

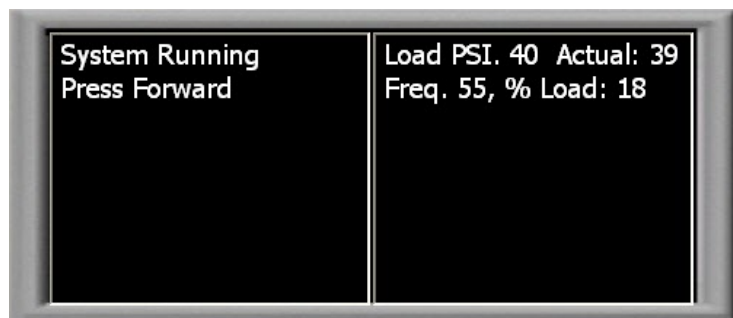
INDUSTRIAL CONTROL PANEL

The main screen provides the operator with control and status of the press through HMI touch buttons and display. When power is first applied to control panel, the connection status dialog is displayed. The system completes its boot up sequence and operators will have full control of the press once this message clears.

Connecting to remote DSC.
Connect Failed to remote DSC.
Connecting to Controller.



This is the status screen. It displays the press rotation, frequency, load amps, and cone air pressure.





By touching this switch it changes the system from "Auto", system starts up automatic, to "Man.", all control is manual switched on by the operator.



Touching this switch changes the screen to show some of the manual controls switches.

Load PSI. 40 Actual: 39

FREQ. 45

Rotation

PRESS

SPEED

Press Vibrator

Conveyors

Effluent Pump

Manure

Agitator

Agitation Before Start Min. 2

Reset Return Next

Auto Stop Timer ON OFF

Agri-Flow ON OFF


% Load 40

Activate the Press by touching the “Press switch” to the “ON” position.



Press shaft rotation is controlled by this switch. Reverse rotation will occur for 10 seconds. The press shaft will switch to forward rotation automatically



The “press speed” is adjusted using a numeric keypad pop up window. Touch the  and the keypad is displayed. You can only enter a number between the “Min” and “Max” value. Just press the “Enter” button without typing anything will leave the set point at its last value.



The desired reference value is displayed



here.

Touching the “Next” button changes the screen for other manual controls for the **composter**,



The composter operates independent of the “System Automatic mode”. If the “On Time” of the composter is greater than “000” all conveyors exiting and composter functions are on timed operation. If the “On Time” is set to “000” all conveyors and composter functions are “ON” all the time. Individual operation of composter and conveyors is done in “Manual” mode.

The "Press cone" air pressure operation is controlled here.



Cone air pressure is applied when the switch is in the "ON" position (Default). If air pressure is not maintained within one minute a "press cone fault" occurs. Switch off and then switch on cone pressure resets the fault.

The air pressure setting is set using the popup key pad by pressing the



Just press the "Enter" button without typing anything will leave the set point at its last value.



During normal operation the “press cone” air pressure will adjust by looking at the AC drive motor current. When the drive motor current increases, the cone air pressure is reduced. When the drive motor current decreases, the cone air pressure is increased to the set air pressure reference value.

The press shaft will start up in the forward rotation and will continue to do so until the current reaches 90% of the rated motor current. The press shaft will then release cone air pressure and start reverse for 10 sec. and then continue forward. This process will continue until jam has cleared or after 5 attempts the press will shut down and trigger an alarm.

System Running Press Revers Press High Amps	Load PSI. 0 Actual: 1 Freq. 55, % Load: 120
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The Hopper Full indicates to much material entering the screw press and that excessive material may /will be overflowing out of the hopper discharge.

System Running Press Forward Hopper Full	Load PSI. 40 Actual: 39 Freq. 55, % Load: 18
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