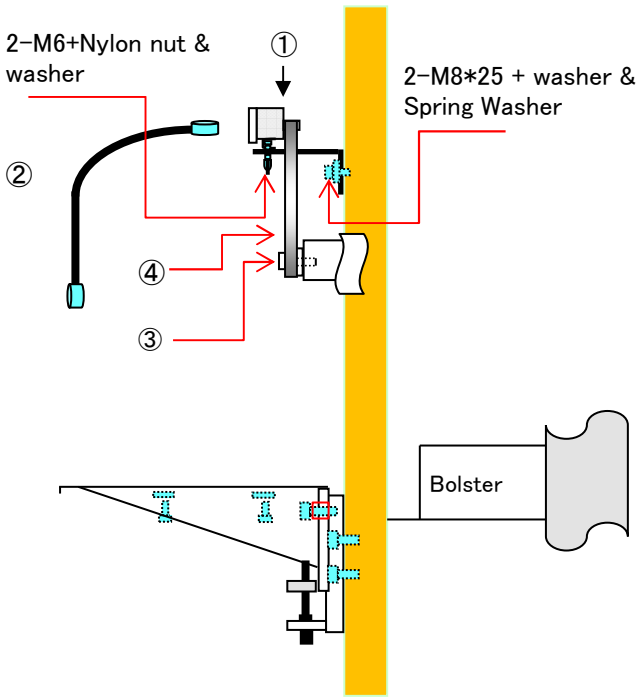
Installation manual

Accessories



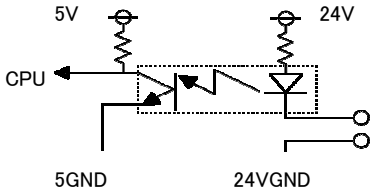
Standard components

Product name	Quantity, specifications
Power cable (3.5㎟) Signal cable (0.5㎟) Emergency cable (0.5㎟)	1-8M
Terminal set	1
Main unit securing bolt/washer	3－M10*25
①Press rotation sensor	1
②Rotation sensor cable	1-6M
③Pulley for press	1-M19XL037
Instruction manual	1

Option

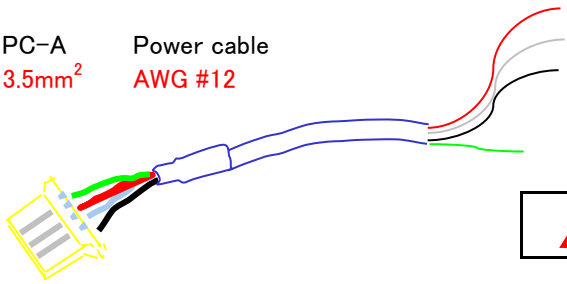
Product name	Quantity, specifications
④Timing belt	1-N(L)XL037
Bracket for installing main unit	1
Accessories	
Bracket securing bolt	4-M16*35
Pass line adjusting bolt	1-M14*150
Pass line sticker	1 – scale in increments of 60 mm/1 mm
Anaerobic adhesive	1

Required for installing a press

Press		Specifications・Interlock	
Power supply voltage Maximum power consumption		3Phase 200V(±10%),50/60Hz 12.5KW (200V / 37A)	
Emergency stop switch input 2-systems support		Emergency stop signal output This signal outputs directly from the emergency stop switch. 1 A at 250 VAC or less 1 A at 30 VDC or less	
Abnormal stop circuit		Stop signal output 1 A at 250 VAC or less Open at output 1 A at 30 VDC or less	
Continuous operation stop input		Continuous stop signal output 1 A at 250 VAC or less Open at output 1 A at 30 VDC or less	
Emergency stop output	Open collector output or Contact output	Emergency stop input circuit 0.01A at 24VDC	
Sync. Signal(Cam) output	Open collector output or Contact output	Feeder synchronization signal input circuit Feed/Release	
Press continuous operation output	Open collector output or Contact output	Press process input circuit	

Press	Option
Work shortage stop circuit or Top dead center stop circuit	Continuous stop signal output 1 A at 250 VAC or less Open at output 1 A at 30 VDC or less

PC-A Power cable
3.5mm^2 AWG #12

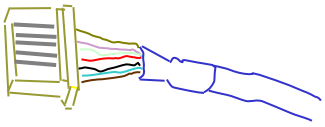


Red R(200V 50/60Hz)
White S(200V 50/60Hz)
Black T(200V 50/60Hz)
Green / Yellow E(Earth)

