



**WASON TECHNOLOGY CO., LTD.**

# **Wason Technology Co., Ltd.**

Company Profile

&

International Business Report

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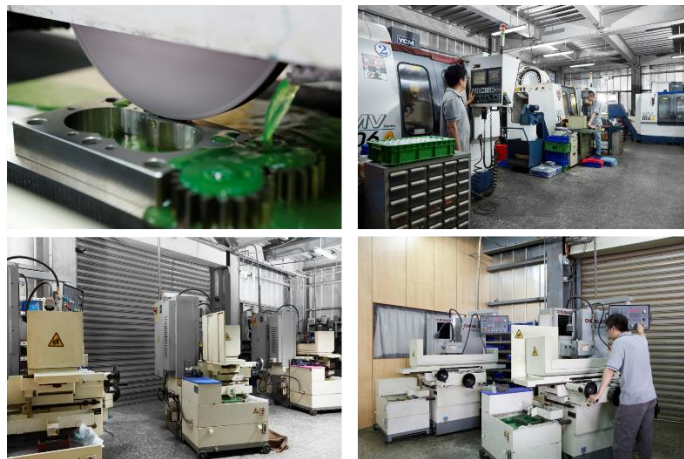
# 1. Introduction

## 1-1 History

- 1995 : Head office founded
- 2001 : Dong-guan branch factory founded
- 2005 : Moved to new location, authorized the distribution in Northern and Eastern Europe region



- 2006 : Applied precision CNC machine



(CNC machine for manufacturing our own brand metering pump and gun head)

- 2007 : Applied ERP system, authorized the distribution in India and Southern Asia region
- 2009 : Developed vacuum dispensing system



(Vacuum dispensing system)

- 2010 : Kun-shan branch and service office founded
- 2016 : Developed 6-Axis robot and automation dept.
- 2018~2020 : Planning the distribution in Japan, Thailand, and Vietnam region

## 1-2 Service process



**Step 1. Information:** discussing with client and recording technical information for machine designing. The information includes material data, productivity per day, and product detail...etc.



**Step 2. Meeting:** our engineer will visit clients' work field to ensure the machine specification is suitable for the application.



**Step 3. Quotation:** providing quotation document as reference.



**Step 4. Trial:** inviting client to do sampling by our experimental machine. It helps our client to know our capability of “precisely ratio control”, “shot size quantitative repeatability”, and “mixing result”.



**Step 5. Manufacturing:** based on the quote file and any feedback of trial to produce the equipment.



**Step 6. Test running:** inviting client to do test running after machine completed. In this section, we should verify the “precisely ratio control”, “shot size quantitative repeatability”, and “mixing result” again.



**Step 7. Delivery:** packing machine by standard package, transporting by safety solution to clients' work field.



**Step 8. Training:** project engineer leads the educational training with end-user.



**Step 9. Support:** all the core parts were made by Wason Taiwan, we provide complete support.



**Step 10. Problem shooting:** technical team is always on-call.

### 1-3 Our team / Organization



(Total 30 members in Taiwan Head Office/ Factory, June 2020)



