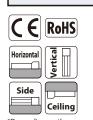
Battery-Body Width Motor **24**_v 40 Side-mo Steppe Absolute Type Moto Body width doe not include the width of the side ■ Model 35P RA4R WA Specification mounted motor Motor Type Applicable Controller/I/O Type Encoder Type — Stroke Cable Length Options Items [RCP6] P3: PCON N : None P : 1m Please refer to the options table below. RCP6: Separate Controller WA: Battery-less 35P: Stepper 16: 16mm 50: 50mm RCP6S: Built-in Controller Absolute Motor 10: 10mm 5: 5mm MCON MSEL [RCP6S] SE: SIO Type S : 3m M: 5m 35□ Size 5mm 200: 200mm *Please make sure to specify ML, MR or MT 2.5: 2.5mm (50mm increments) * RCP6 does not include a controller. RCP6S includes a built-in controller. X□□ : Specified Length when ordering the side R□□ : Robot Cable mounted motor type.



*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.



The figure above is the motor side-mounted to the left (ML).

Selection Notes

Actuator Specifications

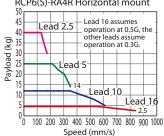
- (1) The maximum acceleration/deceleration is 1G for horizontal, and 0.5G for vertical use.
- (2) The actuator specification displays the payload's maximum value, but it will vary depending on the acceleration and speed. Please refer to the "Selection Guidelines" (RCP6 Tables of Payload by Speed/Acceleration) 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.

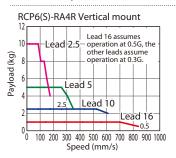
High-output

Enabled

■ Correlation Diagrams of Speed and Payload

High-output enabled with PCON/MCON/MSEL connected. RCP6(S)-RA4R Horizontal mount





■ Lead and Payload Max. Payload Connected Lead Model Number Controller Horizontal (kg) | Vertical (kg High-output RCP6(S)-RA4R-WA-35P-16-①-②-③-④ 5 16 Enabled High-output 10 12 2.5 50~200 Enabled The increme of stroke is 50mm) High-output RCP6(S)-RA4R-WA-35P-5-①-②-③-④ 25 5 Fnabled

Legend: ① Stroke ② Applicable controller/I/O type ③ Cable length ④ Options

RCP6(S)-RA4R-WA-35P-2.5-①-②-③-④

	■ Str	(Unit: mm/s)		
	Lead (mm)	Connected Controller	50~200 (Every 50mm)	
ent	16	High-output Enabled	840	
	10	High-output Enabled	610	
	5	High-output Enabled	350	
	2.5	High-output Enabled	175	

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

4 Options			
Name	Option Code	Reference Page	
Brake	В	See P.105	
Cable exit direction (Outside)	CJ0	See P.105	
Flange	FL	See P 106	

Brake	В	See P.105
Cable exit direction (Outside)	CJ0	See P.105
Flange	FL	See P.106
Foot bracket	FT	See P.107
Motor side-mounted to the left	ML	See P.109
Motor side-mounted to the right	MR	See P.109
Motor side-mounted to the top	MT	See P.109
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				

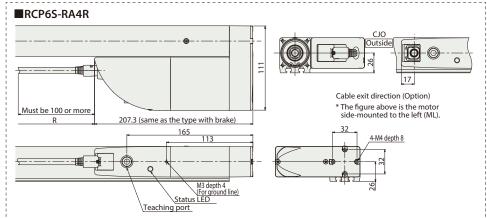
^{*} Please refer to P.144 for more information regarding the maintenance cables.

Actuator Specifications	
Item	Description
Drive system	Ball screw φ8mm, rolled C10
Positioning repeatability	±0.01mm
Lost motion	0.1mm or less
Rod	φ20mm Material: Aluminum with hard alumite treatment
Static allowable torque on rod tip	1.0N•m
Max. angular displacement on rod tip (*1)	±1.0 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 *1 When the rod is returning to its home position, please be careful of interference from CAD drawings can be downloaded from our website surrounding objects, as it will travel until it reaches the M.E. www.intelligentactuator.com M.E: Mechanical end S.E: Stroke end *2 The direction of width across flats varies depending on the product. Grease nipple (\(\psi 2.5 \) hole) (Top and side) ----Supplied hex nut Must be 100 or more 187.5 (same as the type with brake) 4-M4 depth 8 133 (0.5)Home/ M.E. M.E. 7 (26) M3 depth 4 (For ground line), 438 F 420 35.5 (Motor side-mounted to the left) 16.5 (Motor side-mounted to the right) is indeterminable (*2) M10×1.25 9.5 40 (1) CJO Outside

Detail view of P



* The figure above is the motor side-mounted to the left (ML).

Cable exit direction (Option)

Note:

* If the length for R is negative in the table below, the length of the actuator body is shorter than the motor unit.

■ Dimensions and Mass by Stroke

Stroke			100	150	200	
L		179	229	279	329	
A			198	248	298	
RC	IP6	-8.5	41.5	91.5	141.5	
RC	P6S	-28.3	21.7	71.7	121.7	
DCD6	w/o brake	1.5	1.7	1.9	2.1	
KCPO	w/brake	1.6	1.8	2	2.2	
DCD4C	DCD65 W/o brake		1.6	1.8	2	2.2
w/ brake		1.7	1.9	2.1	2.3	
	L A RO	L A RCP6 RCP6S RCP6S W/o brake w/brake W/o brake W/o brake	L 179 A 148 RCP6 -8.5 RCP6S -28.3 RCP6	L 179 229 A 148 198 RCP6 -8.5 41.5 RCP65 -28.3 21.7 W/b take 1.5 1.7 W/b take 1.6 1.8 RCP6S W/o brake 1.6 1.8	A 179 229 279 A 148 198 248 RCP6 -8.5 41.5 91.5 RCP65 -28.3 21.7 71.7 RCP6	

he RCP6 series actuators ca	in be operated by	the controlle	ers indicated below	. Please select tl	he type dependi	ing on your inte	nded use. * Please	refer to P.147 for mo	ore information about the buil	t-in controller of RCP6S series
	External view	Max. number of controlled axes	Unput power	Positioner					Maximum number of positioning points	Reference page
PCON-CB/CGB	1	1	DC24V	• *Option	• *Option	-	DeviceNet WEDWIFOLINK		512 (768 for network spec.)	Please see P.131
MCON-C/CG	1111	4	DC24V			CompoNet Note: The type of compatible networks	256	Please see the MCO catalog.		
MSEL-PC/PG		4	Single-phase 100~230VAC	_	-	•	will vary depending on the controller. Please refer to reference page for more information.		30,000	Please see the MSEI PC/PG catalog.