

**Waterun Technology (H.K.) Co., Ltd.**

Add: 2/F, A8 Building, Fu Zhong Industrial Park,  
Fu Zhong Rd., Fu Yong Town, Bao An  
Shenzhen 518103  
China

Tel : +86-755-29356991 / 29356992

Email: sales@waterun.com.cn

Website: www.waterun.com.cn



SOLDERING ROBOT  
SCREW FASTENING ROBOT  
GLUE DISPENSING ROBOT



## WATERUN PROFILE

Established in 2003, Waterun Technology is located in Shenzhen, China. We are a leading manufacturer of Automated Equipments for electronic assembly industry.

Our products include Screw Fastening Robot, Soldering Robot, Glue Dispensing Robot, Fume Extractors, etc.

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.





## WT-4221-2Y

### MAGNETIC SUCTION TYPE

- Magnetic Suction (Vacuum Suction for option), to achieve fast feeding and screwing.
- The operator can use manual positioning to do the programming. It is highly efficient and very easy to learn the operation.
- With alarm function for fastening missing, untightened screws, worn thread, etc.
- Support auto sensing start operation function.
- Servo Motor or Electric Screwdriver are optional. Both of them can adjust the torque and rotation speed freely.



Operating Range	X210 * Y1/420 * Y2/420 * Z135 mm (X x Y x Z)
Movement Speed	X/Y Axis: ≤500mm/s, Z Axis: ≤300mm/s
Repeatability Accuracy	± 0.03mm
Screwing Time for Each Screw	1.0 ~ 1.5s / piece
Suitable Screw Size	M1.5 - M4 (total screw length ≤ 16mm)
Control System	SCM + Touch Screen
Program Capacity	15 files, each file can save up to 99 points
Air Source	0.4 - 0.6 Mpa
Dimensions	810 x 720 x 900mm (W x D x H)
Weight	80 kg

## WT-4223-2Y

### SCREW DROP TYPE

- The screws feed to the screwdriver bit directly one by one through a tube, to achieve extremely fast feeding and screwing. It saves the time to pick up the screws from the screw feeder.
- The operator can use manual positioning to do the programming. It is highly efficient and very easy to learn the operation.
- With alarm function for fastening missing, untightened screws, worn thread, etc.
- Servo Motor or Electric Screwdriver are optional. Both of them can adjust the torque and rotation speed freely.



Operating Range	X230 * Y1/420 * Y2/420 * Z135 mm (X x Y x Z)
Movement Speed	X/Y Axis: ≤500mm/s, Z Axis: ≤300mm/s
Repeatability Accuracy	± 0.03mm
Screwing Time for Each Screw	0.8 ~ 1.2s / piece
Suitable Screw Size	M1.5 - M4 (total screw length ≤ 16mm)
Control System	SCM + Touch Screen
Program Capacity	15 files, each file can save up to 99 points
Air Source	0.4 - 0.6 Mpa
Dimensions	810 x 720 x 900mm (W x D x H)
Weight	80 kg

## WT-4220-2Z

### VACUUM SUCTION TYPE

- Double Y Axis can use two different screws (or the same screws), so as to achieve highly efficient work mode.
- Vacuum suction type, to achieve fast feeding and screwing.
- The operator can use manual positioning to do the programming. It is highly efficient and very easy to learn the operation.
- Support auto sensing start operation function.
- Servo Motor or Electric Screwdriver are optional. Both of them can adjust the torque and rotation speed freely.



## WT-4222-2Z

### SCREW DROP TYPE

- The screws feed to the screwdriver bit directly one by one through a tube, to achieve extremely fast feeding and screwing. It saves the time to pick up the screw from the screw feeder.
- The operator can use manual positioning to do the programming. It is highly efficient and very easy to learn the operation.
- With alarm function for fastening missing, untightened screws, worn thread, etc.
- Servo Motor or Electric Screwdriver are optional. Both of them can adjust the torque and rotation speed freely.