#### Logistics Department

Complete storage of core components and spare parts

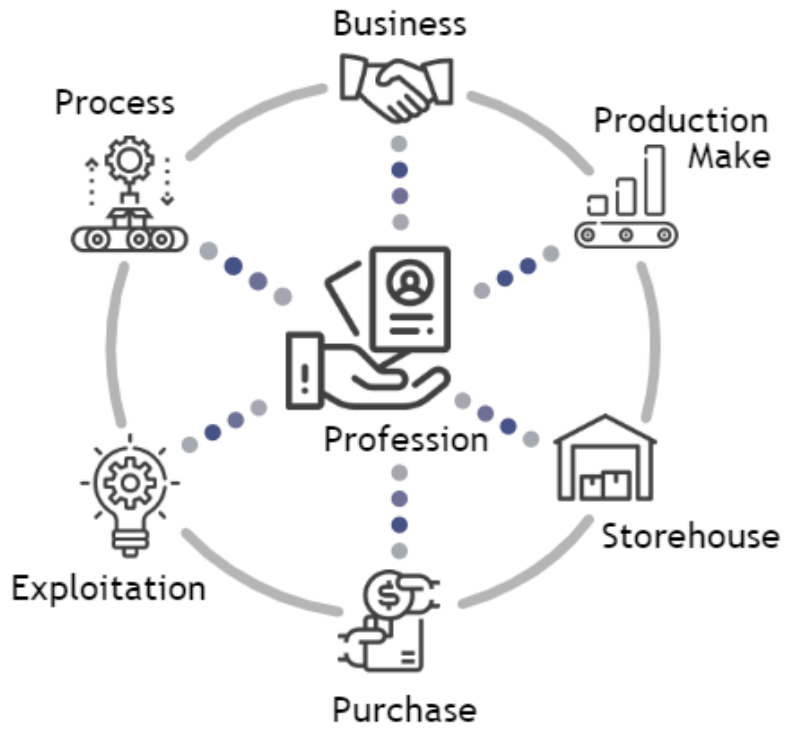


**Sales & RD division**  
Comprehensive customized consultation covers material, equipment, and application



**Engineer Team**  
The fastest service and support from our professional workers

## 1-4 Our advantages



Manufacturing Craft



Sufficient Storage



Experience



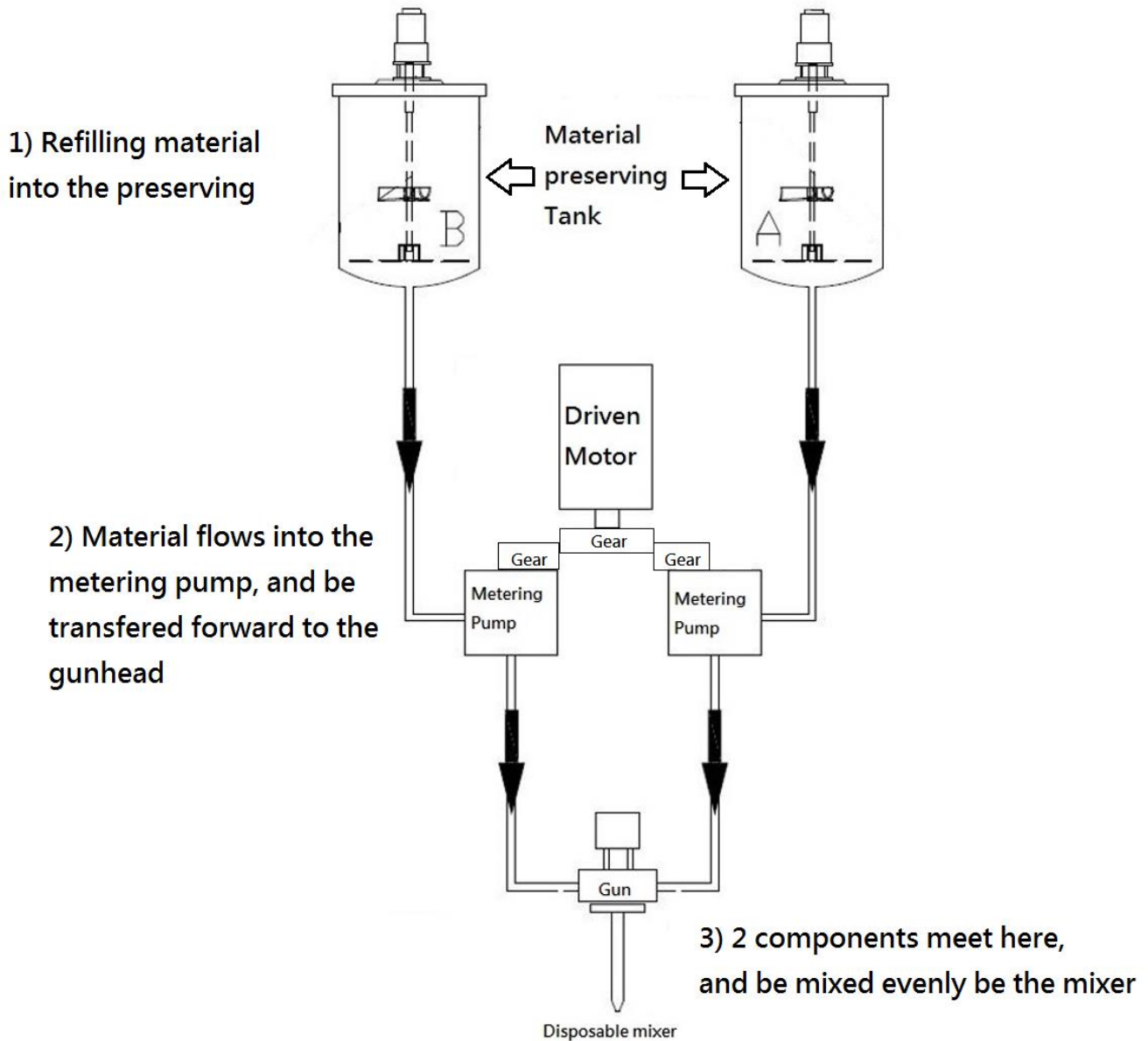
After-sale Service

## 2. Product

### 2-1 What is 2-component (2K) dispenser?

2K dispenser equipment should include:

- A) Two tanks for preserving A / B material
- B) Two metering pumps for transferring the material by correct ratio
- C) One gunhead for mixing the 2 components



(Working procedure)

## 2-2 Overview of our equipment



(G-180 table type)



(G-280 ground type)



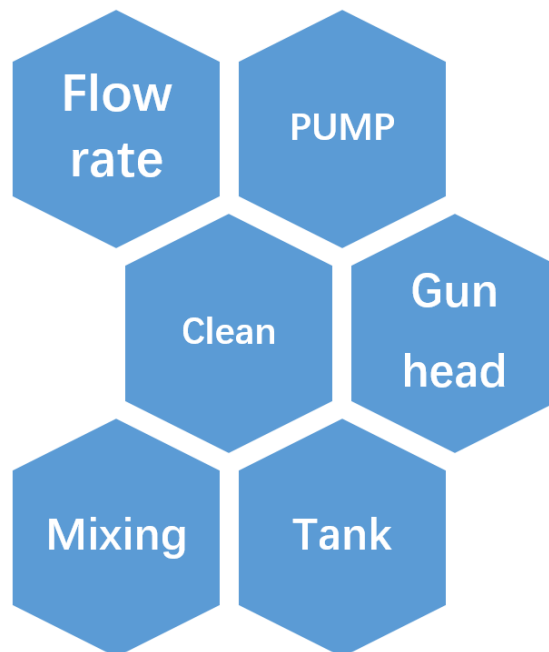
(G-380 ratio adjustable type)

## 2-3 The key-point

We will design a machine fit for the shot volume of your product.

