

DECO TECH

DT-767 SERIES

Operating Manual



DECO TECHNOLOGY GROUP, INC.
749 N. MAIN STREET
ORANGE, CA 92868
(800) 300-DECO
(714) 639-3326
(714) 639-2261
DECOTECHGROUP.COM

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Safety

1. Eye protection

- a. Whenever main machine cover is open(during set up) and UV lamp is on, the operator should always wear 100% UV protective glasses to avoid damage to the eyes from ultraviolet rays.
- b. When main machine cover is open, the machine operator and people near the machine should never look directly at the UV lamp. Doing so will cause damage to the eyes from ultraviolet rays.

2. Skin protection

The operator should wear UV protective clothing when working with the UV light source during set up. The UV lamp will cause skin to be burned when it's exposed to UV light directly.

3. Protection from poisonous gas

- a. Keep working area well-ventilated.
- b. **Do not** store or use chlorinated solvents in the working area. Many of them will produce poisonous gas when they are radiated by ultraviolet rays.

4. Protection from electrical shock

- a. Check the power cable from machine to power supply regularly. If the cable is damaged, turn main power source off and lock out machine until repaired. Only a qualified electrician should make this repair. Severe injury or death may occur if damaged lines are touched because of electrical shock.
- b. The main power should be turned off and locked out before changing electrical parts, components or UV lamp(s).

Applications and Features

1. Application

The DT-767 is specially designed for screen printing on cylindrical. It's available for printing both single color and multicolor containers. It is widely used on many types of containers such as cosmetics, pharmaceutical, food, detergent, ornamentation, etc.

2. Features

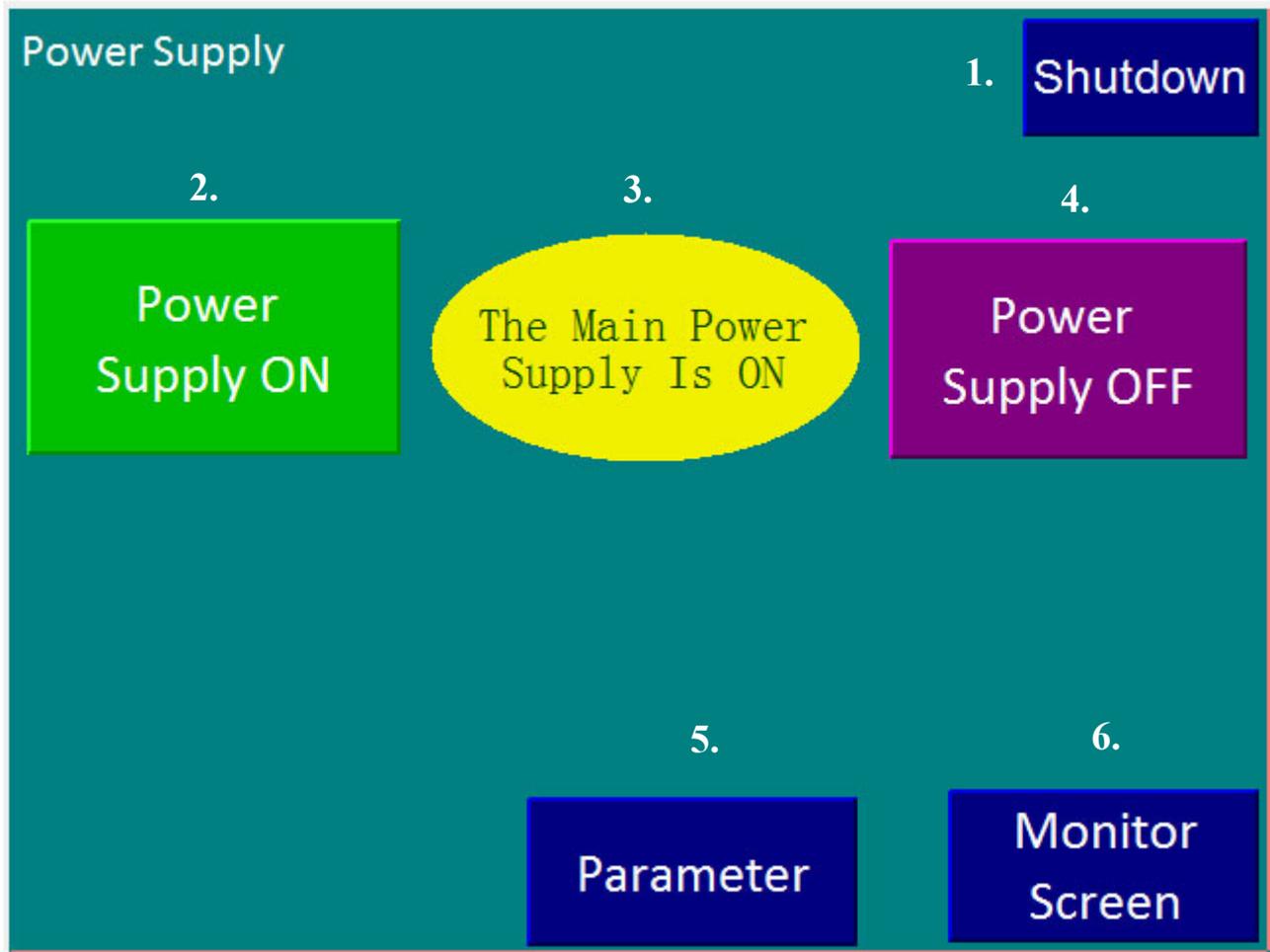
- a. The DT-767 integrates automatic feeding, printing, UV curing and other functions synchronously. It is mechanically and pneumatically driven. All of these greatly improve printing efficiency.
- b. The DT-767 can pre-check the position of the container at the in-feed before printing and re-orientate the container ensuring the container is in the correct orientation for printing.
- c. Due to specialized sensors, it can monitor functions such as “No part, no print” and an automatic alarm when the air pressure is too low.
- d. Machine operation is easy with simple to read touch panel.
- e. All electrical components and control systems are of the highest quality.

