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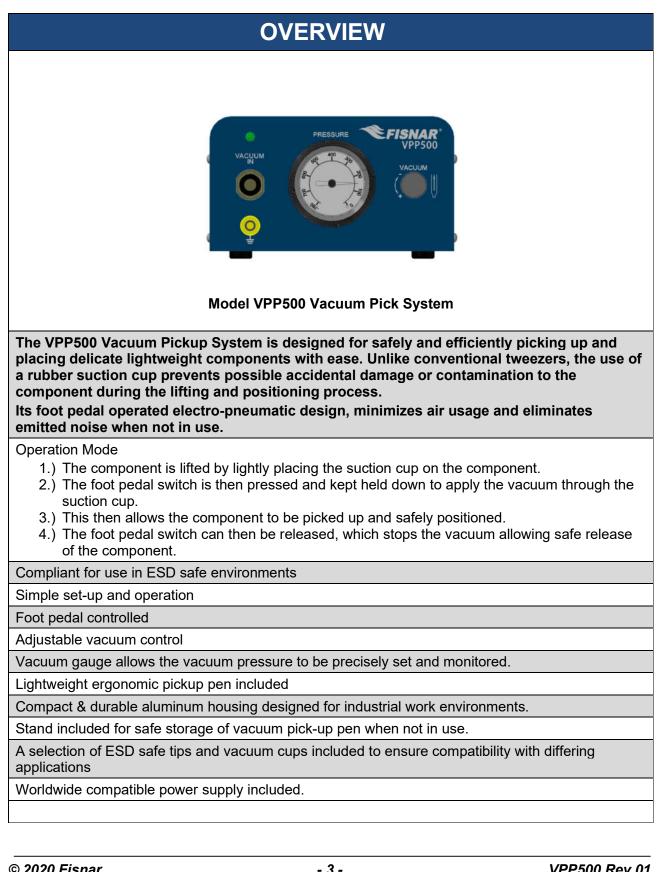
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	SAFETY	
	General Precautions	
	Do not operate the machine in excess of its maximum ratings / settings.	
	Make sure that the input air supply is clean and dry. A 5 micron air filter/regulator (item number 560567) is recommended to ensure the input air supply is clean and dry.	
	Do not smoke or use near an open flame.	
⚠	Do not expose the machine directly to sunlight.	
	Avoid cleaning the machine with aggressive solvents – neutral detergents are preferred.	
	Place the vacuum pickup pen in the supplied holder when not using the machine. This will prevent the suction cup from being damaged – refer to figure A below.	
Fig. A		
	VPP500 Malfunction	
	If the machine malfunctions, shut down the machine immediately. This can be done by either pushing the power switch at the back of the unit into the off position or disconnecting the power cord.	

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SAFETY

Inappropriate Use

If the machine is used in a way other than described in this manual, it may cause damage to self or property.

Do not use any components with the machine other than Fisnar authorized components.

Do not use incompatible materials.

Do not make any modifications to the machine.

All repairs are to be done using Fisnar specified spare parts.

Do not operate the machine in excess of its maximum ratings / settings.

Fire Prevention

Refer to the following instructions to avoid any fire or explosion.

Assess your surroundings and the location of the nearest fire extinguisher and Emergency Exit.

Do not smoke or use near an open flame.

Immediately disconnect power if any sparking or smoke appears.

Do not expose the machine directly to sunlight.

Maintenance

The VPP500 is generally a maintenance free machine. However, to ensure smooth operation please follow the below instructions.



Only use non-woven cleaners on the machine.

Avoid cleaning the machine with aggressive solvents – neutral detergents are preferred.

Ensure that compressed air supply to the machine is clean and moisture free.

Place the vacuum pickup pen in the supplied holder when not using the machine. This will prevent the suction cup from being damaged.



SPECIFICATIONS	
Dimensions (W x D x H):	5.12" x 5.04" x 3.00" (130 x 128 x 76 mm)
Weight:	1.49 lbs (0.68 kg)
Input AC to Power Supply:	100 – 240 VAC, 50 / 60 Hz
Output DC from Power Supply:	24 VDC – 1.0 Amp
Relative Humidity:	20 – 90% (No Condensation)
Operating Temperature:	50 – 104°F (10 – 40°C)
Air Input:	100 psi (7 bar) max
Vacuum:	Up to 400 mm-Hg (15.75inHg)
Maximum Pickup Weight	Up to 4.4oz (125g)
Standards:	CE Approved, RoHS Compliant, EMC Compliant ESD Safe

ACCESSORIES		
Item	Description	Quantity
5601911	Power Adaptor (Input: 100 – 240 VAC / Output: 24 VDC)	1
5601888	Foot Pedal Switch	1
561851	Air Inlet Hose Assembly	1
5601947	ESD Grounding Cable Assembly	1
5601948	Vacuum Pickup Pen Holder	1
580046NH-ESD	Vacuum Pickup Pen – ESD Safe	1
QK-VTK	Vacuum Tip Kit	1

Note: Standard Vacuum Pickup Pen (part # 580046NH) & ESD Workstation kit (part # ESD-WSK-US / ESD-WSK-EU / ESD-WSK-UK) available to purchase separately.