Flushing device driven by air and solvent interact alternatively to increase the clean result.

Static mixing for ratio 1:1~100:25, and dynamic mixing for 100:20 ~ 100:5.



Metering pump made by ourselves, reliable on ratio performance and Repeatability.

Depends on different material, we offer the most suitable gun-head(valve) for client.

Customized tank with heater to reduce the viscosity, stirring module and vacuum valve to remove air, and auto refilling for large productivity.






## 2-4 Basic specifications of standard model

Model	G-180	G-260/280	G-360/380
Control system	Wason LCD User Friendly Communication System		Wason LCD User Friendly Communication System <b>Optional:</b> PLC with T-panel
Memory	7 groups	7 groups <b>Optional:</b> 50 groups	
Mixing method	Static mixing for ratio from 100:100~100:25 Dynamic mixing for ration from 100:20~100:5 depends on client's material		
Ratio	Fixed ratio based on client's material		Fixed ratio based on client's material <b>Optional:</b> variable ratio from 1:1~10:1
Tanks	SS304 A:5, 10L B:5, 10L	SS304, A:10, 20, 30,40L B:10, 20, 30,40L	SS304, A:20, 30, 40, 60L B:20, 30, 40, 60L <b>Optional:</b> expand tank module
Metering system	A: precision gear pump B: precision gear pump	Precision gear pump combination, or Cavity Screw Pump combination, depends on client's material <b>NOTE:</b> density lower than 1.5g/cm <sup>3</sup> = gear pump density higher than 1.5g/cm <sup>3</sup> = screw pump	
Hose	NL or TF hose, depends on material		
Vacuum Pumps	External 1HP vacuum pump with box Pump MIT brand		Inner vacuum 1HP pump <b>Standard:</b> MIT brand <b>Optional:</b> Alcatel
Heaters	Analogy tank and hose heater		Digital tank and hose heater
OD (cm)	W65 x D65 x H70	W135 x D50 x H130	W125 x D70 x H140
Customized features	<ol style="list-style-type: none"> <li>1) Dry can for material B to block moisture</li> <li>2) Auto purge device to prevent cured in the mixer</li> <li>3) Auto cleaning function to flush the disposable mixing tube</li> <li>4) Auto refill for large productivity</li> <li>5) Daily-auto power On/Off switch</li> <li>6) R-circulation hose system to prevent sedimental issue</li> </ol>		

## 2-5 The core parts

### 2-5-1 Gear Pump (for low density, non-filler material)

		
<b>1A level Gear Pump</b>	<b>3A level Gear Pump</b>	<b>5A level Gear Pump</b>
Suitable for mPas 40 ~ 1000	Suitable for mPas 500 ~ 100000	Suitable for mPas 500 ~ 100000
flow rate (1 circle)	flow rate (1 circle)	flow rate (1 circle)
0.3cc	2cc	10cc
0.4cc	3cc	12cc
0.5cc	4cc	14cc
0.6cc	5cc	16cc
1.0cc	6cc	18cc
1.5cc	8cc	20cc
2.0cc	10cc	25cc
2.5cc	12cc	30cc
3.0cc	15cc	40cc



#### Special type:

- 1) 0.75A level gear pump for extremely small shot size
- 2) 6A, 7A, 8A level gear pump for extra-large out-put volume



(Gear pump)

**2-5-2 Screw Pump (for high density, material includes abrasive filler)**

	
<b>1C Screw Pump</b>	<b>7C Screw Pump</b>
Suitable for mPas 3000 ~ 100000	Suitable for mPas 3000 ~ 100000
flow rate (1 circle)	flow rate (1 circle)
1cc	7cc

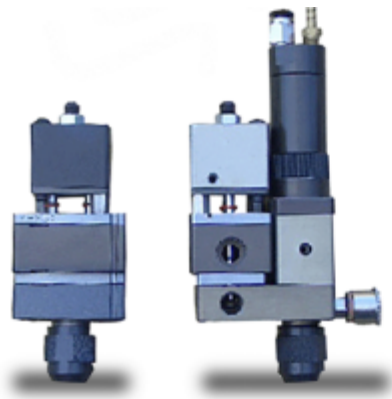
**Special type:**

- 1) 0.5C screw pump for small shot size
- 2) 14C, 28C screw pump for large shot size



(Screw pump)

### 2-5-3 Gun-Head



(M-650E)


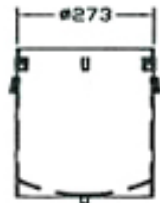
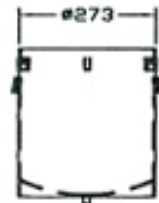
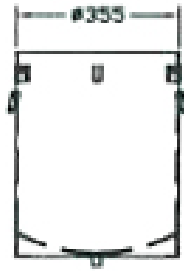
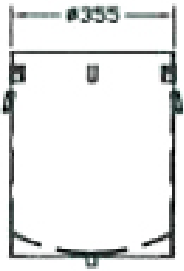
(D-850)

### Dispensing valves

Wason brand two component AB glue mixing gun, non-dripping function ensures the working table clean, easy to do manually maintain process. Static mixing gun for material ratio 1 : 1 ~ 4 : 1, dynamic mixer for AB glue ratio 5 : 1 ~ 100 : 10.

