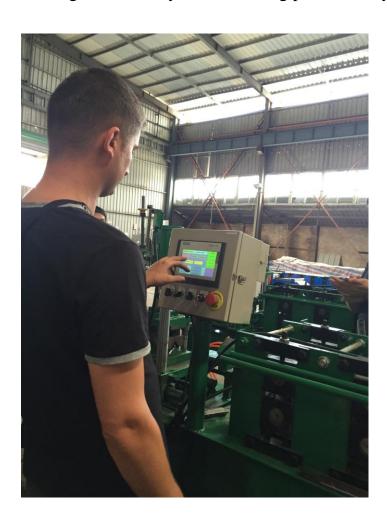
Roll Forming Machine Operation Manual

http://www.superdamachine.com

How to operate Roll forming machine

Roll forming machine systems by PLC control, LCD touch screen, man-machine interface. People interact with the PLC. Operator setting the program to run automatically (programmable control) and control process monitoring, production line operator control and modify the control parameters, and real-time monitoring the equipment status & parameters and fault indication.

User engineer is study how to setting parameter by touch screen photo.



(—). Operation button and manual operation

电源指示	
POWER INDICATOR 故障指示 FAULT INDICATOR ENERGENCY	I. O. P
油泵启动 手动/自动	
主机正转 PUMP START MANUAL/AUTO	
RUNNING FORWARD	
主机反转 油泵停止 L(切刀)下 RUNNING BACKWARD PUMP STOP UP (CUTTING) DOWN	

The layout of the control elements on the console

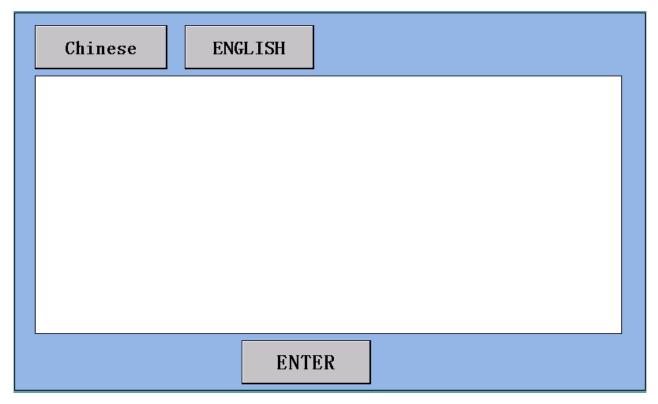
No.	Component name	Component function	Remark
	(symbol)		
1	Touch Screen (IOP)	Used to set the data for automatic operation	
2	Power Supply Indication (H3)	Light On indicates that the power is on	
3	Fault indication (H2)	Light ON means the inverter or pump motor is faulty	
4	Emergency stop (SB1)	Press to indicate that the unit is in an emergency stop state and can not be operated. Release indicates that it can be operated	
5	Forward and direction (H4/SB2)	Press and lighting to indicate that the master is in the forward rotation state	
6	Reverse and Indication (H5/SB3)	Press and lighting to indicate that the host is in the reverse rotation state	
7	Pump start (SB5)	Press to start the pump	
8	Manual / Auto (SA1)	Manual on the left, automatic on the right, the middle stop	
9	Under the upper knife (SA2)	The left controls the cutter upper, the right controls the cutter lower, and is released in the middle position	
10	Pump stop (SB6)	Press the oil pump to stop running	

四, Roller Machinery Automatic operation

AUTOMATIC OPERATION Select automatic operation and start the pump during operation.

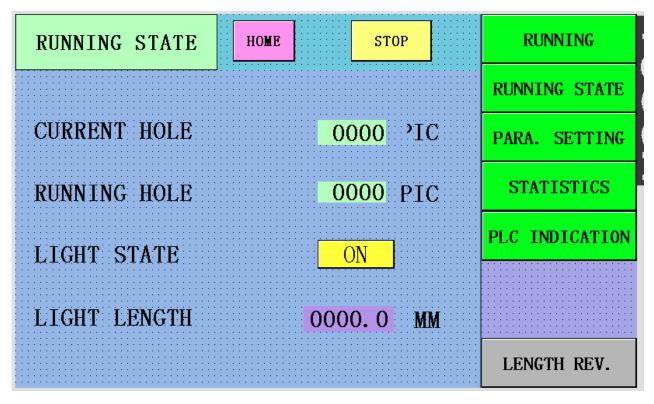
Automatic operation of the settings and operations are using the touch screen. The below detail for introduce how to use Automatic operation by touch screen.

(-). Into the production interface and the interface description



When the device is powered on, the touch screen will display the above interface. Press the "Enter" button to enter the production interface.