12.5KW
200V / 37A

DANGER	Connect to the primary side

PC-B Signal cable
0.5mm^2 AWG #20



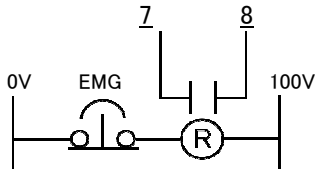
1 2	Drive stop signal output	To the stop continuous on the press circuit

Option

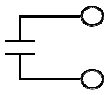
3 4	Work shortage sensor output	To the stop continuous on the press circuit
5 6	Continuous stop signal output	To the stop continuous on the press circuit

7	Input stop of Feeder	CAUTION: Need to short, if not using.
8	24VGND	

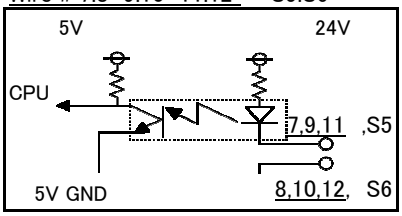
Example for circuit



Wire #
1:2 1A at AC 250V or less
3:4 1A at DC 30V or less
5:6



Wire # 7:8 9:10 11:12 S5:S6

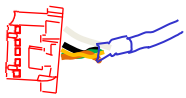


Option

9 10	Feed input 24V GND	Press cam signal
11 12	Release input 24V GND	Press cam signal

Wire #
S1:S2 AC250V / 1A or less
S3:S4 DC30V / 1A or less

PC-C
0.5mm^2 Emergency and press processing select



S1 S2	White : Emergency stop Black : Emergency stop	To Emergency stop circuit
S3 S4	Red : Emergency stop Green : Emergency stop	To Emergency stop circuit
S5	Yellow: Press cont. processing	CAUTION: Need to short, if not using.
S6	Blown:24V GND	

Need to short the circuit of press processing select(S5, S6), if you don't use the circuit.

DANGER	To cover each cable which is not using connection.

Rotation sensor installation

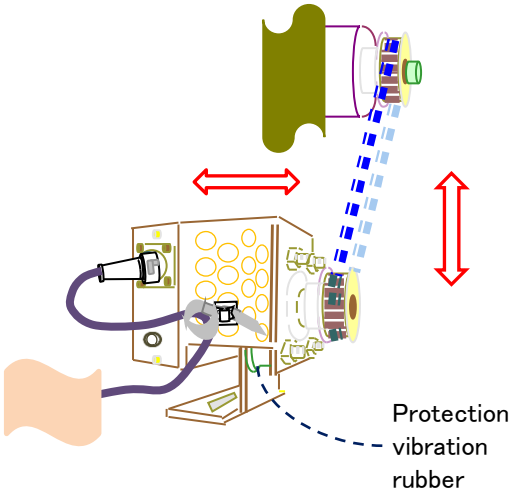
Install the press intent pulley on the axis rotating at a ration of 1 : 1 to

For the pulleys connected with the timing belt, make a parallelism adjustment so that no offset would occur.

Note that the timing belt reads a tension of approximately 24.5N(2.5kgf)

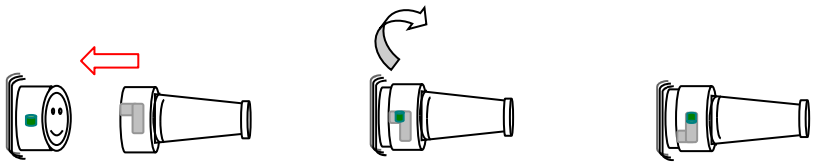
Make sure to confirm the straightness of the timing belt toward the basic point.

Secure the sensor-cable on the body of the rotation sensor attached the protection vibration rubber in order to protect the disconnection.



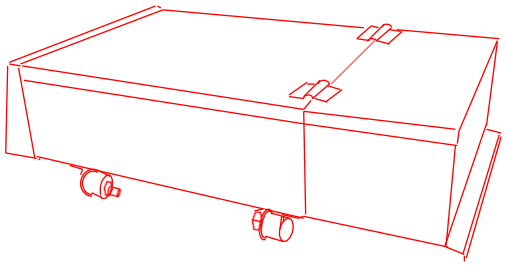
Connecting of the metal plug （Bayonet system）

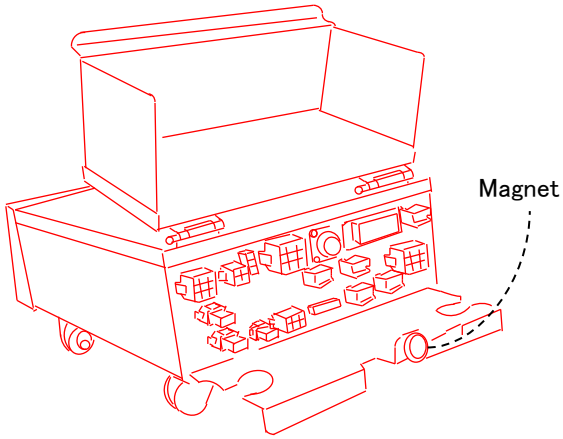
The plug is put according to the pin of the receptacle, and you make the sleeve revolve and lock it.