<b>Single Fluid</b>	
P-10	Small Volume (handle version)
Q-10	Small Volume (linked with equipment)
Q-20	Medium Volume (linked with equipment)
QD-20	Large Volume
<b>Two Component (Static Valve)</b>	
S-600	Small Volume
MS-650E	Small/ Medium Volume
M-650E	Medium Volume
L-700	Large Volume
<b>Two Component (Dynamic Valve)</b>	
D-800S	Small Volume
D-800	Small/ Medium Volume
D-850	Medium Volume
D-900	Large Volume

### 2-5-4 Pressure Tank

				
<b>7L</b>	<b>20L</b>	<b>30L</b>	<b>40L</b>	<b>60L</b>
Height 250mm	Height 370mm	Height 550mm	Height 400mm	Height 600mm

#### Special type:

90L, 120L, 200L, 240L, 300L or even larger depends on clients' requirement.

### 3. Application

#### 3-1 Material and product

<p>Epoxy Coil encapsulation</p> 	<p>PU (Polyurethane) Coil encapsulation</p> 	<p>Silicone Silicone belt</p> 
<p>TPMS waterproof</p> 	<p>Product name-plate</p> 	<p>Anti-slip</p> 
<p>Ignition water-proof</p> 	<p>Filter bonding</p> 	<p>Silicone insole</p> 
<p>Transformer heat conduction</p> 	<p>PU forming product</p> 	<p>Power module heat conduction</p> 
<p>Car-Elec water-proof</p> 	<p>PU wheel and shoes mould</p> 	<p>Silicone foaming product</p> 

### 3-2 The 6 primary application areas

#### 3-2-1 Potting and insulation



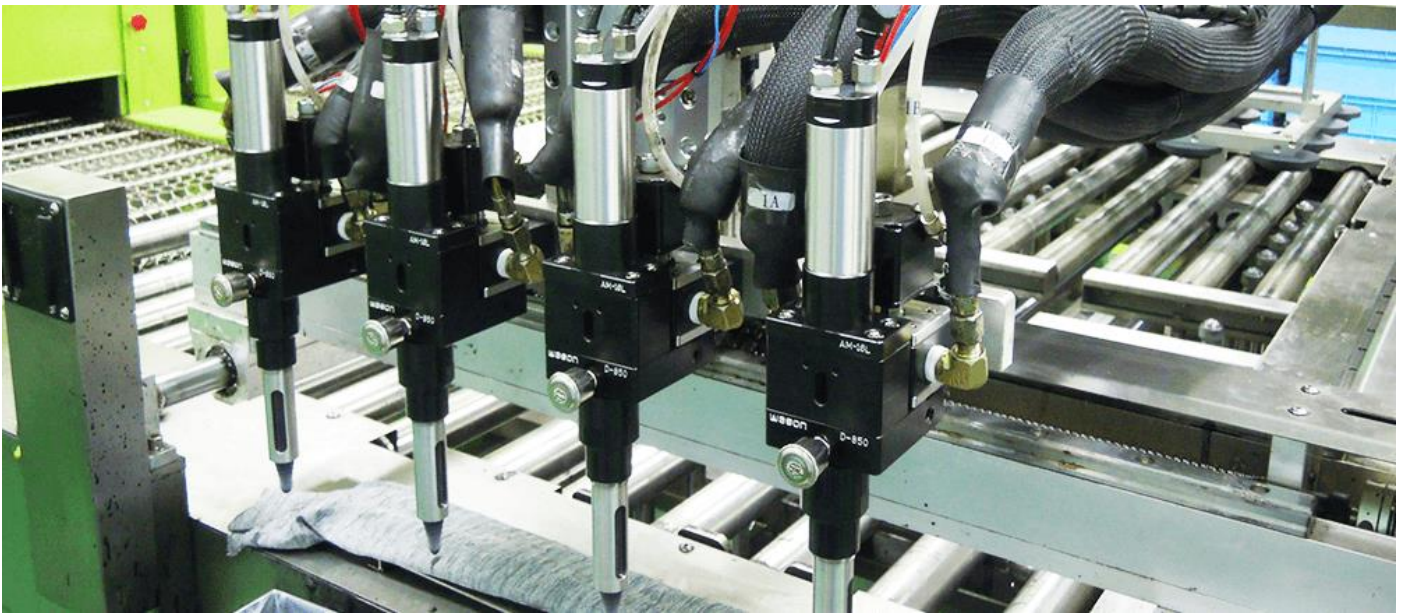
<b>Recommended machine type</b>	G-180, G-260/280, G-360/380
<b>Target material</b>	Epoxy, PU (polyurethane), silicon
<b>Automation solution</b>	3-Axis table
<b>Possible product type</b>	Name plate, PCB protection, IC protection, filter bonding, car-electronic component waterproof

#### 3-2-2 Dispensing Coating



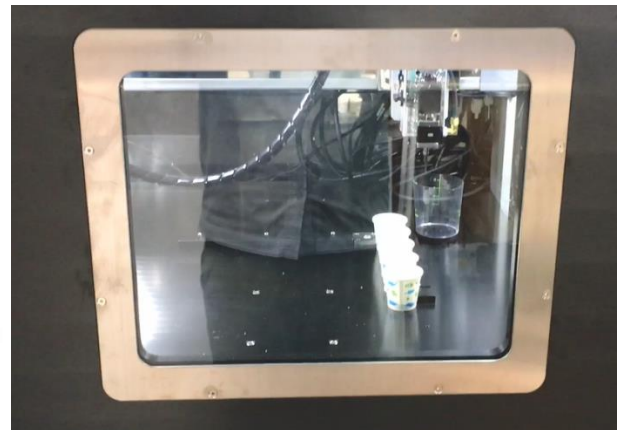
<b>Recommended machine type</b>	G-360/380, G-460/480, multiple color/ component dispenser
<b>Target material</b>	Epoxy, PU (polyurethane)
<b>Automation solution</b>	Continues auto production line, conveyor oven
<b>Possible product type</b>	PU leather, artificial leather, car-used artificial leather, carbon fiber prepreg, multiple color switching product

