NiCd cell x 5					
Dimensions (mm)	230 (W) x 123 (D) x 65 (H)					

HIT Series Digital Torque Meters (Split Type) (P/N: W00463)



- Specially designed for management of torque for impact drivers.
- First peak measuring mode (F-PEAK) gives precision measurements of torque wrenches or other tools.
- Confirm peak, FP mode value by buzzer.

Model		HIT-10	HIT-100	HIT-300	HIT-500
Measurement Range	Kgf.cm	0.15-10.0	1.5-100.0	10.0-300.0	15.0-500.0
	N.m	0.015-1.0	0.15-10.0	1.0-30.0	1.5-50.0
Accuracy		within ± 0.5%		within ± 1.0%	
Measuring Modes		Peak, Track, First Peak			
Dimensions (mm)		123 (W) x 230 (D) x 65 (H)			

HDP Series Screw Torque Meters (P/N: W00464)



- Specially designed for management of torque for tightening screws.
- Memory function makes saving and managing of torque data possible.
- Automatically recalibrated to zero value.

Model	HDP-5		HDP-50		HDP-100	
	Kgf.cm	N.m	Kgf.cm	N.m	Kgf.cm	N.m
Measurement Range	0.03-5.0	0.015-0.5	0.15-50.0	0.015-5.0	0.2-100.0	0.02-10.0
	Lbf.in	0.03-4.8	0.15-50.0	0.15-50.0	0.2-100.0	
Accuracy	within ± 0.5%					
Detector Bit Socket	H4 or 1/4 HEX, H5 or 1/4 HEX					

Digital Torque Meters (Intelligent Type) (P/N: W00461)



- Wide measuring range, high accuracy.
- There are three measuring modes: Peak, Track, F. Peak.
- It can display the maximum and average torque value.
- A built-in o/p terminal can be connected to the computer for recalling, editing, and calculating measured datum.

Digital Torque Meters (Third Generation) (P/N: W00462)



- New design with simplified operation, cost effective.
- The attached measuring joint can be run clockwise or counter-clockwise to measure the o/p torque with usual bit and the measured value will be cleared in setting time automatically.

Bottle Cap Torque Meters (P/N: W00465)



- Specially designed for measuring and calibrating the torque of bottle caps.
- The clamp is easy to install and adjust. It can hold caps of different shapes and different dimensions.
- Applicable Cap Diameter: 16-160mm

Model	HP-2		HP-10		HP-20		HP-50		HP-100	
	Kgf.cm	N.m	Kgf.cm	N.m	Kgf.cm	N.m	Kgf.cm	N.m	Kgf.cm	N.m
Measurement Range	0.03-2.0	0.003-0.2	0.15-10.0	0.015-1.0	0.2-20.0	0.02-2.0	0.75-50.0	0.075-5.0	1.5-100.0	0.15-10.0
	Lbf.in	0.03-1.8	0.15-9.0	1.5-9.0	0.20-18.0		0.75-45.0		1.5-90.0	
Accuracy	within ± 0.5%									

Automatic Tape Dispensers

Waterun-1000
(P/N: W00015)

Power	18W
Cutting Length	20 - 99mm
Cutting Width	7 - 50mm
Dimensions	137 x 218 x 150mm
Weight	3.0 Kg

Waterun-1000S
(P/N: W00242)

Power	18W
Cutting Length	5 - 99mm
Cutting Width	7 - 50mm
Applicable tape dia	75mm/32mm/25mm

Waterun RT-5000
(P/N: W00243)

Power	35W
Cutting Length	5 - 99mm
Cutting Width	5 - 50mm

Waterun-2500
(P/N: W00244)

Power	35W
Cutting Length	5 - 99mm
Cutting Width	5 - 50mm

Waterun-3000
(P/N: W00245)

Power	18W
Cutting Length	5 - 99mm
Cutting Width	7 - 55mm

→ Adjust the tape length freely.
→ With the length setting memory function.

→ It can set 3 sections with 3 different cutting length.
→ By adding a fixing bracket, two or three tapes can be cut together.

→ Applicable for tapes of any diameter.
→ Applicable tapes: adhesive tape, protective film, thermal control pipe, etc.

→ For tapes with inner diameter 75mm, two rolls of tapes can be cut at the same time.
→ With finger safety protection.

Waterun Z-CUT2
(P/N: W00241)

Power	160W
Cutting Length	11 - 58mm
Cutting Width	3 - 22mm
Applicable tape dia	75mm / 32mm / 25mm

Waterun Z-CUT9
(P/N: W00466)

Cutting Length	5 - 99mm
Cutting Width	6 - 60mm
Dimensions (mm)	116W x 140H x 213L
Max outer dia. of the tape roll	300mm
Weight	2.5 Kg

Waterun Z-CUT10
(P/N: W00467)

Power Consumption	126W
Cutting Length	15 - 70mm
Cutting Width	3 - 25mm
Max outer dia. of the tape roll	150mm
Dimensions (mm)	126W x 258D x 150L

Waterun Z-CUT80
(P/N: W00613)

Cutting Width	8 - 80mm
Cutting Length	20 - 99mm
Max dia. of tape roll	300mm
Weight	5.5 Kg
Dimensions (mm)	230W x 190D x 140H

Automatic Label Dispensers

X-100 / X-130 / X-190
(P/N: W00508)

X-100 / X-130



X-190

Features:

- Low failure rate, best choice for small labels and small work areas.
- Quick and easy to dispense individual labels.
- Automatic counting range: 0 - 9999
- Label types: self-adhesive labels, bar codes, security labels, packaging labels
- Applicable industries: electronics manufacturing, chemical industry, food processing industry, logistics and distribution industry

Model	X-100	X-130	X-190	WT-118C
Dimensions (mm)	136W x 174H x 280L	166W x 174H x 280L	221W x 174H x 280L	286W x 368H x 355L
Speed	130mm / sec	130mm / sec	130mm / sec	0-255mm / sec
Label Width	5 - 100mm	5 - 130mm	5 - 185mm	4 - 120mm
Max Dia	250mm	250mm	250mm	200mm
Weight	3.6 Kg	4.1 Kg	5.6 Kg	6.2 Kg

WT-118C
(P/N: W00509)

Automatic Screw Feeders

Waterun-800
(P/N: W00247)

DC power supply	AC220V, DC12V 500MA, AC Adapter
Applicable screw length (under head)	up to 20mm
Rail adjustment range	M1.0 - M5.0
Speed of picking up	1.5 sec / piece

Waterun-800D
(P/N: W00318)

Screw counting function with LED display:	
→ Increasing or decreasing counting selectable:	
→ Rail can be removed and adjustable;	

Waterun-900
(P/N: W00317)

Applicable screw size	M1.0 - M3.9
Applicable screw length	up to 20mm

Waterun-900D
(P/N: W00468)

A newly designed screw feeder never gets jammed with screws.



→ Rail adjustment range: M1.0-M5.0	
→ With self-detecting system for machine breakdown.	
→ Convenient to operate and fix the problem by the operator.	
→ Digital display prevents error counting.	
→ Automatic circular counting with fixed quantity	
→ Increasing or decreasing counting is selectable.	

Dispensing Controllers

B-800
Dispensing Controller
(P/N: W00248)

Model	B-800
Power Consumption	8W
Air Source	max 0.99 Mpa
Pressure Setting	0.05 - 0.99 Mpa
Time Setting	DIP switch 0.01 - 1s; 0.1 - 10s; 0.2 - 20s; 0.3 - 30s
Control Mode	Manual / Quantitative (fixed volume dispensing)
Repetitive Accuracy	± 0.05%
Dispensing Frequency	600/min
Min. dispensing Volume	0.01ml
Dimension	235mm x 225mm x 63mm
Weight	2.2kg

→ Usage: adhering, fixing, dot coating, line coating, etc.
→ Materials for dispensing: UV adhesive, lubricant, epoxy resin, fast cure adhesive, silicone resin, etc

B-A6
High-Precision Multi-functional
Dispensing Controller
(P/N: W00251)

Model	B-A6
Power Consumption	12W
Air Source	max 0.99 Mpa
Pressure Setting	0.05 - 0.99 Mpa
Time Setting	0.01 - 99.99s; 0.001 - 9.999s
Control Mode	Manual / 16 freely set modes
Repetitive Accuracy	± 0.01%
Dispensing Frequency	> 1000/min
Min. dispensing Volume	0.0001ml
Dimension	235mm x 225mm x 63mm
Weight	3kg

Adapters & Barrels

TE Green Adaptor
(P/N: W00301)

→ Equivalent to EFD brand;
→ 3cc, 5cc, 10cc, 30cc, 55cc

**TE Yellow Adaptor**
(P/N: W00302)

→ Equivalent to EFD brand;
→ 3cc, 5cc, 10cc, 30cc, 55cc

**TS White Adaptor**
(P/N: W00303)

→ 5cc, 10cc, 30cc, 55cc

**TS Grey Adaptor**
(P/N: W00304)

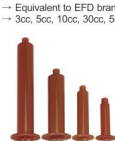
→ Equivalent to Musashi brand;
→ 5cc, 10cc, 30cc, 55cc

**TE Transparent Barrel**
(P/N: W00255)

→ Equivalent to EFD brand;
→ 3cc, 5cc, 10cc, 30cc, 55cc

**TE Light Amber UV-Resistant Barrel**
(P/N: W00256)

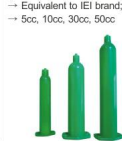
→ Equivalent to EFD brand;
→ 3cc, 5cc, 10cc, 30cc, 55cc

**TE Black UV-Resistant Barrel**
(P/N: W00257)

→ Equivalent to EFD brand;
→ 3cc, 5cc, 10cc, 30cc, 55cc

**TS Green UV-Resistant Barrel**
(P/N: W00259)

→ Equivalent to IEI brand;
→ 5cc, 10cc, 30cc, 55cc

**EFD Transparent Barrel**
(2nd Generation)
(P/N: W00510)

→ 5cc, 10cc, 30cc, 55cc

**TS Transparent Barrel**
(P/N: W00258)

→ Equivalent to IEI brand;
→ 5cc, 10cc, 30cc, 55cc

**TS Transparent Barrel**
(P/N: W00305)

→ Equivalent to Musashi brand;
→ 5cc, 10cc, 30cc, 55cc

**Static Mixing Barrels**
(P/N: W00470)

→ Provide an even mixing of two-part materials without the hassle of hand mixing.