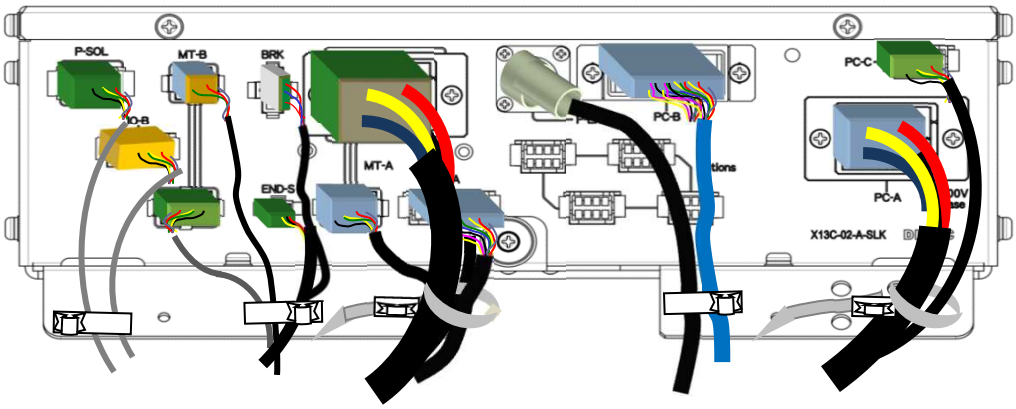


Cable connecting

The receptacles of PCA-A, PCB, PCC are placed inside the connecting cover.







DANGER	Need to fix three external cables in prepared nylon band.

Require to input the press angle to the rotation sensor

The control panel is supposed to display the error code "E. 10 - 3" when the rotation sensor does not have input angles.

Require to input the press angle to the controller according to the installing press even though the rotation sensor has any angles.

The error code "E. 10 - 3" won't be displayed when you turn on the feeder by using initial setting

Procedure of initial setting

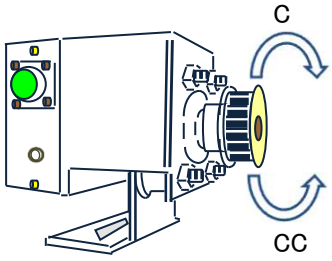
Process	Switch name	Switch position	Code number	Contents
①	Power	**OFF**		
②	Emergency Stop	**ON**		
③-1	Reset To Keep	**ON**		
③-2	Power	**ON**		
Set the direction of the rotation sensor by using + / − switch.			210.	cc. c.
④	← →	Change the code to 211	211.	
⑤	+ / −	Set the press angles by using + / − switch.	211.	Set the press angles **Example** 359.
⑥	Set ⇔ Run	**ON**		
⑦	Power	**OFF**		
⑧	Emergency Stop Finish	**OFF**		

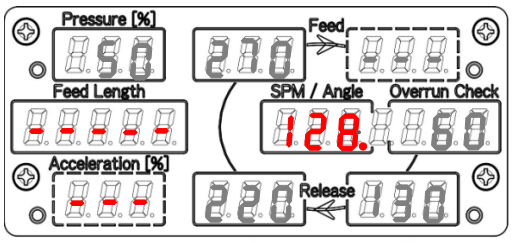
Need to push on "Set ⇔ Run" after the initial setting is finished.

Direction of rotation sensor for a press

If the direction of the rotation sensor is against, the controller will blink "SPM / Angle" in high-light, and display the minus on the display "Feed Length" and "Acceleration [%]".

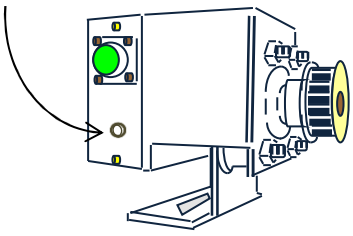
In case of that, Need to input the press angles from the start.