### 3-2-3 Casting and Encapsulation



<b>Recommended machine type</b>	G-180, G-260/280, G-360/380
<b>Target material</b>	Epoxy, PU (polyurethane), silicon
<b>Automation solution</b>	3-Axis table, continues auto production line, conveyor oven, suitable to apply multiple nozzle head
<b>Possible product type</b>	Car LED light, LED light, filter, car-used coil, small size electronic component

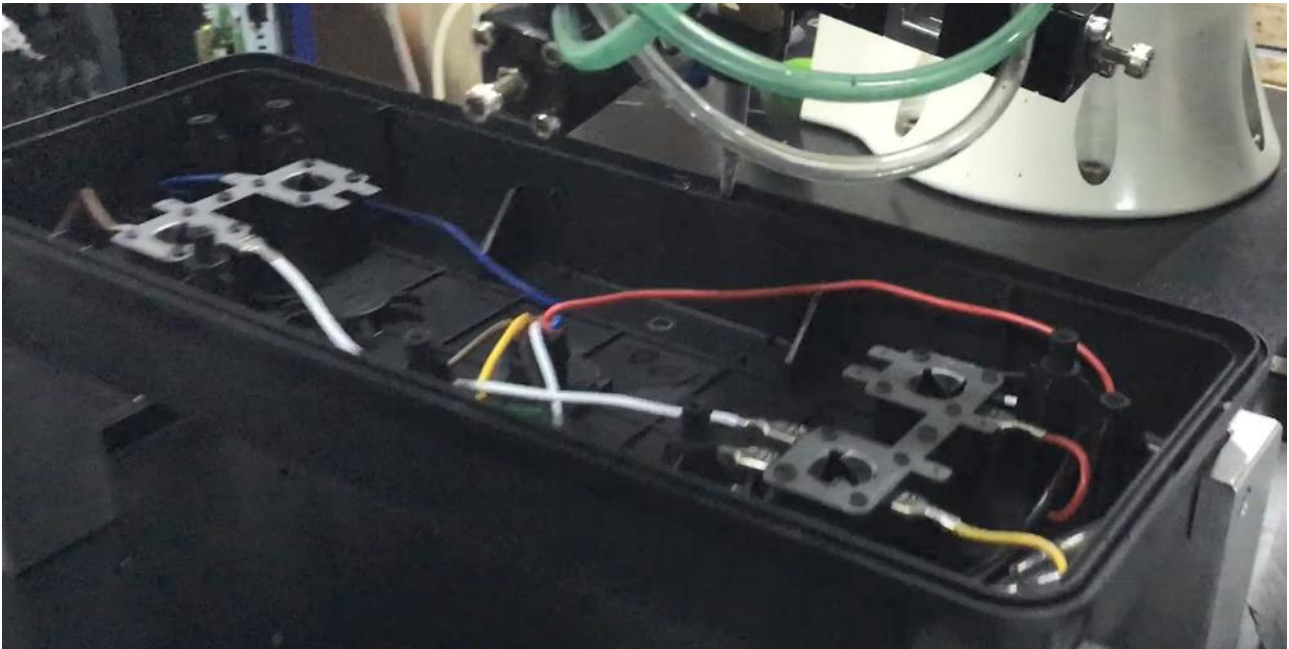
### 3-2-4 Vacuum Dispensing



(VD-4040R Vacuum Dispensing System and the working chamber)

<b>Recommended machine type</b>	VD-series auto vacuum dispensing system, VF-series vacuum chamber, Automation vacuum dispensing production line
<b>Target material</b>	Epoxy, PU (polyurethane), silicon
<b>Automation solution</b>	Included already
<b>Possible product type</b>	Servo motor coil heat conduction, submarine pump explosion-proof, TPMS, parking sensors...etc

### 3-2-5 Foaming



<b>Recommended machine type</b>	G-380, G-460/480
<b>Target material</b>	PU (polyurethane), silicon
<b>Automation solution</b>	WR-series 3-axis table, AR-series 6-axis robot arm
<b>Possible product type</b>	Liquid level sensor (float ball), construction usage, shoes, anti-noise product, FIPFG - Formed In Place Foam Gasket, LED light module sealing and waterproof...etc

### 3-2-6 Automatic System



<b>Recommended machine type</b>	Rotary table series, VD-series vacuum dispensing system, continues auto production line, multiple nozzle head
<b>Target material</b>	PU (polyurethane), epoxy, silicon
<b>Automation solution</b>	Oven, loading/ unloading module, AOI camera
<b>Possible product type</b>	Fully customized approached



