



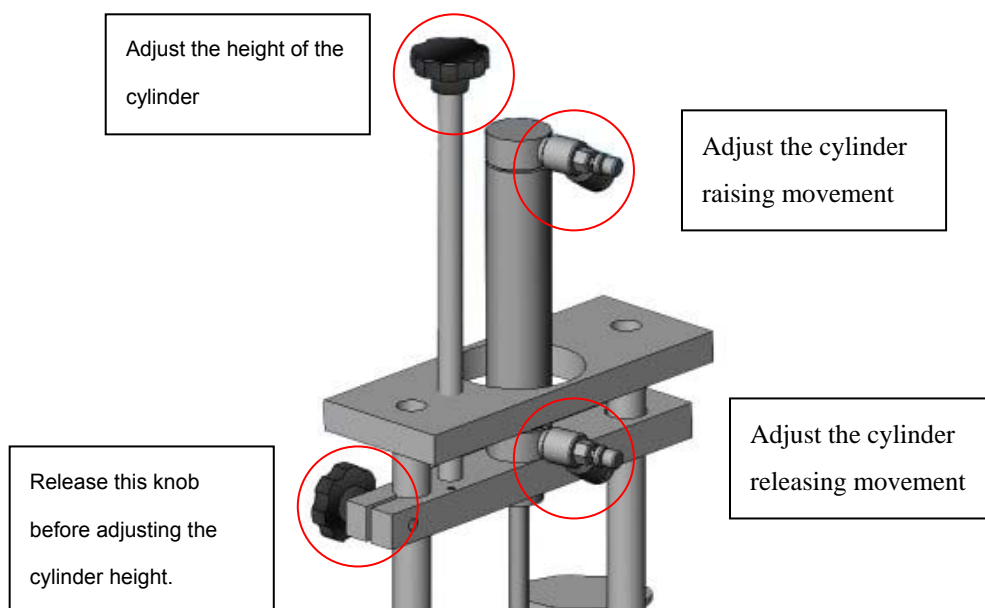
ES900 Rotary System Manual

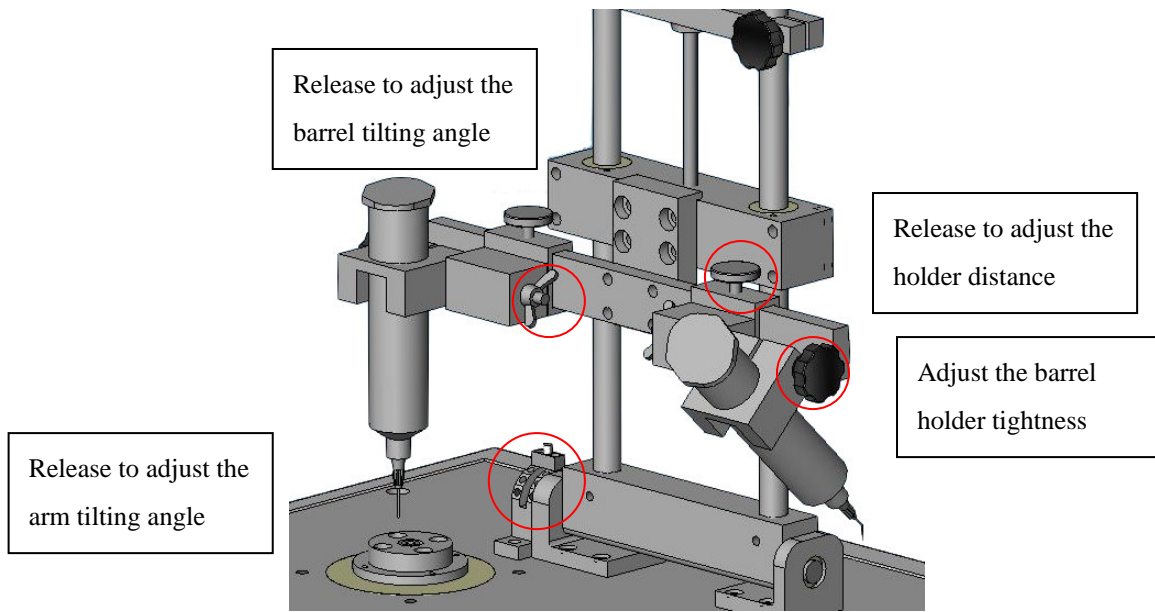
1. Package contains the following items :

- ES900 Rotary System
- Power Cord
- Air Pressure Connector
- Barrel Adapter Set
- Startup Kit

