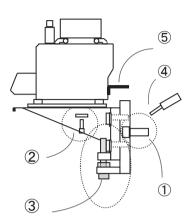
#### Installation Manual

#### ❖ Accessories of Installation

Description of good	R20	
Bracket for machine	Exclusive type	
Electrical cable	P6:8M	
Emergency cable	8M	
Air hose	8*5:6M	
Air regulator	With air filter	
Bolts		
①for the bracket	2-M14*30	
2 for the machine	4−M8*25	
3pass line adjusting	1-M12*120	
Fixture for the air regulator	2-M6*12	
4Bonding	Net 4ml	
Mark tube, Terminal	Assortment	
Sticker	Signal(Feed/Release), Scale for	
	pass line (on the plate)	
Air connector	1-3/8B, 2-2/8B	
<b>⑤</b> Apron plate	Exclusive type	



#### ❖ Setting items

#### Feed Length, Feed Angle, SPM

Changeable main screen in "Set" state.

# Feed length Press rotation speed Feed Length (\_Release Mode) Feed Angle Feed Angle

# Setting method of table screen

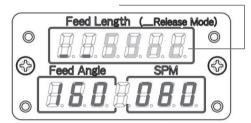
- ① Power Turn ON "Power switch" Numeric value that can be changed item or number will be blink.
- ② ← → Setting items can be changed.
- 3 + / The value can be Changed.

If you need to continue inputting, repeat the (3), (4).

#### Release Mode

"Release Mode" is not displayed in "Set" state only. To display "Release Mode", push on "Sync Release" switch in "Set" state.

#### Release Mode



#### Setting method of "Release Mode"

- ① Power Turn ON "Power switch" Numeric value that can be changed item or number will be blink.
- ② First, push on "Sync Release" switch, keep it.
- 3 + / The value can be Changed. When "Sync Release" is turned off, the display returns the main screen.

# After setting

#### Synchronous operation

Sync Feed



Sync Release



Press the both switches of Sync-Feed, -Release switches, then the feeder will be able to operate automatically.

The pass line height is decided by combination a plate and a holder.

**CAUTION** The plate-center equals the feeding roll-center.

It is necessary to tighten 4 points with a bolt to fix the holder on the plate.

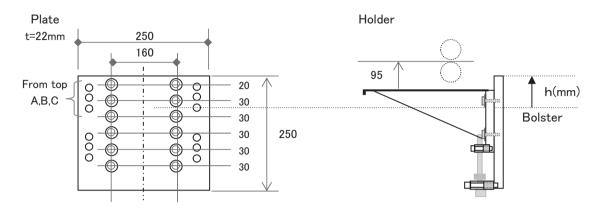
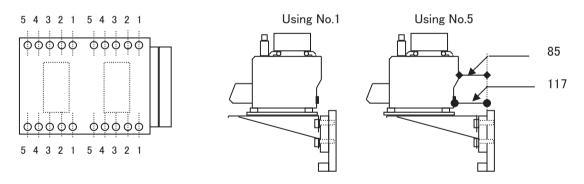


Plate height	Hole position	Pass line (mm)	Plate height	Hole position	Pass line (mm)
h=0	Α	90 <b>~</b> 145		Α	180~235
	В	70 <b>~</b> 125	h=90	В	160~215
	С	50~105		С	140~195
h=30	Α	120~175		Α	210~265
	В	100~155	h=120	В	190~245
	С	80 <b>~</b> 135		С	170~225
h=60	Α	150~205		Α	240~295
	В	130~185	h=150	В	220~275
	С	110~165		С	200~255

