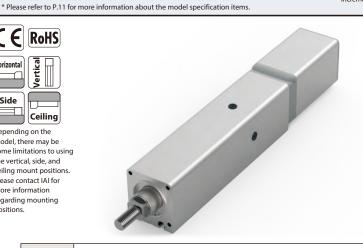
* RCP6 does not include a controller. RCP6S includes a built-in controller.

Battery-Body Width Motor **24**_v less Absolute 85 mm Coupled Motor Steppe Type ■ Model **60P** WA RA8C Specification Applicable Controller/I/O Type Encoder Type — Motor Type Stroke Cable Length Options Items N : None P : 1m Please refer to the options table below. RCP6: Separate Controller WA: Battery-less 60P: Stepper 20: 20mm 50: 50mm [RCP6] P4: PCON-CFB/CGFB [RCP6S] SE: SIO Type RCP6S: Built-in Controller Absolute 10:10mm P: 1m S: 3m M: 5m X□□: Specified Length R□□: Robot Cable 60□ Size 300: 300mm

(50mm increments)



*Depending on the model, there may be some limitations to using the vertical, side, and ceiling mount positions Please contact IAI for more information regarding mounting positions.



(1) The maximum acceleration/deceleration is 0.1G for lead 5 and 0.2G for lead 10/20.

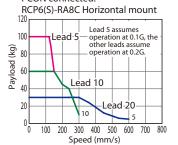
(2) The actuator specification displays the payload's maximum value, but it will vary depending on the acceleration and speed. Please refer to the "Selection Guidelines" (RCP6 Tables of Payload by Speed/Acceleration) on P.115 for more details. (3) The value of the horizontal payload assumes that there is an external guide. Please be aware that the anti-rotation stopper can

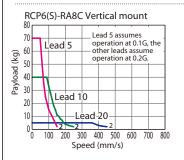
be damaged when an external force is applied to the rod from any direction other than the moving direction. (4) When performing push-motion operation, please confirm the push force of each model by checking the "Correlation diagram of push force and current limit" on P.113.

(5) For RCP6S (built-in controller type), please limit the duty cycle to 70% or less.

(6) The service life of an actuator varies depending on the payload when using vertically. Please refer to P. 114 for more information.

Correlation Diagrams of Speed and Payload PCON connected.





Actuator Specifications

■ Lead and Payload Max. Payload Stroke Lead **Model Number** Horizontal (kg) Vertical (kg) RCP6(S)-RA8C-WA-60P-20-①-②-③-④ 20 30 50~300 (The increment of stroke is 50mm) RCP6(S)-RA8C-WA-60P-10-①-②-③-④ 10 60 40 RCP6(S)-RA8C-WA-60P-5-①-②-③-④ 5 100 70

Legend: ① Stroke ② Applicable controller/I/O type ③ Cab	ole length	Options

	■ Stroke and Max. Speed (Unit: mm/										
	Lead (mm)	50~300 (Every 50mm)									
	20	600 <450>									
t	10	300 <250>									
	5	150									

Values in brackets < > are for vertical use.

U Stroke									
Stroke (mm)	RCP6	RCP6S	Stroke (mm)	RCP6	RCP6S				
50	0	0	200	0	0				
100	0	0	250	0	0				
150	0	0	300	0	0				

④ Options							
Name	Option Code	Reference Page					
Brake	В	See P.105					
Cable exit direction (Top)	CJT	See P.105					
Cable exit direction (Right)	CJR	See P.105					
Cable exit direction (Left)	CJL	See P.105					
Cable exit direction (Bottom)	CJB	See P.105					
Flange	FL	See P.106					
Foot bracket	FT	See P.107					
Tip adapter (Internal thread)	NFA	See P.109					
Non-motor end specification	NM	See P.110					
T-slot nut bar	NTB	See P.110					