2. Hardware Setup :

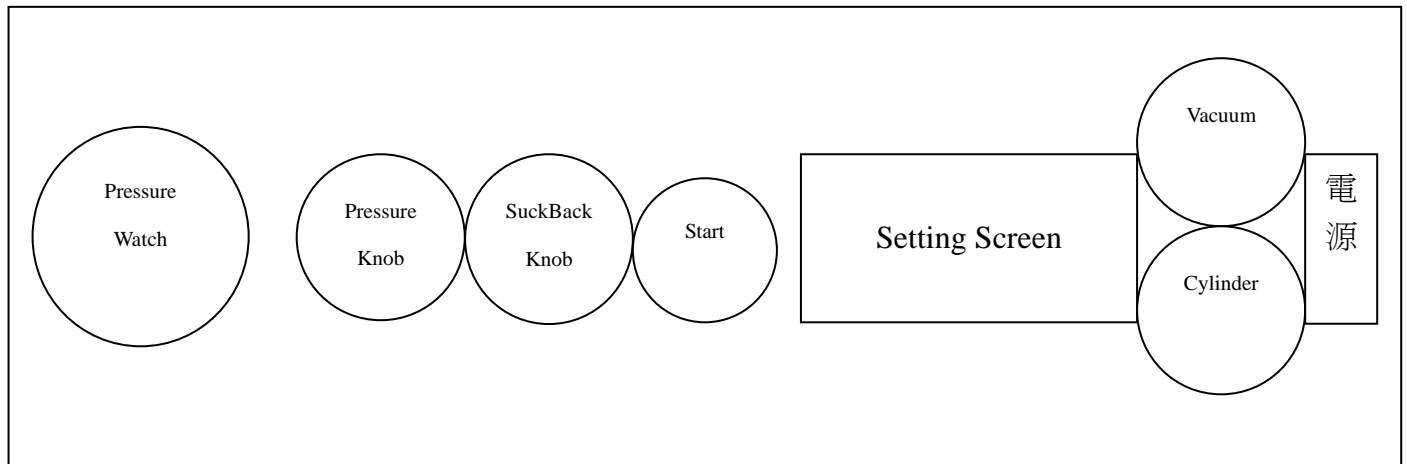
- Please connect the Air Pressure Connector on the back of the system to the nearby air compressor line.
- Insert two barrels with barrel adapter in the barrel holders on the air cylinder arm and connect the adapter to the back of the system.
- Please make sure the voltage (110V or 220V) and any unnecessary object on the system before connecting the power cord.
- Turn on the power switch and make sure all the light and panel screen are functioned properly.
- Place the process object on the system and press the vacuum button to release the vacuum in order to prevent the object from any movement.
- Press the cylinder button to release the cylinder to the process height. Adjust the height knob to match the cylinder height with your process object. You can adjust the process angle by adjusting the arm angle knob. Also you can adjust the barrel holders' angle and distance separately as well.
- Press the cylinder button several times to make sure the releasing and raising of the cylinder is smoothly. You can adjust the movement by adjusting the pressure knob on the back of the cylinder.
- Place the suitable needle on the barrel and adjust the barrel air pressure and suck back pressure.





3. Control Setting :


Control Panel



Setting Screen

a. ARM	b. VAC	a-1. HAND	a-2. RETU	e. ▲	h. ONCE
		b-1. STOP	b-2. VINT		
d. SPIN	c. DISP	c-1. STOP	c-2. TMR	f. ▼	i. CONT
		d-1. ST	d-2. SP		



- a. ARM : cylinder setting
 1. HAND releasing time (sec) : Set the delay time to release the cylinder after pressing the “START” button. Please make sure the time is longer than 0.01 second.
 2. RETU intermittent time (sec) : Set the intermittent time between each process action. This setting will affect the time of next process action and you can not start another action before this time.
- b. VAC : object vacuum setting
 1. STOP vacuum delay sec) : Set the delay time to activate the vacuum after pressing the “START” button.
 2. VINT vacuum time (sec) : Set the object vacuum time on the rotary system.
- c. DISP : dispensing setting
 1. STOP dispense delay (sec) : Set the delay time to activate the dispenser after pressing the “START” button. Please set the time longer than the cylinder releasing time to prevent the adhesive leakage in the air.
 2. TMR dispense time (sec) : Set the dispensing time of the dispenser. Please set the time according to the rotary motor spinning time, you can decrease the time if you want to stop the dispensing before the motor stop.
- d. SPIN : motor setting
 1. ST spin delay (sec) : Set the delay time to activate the motor after pressing the “START” button. Normally you can set the time longer than the cylinder releasing time or you can decrease the time if the dispense volume is too much at the starting point.
 2. SP spinning time (sec) : Set the spinning time of the rotary motor. You can set this value according to the spinning speed in order to control the spinning angle and number to rotation. Please do not set this value less than vacuum time and dispense time, else all the action will cancel and reset after the spinning time.
 3. ϕ spinning speed (pulse/sec) : Set the spinning speed of the rotary motor. The change will affect the spinning angle and number of rotation.
- e. ▲ (value up) : Increase the setting value.
- f. ▼ (value down) : Decrease the setting value.
- g.  (selection) : Switch between each function setting.
- h. ONCE (single action) : Activate the single process action base and beware that the “RETU” intermittent time setting. You will not be able to activate the action again before the intermittent time.
- i. CONTIN (continuous action) : Activate the continuous process action base on the “RETU” intermittent time setting. Press this button again to stop the action.
- j. SAVE (save setting) : Save the new setting after you change any values.