**Plastic Supporter Accurate
Dispensing Needles**
(P/N: W00261)

Specification	Inner diameter	Diameter	Color
14G	1.55mm	2.10mm	Olive
15G	1.36mm	1.80mm	Amber
18G	0.84mm	1.27mm	Green
20G	0.60mm	0.91mm	Pink
21G	0.51mm	0.82mm	Purple
22G	0.41mm	0.72mm	Blue
23G	0.34mm	0.64mm	Orange
25G	0.26mm	0.51mm	Red
27G	0.21mm	0.41mm	Original
30G	0.16mm	0.31mm	Light Purple
32G	0.11mm	0.23mm	Yellow
34G	0.06mm	0.19mm	Snow Cyan

Stainless Steel Syringe Needles
(P/N: W00262)

Specification	Single needles Inner diameter	Diameter	Twin / multiple needles Inner diameter	Diameter
15G	1.45mm	1.81mm	-	-
16G	1.25mm	1.61mm	-	-
17G	1.12mm	1.48mm	-	-
18G	0.90mm	1.26mm	0.86mm	1.22mm
19G	0.70mm	1.06mm	0.68mm	1.00mm
20G	0.58mm	0.88mm	0.58mm	0.91mm
21G	0.51mm	0.81mm	0.49mm	0.83mm
22G	0.41mm	0.71mm	0.39mm	0.72mm
23G	0.33mm	0.63mm	0.32mm	0.63mm
24G	0.30mm	0.55mm	0.29mm	0.57mm
25G	0.26mm	0.51mm	-	-

Plastic Declining Syringe Needles
(P/N: W00263)

Specification	Inner diameter	Color	Packing (pcs)
14G	1.55mm	Olive	100 / pkt
16G	1.20mm	Grey	100 / pkt
18G	0.84mm	Green	100 / pkt
20G	0.60mm	Pink	100 / pkt
22G	0.41mm	Blue	100 / pkt
25G	0.26mm	Red	100 / pkt
27G	0.21mm	Orange	100 / pkt

Teflon Syringe Needles
(P/N: W00264)

Specification	Inner diameter	Color
18G	0.84mm	Grey
20G	0.60mm	Pink
25G	0.26mm	Red

PP Flexible Syringe Needles
(P/N: W00354)

Specification	Inner diameter	Color
14G	1.55mm	Olive
15G	1.20mm	Amber
18G	0.80mm	Green
20G	0.60mm	Pink
22G	0.40mm	Blue
25G	0.30mm	Red

SMT Auxiliary Equipment

PCB Separator

ST-601BB
(P/N: W00529)



Features:

- With triple protection devices, safe and reliable.
- The adoption of 48V DC motor makes the cutting process more quiet and energy saving.
- The patented device of lower blade adjustment ensures more convenient blade replacement and higher precision.
- Imported trail ensures the cutting precision to be within 0.04 mm.
- 4 different cutting speeds can meet the processing requirements of different products.
- The function of cutting back and forth can meet the cutting requirement of those low stress products.
- With statistical function of the cutting blade lifetime.
- With the special upper circular blade, it can cut the aluminum substrates.

Model	ST-601BB	ST-601C
Power Supply	110V /220V AC 60Hz /50Hz	110V /220V AC 60Hz /50Hz
Maximum Cutting Length	460mm	no limit
Cutting Speed Setting	300mm/S, 400mm/S, 500mm/S, 600mm/S	manual control
PCB Thickness	0.6mm - 2.5mm	0.7mm - 3.2mm
Dimensions	L755 x W520 x H455 (mm)	L390 x W380 x H430 (mm)
Weight	56 Kg	19.4 Kg

ST-601C (P/N: W00634)



New

Solder Paste Mixer

WT-368
(P/N: W00530)



Features:

- Triple safety design ensures personal safety: door lock, proximity switch, and electromagnet.
- Only need to keep clean, no need for other maintenance; stable running with low noise.
- LED digital display, light and buzzer warning, simple and clear.

Dimensions	420W X 420D X 427H mm
Motor Power	60W
Revolution Speed	600-1350 RPM /Min
Rotation Speed	105 RPM /Min
Mixing Method	forced mixing
Time Setting	0.1-9.9 Mins
Mixing Capacity	2pcs solder paste tank (500g)
Weight	32 Kg

SMD Counter

WT-901S
(P/N: W00531)



Features:

- Fully automatic way to count SMD components, high precision without error counting.
- Countable in both forward and reverse directions, with double check function.
- Easy to operate, unique pocket falling-proof design minimizes the damage to the SMD carrier.
- Suitable for all kinds of SMD reels.

Power Source	Universal voltage AC110-220V, 50Hz, 40W
Counting Scope	-99999 - 99999 PCS
Dimensions	350L X 774W X 184H mm
Weight	10 Kg

ESD Turnstile System

ESD Access Turnstile System
(P/N: W00614)



Flap Barrier Turnstile



Tripod Turnstile

New

Features:

The ESD Access Turnstile System verifies the effectiveness of the ESD gear of an operator - wrist strap and foot wear with just a push of a button. Testing is completed in less than 2 seconds. Only upon passing this ESD testing, will the personnel be allowed entry into an ESD sensitive area.

The system mainly consists of turnstile + human body comprehensive tester + reader card (IC or ID card), + LCD display + management software + administrator host (company's existing computer).

According to different needs, four individual clearance levels can be chosen as below:

- L1. VIP, free of test;
- L2. IC Card + anti-static wrist strap;
- L3. IC Card + anti-static shoes or heel strap;
- L4. IC Card + anti-static wrist strap + anti-static shoes or heel strap

Specifications:

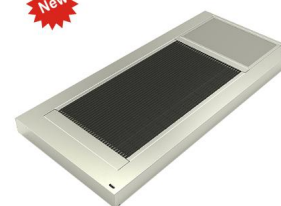
Test Range:

for wrist strap: 0.75 - 20 Meg Ohms
for footware: 0.75 - 100 Meg Ohms

Test Accuracy: $\pm 5\%$

Sole Cleaning Machine

New



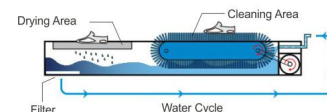
Sole Cleaning Machine (Wet Clean)
(P/N: W00615)

Sole cleaning machine is mainly used for cleaning the bottom of shoes, so as to keep unclean dusts away from the clean area.

It adopts the belt brush and circulating water cleaning mode.

It can be used in many industries, such as electronics, pharmaceuticals industry, food processing, beverage processing, hospital lab, precision machinery, etc.

Machine Overall Dimensions	1838 x 768 x 135
Cleaning Area Dimensions	1110 x 530
Drying Area Dimensions	370 x 515
Material of Drying Pad	PVA / PU Sponge
Overload Capacity	400Kg
Weight	90Kg
Water Tank Capacity	30L
Motor Power	180W
Number of People Used	< 200



- Driven by the motor, the circular brush cleans the sole continuously with clean water.
- Clean water flushes the brush and dirty water is discharged.
- The drying pad absorbs the water on the sole.



Spring Separator

WT-2122
(P/N: W00616)

Spring Separator is used for separating small coiled springs which are twined and twisted together. Its work principle is to separate the springs from one another by the centrifugal vibration.

Features:

- Easy to operate, efficient and time-saving.
- Light-weight, easy to move and place.
- After separation, the springs have no out-of-shape, no coating falling-off.
- Suitable for coiled springs



Outer Diameter of the Spring	2 - 12mm
Diameter of the Spring wire	0.45 - 1.5mm
Free Length of the Spring	2 - 20mm
Material of Outer Case	ABS resin
Weight	< 2.4Kg
Dimensions	130 x 200 x 250mm

Ionizers & ESD Testers

Ionizing Air Blowers

SL-001
Bench Top Ionizing Air Blower
(P/N: W00038)



Current Consumption	0.25A / 0.12A
Air Coverage	40cm x 60cm
Size (mm)	190(L) x 110(W) x 245(H)
Weight	3 Kg
Air Volume	45 ~ 110CFM

SL-002
Overhead Ionizing Air Blower
(P/N: W00037)



Current Consumption	0.9A / 0.45A
Air Coverage	40cm x 80cm
Size (mm)	600(L) x 170(W) x 116(H)
Weight	4.8 Kg
Air Volume	80 ~ 220CFM

SL-003
Overhead Ionizing Air Blower
(P/N: W00036)



Current Consumption	0.9A / 0.45A
Air Coverage	40cm x 120cm
Size (mm)	1100(L) x 170(W) x 125(H)
Weight	6.6 Kg
Air Volume	120 ~ 330CFM

SL-1104
Overhead Ionizing Air Blower
(P/N: W00200)



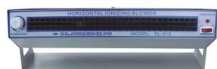
Current Consumption	1.3A / 0.65A
Size (mm)	1100(L) x 170(W) x 125(H)
Weight	8.1 Kg
Air Volume	180 ~ 420CFM

SL-1205
Overhead Ionizing Air Blower
(P/N: W00201)



Current Consumption	2.0A / 1.0A
Size (mm)	930(L) x 200(W) x 180(H)
Weight	14.5 Kg
Air Volume	200 ~ 410CFM

SL-010
Bench Top Ionizing Air Blower
(P/N: W00035)



Current Consumption	3.3A / 1.65A
Air Coverage	60cm x 60cm
Size (mm)	570(L) x 255(W) x 125(H)
Weight	8.6 Kg
Air Volume	45 ~ 190CFM

SL-028
Bench Top Ionizing Air Blower
(P/N: W00202)



Current Consumption	3.2A / 1.6A
Size (mm)	460(L) x 285(W) x 155(H)
Weight	7.8 Kg
Air Volume	70 ~ 120CFM

DC-001B
DC Ionizing Air Blower
(P/N: W00203)



Current Consumption	0.08A / 0.04A
Limited Power	≤ 15W
Air Volume	50 ~ 90CFM
Air Coverage	300mm x 300mm
Size (mm)	190(L) x 70(W) x 195(H)
Weight	1.8 Kg
Ion Balance	≤ ± 5V

DC-002
DC Ionizing Air Blower
(P/N: W00204)



Current Consumption	0.16A / 0.08A
Air Coverage	40cm x 80cm
Size (mm)	690(L) x 170(W) x 90(H)
Weight	3 Kg
Air Volume	100 ~ 170CFM

DC-003
DC Ionizing Air Blower
(P/N: W00205)



Current Consumption	0.18A / 0.09A
Air Coverage	40cm x 120cm
Size (mm)	1070(L) x 170(W) x 90(H)
Weight	3.9 Kg
Air Volume	150 ~ 270CFM

SL-801D
DC Ionizing Air Blower with
Warning Function
(P/N: W00206)



Warning function:
It buzzes when
ion balance is
higher than ± 25V.