Screwdriver Type



Servo Motor Type

Operating Range	X200 * Y1/420 * Z135mm / X200 * Y2/420 * Z135 mm (X x Y x Z)
Movement Speed	X/Y Axis: ≤500mm/s, Z Axis: ≤300mm/s
Repeatability Accuracy	± 0.03mm
Screwing Time for Each Screw	1~ 1.5s / piece
Suitable Screw Size	M1.0 - M4 (total screw length ≤ 16mm)
Control System	SCM + Touch Screen
Program Capacity	15 files, each file can save up to 99 points
Air Source	0.4 - 0.6 Mpa
Dimensions	970 x 820 x 900mm (W x D x H)
Weight	100 kg

Operating Range	X220 * Y1/420 * Z135 mm / X220 * Y2/420 * Z135 mm (X x Y x Z)
Movement Speed	X/Y Axis: ≤500mm/s, Z Axis: ≤300mm/s
Repeatability Accuracy	± 0.03mm
Screwing Time for Each Screw	0.8 ~ 1.2s / piece
Suitable Screw Size	M2 - M4 (total screw length ≤ 16mm)
Control System	SCM + Touch Screen
Program Capacity	15 files, each file can save up to 99 points
Air Source	0.4 - 0.6 Mpa
Dimensions	830 x 820 x 900mm (W x D x H)
Weight	100 kg

# WT-5021-2Z

## BACK-TO-BACK (VACUUM SUCTION)

- **Back-to-Back type** can tighten two different screws on the same product on the same Y axis, so as to achieve extremely fast and efficient work mode.
- The operator can use manual positioning to do the programming. It is highly efficient and very easy to learn the operation.
- Support auto sensing start operation function.
- Servo Motor or Electric Screwdriver are optional. Both of them can adjust the torque and rotation speed freely.



Operating Range	X210 * Y1/500 * Z130mm / X210 * Y2/500 * Z135 mm (X x Y x Z)
Movement Speed	X/Y Axis: ≤500mm/s, Z Axis: ≤300mm/s
Repeatability Accuracy	± 0.03mm
Screwing Time for Each Screw	1.0~1.5s / piece
Suitable Screw Size	M1.5 - M4 (total screw length ≤ 16mm)
Control System	SCM + Touch Screen
Program Capacity	15 files, each file can save up to 100 points
Air Source	0.4 -0.6 Mpa
Dimensions	950 x 720 x 900mm (W x D x H)
Weight	100 kg

# WT-5023-2Z

## BACK-TO-BACK (SCREW DROP)

- **Back-to-Back type** can tighten two different screws on the same product on the same Y axis, so as to achieve extremely fast and efficient work mode.
- The screws feed to the screwdriver bit directly one by one through a tube, to achieve extremely fast feeding and screwing.
- The operator can use manual positioning to do the programming. It is highly efficient and very easy to learn the operation.
- Servo Motor or Electric Screwdriver are optional. Both of them can adjust the torque and rotation speed freely.



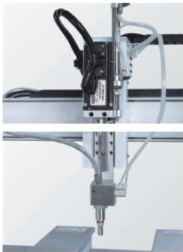
Operating Range	X230 * Y1/500 *Z135mm / X230 * Y2/500 * Z135 mm (X x Y x Z)
Movement Speed	X/Y Axis: ≤500mm/s, Z Axis: ≤300mm/s
Repeatability Accuracy	± 0.03mm
Screwing Time for Each Screw	0.8 ~ 1.2s / piece
Suitable Screw Size	M1.5 - M4 (total screw length ≤ 16mm)
Control System	SCM + Touch Screen
Program Capacity	15 files, each file can save up to 99 points
Air Source	0.4 - 0.6 Mpa
Dimensions	950 x 720 x 900mm (W x D x H)
Weight	100 kg



WT-7026-2Y

SCREW DROP TYPE

- With the work cabinet, the screwing performance is very stable and the working position can be moved flexibly.
- The screws feed to the screwdriver bit directly one by one through a tube, to achieve extremely fast feeding and screwing.
- The operator can use manual positioning to do the programming. It is highly efficient and very easy to learn the operation.
- With alarm function for fastening missing, untightened screws, worn thread, etc.
- Support auto sensing start operation function.
- Servo Motor or Electric Screwdriver are optional. Both of them can adjust the torque and rotation speed freely.