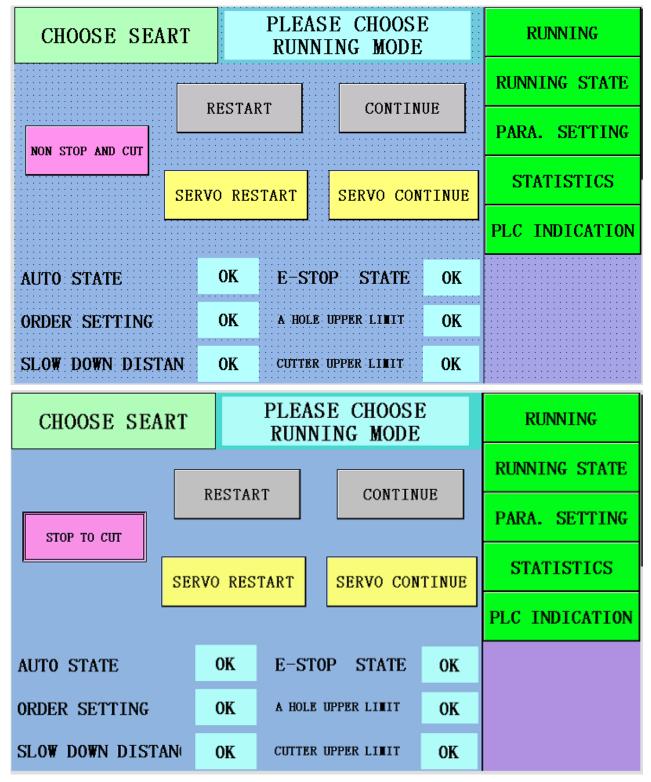
(二). Production interface



The production interface is used to display the current production of the order, for example, how many pieces are being produced and the length of the production.

"Length Clear/Length REV." button is used to clear the current length of the production has been mainly used for counting test, or has been cut after the length of manual reset,

(三). Automatic running



"Restart" button is used to reset the order after the run mode, when the bottom of the screen conditions are met, from the first set of the first piece of the length of 0 to run. Restart, press "SERVO RESTART", then press "RESTART".

"Continue" button is used to stop the machine in the middle, and then continue to run the next way, such as half-way version of the adjustment, such as half-way break. Continue to run

also need to meet the conditions below the screen to start. To continue, press "SERVO CONTINUE", then press "CONTINUE".

STOP TO CUT NON STOP AND CUT Used to change production mode: "STOP TO CUT" or "NON STOP AND CUT".

The following is a description of the Screen satisfaction of roll former conditions .

No.	Screen display menu	The meaning of the representative			
1	Auto state	The "Manual / Auto" switch on the operator station is in the automatic position			
2	E-Stop state The "EMERGENCY STOP" button on the operator panel pressed				
3	Order setting	The number and length of the order settings interface are great than zero			
4	A hole upper limit	The punched A die is in the upper limit position and is pressed to the upper limit switch			
5	Slow down distance	The "Slow down distance" (High speed deceleration distance) setting in the parameter interface is greater than zero			
6	Cutter upper limit	The cutter is in the upper position and is pressed to the upper limit switch			

(四). Cold roll forming machine Parameter setting

PARA. SETTING		RUNNING	
SLOW DOWN DIST	0000.0	MIM	RUNNING STATE
LINER COMP.	000.0	ММ	
LOCKUP COMP.	000. 0	MM	PARA. SETTING
CUTTING DIST.	000.0	ММ	STATISTICS
CUT. TO LIGHT DISTANCE	0000.0	MM	DIMITOR
NEXT PIC PAUSE TIME	00.0	S	PLC INDICATION
CUTTING RST TIME	00.0	S	
AUTO HI SPEED	000. 0	ММ	
AUTO LOW SPEED	000.0	ММ	
MAN SPEED	000.0	MM	PARA 2

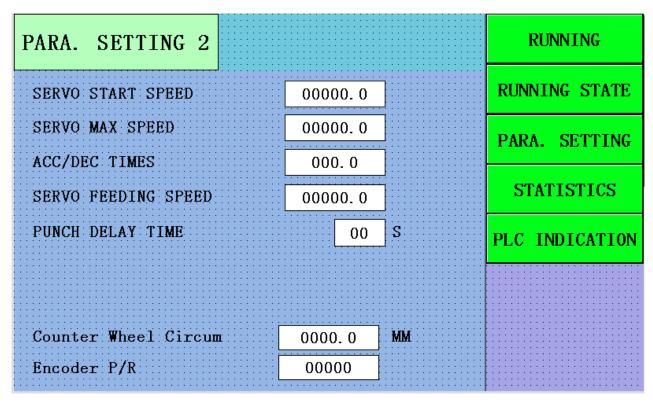
Parameter setting is used to set various parameters that can be adjusted during operation.