Current Consumption	0.08A / 0.04A
Size (mm)	108(L) x 95(W) x 200(H)
Weight	1.4 Kg
Air Volume	50 ~ 90CFM
Limited Power	≤ 15W
Ion Balance	≤ ± 5V

SL-111D
Mini DC Ionizing Air Blower
(P/N: W00207)



The body is extremely
light and small,
suitable for constrained
working areas.

Current Consumption	0.04A / 0.02A
Limited Power	≤ 3.6W
Coverage Range	120cm x 120cm
Weight	Switch Box: 0.79Kg, Blower: 0.29Kg, Stand: 1.2Kg
Ion Balance	≤ ± 5V
Size (mm)	150(L) x 145(W) x 40(H)

Features:

- Ion balance display
- Automatic cleaning function for ion pins, cleaning time (0-99 hours) and frequency setting (0-5) /time.
- Unique power on/off function, energy saver, when power off, CPU not working, it is not the normal shutdown which CPU still working.
- Warning function setting (0-±199V), once it is out of the standard ion balance, a warning will be given by a beep and display flashes.
- Fan Abnormal Warning function
- Balanced voltages warning function

DC-001C
(P/N: W00493)



DC-001D
(P/N: W00494)



DC-001Z
(P/N: W00495)



Model	DC-001C	DC-001D	DC-001Z
Power Consumption	DC24V	DC24V	DC24V
Current Consumption	0.2 ~ 0.4A	0.1 ~ 0.2A	0.3 ~ 0.65A
Air Volume	48 CFM	48 CFM	110 CFM
Operation Temperature	0 ~ ± 50°C	0 ~ ± 50°C	0 ~ ± 50°C
Power	≤ 10W	≤ 5W	≤ 18W
Air Coverage	30 x 30 x 60 mm	30 x 30 x 60 mm	150 x 150 x 500 mm
Dimensions	128 x 56 x 150 mm	128 x 53 x 138 mm	140 x 75 x 170 mm
Ozone Volume	0.03 PPM	0.03 PPM	0.03 PPM
Ion Balance	self-balance	± 5V	self-balance

Intelligent Ionizers

SL-101
(P/N: W00617)



Remote Control

SL-102
(P/N: W00618)



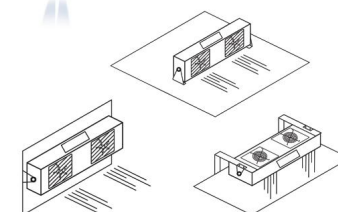
SL-103
(P/N: W00619)



Features:

- New design, great appearance and workmanship.
- Emitter brush auto-cleaning function
- Double control available: remote control & touch screen control.
- Sound and light alarm function for high voltage fault.
- During working, in case the fan meets any obstacles, the ionizer will stop working automatically.
- Fast ionizing speed, low ion balance, energy saving.

Model	SL-101	SL-102	SL-103
Power	30W	50W	50W
Wind Rate	≤ 5.1m³ / min (with 300mm distance)		
Ionizing Speed	≤ 2s (with 300mm distance)		
Working Distance	100 ~ 600mm		
Ion Balance	≤ ± 10V (with 300mm distance)		
Air Velocity	45 ~ 110CFM	80 ~ 220CFM	120 ~ 330CFM
Work Environment	Temperature: 0 ~ 50°C Humidity: 56% ~ 10%		
Noise Level	45 ~ 55dB	45 ~ 55dB	45 ~ 60dB
Net Weight	~ 2.7kg	~ 4.5kg	~ 7.0kg
Dimensions	L146 x W88 x H222mm	L550 x W150 x H80mm	L1000 x W150 x H80mm



Installation Methods

Ionizers

G4000
Ionizing Air Gun
(P/N: W00122)

- Fast static elimination, easy to clean tiny sensitive parts & materials.
- The handle is light with soft feel.
- Output voltage: 4kV±7%
- It needs to be ordered in one set (including the power supply).

SL-004
Ionizing Air Gun
(P/N: W00032)

Designed for focused cleaning and neutralization. Operate with SL-007 Power Supply.

Operating Voltage	4.6 kV
Current Consumption	350 μA
Weight	0.5 Kg
Air Pressure	40 ~ 70psi
Air Velocity	10m /sec

SL-004H
Ionizing Air Gun
(P/N: W00210)

Light plastic gun body, coaxial shielding cable. Operate with SL-007 Power Supply.

Operating Voltage	4.6 kV
Current Consumption	350 μA
Weight	0.5 Kg
Air Pressure	40 ~ 70psi
Air Velocity	10m /sec

SL-004G
Ionizing Air Gun
(P/N: W00443)

Equivalent to Japan SSD Ion Gun model: AGZ-II

Input Voltage	DC 24V
Output Voltage	Approx. 2kV
Safety Circuit	for HV abnormal with alarm signal output
Air Pressure Range	0.05 ~ 0.6 MPa
Weight	280g (main body)
Ion-Balance	within ±15V

SL-280
Hawk Gun
(P/N: W00031)

- Forceful blast of ionizing air flow to eliminate dust and static charge.
- Adjustable air flow.
- Ergonomic and light weight design with filter.
- Suitable for use in class 100 cleanroom.

SL-005
Ionizing Air Nozzle
(P/N: W00030)

It neutralizes charges in very specific areas like inaccessible spots.
It can be conveniently installed onto a fixed work station.
Air nozzle has an effective area of 1,000mm.
Operate with SL-007 Power Supply.

SL-005C
Ionizing Air Nozzle
(P/N: W00029)

It is a hand-free, flexible nozzle which can be positioned to produce a clean ionized stream to a target surface.
SL-005C operates with SL-007 Power Supply.
SL-005CF operates with SL-007DC Power Supply.

Operating Voltage	4.6 kV
Current Consumption	350 μA
Air Pressure	40 ~ 100 psi
Air Velocity	10m /sec
Effective Area	1,000mm

SL-005CF
Ionizing Air Nozzle with Sensor
(P/N: W00211)**SL-080A**
Ionizing Air Snake
(P/N: W00212)

Adjustable air volume, balance voltage: 0V ± 30V
SL-080A operates with SL-007 Power Supply;
SL-080AF with SL-007DC Power Supply.

Operating Voltage	4.6 kV
Current Consumption	350 μA
Weight	1.6 Kg
Length of Hose	32.5 cm
Air Pressure	40 ~ 70psi
Air Velocity	10m /sec
Discharge Time (5000V-500V at 15cm)	≤1.5s

SL-080AF
Ionizing Air Snake with Sensor
(P/N: W00213)**SL-011**
Static Bar
(P/N: W00214)

Aluminium casing, electric shock proof design.

Model	SL-011
HV Cable Length	3 m
Max & Min Length	2000mm / 200mm
Current Consumption	0.52mA
Power Supply	SL-009

SL-040
Ionizing Air Bar
(P/N: W00215)

It produces ions with high velocity air to neutralize static charge.
Aluminium casing, electric shock proof design.

Model	SL-040
HV Cable Length	3 m
Max & Min Length	2000mm / 200mm
Current Consumption	0.04mA
Power Supply	SL-009

SL-041
Ionizing Air Outrain
(P/N: W00216)

Eliminate statics and blow off dust.
Aluminium casing, electric shock proof design.

Model	SL-041
HV Cable Length	3 m
Max & Min Length	2000mm / 200mm
Current Consumption	0.6mA
Power Supply	SL-009

SL-006A
Conpper Ionizing Air Bar
(P/N: W00217)

Rigid copper casing; neutralize static charges with air assistance.
Suitable for harsh working conditions.

Operating Voltage	5.6Kv
Current Consumption	230μA / M
Max & Min Length	2000mm / 200mm
Air Consumption	10LPM / hole
Power Supply	SL-008

SL-007 / 008 / 009
Power Supply (P/N: W00039)

Model	SL-007	SL-008	SL-009
Input Voltage	110V / 60Hz or 220V / 50Hz	110V / 60Hz or 220V / 50Hz	110V / 60Hz or 220V / 50Hz
Input Current	0.22A - 0.11A	0.27A - 0.13A	0.32A - 0.16A
Operating Temperature	0°C ~ 50°C	0°C ~ 50°C	0°C ~ 50°C
Weight	3 kg	3 kg	3 kg
Length of Cable	2m	2m	2m

ESD Testers

Waterun-568 WiFi
Wrist Strap On-Line Monitor
(P/N: W00620)

- With wireless communication function, easy to install.
- It can monitor 4 wrist straps at the same time.
- The LCD display shows the resistance value, IP address, and the networking status.
- The real time monitoring can be shown, recorded and tracked on the computer.
- One computer can monitor up to 100 pcs of Waterun-568 WiFi.
- Induction switch is an option.