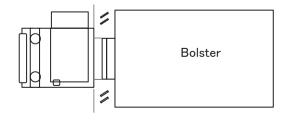
#### ♦ Mounting position

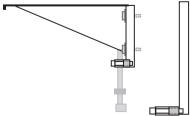
Main machine-Mounting position: 5



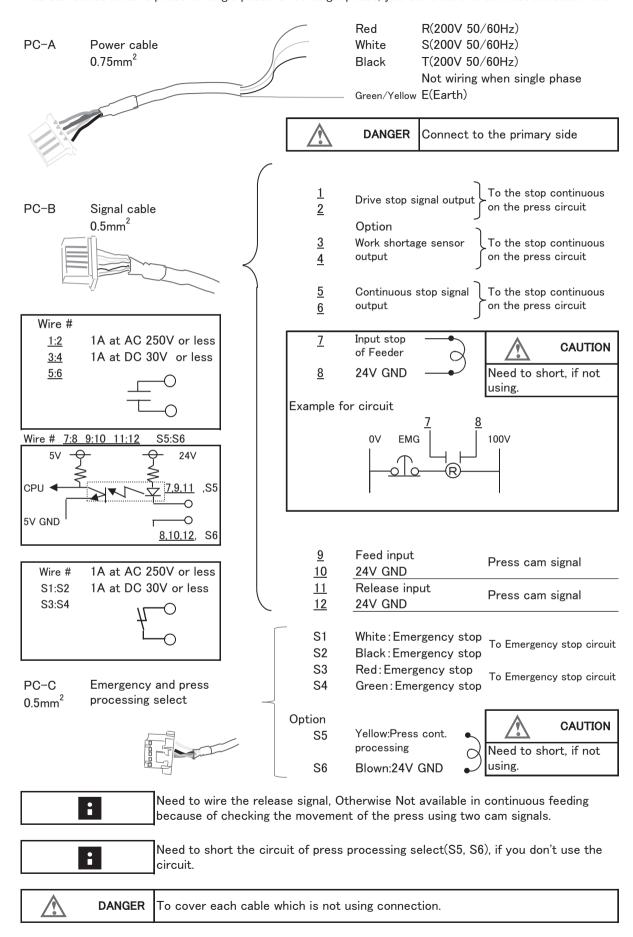
#### Confirmation of balance

# ♦ Assembly drawing of the bracket

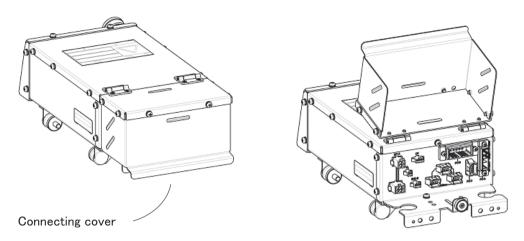


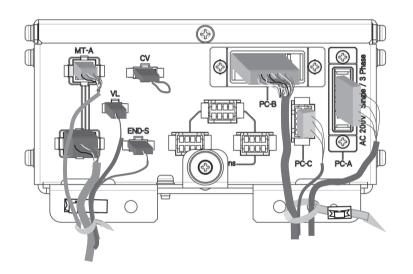


You can select which 3 phase or single phase. If it's single phase, you don't have to connect the black wire.



The receptacles of PC-A, PC-B, PC-C are placed inside the connecting cover.



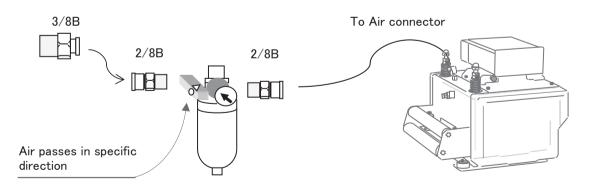


 $\triangle$ 

DANGER

Need to fix three external cables in prepared nylon band.

### Air piping



 $\wedge$ 

CAUTION

\*Approximate air pressure : 0.3~0.5 MPa

\*Maximum air pressure: 0.5 MPa

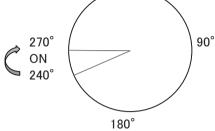
#### Feed signal adjusting

Set the feed start position to feed signal OFF position. When you make the feed starts on  $270^{\circ}\,$  ,

Set the ON angle of feed to  $240^{\circ}$  , and set the OFF angle to  $270^{\circ}$ 

NOTE

Need to set the ON of the feed signal to the feed completed angles when using option "Overrun-Function".