4. Example :

Setting	Time (sec)			0				1				2				After 2.0 sec, the system will wait for 5.0 sec before next action
	0.5	5.0														
ARM	0.5	5.0													Wait for 0.5 sec then releasing the cylinder	
VAC	0.0	2.5													No wait time and release the vacuum for 2.5 sec.	
DISP	1.5	1.0													Wait for 1.5 sec then dispense for 1.0 sec	
SPIN	1.0	2.0	100												Wait for 1.0 sec then spin for 2.0 sec.	



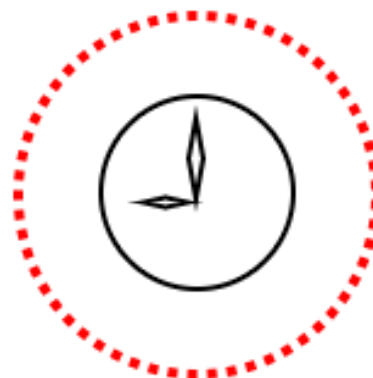
5. Three main reasons that control the dispensing volume :



Needle type and size



Air pressure volume



Dispensing time

6. Maintenance and Precaution :

The dispenser is designed and built to be relatively maintenance free. To assure trouble free operation, the following recommendations should be followed :

- a. Make certain air supply is clean and dry.
- b. Avoid turning barrels upside down or laying barrel so that material may run through air line to internal components.
- c. Avoid turning the vacuum to large and cause the generation of bubbles in the material or the material to run back into the system.
- d. If the piston inside the barrel is running up and down during the dispensing, it is mean the material has really high viscosity and you will need to replace the piston with red or rigid piston.
- e. Avoid connecting the unit to excessive moisture or solvent saturation.
- f. Avoid connecting air supply exceeding 7 kg/cm² (100 psi) and 2 kg/cm² (30 psi) for low pressure dispenser.
- g. Use only Amyl Alcohol to clean outside surface of the main housing.
- h. Please take off the barrel with needle after use and rinse through solvent. If you want to save the barrel for further use, please take off the needle and replace with safety tip (optional) or place the barrel on the barrel stand to prevent solidification.

7. Troubleshooting :

Problem	Possible Cause	Correction
Indicator or display does not light	<ul style="list-style-type: none"> • no power input • PCB main board damage 	<ul style="list-style-type: none"> • check power cord connection • turn on power • replace new PCB main board
Cannot dispense	<ul style="list-style-type: none"> • foot pedal not plugged in properly • defective foot pedal • foot pedal port broken or loosen • defective Solenoid Valve 	<ul style="list-style-type: none"> • check connection • foot pedal needs to be repaired or replaced • remove the cover and check for broken or loosen



		<ul style="list-style-type: none"> • replace the valve and make sure you use the appropriate piston and do not turn the vacuum too large
System will not pressurize	<ul style="list-style-type: none"> • Insufficient air pressure • air pressure connector not plugged in • regulator defective 	<ul style="list-style-type: none"> • increase air supply pressure • check connection • replace pressure regulator
System will not pull vacuum	<ul style="list-style-type: none"> • vacuum setting is too low • barrel piston not appropriate • adhesive too watery or full 	<ul style="list-style-type: none"> • increase vacuum volume • replace with appropriate piston • replace with different adhesive and fill only 3/4 full in the barrel
Inconsistent dispensing	<ul style="list-style-type: none"> • air bubbles in adhesive • dispensing needle not appropriate • dispensing needle clogged 	<ul style="list-style-type: none"> • decrease vacuum setting and de-bubble the adhesive before filling • replace with different type of needle • replace needle

8. Limited warranty :

Ever Sharp warrants this product to the original purchaser for a period of one year from date of purchase to be free from material and workmanship defects but not normal wear-and-tear, abuse and faulty installation. Defective product or subassembly and components under warranty will be repaired or replaced (at Ever Sharp option) free of charge. Customer with defective product under warranty must contact the nearest Ever Sharp office or distributor to secure a return authorization prior to shipping the product to the assigned Ever Sharp authorized service center. For nearest Ever Sharp office or distributor contact information, please visit www.eversharp.com.tw or contact our staff. Ever Sharp reserves the right to make engineering product changes without notice.