Monitoring wrist strap grounding status

The detection distance of the sensor is adjustable (10 ~ 100cm).

Waterun-569 WiFi
Equipment Grounding On-Line Monitor
(P/N: W00621)

- With wireless communication function, easy to install.
- With 4 monitoring points, it can monitor the grounding status of 6 equipments at the same time.
- The LCD display shows the resistance value, IP address, and the networking status.
- The real time monitoring can be shown, recorded and tracked on the computer.
- One computer can monitor up to 100 pcs of Waterun-569 WiFi.



Monitoring equipment grounding status

Model	Operating Voltage	Operating Current	Monitoring Resistance	Monitoring Accuracy	Open-circuit Voltage	Scanning Frequency
Waterun-568 WiFi	DC9V	500mA	750KΩ-35MΩ	5%	≅ 2.5V	20mS-9999mS
Waterun-568 WiFi	DC9V	100mA	0-10Ω	±0.1Ω	≅ 0.4V	20mS-9999mS

Waterun-518
Wrist Strap On-Line Monitor
(P/N: W00044)
(for monitoring one wrist strap)

- Features:**
- No checking is required.
 - Instant warning of wrist strap failure increases production efficiency.
 - Highly reliable, easy and convenient to use.

Waterun-519
Wrist Strap On-Line Monitor
(P/N: W00043)
(for monitoring two wrist straps)

- Specifications:**
- Input: 6V DC
 - Dimensions (for 518): 67 x 60 x 29mm
 - Dimensions (for 519): 110 x 60 x 29mm

Waterun-498
Wrist Strap Tester
(P/N: W00046)

- Touching the mat with your hand when grounding wire is connected.
- The green "Good" indicator will be on and buzzing when you have a safe grounding system.

SL-030
Surface Resistance Meter
(P/N: W00041)

SL-030 is an ultra wide-range, battery-operated, portable instrument for measuring surface resistance.

Dimensions	137mm x 76mm x 30mm
Weight	120g
Accuracy	± 1/2 decade
Repeatability	± 5%

SL-032
Dual Footwear / Wrist Strap Tester
(P/N: W00196)

SL-032 is a 3-stage touch tester designed for fast, frequent testing of personnel grounding device. Fast testing separately for wrist straps and grounder test units. Easy to operate.

FMX-003
Electrostatic Fieldmeter
(P/N: W00532)

FMX-003 is a compact electrostatic fieldmeter used for locating and measuring static charges. Its pocket size and three-button operation makes it convenient and easy to use.

Power	9V, 6F22Y manganese battery
Distance	1"±1/8" (25 mm ±0.5 mm); (LEDs guide for correct distance)
Accuracy	20 kV ±10 %
Measurement	AUTO: 0 ~ ±1.49 kV (low range); ±1.0 kV to ±30.0 kV (hi range) LOW Range: 0 ~ ±3.00 kV
	HI Range: 0 ~ ±30.0 kV Ion Balance: 0 ~ ±300V

SL-069
Megohm Meter
(P/N: W00403)

- Measures resistivity, temperature and humidity;
- As humidity and temperature affect resistivity, they must be measured.
- High quality, high precision and high reliability.

Dual test voltage	10V or 100V
Resistivity range	10 ¹ -10 ¹⁷ /square
Resistance range	10 ¹ -10 ¹⁷ Ω
Relative humidity	10% - 90%RH
Temperature	0°C - 37.7°C (32°F - 100°F)

Magnifying Lamps & Microscopes

Magnifying Lamps

Economic Version

Advanced electronic ballast:
Optical glass lens for shadow free illumination;
LED and Fluorescent Bulb type are available

Input Voltage	110V 60Hz / 220V 50Hz
Power	22W
Magnifications	3X, 5X, 8X, 10X, 20X
Dia of lens	125mm

86A
(P/N: W00512)



86B
(P/N: W00513)



86C
(P/N: W00514)



802L
(P/N: W00515)



LED Type
Long reach swing arm
90V~240V, 50~60Hz (wide voltage range)

Lens Size	5 inch (Dia. 127mm)
Lens Material	Glass
Diopter	5D / 8D
Light Source	48 LED /SMD

804L
(P/N: W00516)



LED Type
90V~240V, 50~60Hz (wide voltage range)

Lens Size	5 inch (Dia. 127mm)
Lens Material	Glass
Diopter	5D
Light Source	48 LED /SMD

8611 / 8611L
(P/N: W00010)



8611 & 8611B (Fluorescent Bulb Type)

Lens material	Glass
Lens Size	3.5"
Diopter	3D (big lens) 8D (small lens)
Light source	11W bulb

8611B / 8611BL
(P/N: W00266)



8611L & 8611BL (LED Type)

Light Source	60 LED
Wide Voltage	100~240V
Power	3.5W
Luminance	1100 Lux

601L
(P/N: W00519)



LED Type
90V~240V, 50~60Hz (wide voltage range)

Lens Size	3.5 inch (Dia. 90mm)
Lens Material	Glass
Diopter	3D
Light Source	18 LED /SMD

806L
(P/N: W00641)



LED Type (Slim Design)
Swing arm & table clamp,
Touch control dimmer switch,
Color temperature adjustable (optional)

Lens Size	5 inch (Dia. 125mm)
Lens Material	Acrylic
Diopter	3D
Light Source	36 LED /SMD

807L
(P/N: W00517)



LED Type (Super Slim)
90V~240V, 50~60Hz (wide voltage range),
With removable lens cover

Lens Size	6.7 inch (Dia. 170mm)
Lens Material	Glass
Diopter	3D / 5D
Light Source	56 LED /SMD

603L
(P/N: W00639)



LED Type (Slim Design)

Touch control dimmer switch,
Color temperature adjustable (optional)

Lens Size	4 inch (Dia. 100mm)
Lens Material	Glass
Diopter	3D
Light Source	24 LED /SMD

608L
(P/N: W00520)



LED Type

With flexible arm,
90V~240V, 50~60Hz (wide voltage range)

Lens Size	4 inch (Dia. 100mm)
Lens Material	Glass
Diopter	3D
Light Source	18 LED /SMD

609L
(P/N: W00640)



LED Type (Modern Slim Design)

Touch control dimmer switch,
Color temperature adjustable,
Adjustable metal arm

Lens Size	5 inch (Dia. 127mm)
Lens Material	Large acrylic lens
Diopter	3D
Light Source	66 LED /SMD

808L
(P/N: W00642)



LED Type

Durable aluminum die-casting
light housing,
Long reach swing arm

Lens Size	6 inch (Dia. 150mm)
Lens Material	Glass
Diopter	3D
Light Source	48 LED /SMD

809L
(P/N: W00518)



LED Type (Square)

90V~240V, 50~60Hz (wide voltage range)
With removable lens cover

Lens Size	7.5 x 6.2 inch
Lens Material	Glass
Diopter	3D
Light Source	62 LED /SMD

Microscopes

XTX-3 Series

Step Stereo Microscope
(P/N: W00321)



- Sharp stereo erect image over a wide field of view.
- 45° inclined binocular head with locked-in eyepiece.
- The left ocular-tube with diopter adjustment ± 5 dp. The interpupillary distance is between 55-75mm.
- 3 kinds of 180° rotatable objectives for selection: 1x/2x, 1x/3x, 2x/4x.

ZTX-10/20 Series

Stereo Microscope
(P/N: W00322)



- Sharp stereo erect image over a wide field of view.
- 45° inclined and 360° rotatable binocular head with locked-in eyepiece. The left ocular-tube with diopter adjustment ± 5 dp. The interpupillary distance is between 55-75mm.
- 3 kinds of 90° rotatable objectives for selection: 1x/2x, 1x/3x, 2x/4x.

ZTX-E Series

Zoom Stereo Microscope
(P/N: W00323)



- As a binocular or trinocular stereo microscope, it can zoom magnify the micro object and get an erect image.
- 45° inclined and 360° rotatable binocular head with locked-in eyepiece. Both ocular-tube with diopter adjustment ± 5 dp. The interpupillary distance is 55-75mm.
- Zoom objective: 1x-4x

LCD-550

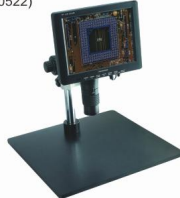
LCD Microscope
(P/N: W00521)



- The image can be easily viewed by many people on monitor at the same time.
- Viewing on the monitor can reduce the tiredness caused by long time observation.
- The magnification can be zoomed non-step.
- LCD-550: Eyepiece 0.7X-5.5X / Total Magnification: 10X-85X;
- LCD-600: Eyepiece 0.65X-6.0X / Total Magnification: 11X-102X

LCD-600

LCD Microscope
(P/N: W00522)



ZTX-3S-C2

Digital Microscope
(P/N: W00523)



- Can provide high resolution and sharp image.
- With built-in CMOS software, it is very easy for demonstration and analysis.
- It is widely used in educational field and electronics industry.