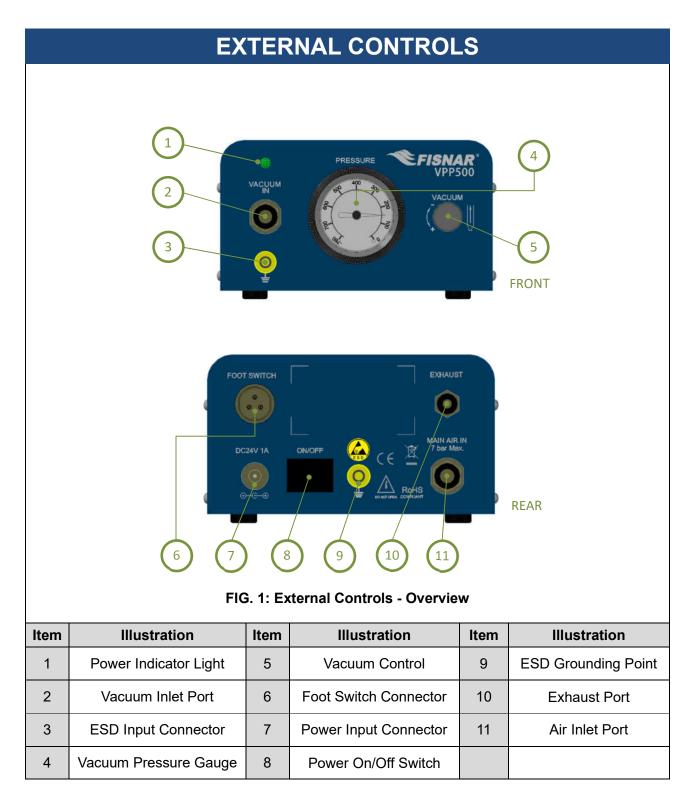




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EXTERNAL CONTROLS		
1Image: Control of the second sec		
1.	Power Indicator Light	Indicates if the machine is switched on or off. If the green color light is on this confirms the machine power is on.
2.	Vacuum Inlet Port	The air connector on the vacuum pickup pen is connected here.
3.	ESD Input Connector	The electrical plug on the vacuum pickup pen is connected here. This does not apply if using optional vacuum pickup pen (#580046NH).
4.	Digital Display Screen	Shows the amount of vacuum pressure being used to pick up a component by the suction cup. The vacuum pressure gauge will only display a value when the foot pedal has been pressed and the machine has begun generating a vacuum pressure.
5.	Vacuum Control	Adjusts the amount of vacuum pressure being used, for the suction cup to safely and securely pick up the component. Turn the knob counterclockwise to increase the vacuum pressure to the desired level. Vacuum pressure will not be generated until the foot pedal has been pressed.



	EXTERNAL CONTROLS	
FOOT SWITCH FOOT SWITCH FOOT SWITCH FOOT SWITCH CONOFF C CONOFF C C		
1.	Foot Switch Connector	The foot pedal switch (#5601888) is connected here. Or it can be used for connecting to an external device (e.g. Fisnar dispense robot) that will send the start signal to the machine.
2.	Power Input Connector	Power input cable from the external power supply (#5601911) is connected here.
3.	On / Off Switch	Used to switch the machine on or off.
4.	ESD Grounding Point	ESD grounding cable (#5601947) is connected here. The other end of the cable is to be connected to a suitable common ESD Safe grounding point within the workplace environment.
5.	Exhaust	When the machine is in use, air will be exhausted from this connector. A muffler (#560024) can be fitted into the exhaust outlet port to reduce the emitted noise of the exhausted air.
6.	Air In Push Connector	External Compressed air 70-100 psi (5-7 bar) is to be connected here, using the supplied ¼" OD air inlet hose.