Specifications

Max. Printing Diameter (Cylindrical)	ø: 100 mm
Min. Printing Diameter (Cylindrical)	ø: 20 mm
Max. Printing Diameter (Elliptical)	R: 250 mm
Min. Printing Diameter (Elliptical)R	: 25 mm
Max. Printing Width (Elliptical)1	20 mm
Min. Printing Width (Elliptical)4	0 mm
Max. Length of bottle	300 mm
Min. Length of bottle	50 mm
Max. Printing Length	250 mm
Max. Printing Speed	3600 Pcs/hr (Cylindrical)
Air Pressure	6-7 Bar
Power Supply(Single Color)	480v 50/60Hz
Weight1	500Kg
Standard Dimensions	2700(L)x2000(W)x1600(H)mm

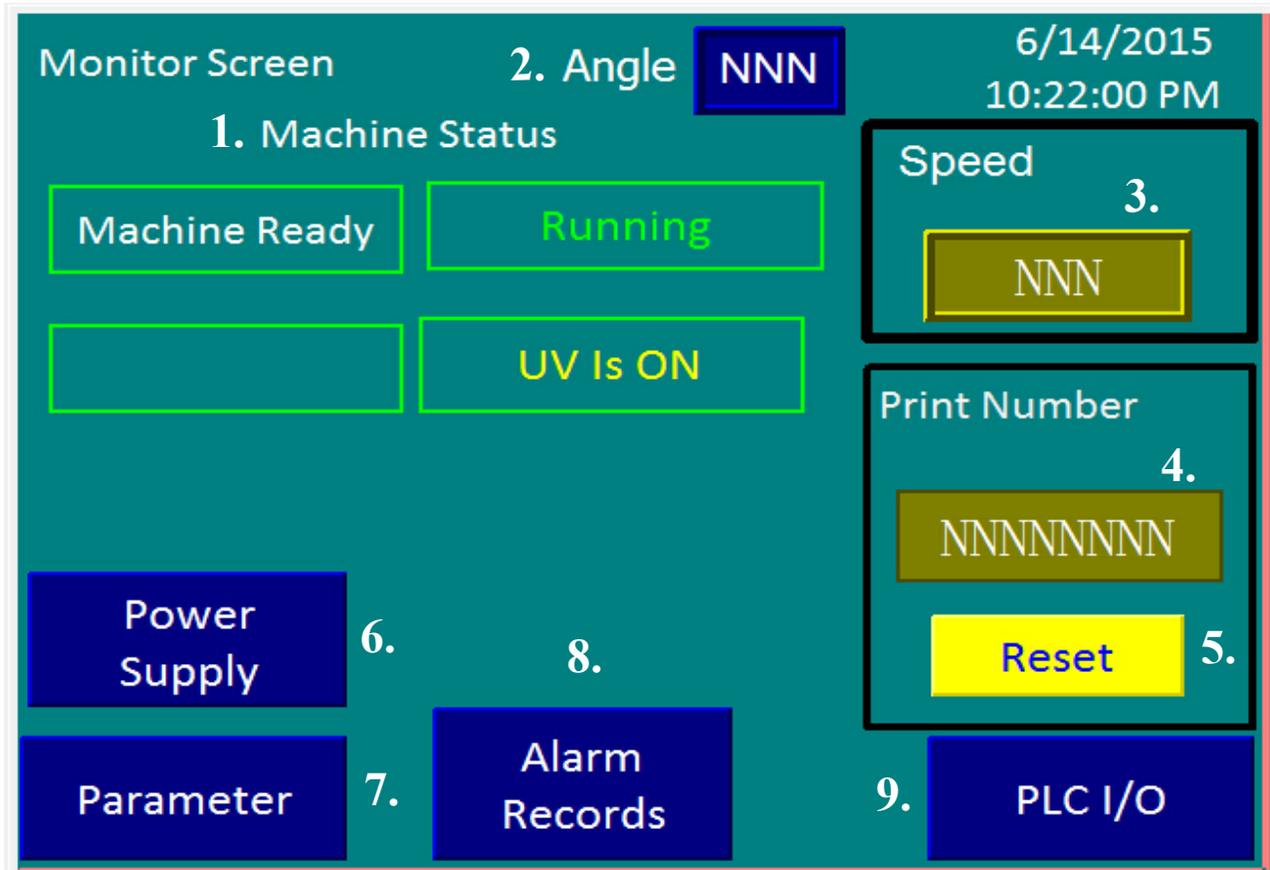
Touch Screens

Main Screen



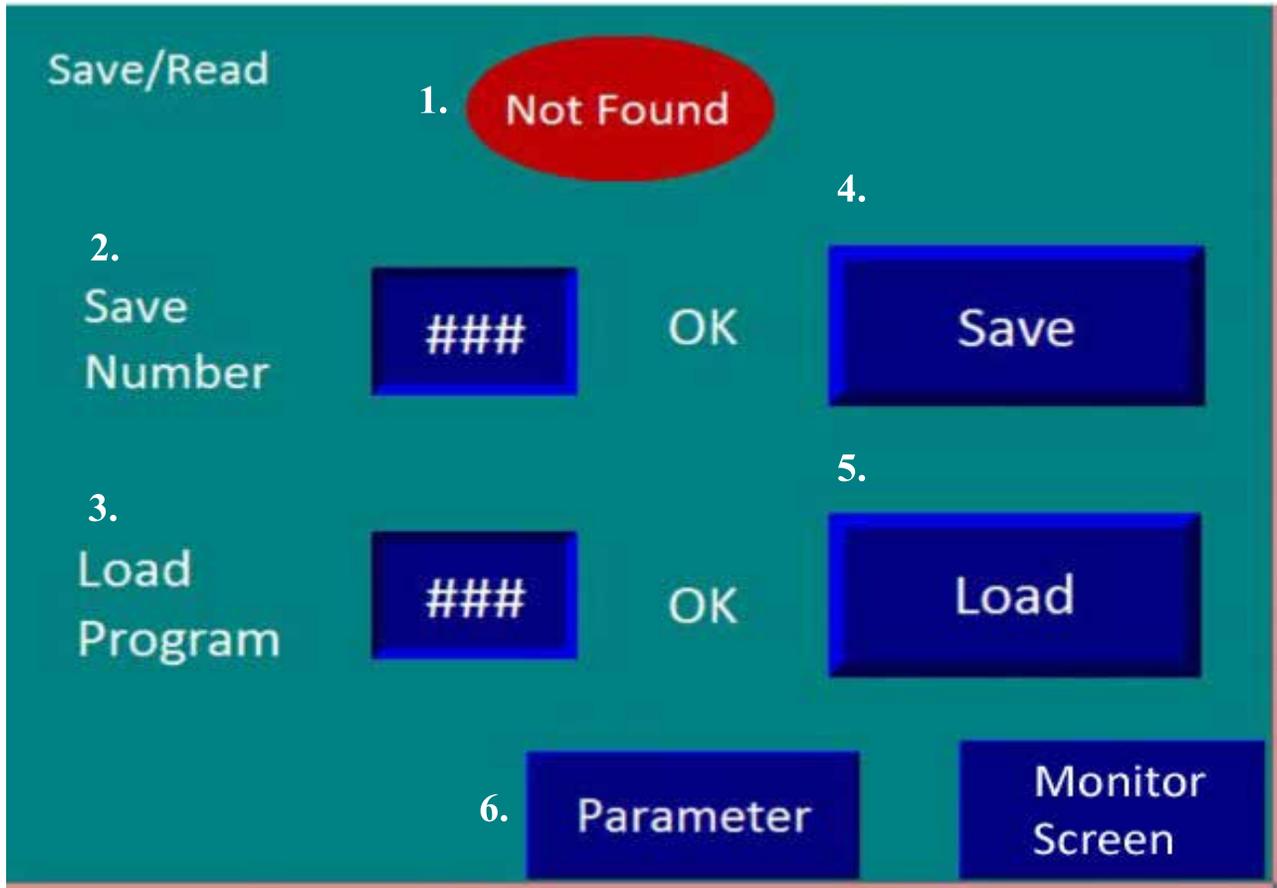
1. Machine Shutdown in progress.
2. Button to turn Main Power ON to machine.
3. Indicator-Machine if On or OFF.
4. Button to turn Main Power OFF to machine.
5. Pressing this button will go to Parameter screen.
6. Pressing this button will go to Monitor screen.