These parameters will affect the accuracy of running. Please pay attention to the setting.

The Parameter description as below

No.	Name	Use
1	SLOW DOWN	When the automatic operation is started, the distance from the
	DIST	cutting position to decelerate is related to the inverter deceleration
		time and high speed. The setting is too small and the setting is too
		long. The production speed is slow.
2	LINER COMP.	Due to the precision of the counting wheel, the running plate will
	(meaning liner	accumulate longer or shorter. For example, the circumference of the
	compensation)	counting wheel is 200mm. Because the machining precision is
		199mm, the running plate will be short 5mm. The length of the board
		will be short 10mm, this value is the linear error, with the length of
		the linear change in the error value. To be compensated by running
		the same length of the plate 3, if the length of each piece are the
		same, then the counter wheel does not slip or stuck phenomenon,
		this time to measure the actual board length, and the length set to
		do, by the formula For example, the actual board length is 1999mm
		and the board length is 2000mm, the linearity error is (1999-2000) /2
		= -0.5mm. The actual board length is set to the board length and the
		number of meters is set as the linearity error.
3	LOCKUP COMP.	This value is fixed by the "current production length" in the
	(meaning fixed	production interface. When running to the cutting length, the
	compensation)	machine will stop completely at the beginning of the stop. You can
		see that the display length is a few millimeters more or less than the
		set length. This value is a fixed error, which can be set to the
		compensation, when more should be set with negative (-) ,when less
		should be set with positive (+).
4	CUTTING DIS.	No blanking Shearing is set to 0, with blanking shear set by knife
		thickness.
5	CUT TO LIGHT	When the cutter is cut to the lower limit position, the distance of the
	DISTANCE	board backwards. Used to prevent cutting plate knife
6	NEXT PIC PAUSE	The delay time for starting the next run after cutting (for lifting plate).
	TIME	

7	CUTTING RST	The delay time of Tool holde back.					
	TIME						
8	AUTO HI SPEED	The speed setting when the host is running at high speed					
		automatically					
9	AUTO LOW	The speed setting when the host is running at low speed					
	SPEED	automatically					
10	MAN SPEED	The speed setting at which the host is running when set manually					



Above metal forming parameter description

No.	Name	USE
1	SERVO START	Speed setting at servo start
	SPEED	
2	SERVO MAX	The servo runs at maximum speed setting
	SPEED	
3	ACC/DEC TIMES	Acceleration and deceleration time settings for servo operation
4	SERVO FEEDING	The speed setting of the servo production run
	SPEED	
5	PUNCH DELAY	This parameter can be automatically shut down to punch when the
	TIME	delay on the fuel tank to avoid premature action of the cylinder and

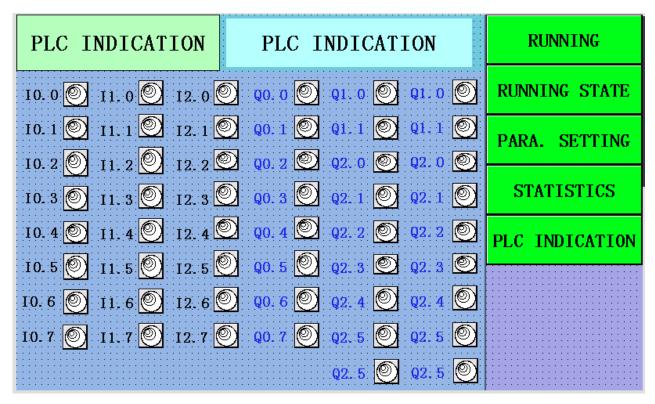
		not damage to the mold.
6	Cutter to the photoelectric distance	The distance between the photoelectric switch and the cutter
7	Counter Wheel circum	Set the perimeter of the counting wheel of the counting plate on the device by the diameter of the vernier caliper and multiply by $\boldsymbol{\pi}$
8	Encoder P/R	The pulse value of the encoder installed on the counting wheel can be found by looking at the description of the encoder

(五). Order settings

STATISTICS				RUNNING	
SERVO HOLE 00	PCS	LENGTH SETTING			RUNNING STATE
NO. LENGTH					PARA. SETTING
00 00000.00	M	PIECE:	0000	PIC	STATISTICS
00 00000.00	M	LENGTH:	0000	PCS*17MM	PLC INDICATION
00 00000.00	M	::::::::::::::::::::::::::::::::::::::	00000	OO MM	
00 00000.00	M				
00 00000.00	M				

The order setting is used to set the number of pieces required for production.

(六). Device status



Device Status Displays the status of each input and output of the device PLC. When a lamp is lighting, it indicates that there is input (output) at this point.

These states and drawings can be used to determine the majority of the equipment failure.