### 3-3 Catalog

**Model:** G-180 with R-01R single station rotary table

**Suitable for:** epoxy, silicone, acrylic dispensing/ bonding



**Model:** G-180 with R-300C table type 3-axis robot

**Suitable for:** epoxy, silicone, PU, acrylic dispensing/ bonding



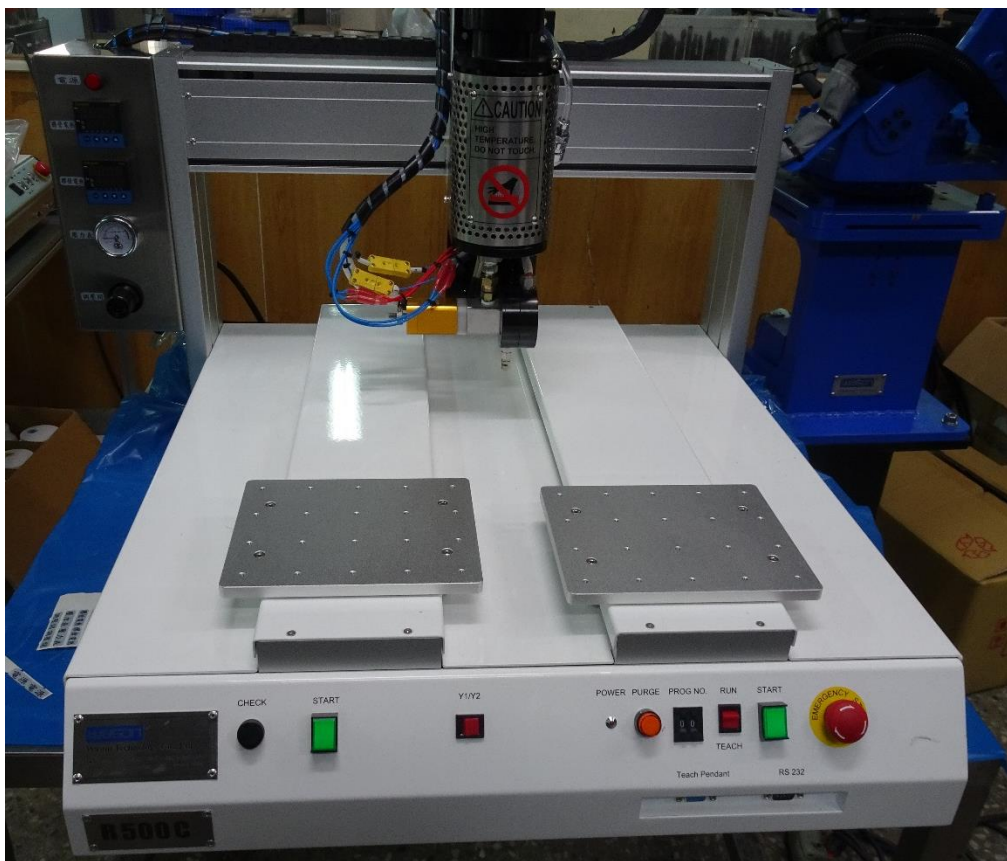
**Model:** R-08R multiple station rotary table

**Suitable for:** epoxy, silicone, PU, acrylic dispensing/ bonding



**Model:** R-500C-2 table type 3-axis 2-stations robot

**Suitable for:** epoxy, silicone, PU, dispensing/ bonding, Hot melt adhesive



**Model:** G-260/280 (handle valve)

**Suitable for:** epoxy, silicone, PU dispensing/ potting/ encapsulating



(Operator and the handle valve)

**Model:** G-280F single fluid plate dispenser

**Possible application:** Dow corning 7091 sealing, high viscosity silicone sealing



**Model:** G-360/380 (gun holder)

**Suitable for:** epoxy, silicone, PU dispensing/ potting/ encapsulating/ foaming/ insulating



(Operator and the gun holder)

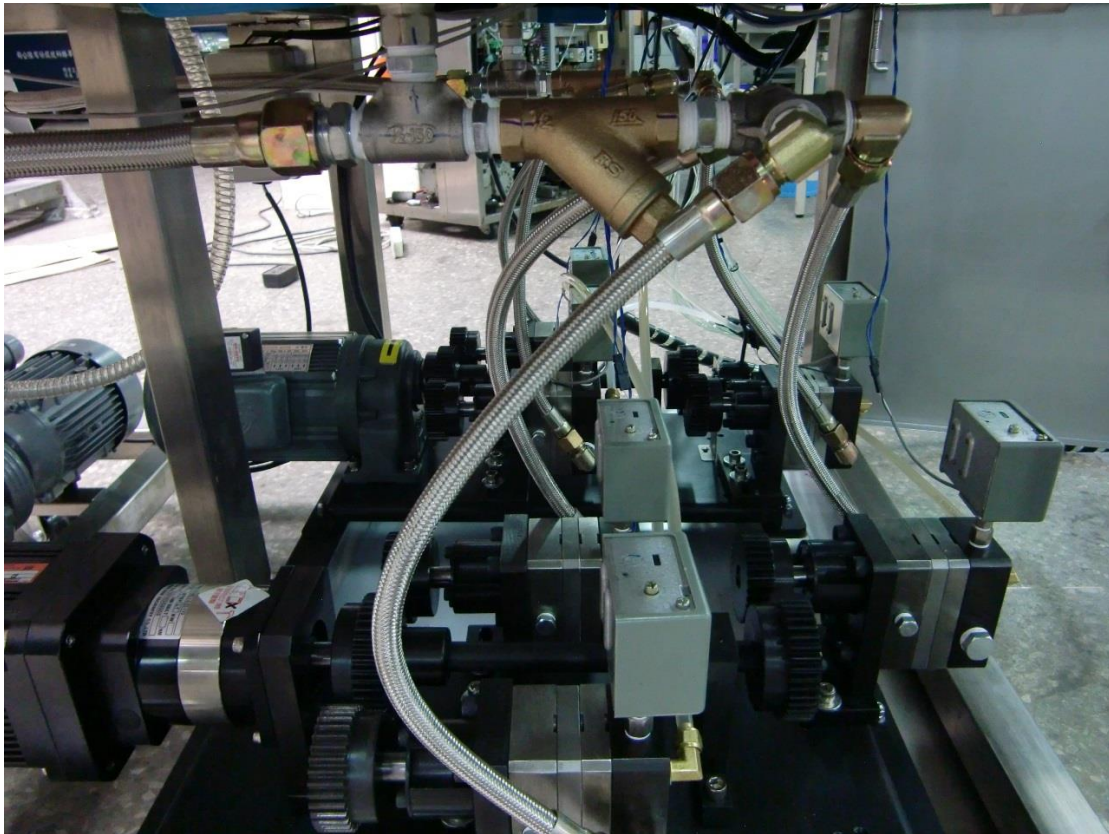
**Model:** G-360/380 (two valves with holder)