Spare Parts for Microscope

RFL8-2 (8W)

Fluorescent Ring Light
(P/N: W00381)



RFL10-2 (10W)

Fluorescent Ring Light
(P/N: W00382)



RFL10-2T (10W)

Fluorescent Ring Light
(P/N: W00383)



LED-48T (LED 48pcs)

LED Ring Light
(P/N: W00384)



LED-60T (LED 60pcs)

LED Ring Light
(P/N: W00388)



LED-64T (LED 64pcs)

LED Ring Light
(P/N: W00524)



RFL8 (8W)

Fluorescent Ring Lamp
(P/N: W00386)



Square Illumination

(P/N: W00389)
(110V/9W or 220V/9W)



Outer-Connected Illumination

(P/N: W00390)
(6V/6W or 12V/10W)



Dual Goose LED light

(P/N: W00391)

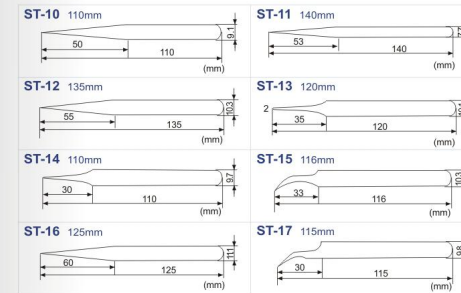


Tweezers & Pliers

Tweezers

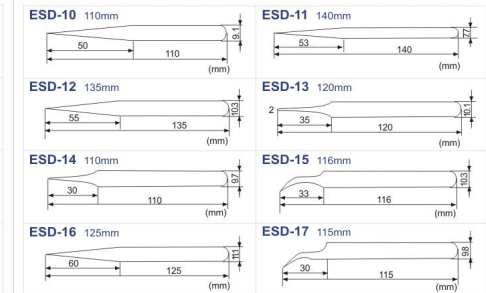
ST Series High Precision

Stainless Steel Tweezers
(P/N: W00065)



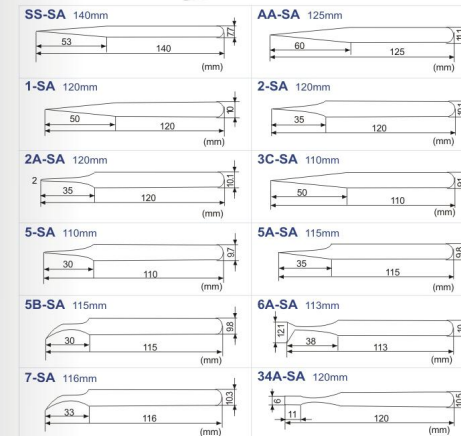
Anti-Static

Stainless Steel Tweezers
(P/N: W00348)



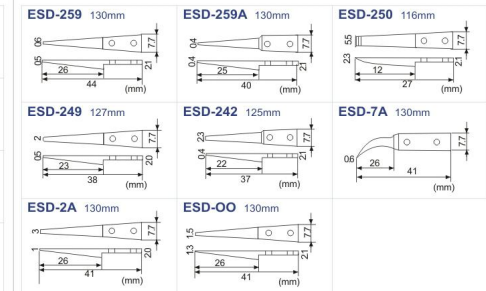
SA Series Super Fine High Precision

Stainless Steel Tweezers
(P/N: W00274)



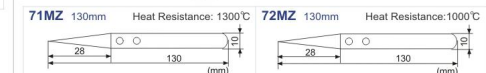
ESD Replaceable Tip

Stainless Steel Tweezers
(P/N: W00066)



Ceramic Tip Tweezers

(P/N: W00393)



Conductive Plastic Tweezers

(P/N: W00067)



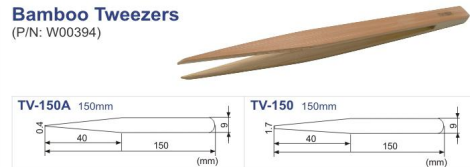
White Plastic Tweezers

(P/N: W00392)



Bamboo Tweezers

(P/N: W00394)



Economic Stainless Steel Tweezers

(P/N: W00273)



Cutting Pliers

Diagonal Cutting Pliers

- Features:**
- The body is made of good quality CR-V, strong and durable.
 - Cutting edges are high frequency induction heated, which ensures good cutting capacity and longer life.
 - Japan style anti-slip grip, comfortable and with good insulation.
 - Suitable for electronics industry, electrical repair work, vehicle maintenance, and household work, etc.
 - Specially designed to cut thin lead and components lead.



Model	Material	Specs	Cutting Capacity		Equivalent To Japan Brands
			Soft Wire (mm ε)	Copper Wire (mm ε)	
XK-4	CR-V	115mm (4.5")	1.5	2.3	MTC-4
XK-115	CR-V	115mm (4.5")	1.5	2.3	MTC-2D
XK-125	CR-V	125mm (5")	1.8	2.6	MTC-3
XK-125S	CR-V	125mm (5")	1.8	2.6	MTC-5
XK-125J	CR-V	125mm (5")	1.8	2.6	KEIBA A-05
XK-150	CR-V	150mm (6")	2.0	3.2	MTC-22
SK-125	CR-V	125mm (5")	1.8	2.6	KEIBA PL-725
SK-150	CR-V	150mm (6")	2.0	3.2	KEIBA PL-726

Flush Cutting Pliers



- Features:**
- Material: SK-5 steel or stainless steel
 - Hardness of blade: HRC 50
 - Excellent edge sharpness;
 - Light-weight, comfortable grip;
 - Especially suitable for cutting protruding lead, plastic flash, thin metal wires.
 - Applicable for repair work of electronics industry, jewelry processing, modeling, etc.

Model	Material	Specs	Cutting Capacity		Equivalent To Other Brands
			Soft Wire (mm ε)	Copper Wire (mm ε)	
CHP-170	SK-5 steel	132mm	0.8	1.3	HAKKO CHP-170
MN-25C	SK-5 steel	132mm	0.8	1.3	PIERGIACOMI TR-25-EC
MN-25P	SK-5 steel	132mm	0.8	1.3	PIERGIACOMI TR-25-P
MN-170	SK-5 steel	115mm	0.6	1.0	PLATO 170
MN-170II	SK-5 steel	115mm	0.6	1.0	XURON 170 II
BX-21	stainless steel	125mm	0.8	1.6	3 PEAKS SP-21
BX-23	stainless steel	125mm	0.8	1.6	3 PEAKS SP-23
MN-B100	SK-5 steel	85mm	0.8	1.3	for electronic cigarette

Long Nose Pliers



- Features:**
- The body is made of superior high-carbon steel, solid and durable.
 - Mainly used for cutting slim solid wires and strand wires, and for stripping plastic insulating, etc.
 - It can also be used for pinching minor screw caps, twisting hard steel wires, cutting lead with its tips, etc.
 - It is widely used in assembly and repair work for instruments and telecommunication appliances. It is also a common tool for electricians.

Model	Matetail	Specs	Cutting Capacity		Equivalent To Japan Brands
			Soft Wire (mm ε)	Copper Wire (mm ε)	
ZJ-18	#55 high-carbon steel	125mm (5")			MTC-18
ZJ-125	#55 high-carbon steel	125mm (5")	1.0	1.8	MTC-13
ZJ-316	#55 high-carbon steel	150mm (6")	1.2	2.0	KEIBA T-316
ZJ-346	#55 high-carbon steel	150mm (6")	1.2	2.0	KEIBA T-346
ZJ-616	#55 high-carbon steel	150mm (6")	1.2		KEIBA M-616

Cutting Pliers MN-179

(P/N: W00622)



- Features:**
- Made of high levels of carbon steel, higher hardness and toughness;
 - Strong wear resistance, super sharp blades;
 - With the pointed blade head, suitable for inserting into narrow spaces to cut materials;
 - Best for cutting wires and thin metal threads, plastic leftovers, IC pins, etc.

Length	Cutting Diameter	Weight
125mm (5")	2mm	73g

Wire Strippers



- Features:**
- Stripping length is adjustable.
 - The blades are precisely processed by special machines.
 - High quality plastic grip with ergonomic design makes the tool stronger and more comfortable.

Model	Wire Diameter (mm)	Range
BX-1	0.5-0.8	24-18
BX-1041	0.9 / 1.25 / 2.0 / 3.5 / 5.5	18 / 16 / 14 / 12 / 10
BX-1042	0.2 / 0.35 / 0.5 / 0.9 / 1.25	24 / 22 / 20 / 18 / 16
BX-1043	0.25 / 0.32 / 0.4 / 0.6 / 0.65	30 / 28 / 26 / 24 / 22

Plastic Model Dedicated Nipper

(P/N: W00527)



- Ultra-thin, Super Sharp**
- Usage: mainly for plastic model kit.
- Cutting capability: below Φ4mm
- Suitable material: PS, PP, ABS, PE resin, etc.
- Equivalent to Japan God Hand Nipper SPN-120.

Personnel ESD Control

ESD Wrist Straps

Waterun-01
Velcro Wrist Strap
(P/N: W00081)



Waterun-02
Elastic Wrist Strap
(P/N: W00080)



Waterun-03
Elastic Wrist Strap
(P/N: W00079)



Cordless Wrist Strap
(P/N: W00082)



Waterun-05
Blue Metal Wrist Strap
(P/N: W00077)



Waterun-06
Black Metal Wrist Strap
(P/N: W00076)



Waterun-07
Black Dual Metal Wrist Strap
(P/N: W00075)

Waterun-08
Dual Elastic Wrist Strap
(P/N: W00148)



Waterun-09
Anti-Allergic Wrist Strap
(P/N: W00149)



Waterun-10
Silicon Rubber Wrist Strap
(P/N: W00404)



Heel Grounders

Heel Grounder
(P/N: W00074)



Heel Grounder with Buckle
(P/N: W00150)



Toe Grounder
(P/N: W00123)



Disposable Heel Grounder
(P/N: W00405)



Grounding Cords

Waterun-601
Grounding Socket
(P/N: W00073)



Waterun-602
Grounding Cord
(P/N: W00072)



Waterun-603
Grounding Cord
(P/N: W00071)



Waterun-604
Grounding Cord
(P/N: W00070)



Waterun-605
Grounding Cord
(P/N: W00069)



Waterun-606
Grounding Cord
(P/N: W00068)



Waterun-607
Grounding Cord
(P/N: W00151)



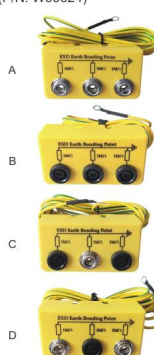
Waterun-608
Grounding Cord
(P/N: W00152)



Waterun-609
Grounding Socket
(P/N: W00623)



Waterun-610
Grounding Socket
(P/N: W00624)



ESD Field Service Kit
(P/N: W00153)