Monitor Screen



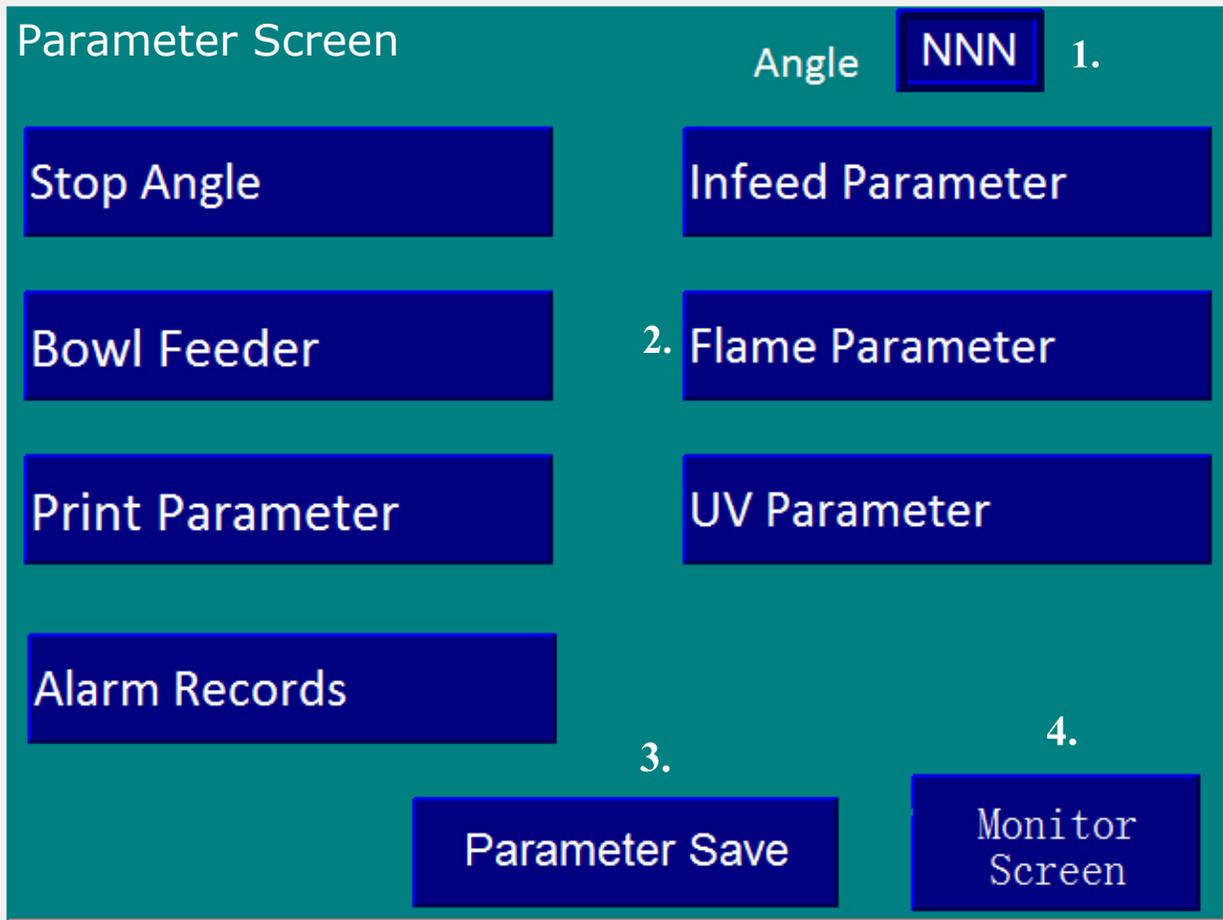
1. Shows status of machine functions.
2. Shows position of printing components while machine is in running mode.
3. Shows cycle speed of machine while in run mode.
4. Shows number of parts printed (counter).
5. Resets counter.
6. Pressing this button will turn machine power ON.
7. Pressing this button will go to Parameter screens.
8. Pressings this button will go to Alarm screens.
9. Pressing this button will go to PLC/IO screens.

Save/Load Screen



1. Program not found indicator.
2. Save program number indicator.
3. Load program number indicator.
4. Save program button.
5. Load program button.
6. Pressing this button will go to Parameter screen.
7. Pressing this button will go to Monitor screen.