Operating Range	X260 * Y1700 * Y2700 * Z135 mm (X x Y x Z)
Movement Speed	X/Y Axis: ≤500mm/s, Z Axis: ≤300mm/s
Repeatability Accuracy	± 0.03mm
Screwing Time for Each Screw	0.8~1.2s / piece
Suitable Screw Size	M1.5 - M4 (total screw length ≤ 20mm)
Control System	SCM + Touch Screen
Program Capacity	15 files, each file can save up to 99 points
Air Source	0.4 -0.6 Mpa
Dimensions	1090 x 810 x 1750mm (W x D x H)
Weight	120 kg

WT-7024-2Z

BACK-TO-BACK (VACUUM SUCTION)

- **Back-to-Back type** can tighten two different screws on the same product on the same Y axis, so as to achieve extremely fast and efficient work mode.
- With the work cabinet, the screwing performance is very stable and the working position can be moved flexibly.
- The operator can use manual positioning to do the programming. It is highly efficient and very easy to learn the operation.
- With alarm function for fastening missing, untightened screws, worn thread, etc.
- Servo Motor or Electric Screwdriver are optional. Both of them can adjust the torque and rotation speed freely.



Operating Range	X240 * Y1700 *Z135mm / X240 * Y2700 * Z135 mm (X x Y x Z)
Movement Speed	X/Y Axis: ≤500mm/s, Z Axis: ≤300mm/s
Repeatability Accuracy	± 0.03mm
Screwing Time for Each Screw	1.0~1.5s / piece
Suitable Screw Size	M1.5 – M4 (total screw length ≤ 20mm)
Control System	SCM + Touch Screen
Program Capacity	15 files, each file can save up to 99 points
Air Source	0.4 -0.6 Mpa
Dimensions	1090 x 810 x 1750mm (W x D x H)
Weight	120 kg

# WT-7026-2Z

## WITH MECHANICAL ARM PICK-UP

- The back side can support a mechanical arm to pick up the products automatically after screwing completed.
- With the work cabinet, the screwing performance is very stable and the working position can be moved flexibly.
- The screws feed to the screwdriver bit directly one by one through a tube, to achieve extremely fast feeding and screwing.
- The operator can use manual positioning to do the programming. It is highly efficient and very easy to learn the operation.
- With alarm function for fastening missing, untightened screws, worn thread, etc.
- Servo Motor or Electric Screwdriver are optional. Both of them can adjust the torque and rotation speed freel.



Operating Range	X260 * Y1700 * Z135 mm (X x Y x Z)
Movement Speed	X/Y Axis: ≤500mm/s, Z Axis: ≤300mm/s
Repeatability Accuracy	± 0.03mm
Screwing Time for Each Screw	0.8 ~ 1.2s / piece
Suitable Screw Size	M1.5 - M4 (total screw length ≤ 20mm)
Control System	SCM + Touch Screen
Program Capacity	15 files, each file can save up to 99 points
Air Source	0.4 - 0.6 Mpa
Dimensions	1090 x 1300 x 1750mm (W x D x H)
Weight	130 kg

# LS-609N

## HAND-HELD 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.
- Lightweight and compact design
- Feed screws directly to the screw bit
- Increase productivity by 3 times
- Suitable for most of the electric screwdrivers



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	0.15 kg

S513  
DESKTOP 4-AXIS

- Provide the best solution for soldering jobs on lead-free, heat dissipating PCB, and high thermal capacity components.
- The heating system adopts Weller heater and soldering tip. The consumable parts are low cost.
- Saves 30% of the solder consumption comparing with manual soldering.
- Applicable for different products, soldering temperature can be set freely.
- With the handheld LCD Teaching Pendant, the programming is simple and easy to learn.
- The soldering tip has rapid heat recovery and a long life span.