Waterun-611
Grounding Socket
(P/N: W00625)



Waterun-612
Grounding Socket
(P/N: W00626)



Finger Cots

Latex Powder-Free Finger Cots
(P/N: W00088)



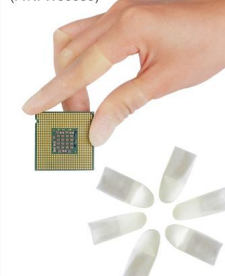
Yellow ESD Finger Cots
(P/N: W00087)



Black ESD Finger Cots
(P/N: W00085)



Cut Type ESD Finger Cots
(P/N: W00083)



Pink ESD Finger Cots
(P/N: W00086)



Orange Anti-Slip Finger Cots
(P/N: W00084)



ESD / Cleanroom Gloves



ESD Gloves (P/N: W00095) | ESD PVC Dotting Gloves (P/N: W00094) | ESD PU Palm Gloves (P/N: W00093) | Nylon Gloves (P/N: W00092) | Latex Gloves (P/N: W00091) | Nitrile Gloves (P/N: W00089)

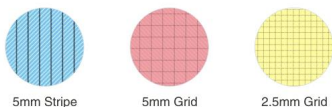


White Cotton Gloves (P/N: W00627) | Nylon Half Gloves (P/N: W00345) | Palm PU Coated Nylon Gloves (P/N: W00154) | Top PU Coated Nylon Gloves (P/N: W00155) | ESD Palm PU Coated Gloves (carbon fiber) (P/N: W00346) | ESD Top PU Coated Gloves (carbon fiber) (P/N: W00347)

ESD Fabrics & Apparels

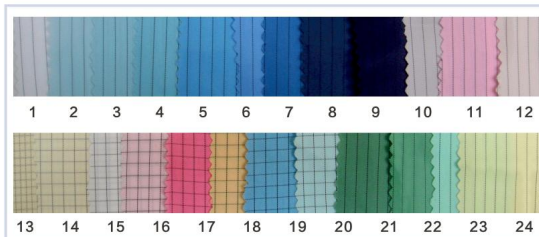
ESD Fabrics

Our ESD Fabrics are made of lint-free polyester filament, which provides good static dissipation and superior air permeability and particle filtration. This helps prevent contamination and keeps the wearer comfortable. These fabrics have a conductive yarn that provides low surface resistivity of $10^9\Omega-10^{10}\Omega$ /square and quick static dissipation for effective control of ESD.



5mm Stripe | 5mm Grid | 2.5mm Grid

Available Colors



Note: There may exist color difference between samples in this catalog and the actual products.

ESD Coverall

(P/N: W00121)



ESD Separated Clothes

(P/N: W00120)



ESD Smock

(P/N: W00119)



ESD Caps & Face Masks



ESD Hood (P/N: W00116) | ESD Cap (P/N: W00114) | ESD Cap (P/N: W00111) | ESD Cap (P/N: W00156) | Non-Woven Bouffant Cap (P/N: W00157) | Non-Woven Strip Cap (P/N: W00349)



Active Carbon Mask (P/N: W00109) | 3-Ply Non-Woven Mask (P/N: W00108) | Cleanroom Mask (P/N: W00148) | Paper Mask (P/N: W00105) | Non-Woven Shoe Covers (P/N: W00096) | CPE Shoe Covers (P/N: W00102)

ESD Shoes & Slippers

Shoe Cover Machine



ESD Butterfly Shoes (P/N: W00104) | ESD Butterfly Shoes (P/N: W00159) | ESD Butterfly Slippers (P/N: W00103) | Mesh Side Shoes (P/N: W00101)



Velcro Mesh Side Shoes (P/N: W00160) | ESD Solid Face Shoes (P/N: W00100) | ESD Canvas Shoes (P/N: W00350) | ESD PU Safety Shoes (P/N: W00406)



Top Boot with Hard Sole (P/N: W00097) | ESD PVC Slippers (P/N: W00098) | ESD SPU Slippers (P/N: W00351) | ESD SPU Slippers (P/N: W00319) | ESD SPU Slippers (P/N: W00320) | ESD Sandals (P/N: W00342)

WT-7900

(P/N: W00609)



WT-7900H

(P/N: W00610)



Outer power supply	AC 220V /110V, 50 /60Hz, 75W
Machine sizes	L63 x W31 x H75 cm
Net weight	18 kgs
Release speed	3 seconds / piece
Inner working voltage	DC12V, 6A
Max. capacity	PE cover: 100pcs/box CPE cover: 80pcs/box Non-woven cover: 50pcs/box

ESD & Cleanroom Products

ESD Brushes

(P/N: W00059)



Solvent Dispensers

IPA Dispenser

Capacity: 4 oz, 6 oz, 8 oz



Metal Caps for IPA Dispenser
(P/N: W00408)

- A: Normal type
- B: Normal type with lock
- C: Anti-splash type
- D: Anti-splash type with lock



Blue ESD Flux Bottle
with Needle
(P/N: W00607)
Capacity: 60ml

Blue ESD Flux Bottle
(P/N: W00606)
Capacity: 60ml, 250ml, 500ml



Glass IPA Dispenser
(P/N: W00162)
Capacity: 180ml

Dispensing Bottle with
Bent Nozzle
(P/N: W00409)
Capacity: 250ml, 500ml, 1000ml

Flux Bottle
(P/N: W00325)
Capacity: 60ml, 100ml

Flux Bottle with Brush
(P/N: W00326)
Capacity: 60ml

Yellow ESD Flux Bottle
(P/N: W00605)
Capacity: 250ml, 500ml



Cleanroom Wipers

Polyester Wipers

(P/N: W00056)
→ 100% polyester.



Model	Size	Packing Per Bag	Bags/Case
WIP-1004	4" x 4"	600 pcs	10 bags
WIP-1006	6" x 6"	150 pcs	20 bags
WIP-1009	9" x 9"	150 pcs	10 bags
WIP-1012	12" x 12"	150 pcs	10 bags

Microfiber Wipers

(P/N: W00163)
→ 70% polyester and
30% nylon composite microfiber



Size	Packing Per Bag	Bags/Case
4" x 4"	400 pcs	10 bags
6" x 6"	100 pcs	10 bags
9" x 9"	100 pcs	10 bags
12" x 12"	100 pcs	10 bags

Non-woven Wipers

(P/N: W00055)
→ 55% cellulose, 45% polyester



Model	Size	Packing Per Bag	Bags/Case
WIP-0604	4" x 4"	1200 pcs	10 bags
WIP-0606	6" x 6"	300 pcs	20 bags
WIP-0609	9" x 9"	300 pcs	10 bags
WIP-0612	12" x 12"	300 pcs	10 bags

M3 Cleaning Wiper

(P/N: W00352)
→ 100% filament rayon.



Size	Packing Per Bag	Bags/Case
25x25 cm	100 pcs	30 bags

SMT Stencil Roll

(P/N: W00164)
→ 55% cellulose, 45% polyester.



Machine Model	Cleaning Cloth			Internal Paper (Plastic) Roll		
	Width (mm)	Length (M)	External Dia. (mm)	Width (mm)	Internal Dia. (mm)	External Dia. (mm)
MPM	445	10	56	455	19	24
DEK	520	10	56	530	19.5	22
SANYO	275	30	100	275	38	44
EKRA	390	8	46	400	12	16
MINAMI	270	7	46	270	12	16
PANASANT	358	12	66	360	38	44

ESD Curtains

ESD Grid Curtain

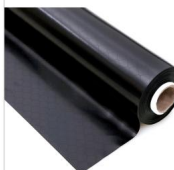
(P/N: W00175)



Material	PVC
Grid Surface Resistance	10 ¹ ~ 10 ² Ω
Underlayer Resistance	10 ¹ ~ 10 ² Ω
Sizes	1.37m x 30m x 0.3mm 1.37m x 30m x 0.5mm

Black Conductive Curtain

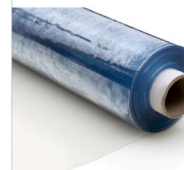
(P/N: W00176)



Material	PVC
Surface Resistance	10 ¹ ~ 10 ² Ω
Sizes	1.37m x 30m x 0.3mm 1.37m x 30m x 0.5mm

ESD Transparent Curtain

(P/N: W00177)



Material	PVC
Surface Resistance	10 ¹ ~ 10 ² Ω
Sizes	1.37m x 30m x 0.3mm 1.37m x 30m x 0.5mm

ESD Green Strip Door Curtain

(P/N: W00341)



Material	PVC
Surface Resistance	10 ¹ ~ 10 ² Ω
Sizes	20cm (w) x 30m (L) x 2mm (thickness)

ESD PVC Curtain can be used as a barrier wall or protective curtain material in the ESD sensitive environment. Carbon lines are printed on the anti-static PVC material, with excellent draping property.

ESD Packaging Bags & Tapes



ESD Shielding Bag
(P/N: W00054)



Moisture Barrier Bag
(P/N: W00053)



ESD Grid Bag
(P/N: W00052)



ESD Pink PE Bag
(P/N: W00051)



Black Conductive Bag
(P/N: W00149)



ESD Bubble Bag
(P/N: W00050)



Shielding Bag Material
(P/N: W00165)



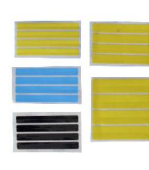
ESD Clear Tape
(P/N: W00166)



ESD Grid Tape
(P/N: W00167)



Kapton Tape
(P/N: W00168)



SMT Splice Tape
(P/N: W00410)



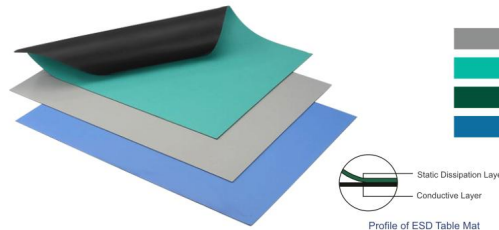
ESD Warning Tape
(P/N: W00169)

ESD Table Mat

ESD Table Mat (P/N: W00049)

It is made of anti-static (conductive) and static-dissipative materials as well as synthetic rubber. The surface layer is a 0.5mm thick static-dissipative layer. The bottom layer is a 1.5mm thick conductive layer. Generally, 2mm thick double-layer structure is used.