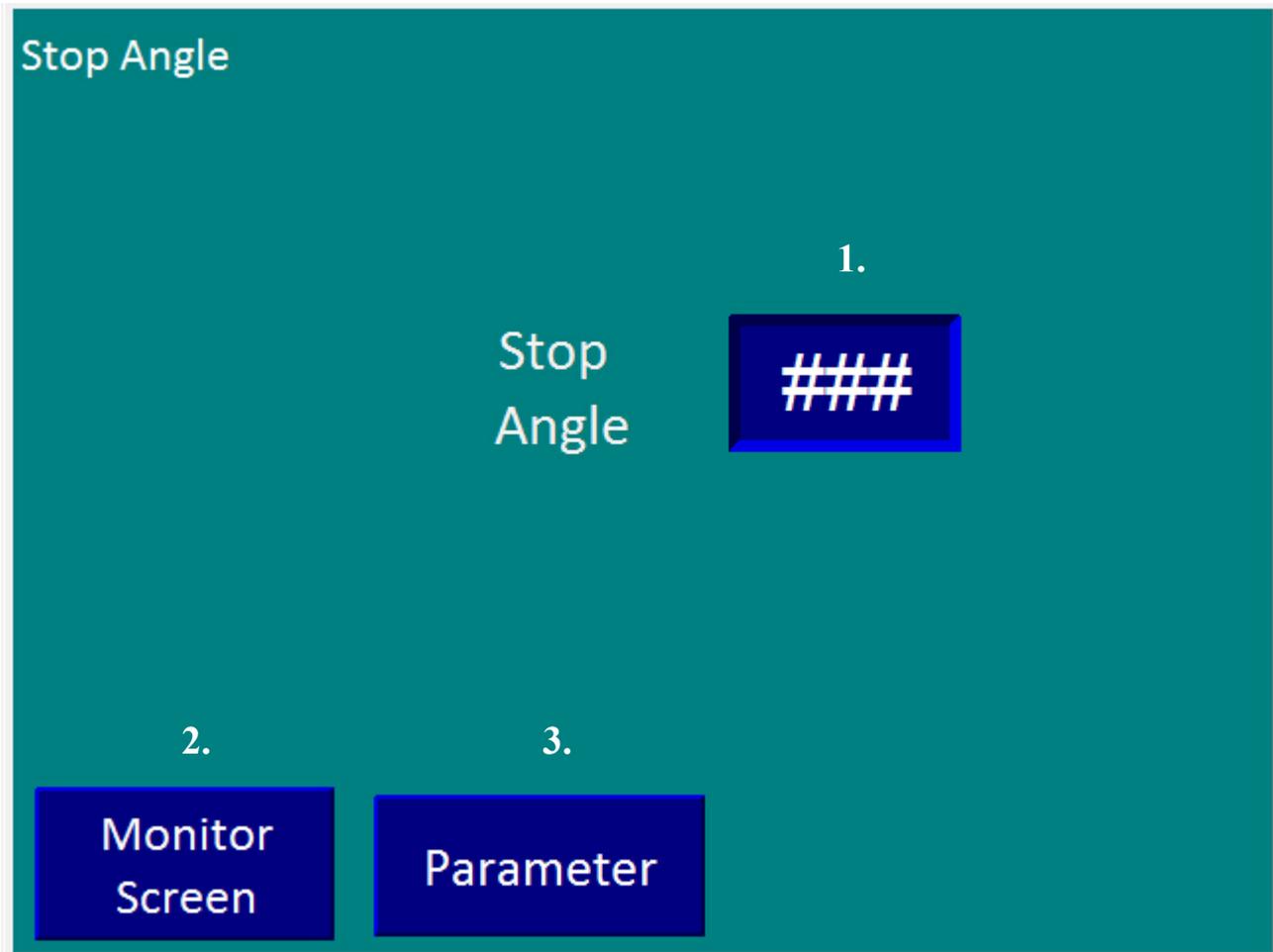
Parameter Screen



From this screen, access to all machine parameters are available.

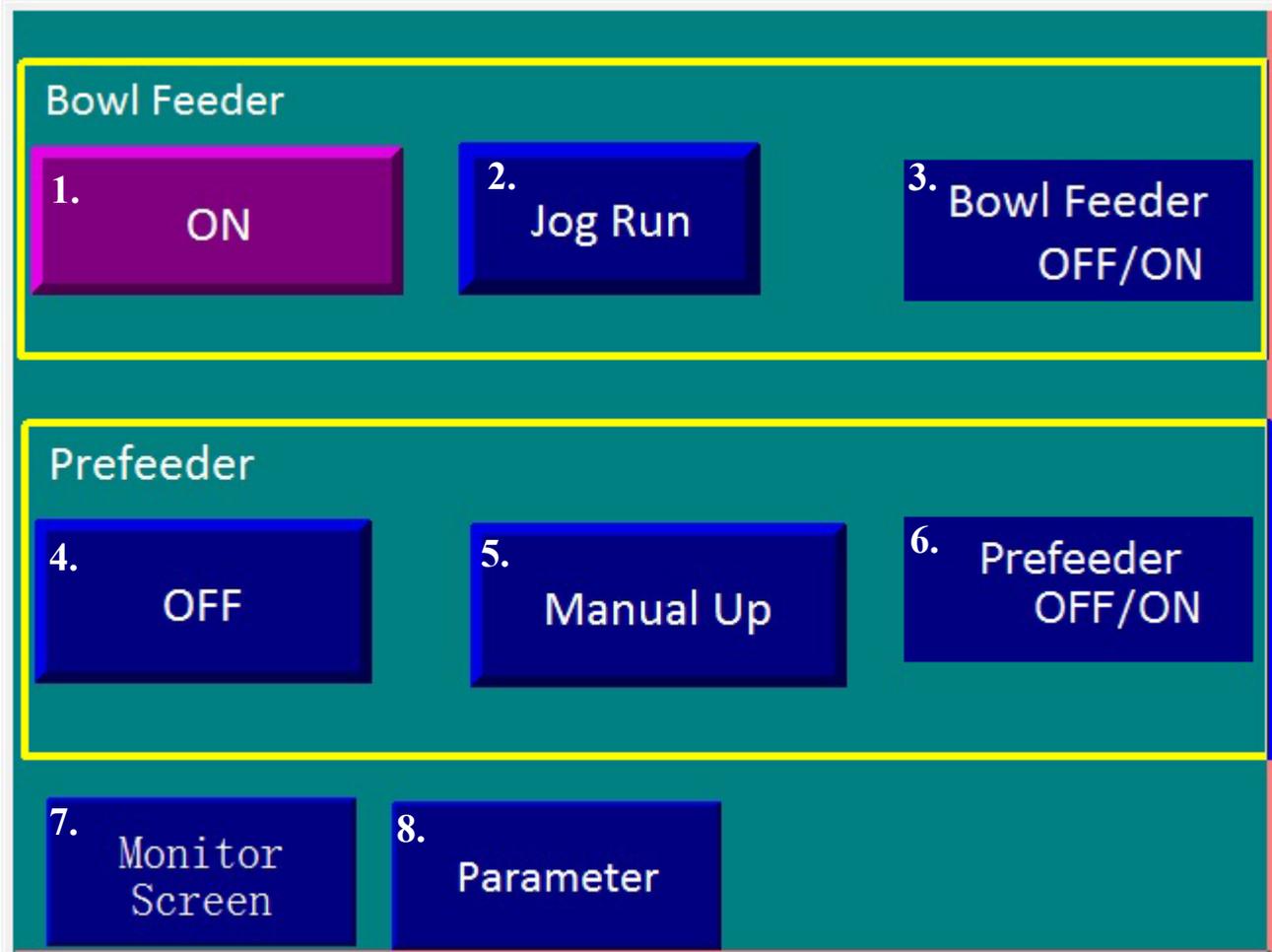
1. Current position of machine components in run mode.
2. This function is not available on this machine.
3. Pressing this button will save all parameter settings.
4. Pressing this button will go to Monitor screen.