**Suitable for:** epoxy, silicone, PU dispensing/ potting/ encapsulating/ foaming/ insulating



**Model:** G-360/380 (Multiple valves with holder)

**Suitable for:** epoxy, silicone, PU dispensing/ potting/ encapsulating/ foaming/ insulating



Multiple valve equipment requires the same numbers of metering pump set (A+B) to achieve:

- 1) Exactly same shot size accuracy among each valve
- 2) Coordinate flow rate based on the product

**Model:** WR-500 (ground type 3-axis robot)

**Suitable for:** link with 2K dispenser to do semi-auto production



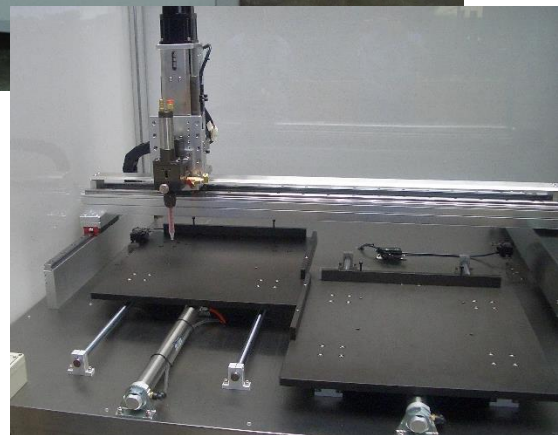
**Model:** WR-1160 (ground type 3-axis robot, large working dimension)

**Suitable for:** link with 2K dispenser to do semi-auto production



**Model:** G-360/380 with WR-500-2 (ground type 3-axis 2-stations robot)

**Suitable for:** epoxy, silicone, PU dispensing/ potting/ encapsulating/ insulating/ sealing



(possible to link with 2 valves)

(demonstration of 2 station)

命令	參數說明
1	無
2	無
3	無
4	無
5	無
6	無
7	無
8	無
9	無
10	無
11	無
12	無
13	無
14	無
15	無
16	無
17	無

(Self-design 3-Axis software – Wason Glue Controller Axis, 2019 ver.)

**Model:** G-460/480 (4 tanks model)

**Suitable for:** epoxy, silicone, PU dispensing/ potting/ encapsulating/ foaming/ insulating



**Model:** G-460/480 with Auto refill piston pump

**Suitable for:** epoxy, silicone, PU dispensing/ potting/ encapsulating/ foaming/ insulating



(Pump set)



**Model:** G-460/480 with Extra A tank module and WR-800 ground type 3-axis robot

**Suitable for:** epoxy, silicone, PU dispensing/ potting/ encapsulating/ foaming/ insulating



**Model:** G-480 Mechanical high speed 3-component dispenser

**Suitable for:** epoxy, PU coating/ color switching application



(Supporting maximum 3 components mixing)

**Model:** G-480 Mechanical high speed 6-component dispenser

**Suitable for:** epoxy, PU coating/ color switching application



(Supporting maximum 6 components mixing, A+B, with color 1<sup>st</sup> to 4<sup>th</sup>)



(Mechanical high speed mixing valve module)



(Pigment preserving tank C1<sup>st</sup> ~C4<sup>th</sup>)

**Model:** Full auto dispensing conveyor with in-line oven, loading/ unloading station

**Suitable for:** continues production line



(System overview)



(Control panel)



(Potting station, 4 valves)



(Loading/ unloading station)

## 4. Our Future Plan

### 4-1 Vision



**Sharing our  
experience**



**Extending  
international  
service base**



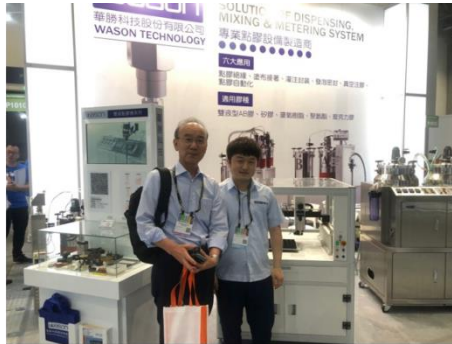
**Developing  
dispensing technique  
and equipment**

### 4-2 Our Belief



**Sustainable development**

**Trust, service, and move forward**



**Value creation**

**Focusing on our own specialty;**

**Always provide the most reliable equipment**



**Team work**

**Passion, honest, Dedication**

**YouTube Link:** <https://www.youtube.com/channel/UCL1JT-quJLLu6uFEp0-gXmw>



**Official LINE account:**

*We appreciate all your help and trust,  
sincerest blessings to our friends and partners.  
**Wason Tech.***