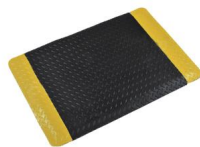
Resistivity of Surface Layer	$10^5 \sim 10^9 \Omega$
Resistivity of Bottom Layer	$10^2 \sim 10^4 \Omega$
Bulk Resistivity	$10^2 \sim 10^9 \Omega$
Abrasiveness Loss	$< 0.02\text{g/cm}^2$
Time for Static Dissipation	$< 0.1\text{s}$
Size	0.6m x 10m, 0.9m x 10m, 1.0m x 10m, 1.2m x 10m
Color	Green / Black, Blue / Black, Grey / Black
Thickness	2.0mm, 2.5mm, 3.0mm



Profile of ESD Table Mat

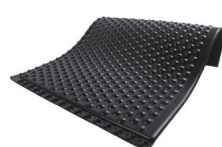
Anti-Fatigue Mat

ESD Anti-Fatigue Floor Mat (P/N: W00310)



Sizes: 910 x 610 x 17mm
610 x 610 x 17mm
450 x 610 x 17mm
(Custom sizes available)

ESD Anti-Fatigue Floor Mat (P/N: W00311)



Surface Resistance: $10^4 \sim 10^9 \Omega$
Sizes: 600 x 450 x 17mm
600 x 900 x 17mm
(Custom sizes available)

ESD PU Foam Anti-Fatigue Floor Mat (P/N: W00479)



Surface Resistance: $10^4 \sim 10^9 \Omega$
Sizes: 900 x 600 x 16mm
Color: blue or black
(Custom sizes available)

ESD Split Joint Anti-Fatigue Floor Mat (P/N: W00480)

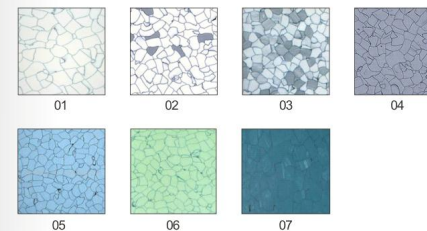
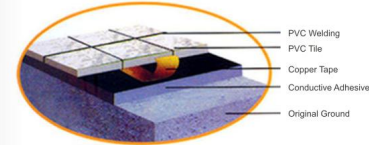


Surface Resistance: $10^4 \sim 10^9 \Omega$
Sizes: 900 x 600 x 16mm
Color: blue or black

ESD PVC Tiles

ESD PVC Tiles (P/N: W00340)

- Excellent wear resistance and easy cleaning with the special coating;
- Conductive material is distributed evenly in entire tile so that it has permanent conductivity.
- Fire-proof and chemical resistance properties



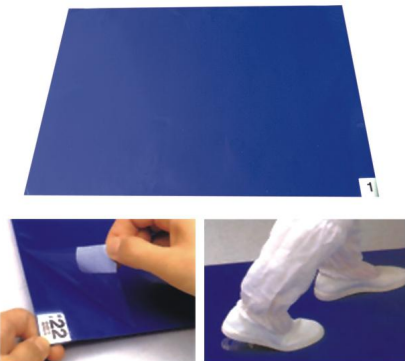
Sticky Mat

Sticky Mat (P/N: W00048)

Material:
Each dust-sticking mat consists of several layers of PVC; each layer is attached with high-viscosity or low-viscosity coating layer, smooth and durable.

Features:
Multi-layer dust-sticking floor mat can effectively remove the dust carried by wheels and shoes, easy to keep clean. When the surface layer gets dirty, you can tear it and use the next new layer.

Sizes: 18" x 36", 24" x 36", 26" x 45"
Packing: 30 layers /mat, 8 or 10 mats /carton



Sticky Rollers

Sticky Roller provides the most efficient means of removing even the smallest particles from flat surfaces such as walls, tabletops, floors, ceilings, etc. The specially designed rollers effectively capture and translate particles and contaminants from surfaces to adhesive rolls.

White Sticky Roller (P/N: W00171)



Sizes: 4"x18m, 6"x18m, 8"x18m, 10"x18m, 12"x18m
Note: The handle needs to be purchased separately.

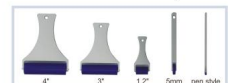
Blue Sticky Roller (P/N: W00172)



Silicon Sticky Roller (P/N: W00173)

Silicon Roller is made by silicon and pivotal materials. It is a self-adhesive dust-removing product. Its surface is smooth like a mirror and is easy to transfer impurities to sticky paper.

→ Adhesiveness: high, middle and low
→ Sizes: 5mm, 10mm, 1", 1.2", 2", 3", 4", 6", 8", 10", 12", and pen style



Sticky Pad (P/N: W00174)

Sticky Pad is used to remove dust separately, or to remove dust from silicon rollers to ensure the circulatory use of silicon roller. The polymerized glue molecules of high-density can absorb tiny particulates.



Size: 330mm x 240mm x 50 layers,
Packing: 10 packs/ carton
Available types: PE, PVC, Writing Paper type

ESD Stationery



ESD Calculator
(P/N: W00411)



ESD Telephone
(P/N: W00412)



ESD Mouse
(P/N: W00413)



ESD Mouse Pad
(P/N: W00414)



ESD Keyboard
(P/N: W00482)



ESD Tool Case
(P/N: W00422)



ESD Desktop Tape Dispenser
(P/N: W00423)



ESD Handheld Tape Dispenser
(P/N: W00424)



ESD Scissors
(P/N: W00425)



ESD Utility Knife
(P/N: W00426)



ESD Pen Holder
(P/N: W00421)



ESD Ballpoint Pen
(P/N: W00420)



ESD Stapler
(P/N: W00419)



ESD File Holder
(P/N: W00418)



Cleanroom Paper
(P/N: W00415)



Clean Spiral Notebook
(P/N: W00485)



ESD Clear File
(P/N: W00416)



ESD Document Clip File
(P/N: W00628)



ESD Envelope Document File
(P/N: W00629)



ESD Document Holder
(P/N: W00486)



ESD Ring Binder
(P/N: W00487)



ESD Ring Binder
(P/N: W00488)



ESD Lever Clip File
(P/N: W00489)



ESD Foldable Clipboard
(P/N: W00490)

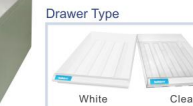


ESD Clipboard
(P/N: W00417)

Parts Storage Cabinet (P/N: W00491)



Document Storage Cabinet (P/N: W00492)



ESD Vacuum Cleaner (P/N: W00630) Model: WT-979



Supplied with the above accessories.

This unit is completely ESD safe. It is made from tough, crack resistant, static dissipative plastic for added safety. It has been developed for cleaning electro-static protected areas.

Model	WT-979
Power	1250W
Color	Black
Dust Collector Capacity	35L
Surface resistance	10E ¹ - 10E ²
Voltage	120V - 230V / 50Hz - 60Hz
Measurement	350 x 350 x 565 (cm)

ESD Chairs

WT-102
(P/N: W00126)
→ ESD PU leather



WT-103
(P/N: W00127)
→ ESD PU leather



WT-106
(P/N: W00130)
→ ESD PU leather



WT-107
(P/N: W00178)
→ ESD PU leather



WT-115
(P/N: W00428)
→ Material: PU foam



WT-117
(P/N: W00430)
→ Material: PU foam



WT-118
(P/N: W00431)
→ Material: PU foam



WT-119
(P/N: W00432)
→ Material: PU foam



WT-124
(P/N: W00437)
→ Material: PP



WT-105
(P/N: W00129)
→ ESD PU leather



ESD Magazine Racks

WT-802
(P/N: W00132)



Overall size: 355 x 315 x 580mm
Suitable PCB size: 350 x (80-250)mm
Heat resistance type: 80°C, 120°C, 200°C
Plastic top and bottom boards.
Stationary type, adjustable through screws.

WT-803
(P/N: W00133)



Overall size: 355 x 320 x 563mm
Suitable PCB size: 350 x (50-250)mm
Heat resistance type: 80°C, 120°C, 200°C
Metal top and bottom boards.
Gear track allows easy operation.

WT-804
(P/N: W00134)



Overall size: 355 x 320 x 563mm
Suitable PCB size: 350 x (50-250)mm
Heat resistance type: 80°C, 120°C, 200°C
Metal top and bottom boards.
Stationary type, adjustable through screws.

WT-805
(P/N: W00135)



Overall size: 355 x 320 x 563mm
Suitable PCB size: 350 x (50-250)mm
Heat resistance type: 80°C, 120°C, 200°C
Plastic top and bottom boards.
Gear track allows easy operation.

WT-806
(P/N: W00136)



Overall size: 460 x 400 x 563mm
Suitable PCB size: 460 x (50-330)mm
Heat resistance type: 80°C, 120°C, 200°C
Metal top and bottom boards.
Gear track allows easy operation.

WT-807
(P/N: W00137)



Overall size: 460 x 400 x 563mm
Suitable PCB size: 460 x (50-330)mm
Heat resistance type: 80°C, 120°C, 200°C
Metal top and bottom boards.
Stationary type, adjustable through screws.

WT-808
(P/N: W00138)



Overall size: 535 x 460 x 570mm
Suitable PCB size: 535 x (50-390)mm
Heat resistance type: 80°C, 120°C, 200°C
Metal top and bottom boards.
Gear track allows easy operation.

WT-809
(P/N: W00181)



Overall size: 535 x 530 x 570mm
Suitable PCB size: 535 x (50-460)mm
Heat resistance type: 80°C, 120°C, 200°C
Metal top and bottom boards.
Gear track allows easy operation.