Stop Angle Screen



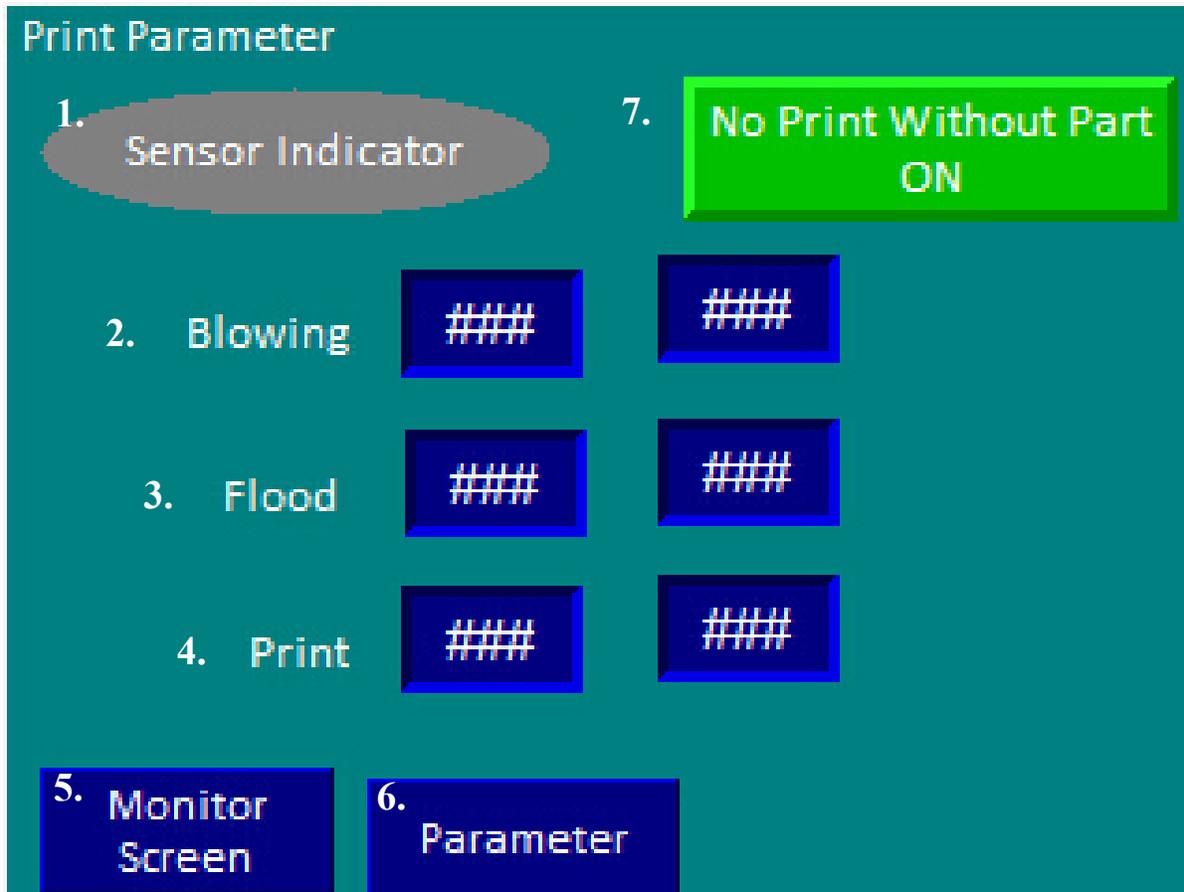
1. This shows where in the cycle (degrees) the machine is stopped.
2. Pressing this button will go to the Monitor screen.
3. Pressing this button will go to Parameter screen.

Bowl Feeder Screen



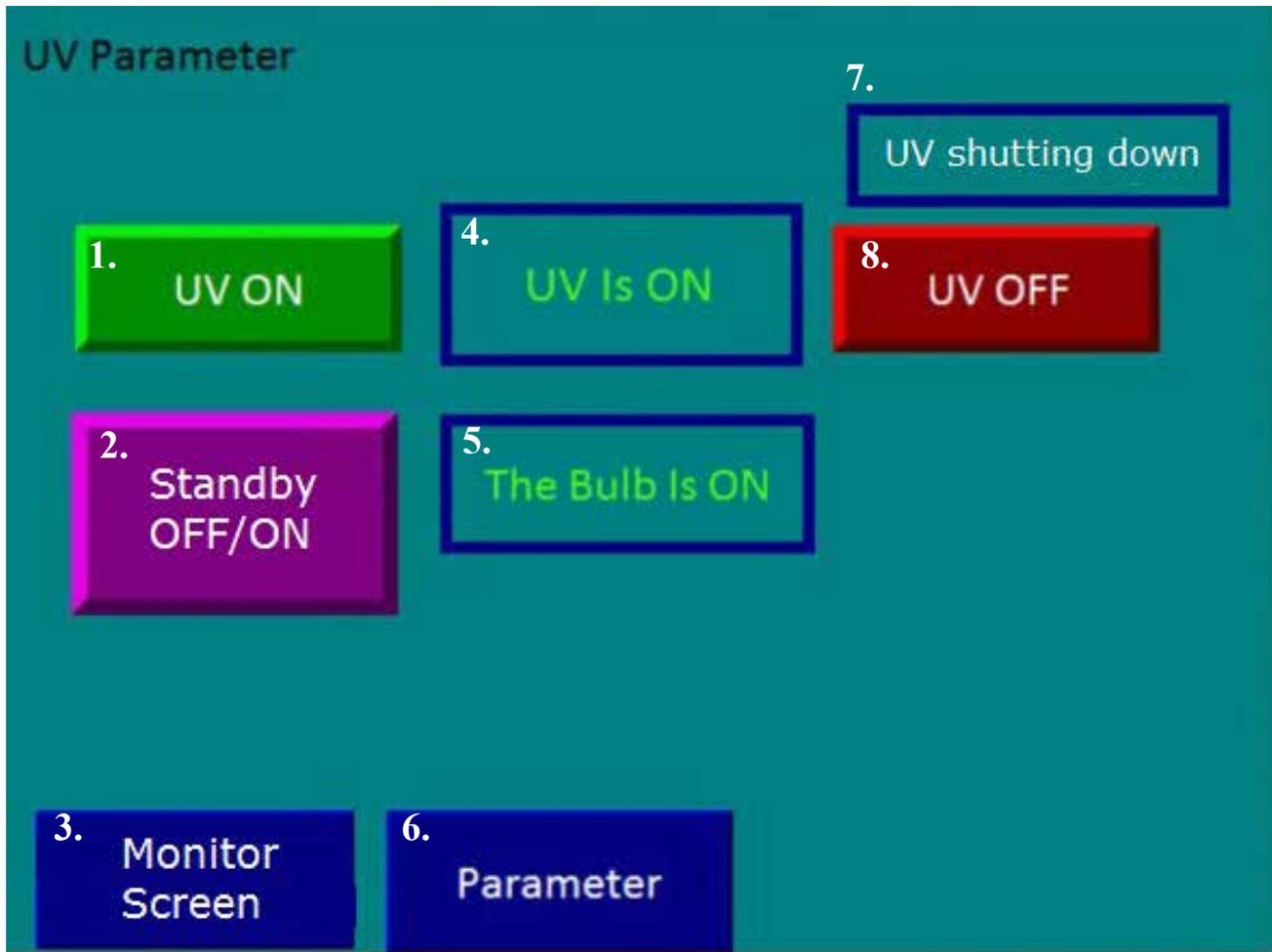
1. Pressing turns Bowl Feeder OFF/ON.
2. Pressing jogs Bowl Feeder incrementally.
3. Indicator lamp-Bowl Feeder OFF/ON.
4. Pressing turns Prefeeder OFF/ON.
5. Pressing manually moves feeder ramp UP/DOWN.
6. Indicator lamp-Prefeeder OFF/ON.
7. Pressing will go to Monitor screen.
8. Pressing will go to Parameter screen.