Press cam signal

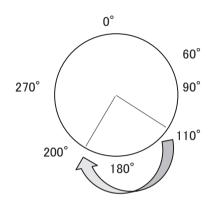
#### Release signal adjusting

Set the ON to the release start angle, and set the OFF to the finish.

When the release angle is assumed to  $200^{\circ}$  from  $200^{\circ}$ , you turn on the press cam signal in 110 degrees, and turn off in 200 degrees.

The retention angles of the release ON must be 25 degrees or more.

Need to adjust the signal of the release start even if the release system is used a time setting of timer or angles.



#### ❖ Release setting in the controller 【 (\_\_Release Mode) 】

You can change the release mode.

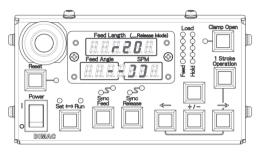
【 (\_\_Release Mode) 】 the display is the back screen of 【 Feed Length 】.
Release Mode is not displayed in "Set" state only.
To display " Release Mode", Push on "Sync Release" switch in "Set" state.
To change the "Release Mode", Keep "Sync Release" switch ON, and using "+" or "-" switch,

#### Display and contents

Feed Length (Release Mode)	Contents	
SYnc	Synchronization press cam signal	
OFF	Invalid the release signal, Release off state.	
80 :	Release angles setting. It can be input from 1 $^\circ$ to $50^\circ$ .	
~	the control calculates the release time from the setting SPM and the angles, the release will operate in the time range.	
RSO	Input the release start using the press cam signal.	
「0	Release timer setting. It can be input from 0.001sec to 0.05 sec.	
~	Input time period, the release carry out.	
rso	Input the release start using the press cam signal.	

	NOTE	The release operation is delayed due to air cylinder.
		The delay time will vary depending in the springs pressure.

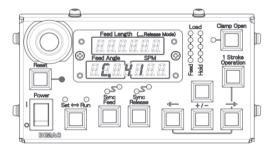
The code will display the operating state of the feeder to suit the operation state and setting disabled state.



Feed Length	Feed Angle SPM	Contents	Method of reset
r20 ·	33	Position: Left Direction: L to R	When turning on power only, the control panel displays the program
	-, -,33	Position: Right  Model Direction: L to R	
	CC	number Position: Left Direction: R to L	
	۵, ۵, ۰, ۰,	Position: Right Direction: R to L	
coc	<b>પ્</b> યુપ્યુપ્	Emergency stop switch ON	After releasing the Emergency
enc	44444	Emergency stop switch OFF	stop switch, turn off the power
	Прит stop signal during driving press		Turn on Reset switch after input stop signal release
Srop	10 10 10	Input stop signal release	Turn on Reset switch
	111111	Input stop signal	Automatic reset after clear
End_2	เนเน	Work shortage sensor ON Another work shortage sensor ON	After setting a work pieces, turn on "Reset" switch
End_2	וווווו	Work shortage sensor release Another work shortage sensor release	Turning off "Sync Feed", the work shortage sensor will disabled.
	88 188 1	Interfere releasing	Turn on "Reset" switch
1 - F	583588	Input feed signal during feeding	Turn on "Sync Feed" and "Sync Release" after turn on "Reset" switch
	883883	Input feed signal during releasing	
	884884	Input release signal during feeding	
8	888888	Overrun	

# ♦ Caution display

This caution displays have a possibility which the feeder is reset. These displays are as the follows, Reset: Blinking. Feed Angle  $SPM: \mathcal{L}$  Number



Code	Number	State / Content	Note
٤.	40	Open phase	Confirmation of the power supply
٤.	4:	Low voltage detection	Checking the voltage
٤.	50 - 1	Motor connection anomaly	Contact failure
ξ,	50 -2	Motor connection anomaly	Contact failure
٤.	50 -3	Malfunction of Rotation sensor	Setting mistake

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