Weller Heater & Soldering Tip



Solder Joint Range	X400 * Y400 * Z100mm (X x Y x Z)
Heating Power	150W
Input Voltage	AC 110V / 220V
Output Voltage	DC 24V
Solder Wire Diameter	0.5, 0.6, 0.8, 1.0, 1.2 (mm)
Preheating Temperature Range	0℃ - 500℃
Axis	4
Program Capacity	999 files, each file can save up to 999 points
Dimensions	720 x 700 x 810mm (W x D x H)
Weight	60 kg

S514  
DESKTOP 4-AXIS

- Provide the best solution for soldering jobs on lead-free, heat dissipating PCB, and high thermal capacity components.
- It adopts Apollo Seiko heating control system and its soldering cartridge, which achieves extremely fast heating up and suitable for smaller solder joints.
- Saves 30% of the solder consumption comparing with manual soldering.
- Applicable for different products, soldering temperature can be set freely.
- With the handheld LCD Teaching Pendant, the programming is simple and easy to learn.



Apollo Seiko Soldering Cartridge



Solder Joint Range	X400 * Y400 * Z100mm (X x Y x Z)
Heating Power	90W
Input Voltage	AC 110V / 220V
Output Voltage	DC 24V
Solder Wire Diameter	0.5, 0.6, 0.8, 1.0, 1.2 (mm)
Preheating Temperature Range	0℃ - 500℃
Axis	4
Program Capacity	999 files, each file can save up to 999 points
Dimensions	720 x 700 x 810mm (W x D x H)
Weight	60 kg



S5331R  
DESKTOP 5-AXIS

- Double Y Axis can achieve higher efficiency and more convenient operation.
- 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.



Solder Joint Range	X500 * Y1/300 * Y2/300 * Z100mm (X x Y x Y x Z)
Solder Time	1.0 ~ 1.5s / point
Repeatability Accuracy	$\pm 0.02\text{ mm}$
Solder Wire Diameter	0.5, 0.6, 0.8, 1.0, 1.2 (mm)
Air source	0.4 - 0.6 MPA
Axis	5
Program Capacity	999 files, each file can save up to 999 points
Dimensions	820 x 600 x 800mm (W x D x H)
Weight	65 kg

S5331D  
DESKTOP 4-AXIS

- Dual feeding and soldering units doubles the work efficiency to meet the needs of mass production.
- 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.



Solder Joint Range	X500 * Y1/300 * Y2/300 * Z100mm (X x Y x Y x Z)
Solder Time	1.0 ~ 1.5s / point
Repeatability Accuracy	$\pm 0.02\text{ mm}$
Solder Wire Diameter	0.5, 0.6, 0.8, 1.0, 1.2 (mm)
Air source	0.4 - 0.6 MPA
Axis	4
Program Capacity	999 files, each file can save up to 999 points
Dimensions	820 x 600 x 800mm (W x D x H)
Weight	65 kg

## DJ-331

### DESKTOP 3-AXIS

- Glue Dispensing Robot provides precise control over adhesive placement, from exact beads, to repeat timed dots or potting of components. Programming is simple via a teaching pendant. Even complex patterns can be created quickly.
- High speeds are achieved reducing time spent hand applying adhesives. Accuracy of placement and volume of fluid ensures zero waste, mess and error.
- It will dispense most materials including adhesives, pastes, epoxies, gels, silicones, sealants, oils, grease, UV, AB glue, EMI conductive glue, silver glue, red glue, etc.

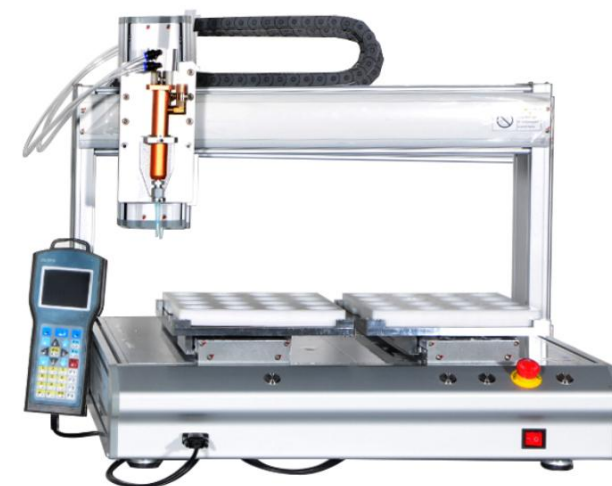


Drive Mode	3-Axis Precision Step Motor
Operating Range	X300 * Y300 * Z80 mm (X x Y x Z)
Repeatability Accuracy	± 0.02 mm
Movement Speed	0.1 ~ 800mm / sec
Maximum Load Weight	8kg / 4kg / 4kg (X / Y / Z)
Editing Mode	Teaching Pendant
Program Capacity	999 programs
Movement Patterns	Point-to-point / straight line / point, line, circle, arc
External Dimensions	450 x 450 x 520mm (W x D x H)
Weight	50 kg

