

Installation/Operations Manual

Preliminary Copy

V2 SHEET FEEDER

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1. Safety

1.1 Symbols and their interpretation

7

CAUTION:

Neglecting a safety instruction identified with the CAUTION symbol may

lead to property damage.

A

WARNING:

Neglecting a safety instruction identified with the WARNING symbol may

lead to personal injury.

and)

POINTER:

It is strongly recommended to observe instruction identified with the

POINTER symbol.

1.2 Liability



In no event will Fusion Systems Inc. be responsible or liable for indirect or consequential damages resulting from the use of this equipment.

☐ The information contained in this manual is subject to change due to improvements in design.

☐ Though this document has been checked for inaccuracies, Fusion Systems Inc. does not assume responsibility for any errors contained herein.

☐ This manual is provided as an aid when operating the V2 – Sheet Feeder. Prior to operation is strongly advised that the user be thoroughly familiar with the V2 operating manual.

□ Fusion Systems Inc. is not responsible or liable for any disadvantage occurred for not following the operating instructions.



□ All operators must be adequately trained.

1.3 General Warnings and Cautions



Disconnect the air supply prior to servicing the machine.



Switch OFF Main Disconnect Switch prior to connecting / disconnecting power.

1.4 Application Restrictions



Any use other then described in this manual may cause damage to equipment, personal injury or property damage.

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2. Installation Instruction

2.1 Warnings and Cautions



The machine operates on 120 Volts 50/60Hz (110-240 Volts 50/60Hz models are also available), single-phase AC power.



Switch off main disconnect switch prior to connecting power and air.

Check the water trap daily and drain as required by pressing the drain valve (see 2.4)

2.2 Selecting the location



Choose a well-ventilated area away from direct sunlight to install your Sheet Feeder. Make sure the machine is positioned away from walls and other obstruction and placed on flat surface. The guards, operating panel and other machine openings must be accessible.

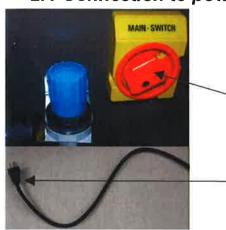
2.3 Leveling the Machine



Before operation the machine must be leveled. The level of the machine is adjusted by four (4) feet, one at each corner of the machine.

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2.4 Connection to power



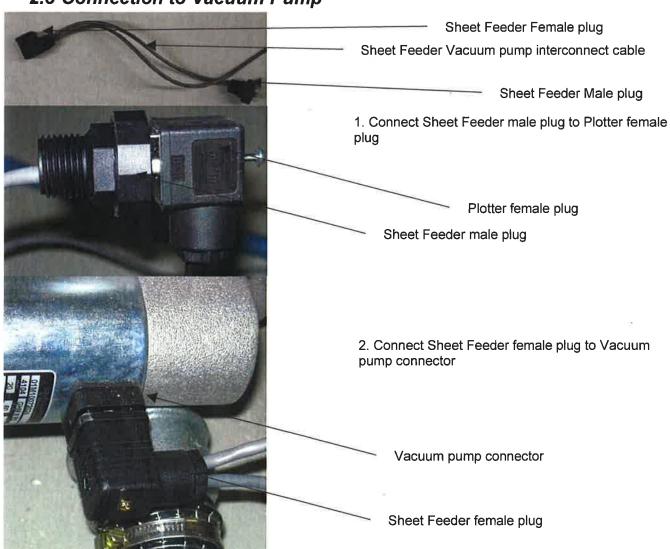
The machine is equipped with SJT 3 conductor cable with plug Power requirement:

- □ 120 VAC
- □ 5 Amperes

Main disconnect switch

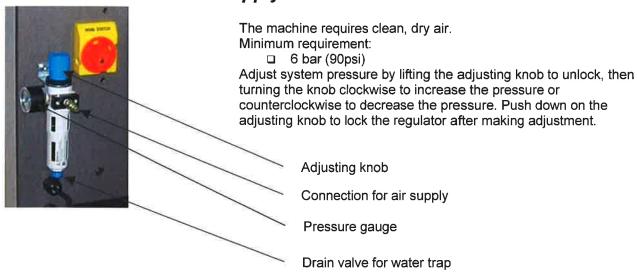
Power Cord

2.5 Connection to Vacuum Pump

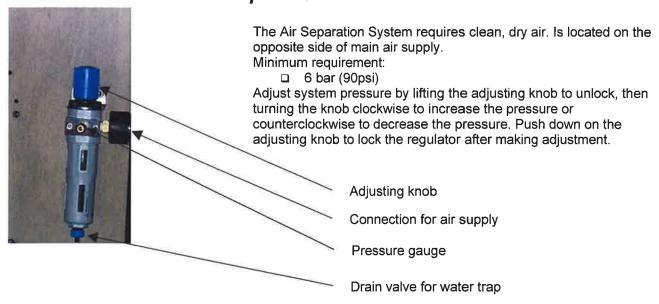


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2.6 Connection to air supply