Print Parameter Screen



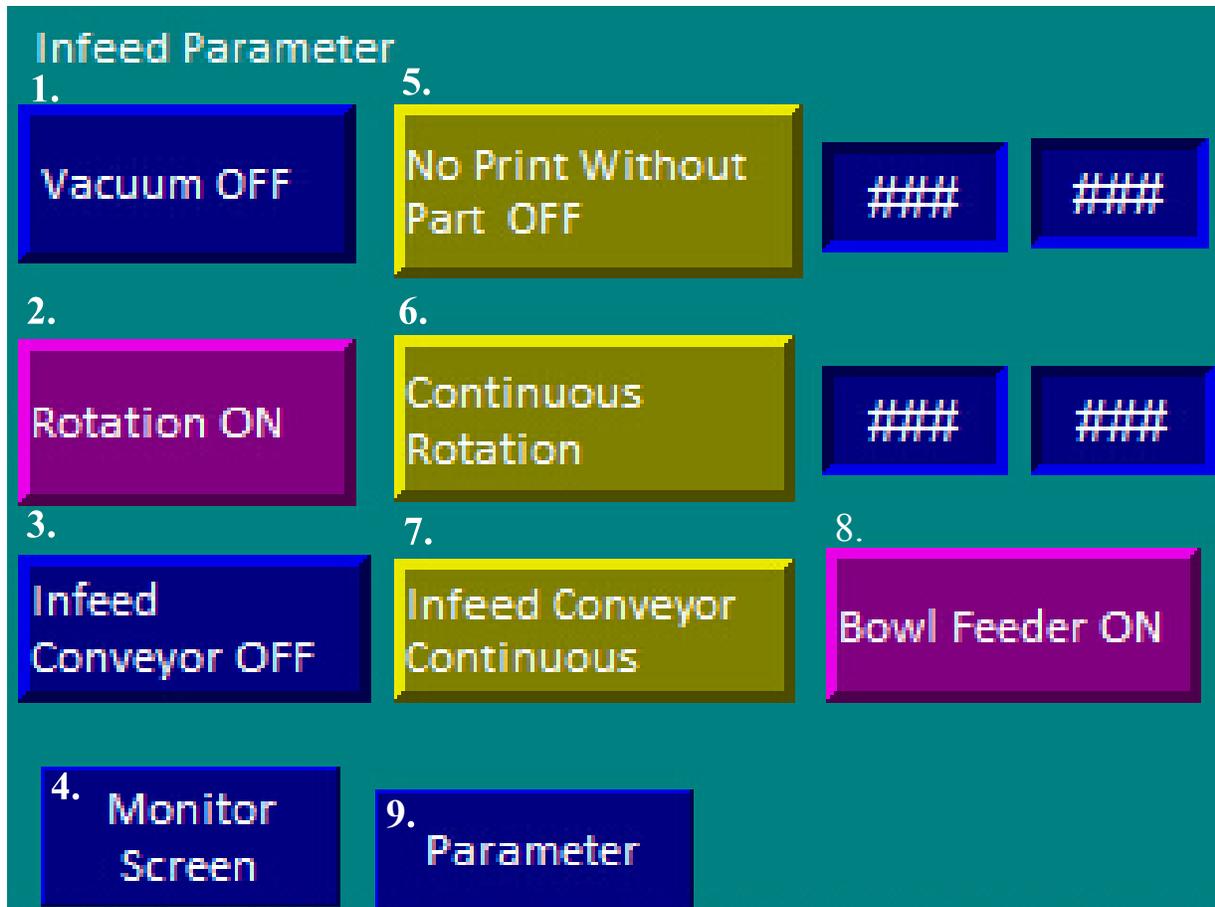
1. Indicates if sensors are activated.
2. Adjusts angle of when Air turns OFF and ON.
3. Adjusts angle of when Flood turns OFF and ON .
4. Adjusts angle of when Print turns OFF and ON.
5. Pressing this button will take you back to the Monitor Screen.
6. Pressing this button will take you back to the Parameter Screen.
7. Pressing this button will activate No Part/No Print feature .

UV Parameter



1. Pressing turns the UV Lamp ON.
2. Pressing puts the UV Lamp in Standby mode. (main unit is still on, lamp is off).
3. Pressing will go to Monitor screen.
4. Indicator Lamp-UV is ON/OFF.
5. Indicator Lamp-UV bulb is ON/OFF in Standby mode.
6. Pressing will go to Parameter screen.
7. Indicator showing start up and shutdown of UV unit.
8. Pressing turns the UV Lamp OFF.

Infeed Parameter Screen



1. Pressing turns vacuum ON/OFF to vacuum cups.
2. Pressing turns In-feed pick up rotation OFF/ON.
3. Pressing turns In-feed conveyor OFF/ON.
3. Pressing will return to Monitor Screen.
4. Pressing returns to Monitor Screen.
5. Adjusts angle of No Part/No Print position.
6. Adjusts angle of cylinder position.
7. Pressing this turns Infeed Conveyor to Continuous/Single.
8. Pressing this turns Bowl Feeder OFF/ON.
9. Pressing this goes back to Parameter Screen.