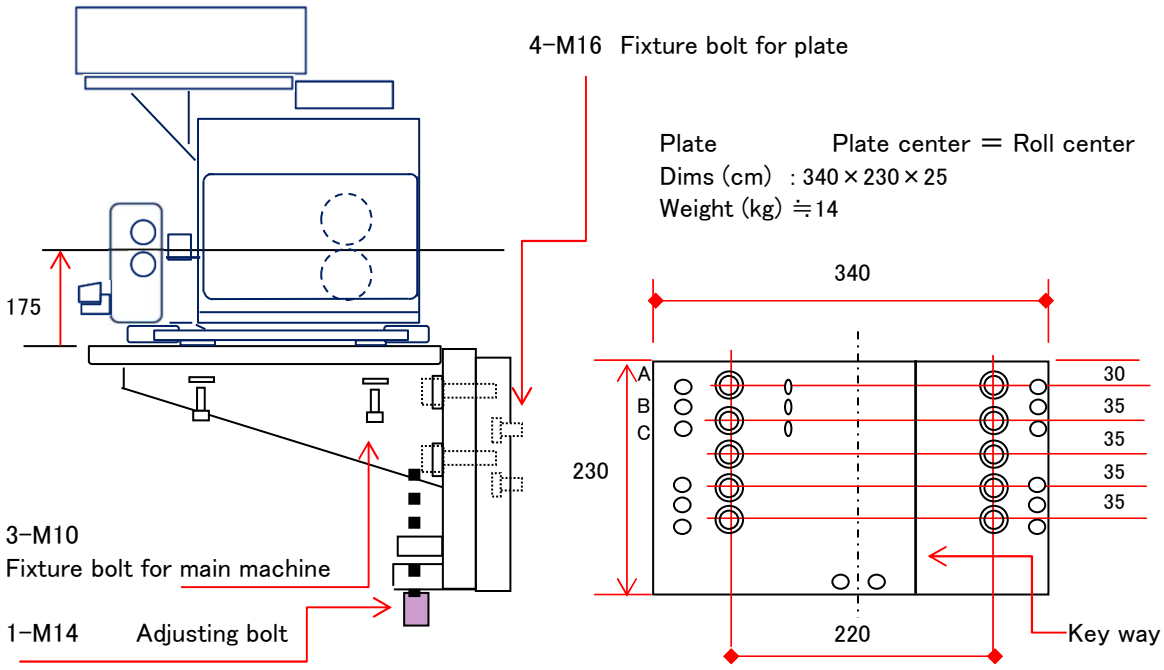


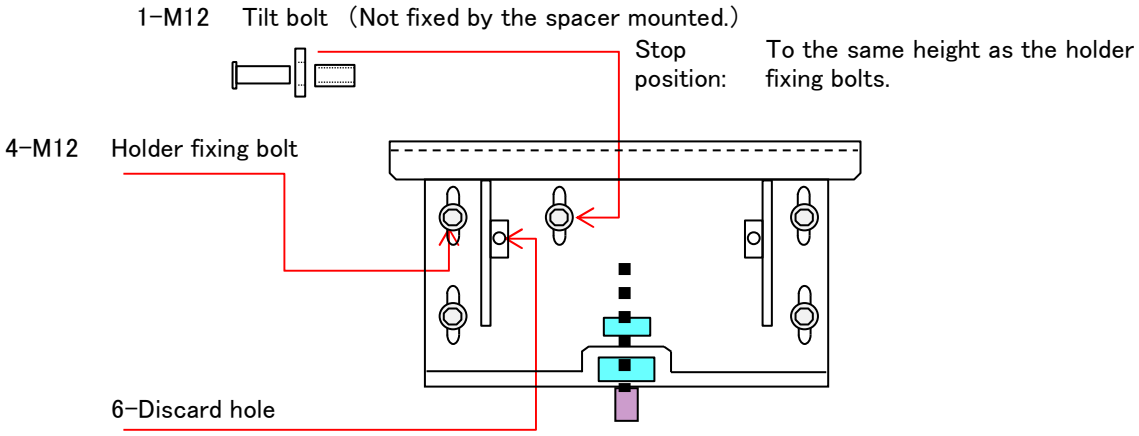
Status lamp

Status lamp



Indication	Rotation sensor status
Off	Offline
Lit	Online
High speed Blinking	In Active
Low speed Blinking	Error