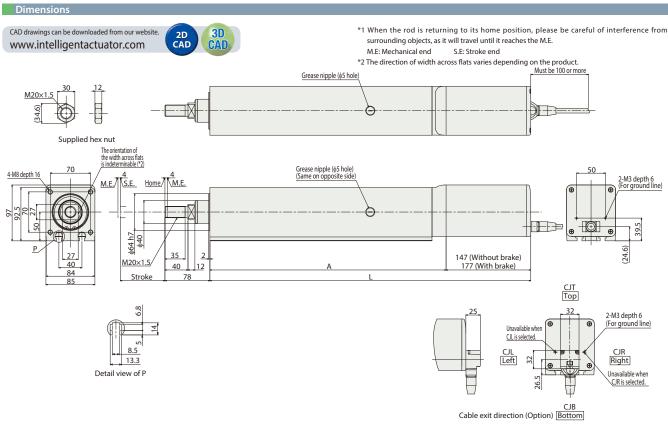
When selecting multiple options, please list them in alphabetical order. (e.g. B-CJB-NM)

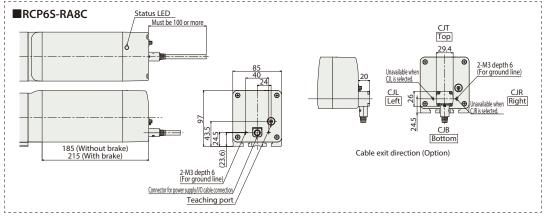
③ Cable Length								
Cable Type	Cable Code	RCP6	RCP6S					
	P (1m)	0	0					
Standard	S (3m)	0	0					
	M (5m)	0	0					
	X06 (6m) ~X10 (10m)	0	0					
Specified Length	X11 (11m) ~X15 (15m)	0	0					
	X16 (16m) ~X20 (20m)	0	0					
	R01 (1m) ~R03 (3m)	0	0					
	R04 (4m) ~R05 (5m)	0	0					
Robot Cable	R06 (6m) ~R10 (10m)	0	0					
	R11 (11m) ~R15 (15m)	0	0					
	R16 (16m) ~R20 (20m)	0	0					

* Please refer to P.144 for more information regarding the maintenance cables.

Actuator Specifications								
ltem	Description							
Drive system	Ball screw \phi16mm, rolled C10							
Positioning repeatability	±0.01mm							
Lost motion	0.1mm or less							
Rod	φ40mm Material: Aluminum with hard alumite treatment							
Static allowable torque on rod tip	5N•m							
Max. angular displacement on rod tip (*1)	±0.8 deg.							
Ambient operating temp. & humidity	0~40°C, 85% RH or less (Non-condensing)							

(*1) This is the displacement angle of the rod tip (initial reference value) when the rod is fully retracted and the static allowable torque is applied at the rod tip.





■ Dimensions and Mass by Stroke

	Strok	e	50	100	150	200	250	300
	RCP6	w/o brake	407	457	507	557	607	657
	KCPO	w/brake	437	487	537	587	637	687
_	RCP6S	w/o brake	445	495	545	595	645	695
		w/brake	475	525	575	625	675	725
	Α		260	310	360	410	460	510
	RCP6S	w/o brake	7.8	8.6	9.5	10.3	11.1	11.9
Mass		w/brake	8.4	9.2	10.0	10.9	11.7	12.5
(kg)		w/o brake	8.1	9.0	9.8	10.6	11.4	12.3
_		w/brake	8.7	9.5	10.4	11.2	12.0	12.8

② Applicable Controllers The RCP6 series actuators can be operated by the controllers indicated below. Please select the type depending on your intended use. * Please refer to P.147 for more information about the built-in controller of RCP6S series.												
Name External Max.number of Input Control method Maximum nu								Maximum number	Reference page			
	view	controlled axes	power	Positioner	Pulse train F	rogram	Network *Option	of positioning points	Reference page			
PCON-CFB/CGFB		1	DC24V	• *Option	*Option	-	DeviceNet CompoNet EtherNet/IP CC-Link ARROWN EtherCAT:	512 (768 for network spec.)	Please see P.131			