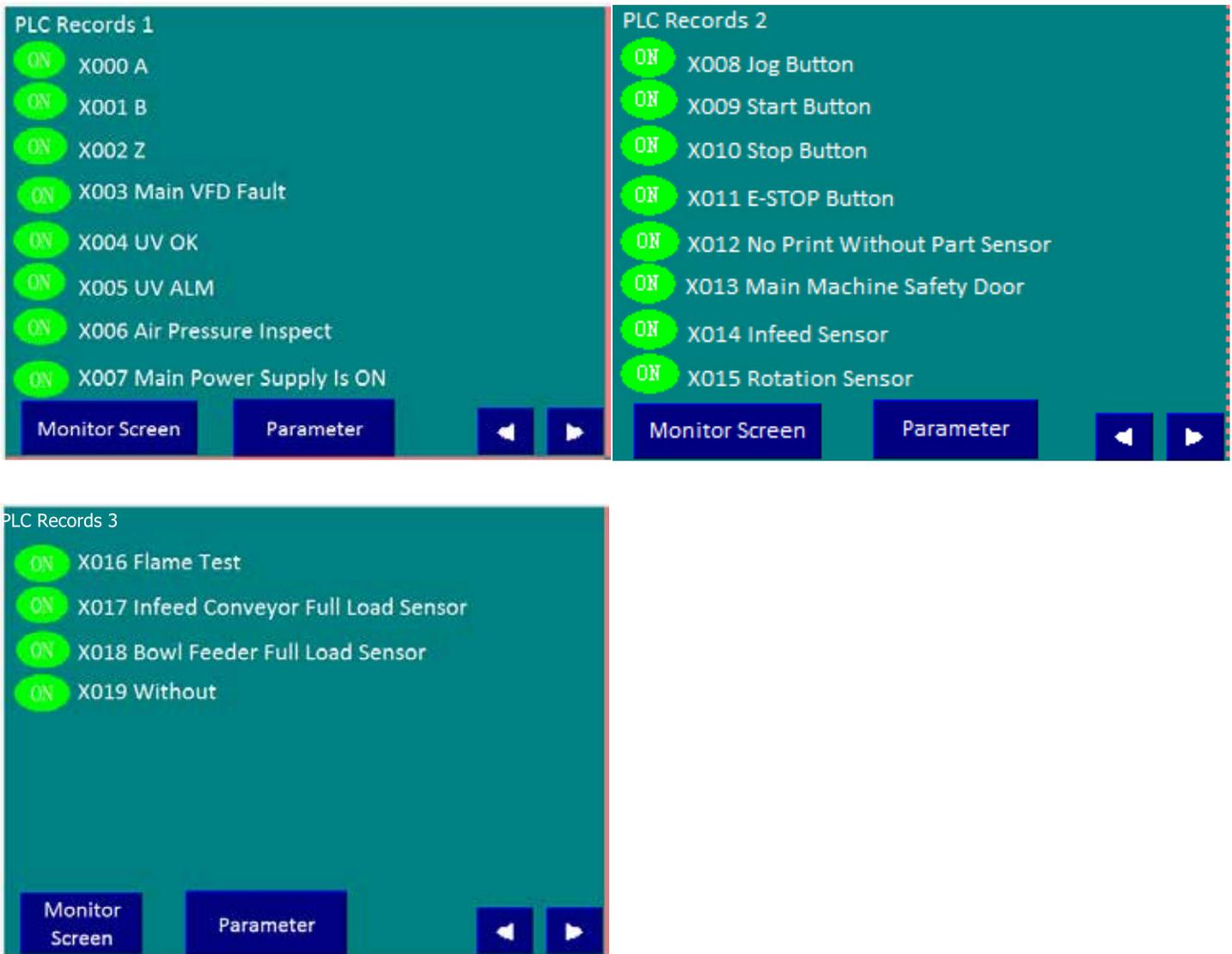
Alarm Records Screen



This screens will show various alarms; the time they happened and what part of the machine was affected.

PLC I/O Record Screens

The following screens show the PLC Inputs and Outputs to help trouble-shoot possible machine issues.



The image displays three screenshots of PLC I/O Record Screens, each showing a list of inputs and outputs with their current status (ON or OFF) and navigation controls at the bottom.

PLC Records 1

- ON X000 A
- ON X001 B
- ON X002 Z
- ON X003 Main VFD Fault
- ON X004 UV OK
- ON X005 UV ALM
- ON X006 Air Pressure Inspect
- ON X007 Main Power Supply Is ON

PLC Records 2

- ON X008 Jog Button
- ON X009 Start Button
- ON X010 Stop Button
- ON X011 E-STOP Button
- ON X012 No Print Without Part Sensor
- ON X013 Main Machine Safety Door
- ON X014 Infeed Sensor
- ON X015 Rotation Sensor

PLC Records 3

- ON X016 Flame Test
- ON X017 Infeed Conveyor Full Load Sensor
- ON X018 Bowl Feeder Full Load Sensor
- ON X019 Without

Each screen includes a 'Monitor Screen' button, a 'Parameter' button, and left/right navigation arrows.

PLC Records 4

- Y000 Main Power Supply ON
- Y001 Main Machine Start
- Y002 Flood Cylinder
- Y003 Infeed Rotation Cylinder