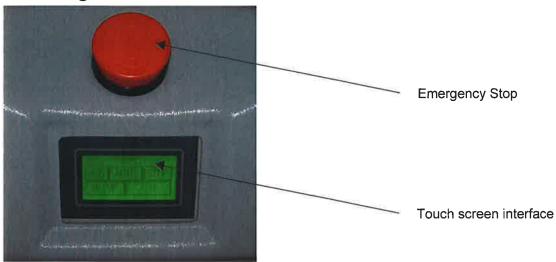
2.7 Connection to Air Separation



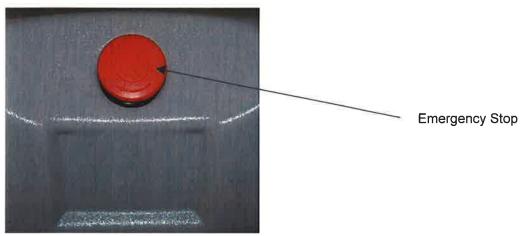
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3. Operating Controls

3.1 Right Side Panel



3.2 Left Side Panel



4. The Touch Screen Operations

4.1 Boot Up Screen



4.2 Setup

Function Display		Result	
Default Screen	NOT READY	Default display for AUTO menu.	
	JOG AUTO STOP	Touch SETUP to move to the SETUP menus	
	SETUP 1/U		
Setup Screen 1 of 2	-* ROLL BK1 -** DELAY	Default display for the first SETUP menu. Touch NEXT to move to the second menu	
	-** VAC SP MAIN -** SPEED		
ROLL BK1 1-9	ROLL BACK SCALE	ROLL BACK SCALE The Sheet is lifted up after is loaded on the cutter table to prevent from damage when	
	-* + SETUP	conveyor belt is moving. Touch to increase the value Touch to decrease the value	
DELAY 0 – 99 sec.	DELAY FOR THE NEXT SHEET LOAD	DELAY The time that Feeder is waiting at park position before will load the next sheet	
	-** - BETUP	Touch to increase time value to decrease time value	
VAC SP 0 - 10	VACUUM SET POINT	VACUUM SET POINT The amount vacuum that must be accumulated before the sheet will be lift up.	
	-** - MAIN	Touch to increase value Touch to decrease value	

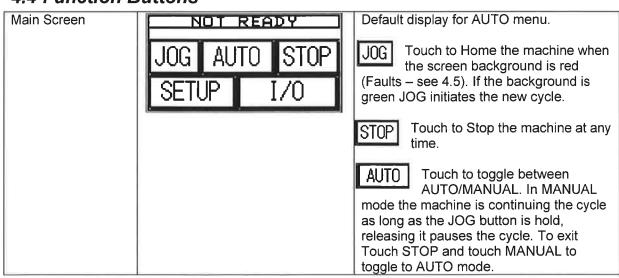
SPEED SPEED		SPEED The second of the Charles	
2-10		The operating speed of the Sheet Feeder	
	-** + SETUP	Touch to increase value Touch to decrease value	
Setup Screen 2 of 2	-* DROP SHT OFFAIR SEP PREV OFFLONG SHT -** AIR PRESMAIN -** ROLL BK2	Default display for the second SETUP menu. Touch PREV to move to the first menu. Touch MAIN to move to the main menu.	
DROP SHT 0-9	AFTER THE SHEET WAS DROPPED + SETUP -* - MAIN	NUMBER OF INDEXES AFTER THE SHEET WAS DROPPED Number of times that Feeder is repeating the sheet pick up routine. When the number of attemts is over the set value the Feeder stops and SHEET DROPPED message is displayed Touch to increase value Touch to decrease value	
AIR SEP	SETUP MAIN	ENABLE AIR SEPARATION Touch ON/OFF to toggle between ON and OFF ON - Enables Air Separation OFF – Disables Air Separation	
LONG SHT	ENABLE LONG OFF SETUP MAIN	ENABLE LONG SHEET LOAD This feature is used with optional arms installed on the Feeder. Touch ON/OFF to toggle between ON and OFF ON - Enables Board Loading OFF - Disables Board Loading	
AIR PRES 0 - 10	AIR PRESSURE SETUP -** - MAIN	AIR PRESSURE SET POINT The minimum amount of air pressure for operation of Feeder. Touch to increase value to decrease value	
ROLL BK2 1-40	ROLL BACK #2 SCALE (1-40) + SETUP -** - MAIN	ROLL BACK #2 SCALE This feature is for use with optional board loading arms installed. The moving beam of the Feeder is lift up after the Cutter is pulling the board.	
		Touch to increase value Touch to decrease value	