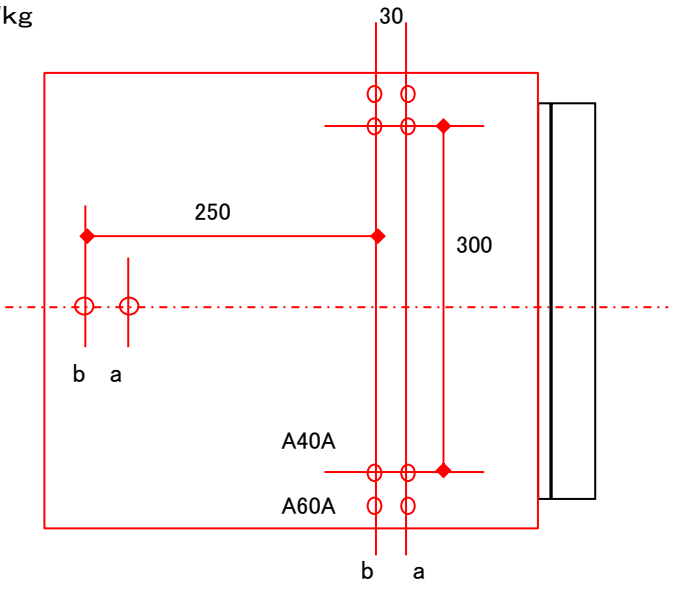




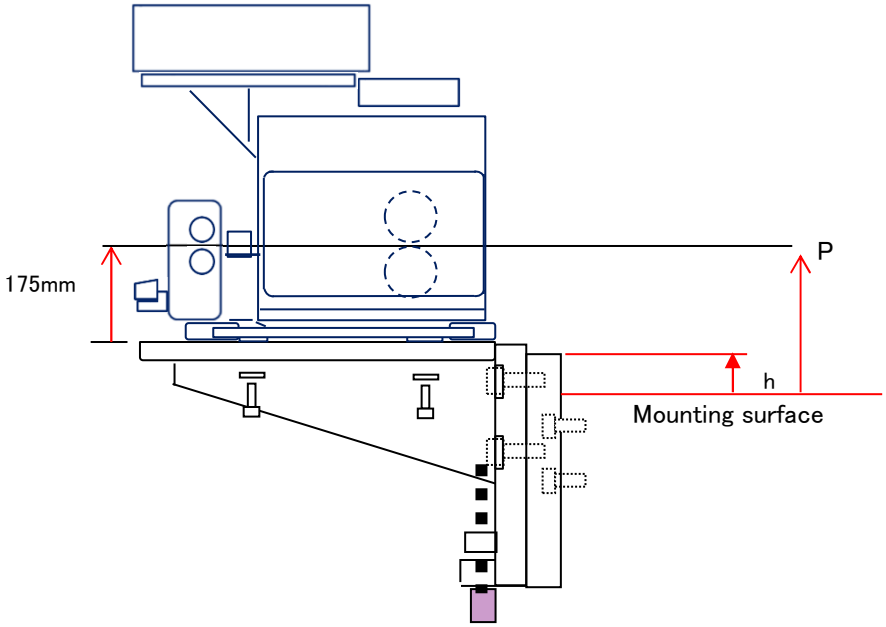
Assembly bracket weight ≒ 31.7kg

Installation position two stages
(a, b selects)

Fixed position: three places
3-M10

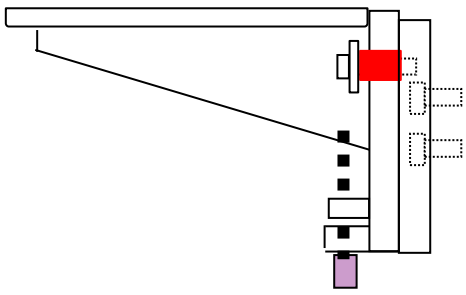


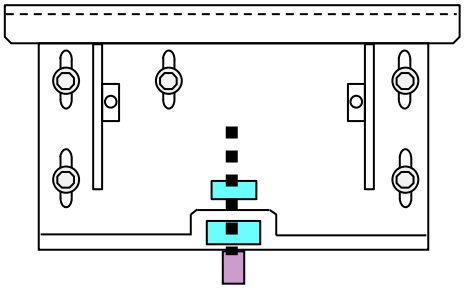
A-A Passline at the using Dimac-Bracket



h	Plate hole	P	h	Plate hole	P
h=0	A	191～251	h=35	A	226～286
	B	171～231		B	206～266
	C	151～211		C	186～246
h=5	A	196～256	h=65	A	256～316
	B	176～236		B	236～296
	C	156～216		C	216～276

The tilt bolt does not need to loosen when you adjust the pass line.
The plate and the holder are not fixed by the spacer.





Loosen the four fixing bolts and then move the bracket up and down with the adjustment bolt.

Danger	Make sure to tighten the 4 fixing bolts after the adjustment.