PLC Records 5

- Y004 Alarm
- Y005 Infeed Vacuum
- Y006 Infeed Conveyor
- Y007 Flame

Monitor Screen Parameter ◀ ▶

- ON

Monitor Screen Parameter ◀ ▶

- Y008 Squeegee Cylinder
- OFF
- Y010 Reset
- ON
- OFF
- OFF
- OFF
- OFF

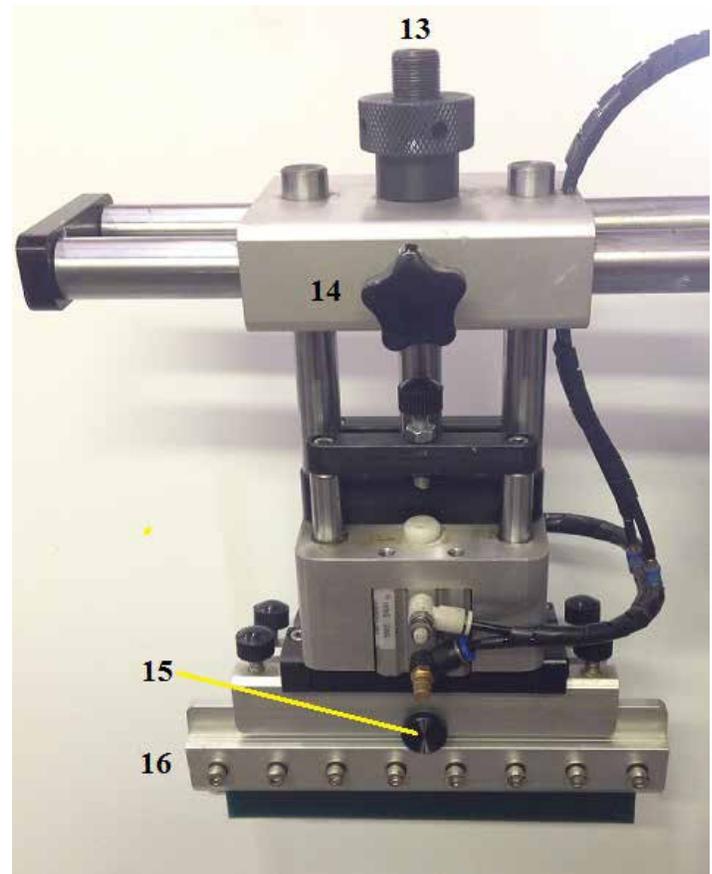
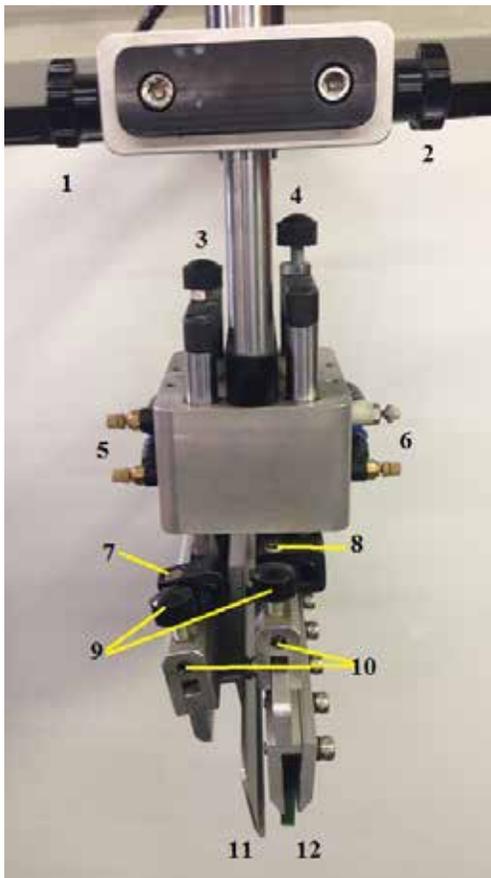
Monitor Screen Parameter ◀ ▶

Control Panel



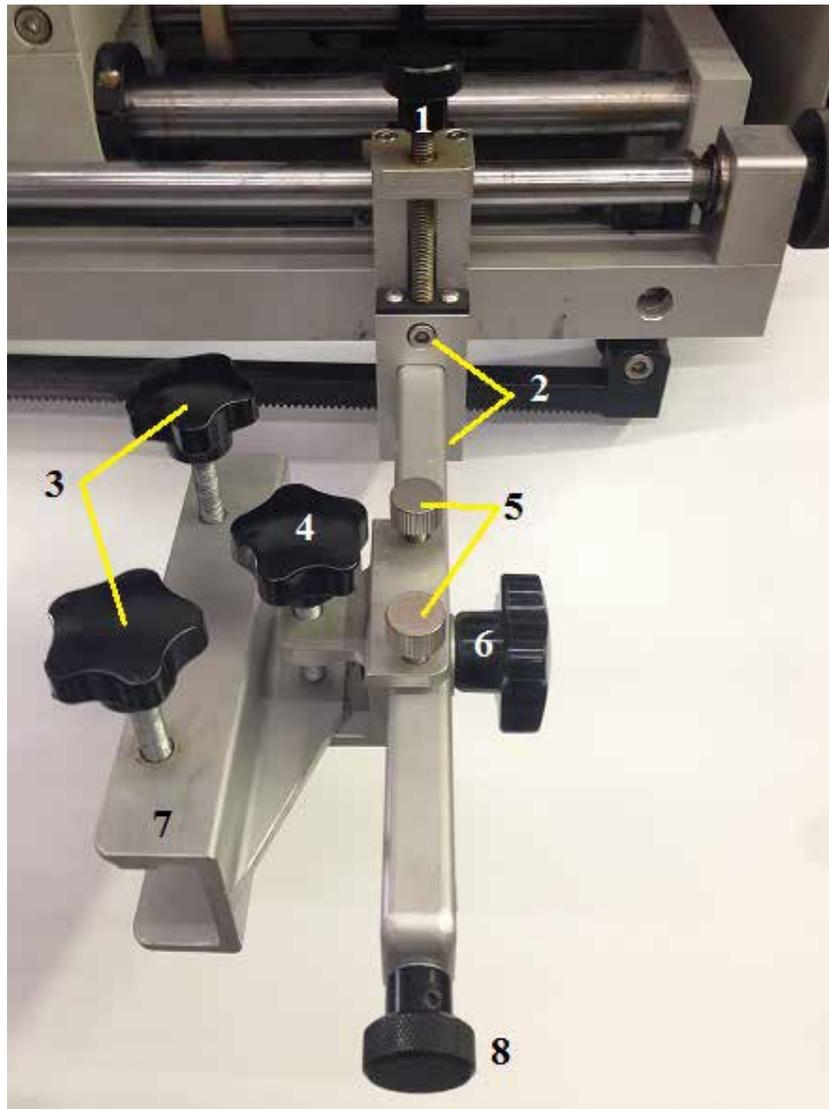
1. Pressing and releasing this button cycle the machine in steps.
Pressing and holding this button will run the machine continuously until the button is released. This button is used for set up.
2. Pressing this button will put the machine is continuous run mode.
3. This button will stop the machine.
4. This switch will turn on the vacuum blower .
5. This button has no function on this machine .
6. Pressing this button will shut down all function of the machine in case of emergency.
7. Power ON Indicator Lamp.
8. This knob controls the speed of the machine (parts per minute) .
9. Power OFF Indicator Lamp.

Print Head and Components



- 1&2. Print head locking knobs (front to back).
- 3. Floodbar stroke adjustment.
- 4. Squeegee stroke adjustment.
- 5. Air controls (speed) for floodbar.
- 6. Air controls (speed) for squeegee.
- 7. Angle adjustment bolt for floodbar.
- 8. Angle adjustment bolt for squeegee.
- 9. Angle adjustment for floodbar and squeegee.
- 10. Locking set screws for floodbar/squeegee angle.
- 11. Floodbar.
- 12. Squeegee.
- 13. Print head height adjustment
- 14. Print head locking knob (front to back).
- 15. Squeegee locking thumb screw (same on other side for floodbar).
- 16. Squeegee holder.

Screen Frame Holder



1. Screen frame height adjustment.
2. Locking bolts for screen frame height adjustment.
3. Screen frame locking knobs.
4. Swivel locking knob.
5. Screen angle adjustment knobs.
6. Locking knob for XYR adjustment.
7. Screen frame holder.
8. XYR adjusting knob.

Note: This is the right side of the frame holder,
the left side is exactly the same.