## 5. Technical Data Sheet

### 1) Material data sheet for potential client

Application Description Requirements							
Shot Size		Flow Rate		Frequency		Shifts	
Part Description				End Product			
Select all that apply:		<input type="checkbox"/> Beading	<input type="checkbox"/> Potting	<input type="checkbox"/> Doming	<input type="checkbox"/> Spraying	<input type="checkbox"/> Encapsulating	<input type="checkbox"/> Other (specify below)
Material Specification - (PLEASE SEND TDS DATA SHEETS IN ENGLISH)							
Material Manufacturer				Product Number			
Type:	<input type="checkbox"/> Epoxy	<input type="checkbox"/> Polyurethane	<input type="checkbox"/> Silicone	<input type="checkbox"/> Gel	<input type="checkbox"/> Methacrylate	<input type="checkbox"/> Other (specify below)	
Other Type (please specify):				Curing Mechanism			
Mixed Specific Gravity				Gel Time / Pot Life			
PART A				PART B			
Viscosity							
Specific Gravity							
Mix Ratio (by volume)							
Mix Ratio (by weight)							
Filler Type (if any)							
Supply Container							
Other Properties (check all that apply)	Filled	<input type="checkbox"/> YES <input type="checkbox"/> NO		Filled	<input type="checkbox"/> YES <input type="checkbox"/> NO		
	Abrasive	<input type="checkbox"/> YES <input type="checkbox"/> NO		Abrasive	<input type="checkbox"/> YES <input type="checkbox"/> NO		
	Corrosive	<input type="checkbox"/> YES <input type="checkbox"/> NO		Corrosive	<input type="checkbox"/> YES <input type="checkbox"/> NO		
	Thixotropic	<input type="checkbox"/> YES <input type="checkbox"/> NO		Thixotropic	<input type="checkbox"/> YES <input type="checkbox"/> NO		
	Moisture-Sensitive	<input type="checkbox"/> YES <input type="checkbox"/> NO		Moisture-Sensitive	<input type="checkbox"/> YES <input type="checkbox"/> NO		
Prospect's Machine Requirements							
PART A				PART B			
Reservoir Size							
Reservoir Heating	<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/> YES	<input type="checkbox"/> NO		
Pump Heating	<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/> YES	<input type="checkbox"/> NO		
Hose Heating	<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/> YES	<input type="checkbox"/> NO		
Agitation	<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/> YES	<input type="checkbox"/> NO		
Nitrogen Blanketing	<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/> YES	<input type="checkbox"/> NO		
Vacuum Degassing	<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/> YES	<input type="checkbox"/> NO		
Auto - Bulkfeed	<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/> YES	<input type="checkbox"/> NO		
Low Level Sensing	<input type="checkbox"/> YES	<input type="checkbox"/> NO		<input type="checkbox"/> YES	<input type="checkbox"/> NO		
Additional Machine Controls	Anti-Gel Timer	<input type="checkbox"/> YES <input type="checkbox"/> NO		Shot Counter/Repeater	<input type="checkbox"/> YES <input type="checkbox"/> NO		
	Full Shot	<input type="checkbox"/> YES <input type="checkbox"/> NO		Operator Shot Size Control	<input type="checkbox"/> YES <input type="checkbox"/> NO		
Machine Actuation	Handheld Trigger	<input type="checkbox"/> YES <input type="checkbox"/> NO		Push Button	<input type="checkbox"/> YES <input type="checkbox"/> NO		
	Foot Pedal	<input type="checkbox"/> YES <input type="checkbox"/> NO		Remote Signal	<input type="checkbox"/> YES <input type="checkbox"/> NO		
Valve Mount	Machine Mounted	<input type="checkbox"/> YES <input type="checkbox"/> NO		Handheld	<input type="checkbox"/> YES <input type="checkbox"/> NO		
	Remote Mounted	<input type="checkbox"/> YES <input type="checkbox"/> NO		Robot Mounted	<input type="checkbox"/> YES <input type="checkbox"/> NO		
Mixer Type	Static	<input type="checkbox"/> YES <input type="checkbox"/> NO		Rotary Static	<input type="checkbox"/> YES <input type="checkbox"/> NO		
	Dynamic	<input type="checkbox"/> YES <input type="checkbox"/> NO		Solvent Flush	<input type="checkbox"/> YES <input type="checkbox"/> NO		

2) Machine test running check list

## Testing Report

Customer:	Contact Person:	TEL:
Model:	Material:	Supplier:
Ratio (Weight):	Mixer:	Date:

NO.	SUBJECT	RESULT
1	Ratio Testing Sample: 1. A _____ B _____ 2. A _____ B _____ 3. A _____ B _____ 4. A _____ B _____ 5. A _____ B _____	
2	Anti-dripping (suction draw back) Function	
3	Shot Size Stability Sample: 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____	
4	Material Tank Heater Inspection A: _____ B: _____	
5	Stir Motor and Speed Adjustment A: _____ B: _____	
6	Level Sensor Testing A: _____ B: _____	
7	Material Tanks Seal Up Testing A: _____ B: _____	
8	Delivery Tube Heater Inspection A: _____ B: _____	
9	Curing Result Post Mixing	
10	Electric Leakage (Connected to the ground)	

<p><b>Wason Technology Co., Ltd.</b></p>  <p>Q.C.: _____ Approval: _____</p>
--

<p>Customer:</p>  <p>Confirmed by : _____</p>
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