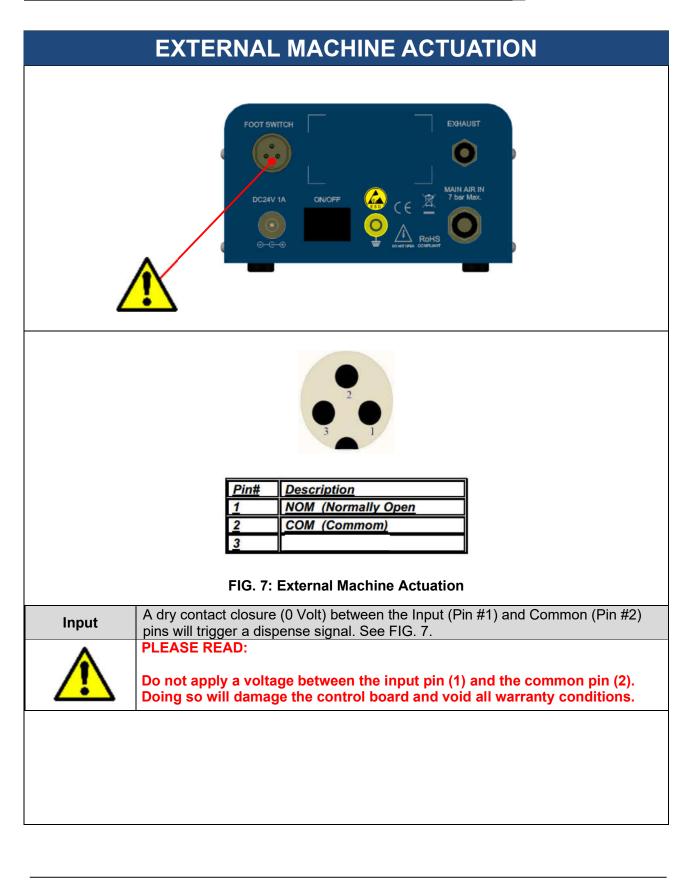
	MACHINE SET UP
	FIG. 4: Machine Setup
1.	Connect air hose (1) from compressed air 70-100 psi (5-7 bar) to the air inlet port on the back of the machine. See FIG. 4.
2.	Insert the Foot Pedal connector (2) to the port on the back of the machine. See FIG. 4.
3.	Attach appropriate country type plug adapter onto the power supply and then connect Electrical Power Cord (3) to the port on the back of the machine. See FIG. 4.
4.	Insert the air connector and ESD grounding plug (4) from the vacuum pickup pen to the ports on the front of the machine. See FIG. 4. If using optional vacuum pickup pen (#580046NH) only the air connector will need to be attached to the port on the front of the machine.
5.	Insert the ESD grounding cable (5) into the port on the back of the machine. The other end of the cable is to be connected to a suitable common ESD Safe grounding point within the workplace environment. See FIG. 4. If there is no requirement for the machine to be used in an ESD Safe work environment, this step can be ignored.



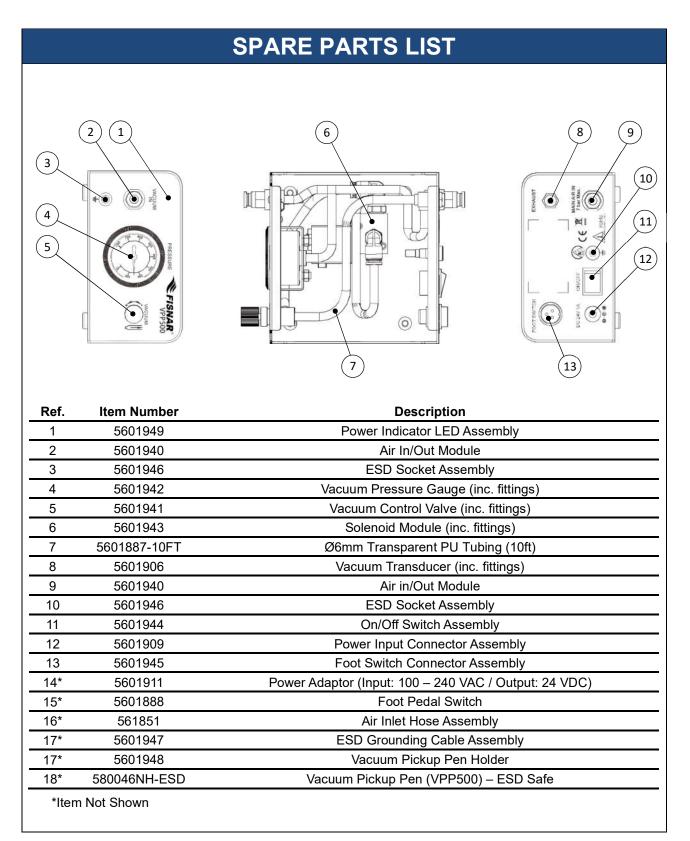
	VACUUM PICKUP PEN SETUP	
FIG. 5: \	Vacuum Cup Attachment	
1.	Select the correct size vacuum cup based on the size and weight of the component to be picked up.	
2.	Select the correct size pickup tip, by choosing one which has a larger outside diameter, than the internal hole on the stem of the chosen vacuum cup.	
3.	Gently push the stem of the vacuum cup onto the pickup tip. See FIG. 5. Ensure that the pickup tip does not protrude into the "cup" area of the vacuum cup, as this may result in damaging the component that is to be picked up. A successful setup will be confirmed by a tight fit that does not deform the surface of the vacuum cup.	
4.	Insert the pickup tip assembly into the pickup pen, until pickup tip hub is fully secured. If using a 45° pickup tip, rotate the tip to achieve the correct pickup angle position.	
5.	Store the pickup pen into the supplied holder, to prevent the vacuum cup from being damaged when not in use.	