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4.3 Inputs/Outputs Screens

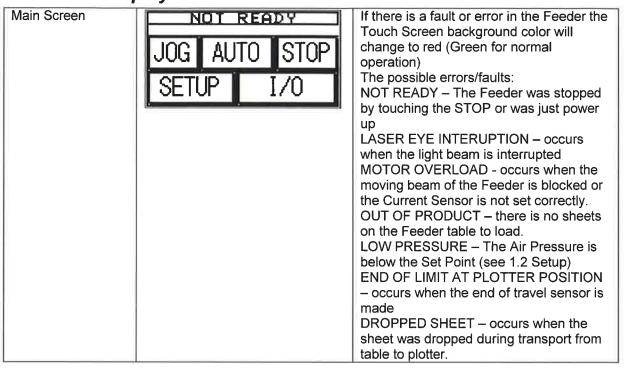
Main Screen	NOT READY	Default display for AUTO menu.
	JOG AUTO STOP SETUP I/O	I/0 Touch to move to the I/O menus
First inputs screen	CARRIAGE PRX PLOTTER INP REST PRX LASER EYE **AIR PR. MAIN NEXT	The current state of the sensors and amount of the air pressure. Touch NEXT to move to the next inputs screen
Second inputs screen	PLUNGER PRX EOL PRX MTR OVERLOAD LONG ARM PRX	The current state of the sensors and amount of the vacuum. Touch NEXT to move to the next screen
First Outputs screen	REV MTR DIR. MTR ENABLE MTR BRAKE AIR SEP.VAL. PREV MAIN NEXT	The current state of the motor and air separation. The MTR BRAKE and AIR SEP. VAL. may be toggle by touching the adequate Buttons. Touch NEXT to move to the next screen
Second Outputs screen	VACUUM VALVE BLOW VALVE VAC2 VALVE BLOW2 VALVE PREV MAIN	The current state of the vacuum system. May be toggle by touching the adequate Buttons. VAC2 VALVE and BLOW2 VALVE is working with optional board loading feature Touch MAIN to move to the Main screen

4.4 Function Buttons



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4.5 Faults Display



5. Operation

5.1 Startup



1. Connect main pneumatic line to machine



2. Turn ON main disconnect switch

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3. Release both of the Emergency Stop buttons.



4. Touch JOG to home the machine.

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6. Maintenance

6.1 Troubleshooting Guide

Symptom	Possible Cause	Remedy	
Machine won't cycle	Low or no air pressure	Provide clean, dry air	
		Adjust system pressure regulator (see 2.6)	
		Check the air pressure set point (see 4.2)	
	Machine in MANUAL mode	Touch MANUAL to switch to AUTO mode.	
	Control not initialized	The Emergency Stop must be released	
MOTOR OVERLOAD message, but there was no reason for that	The Current Sensor need to be adjusted	The Current Sensor is located on the Controls Panel Turn the pad clockwise to increase the current limit	
LASER EYE INTERUPTION message, but there was no reason for that	The Photo Eye need to be adjusted	The Photo Eye is located on the adjustable bracket below the motor Adjust the high of the sensor Turn the pad clockwise to increase the sensitivity.	
	The reflective tape may be damage or dirt	The Reflective Tape is located on opposite side of the Photo Eye. Clean up the tape or replace it if is damaged.	



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LASER EYE INTERUPTION message, but there was no reason for that	The Arm with sensor (Red ring) needs to be adjusted.	The Arm needs to be adjust to always be on the sheets stock	
			Adjust the position of the Arm

7. Schematics