## DJ-5331

### DESKTOP 4-AXIS

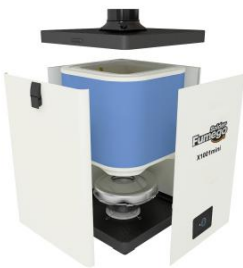
- Double Y Axis can achieve higher efficiency and more convenient operation.
- Replace the human labor and save labor cost.
- Simple and convenient operation, high speed and precise control.
- Realize the precise dispensing by the high-precision motor.
- High performance Linear structure platform with nice appearance.



Drive Mode	4-Axis Precision Step Motor
Operating Range	X500 * Y1/300 * Y2/300 * Z100mm (X x Y x Y x Z)
Repeatability Accuracy	± 0.02 mm
Movement Speed	0.1 ~ 800mm / sec
Maximum Load Weight	8kg / 4kg / 4kg / 3kg (X / Y / Y / Z)
Editing Mode	Teaching Pendant
Program Capacity	999 programs
Movement Patterns	Point-to-point / straight line / point, line, circle, arc
External Dimensions	650 x 630 x 680mm (W x D x H)
Weight	60 kg

X1001/ X1002 mini  
ECONOMIC VERSION

- New economic version, lower cost;
- Smaller size, but with bigger filtering capacity;
- 360° dirt filtering design increases the dirt holding capacity by two times;
- DC frequency conversion motor, intelligent and energy-saving, with a life-span as long as 40K hours;
- New diamond-shaped nozzle greatly increases the extraction area.



360° Dirt Filtering



X1001 mini



X1002 mini

Model	X1001 mini	X1002 mini
Power	80W	135W
Filters	3 layers	3 layers
Arms	1	2
Systemic Flow	180 m³/h	2 x 125 m³/h
Air Velocity	14 m/s	2 x 10 m/s
Filtering Efficiency	0.3µm 99.97%	0.3µm 99.97%
Length of Arm	Φ65mm x 1.4m	Φ65mm x 1.4m
Noise	< 55 dB	< 63 dB
Dimensions	280 x 280 x 430mm	280 x 280 x 500mm
Weight	9 kg	10 kg

F6001 / F6002  
FUME EXTRACTOR

- 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.



Pre-Filter

Middle Filter

Main Filter



F6001



F6002

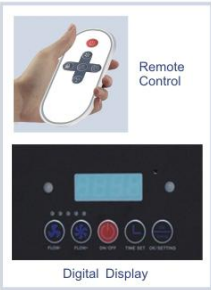
Model	F6001	F6002
Power	80W	200W
Filters	3 layers	3 layers
Arms	1	2
Systemic Flow	235 m³/h	2 x 150 m³/h
Air Velocity	17 m/s	2 x 11 m/s
Filtering Efficiency	0.3µm 99.97%	0.3µm 99.97%
Length of Arm	Φ75mm x 1.4m	Φ75mm x 1.4m
Noise	< 55 dB	< 55 dB
Dimensions	425 x 250 x 410mm	425 x 250 x 410mm
Weight	14 kg	14.5 kg



# F6001D / F6002D

WITH REMOTE CONTROL

- 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.



F6001D



F6002D

Model	F6001D	F6002D
Power	80W	200W
Filters	3 layers	3 layers
Arms	1	2
Systemic Flow	235 m³/h	2 x 150 m³/h
Air Velocity	17 m/s	2 x 11 m/s
Filtering Efficiency	0.3µm 99.97%	0.3µm 99.97%
Length of Arm	Φ75mm x 1.4m	Φ75mm x 1.4m
Noise	< 55 dB	< 55 dB
Dimensions	425 x 250 x 410mm	425 x 250 x 410mm
Weight	14 kg	14.5 kg