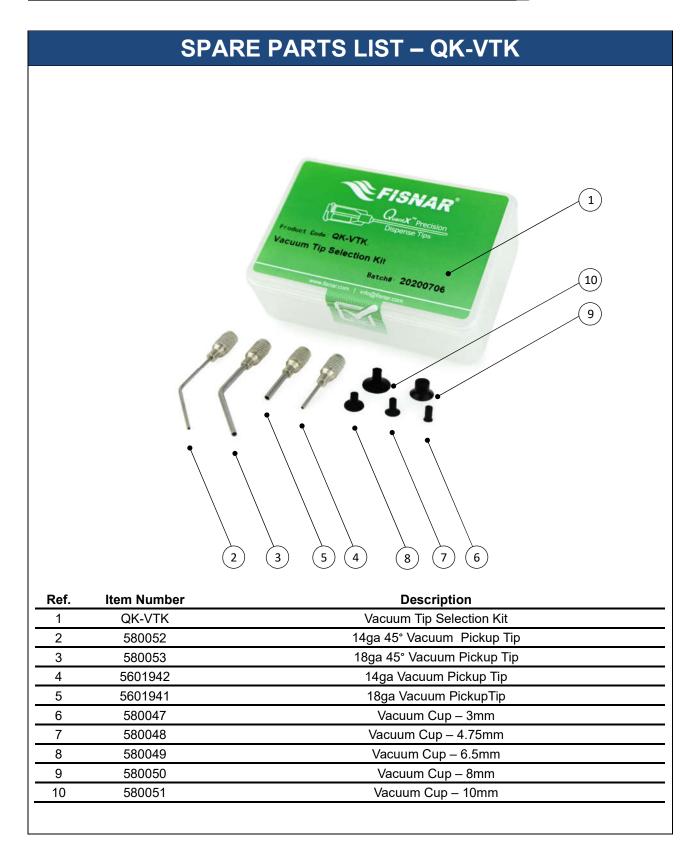


OPERATION MODE	
FIG. 6: Operation Mode	
1.	Place the suction cup installed on the pick-up pen over the component and apply a light force so there is no gap between the surface of the suction cup and surface of the component.
2.	Press and hold down the foot pedal to start the machine generating a vacuum pressure.
3.	Use the vacuum control knob to increase the vacuum pressure by slowly turning it counterclockwise to a suitable level where there is enough force to securely seal the suction cup to the component. See FIG. 6. This step is only required when initially setting up the machine. Excessive vacuum pressure may cause damage to small delicate components. Always use minimum allowable vacuum pressure.
3.	The component can now be picked up and safely positioned in the desired location.
4.	Release the foot pedal to immediately stop the machine generating a vacuum pressure, and then remove the suction cup safely away from the component.









LIMITED WARRANTY

Manufacturer warrants this product to the original purchaser for a period of one (1) year from the date of purchase to be free from defects in material and workmanship, but not against damages caused by misuse, negligence, accident, faulty installation, abrasion, corrosion or by not operating in accordance with factory recommendations and instructions. Manufacturer will repair or replace (at factory's option), free of charge, any component of the equipment thus found to be defective, upon prepaid return of the equipment to the factory during the warranty period of the equipment. In no event shall any liability or obligation of Manufacturer arising from this warranty exceed the purchase price of the equipment. **This warranty is valid only when 5 micron filtered air is used.** The manufacturer's written liability, as stated herein, cannot be altered or enlarged except by a written statement signed by an officer of the company. In no event shall manufacturer be liable for consequential or incidental damages. A return authorization is required prior to shipping a defective machine to the factory.

Manufacturer reserves the right to make engineering or product modifications without notice.



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