WT-812
(P/N: W00182)



Two size: 355 x 320 x 363mm Max. Storage: 30pcs
355 x 320 x 263mm Max. Storage: 20pcs
Suitable PCB size: 350 x (50-250)mm
The top and bottom boards are made of metal or plastic.
Gear track allows easy operation.

Conductive Trolley

PCB Storage Trolley
(P/N: W00183)



Surface Resistance: 10⁹ ~10¹⁰Ω
Overall Size: 900 x 550 x 1300mm
Storage: PCB 200 / 300 / 400pcs
Each column can accommodate PCB 100pcs.

Stainless Steel PCB Storage Trolley
(P/N: W00184)



Overall Size: 900 x 550 x 1300mm
Storage: PCB 150 / 225 / 300pcs
Each column can accommodate PCB 100pcs.

PCB Storage Trolley with Hanging Racks
(P/N: W00185)



Surface Resistance: 10⁹ ~10¹⁰Ω
Overall Size: 950 x 550 x 1400mm
Any dimensions are available upon request.

Chrome-Plated Wire Shelving
(P/N: W00312)



Material: chrome-plated carbon steel or stainless steel
Any dimensions are available upon request.

PCB Racks

WT-501
(P/N: W00139)



Surface Resistance: 10⁹ ~10¹⁰Ω
Outer Size: 280 x 205 x 95mm
Max Storage: 25 pcs

WT-502
(P/N: W00140)



Surface Resistance: 10⁹ ~10¹⁰Ω
Outer Size: 411 x 290 x 22mm
Max Storage: 42 pcs

WT-503
(P/N: W00141)



Surface Resistance: 10⁹ ~10¹⁰Ω
Outer Size: 465 x 175 x 50mm
Max Storage: 25 pcs

WT-504
(P/N: W00142)



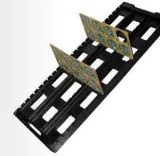
Surface Resistance: 10⁹ ~10¹⁰Ω
Outer Size: 480 x 140 x 35mm
Max Storage: 25 pcs

WT-515
(P/N: W00191)



Surface Resistance: 10⁹ ~10¹⁰Ω
Outer Size: 270 x 250 x 130mm
Max Storage: 30 pcs

WT-516
(P/N: W00192)



Surface Resistance: 10⁹ ~10¹⁰Ω
Outer Size: 435 x 160 x 30mm
Max Storage: 25 pcs

Composed Drawer Type Parts Box
(P/N: W00195)



Surface Resistance: 10⁹ ~10¹⁰Ω
Size: 138 x 93 x 46mm

Conductive Dustbin
(P/N: W00438)



Size: Φ295 x H255mm
Surface Resistance: 10⁹ ~10¹⁰Ω

Conductive Dustbin
(P/N: W00631)



35L Size: 38 x 28 x 38cm
60L Size: 46 x 32 x 60cm
Surface Resistance: 10⁹ ~10¹⁰Ω

Conductive Dustbin
(P/N: W00632)



120L Size: 470 x 550 x 950cm
Surface Resistance: 10⁹ ~10¹⁰Ω

Conductive Plastic Boxes

Conductive Circulation Boxes
(P/N: W00189)



Note: "★" means available with cover.

Model	External Size (mm)	Internal Size (mm)
WT-2101	155 x 105 x 65	135 x 85 x 50
WT-2102	205 x 135 x 65	180 x 120 x 60
WT-2103	255 x 175 x 75	220 x 160 x 70
WT-2104	300 x 205 x 90	270 x 185 x 80
WT-2105	360 x 270 x 135	320 x 240 x 125
WT-2106	380 x 240 x 105	340 x 220 x 90
WT-2107	420 x 310 x 155	380 x 280 x 145
WT-2109	500 x 360 x 175	470 x 330 x 165
★ WT-2110	565 x 420 x 240	510 x 390 x 235
★ WT-2111	565 x 420 x 300	510 x 390 x 290
★ WT-2112	600 x 500 x 150	560 x 455 x 140
★ WT-2113	600 x 500 x 300	560 x 455 x 290
★ WT-2114	600 x 500 x 360	560 x 460 x 355
WT-2115	660 x 400 x 160	620 x 360 x 150
★ WT-2116	565 x 420 x 380	510 x 390 x 375
WT-2119	610 x 500 x 400	560 x 455 x 395
WT-2120	610 x 415 x 245	580 x 380 x 240
WT-2125	600 x 500 x 160	560 x 460 x 155
WT-2127	580 x 368 x 210	535 x 345 x 195
WT-2128	580 x 368 x 165	535 x 345 x 155
WT-2129	615 x 425 x 155	580 x 385 x 145
★ WT-2130	620 x 425 x 320	580 x 395 x 310
WT-2131	720 x 450 x 180	680 x 420 x 175
WT-2132	720 x 560 x 380	675 x 515 x 370
WT-2136	560 x 430 x 145	515 x 350 x 140
WT-2137	585 x 405 x 175	538 x 360 x 170
★ WT-2139	620 x 430 x 200	580 x 385 x 195
★ WT-2149	620 x 430 x 250	580 x 395 x 243

Conductive Trays
(P/N: W00190)



Model	External Size (mm)	Internal Size (mm)
WT-2108	450 x 300 x 60	430 x 280 x 50
WT-2108A	450 x 300 x 45	430 x 280 x 38
WT-2118	440 x 290 x 50	400 x 265 x 45
WT-2121	375 x 250 x 65	345 x 225 x 60
WT-2122	440 x 295 x 80	410 x 265 x 75
WT-2123	560 x 375 x 80	525 x 340 x 70
WT-2126	320 x 235 x 43	310 x 225 x 35
WT-2135	615 x 420 x 95	570 x 370 x 90
WT-2133	480 x 328 x 42	445 x 292 x 35
WT-2134	280 x 190 x 26	272 x 182 x 24
WT-2138	308 x 283 x 30	136 x 58 x 20

Conductive Component Boxes
(P/N: W00143)



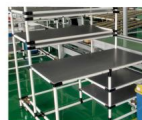
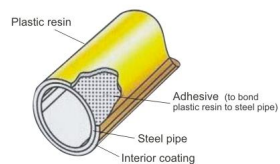
Model	External Size (mm)	Internal Size (mm)
WT-505	95 x 105 x 50	80 x 90 x 40
WT-506	165 x 95 x 70	145 x 80 x 60
WT-507	175 x 105 x 80	155 x 90 x 70
WT-508	200 x 130 x 90	175 x 110 x 80
WT-509	235 x 155 x 120	215 x 140 x 110
WT-510	104 x 104 x 49	88 x 87 x 40
WT-511	140 x 122 x 68	125 x 109 x 65
WT-512	180 x 121 x 79	150 x 100 x 76
WT-513	253 x 155 x 125	210 x 132 x 115
WT-514	352 x 201 x 143	303 x 175 x 135
WT-518	450 x 300 x 170	400 x 260 x 165

Pipe and Joint System

(P/N: W00439)

The pipes are steel pipes with plastic resin coating. Adhesives are used to bond the plastic resin to the steel pipe. The inner surface of the pipe is treated with anti-corrosion coating.

Material	Steel tube with PE/ABS plastic layer (approx. 0.07mm thickness)		
Type	1. Normal	2. ESD	3. Stainless Steel
Color	beige; white; green; red; blue; black		
Outer Diameter	28mm		
Weight	520g /m		
Thickness	0.8mm; 1.0mm; 1.2mm		
Dimensions	400mm(L) x Φ28mm (outer diameter)		
Packing	10pcs /bundle, 4m /pcs, plastic film pack		



Easy-to-build, low cost!
It is a modular production operation system, which can be rapidly assembled. It can make any creative idea become practical solutions.



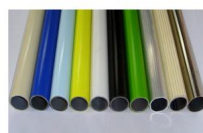
Stainless Steel Pipe



Beige Compound Pipe



ESD Compound Pipe



Sundry Compound Pipes

Metal Joints

The metal joints have two types: Black P-series / Chrome Plating D-series (conductive type).



Wheels



Aluminum Pipe and Joint System

(P/N: W00633)

- The density of aluminum is as small as 2.7g/cm, which is only 35% of that of steel. This makes the aluminum pipes and joints to be lightweight.
- The aluminum surface generates naturally the aluminum oxide, which prevents any further oxidation, thus to prolong the life time of the product.
- The aluminum material can be recycled and the recoverable value is high. It is environmentally friendly.
- After the oxidation treatment on the surface, the aluminum material has a fine appearance and better plasticity.
- According to different requirement, you can DIY freely and assemble the pipe and joints into a variety of structures.



Model	AL-2817	AL-2812	AL-B	AL-L	AL-C	AL-4323
Weight	0.42 kg /meter	0.38 kg /meter	0.79 kg /meter	0.5 kg /meter	0.66kg /meter	0.72 kg /meter
Dimensions			4m (L) x Ø28mm (outer dia)			4m (L) x Ø43mm (outer dia)
Thickness	1.7mm	1.2mm	1.2mm	1.2mm	1.2mm	2.3mm

Model	AL-1 (1.7)	AL-1-A (1.7)	AL-1-B (1.2)	AL-1-S (1.2)	AL-1-S (1.7)	AL-2	AL-3	AL-4
Weight	0.045kg /set	0.045kg /set	0.045kg /set	0.045kg /set	0.045kg /set	0.097/kg /set	0.06kg /set	0.11kg /set

Model	AL-5	AL-6	AL-7	AL-8	AL-9	AL-10	AL-11	AL-12
Weight	0.122kg /set	0.05kg /set	0.056kg /set	0.036/kg /set	0.127kg /set	0.11kg /set	0.055kg /set	0.15kg /set

Model	AL-13	AL-14	AL-15	AL-16	AL-24	AL-25	AL-26	AL-27
Weight	0.055kg /set	0.113kg /set	0.022kg /set	0.05/kg /set	0.045kg /set	0.03kg /pcs	7g /pcs	18g /pcs

