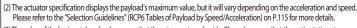
Battery-Body Width S)-RA6R Motor **24**_v less Absolute 58 mm Side-mo Steppe Type Moto * Body width does not include the width of the side ■ Model WA **42P** RA6R — Specification mounted motor Applicable Controller/I/O Type Encoder Type — Motor Type Stroke Cable Length Options Items [RCP6] P3: PCON N : None P : 1m Please refer to the options table below. RCP6: Separate Controller WA: Battery-less 42P: Stepper 20: 20mm 50: 50mm RCP6S: Built-in Controller Absolute Motor 12: 12mm MCON MSEL [RCP6S] SE: SIO Type S : 3m M: 5m 42□ Size 6: 6mm 300: 300mm S:3m M:5m X□□:Specified Length R□□:Robot Cable *Please make sure to specify ML, MR or MT when ordering the side mounted motor type. 3: 3mm (50mm increments) * RCP6 does not include a controller. RCP6S includes a built-in controller.

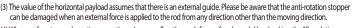


*Depending on the model, there may be some limitations to using the vertical, side, and ceiling mount positions. Please contact IAI for more information regarding mounting positions.



(1) The maximum acceleration/deceleration is 1G for horizontal, and 0.5G for vertical use.



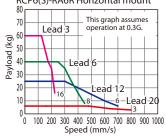


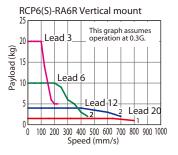
(4) When performing push-motion operation, please confirm the push force of each model by checking the "Correlation diagram of push force and current limit" on P.113.

(5) Depending on the ambient operational temperature, duty control is necessary for the RCP6S (built-in controller type) with lead 3/6. Please refer to P.130 for more information.

■ Correlation Diagrams of Speed and Payload

High-output enabled with PCON/MCON/MSEL connected. RCP6(S)-RA6R Horizontal mount





Actuator Specifications Lead and Payload Model Numb

Model Number	Lead (mm)	Connected Controller	Max. P Horizontal (kg)	ayload Vertical (kg)	Stroke (mm)
RCP6(S)-RA6R-WA-42P-20-①-②-③-④	20	High-output Enabled	6	1.5	
RCP6(S)-RA6R-WA-42P-12-①-②-③-④	12	High-output Enabled	25	4	50~300 (The increment
RCP6(S)-RA6R-WA-42P-6-①-②-③-④	6	High-output Enabled	40	10	of stroke is 50mm)
RCP6(S)-RA6R-WA-42P-3-①-②-③-④	3	High-output Enabled	60	20	

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

	■ Str	(Unit: mm/s)		
	Lead (mm)	Connected Controller	50~300 (Every 50mm)	
	20	High-output Enabled	800	
nt	12	High-output Enabled	700	
	6	High-output Enabled	450	
	3	High-output Enabled	225	

U Stroke	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 (Outside)	CJO	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 Len	gth		
Cable Type	Cable Code	RCP6	RCP6S
	P (1m)	0	0
Standard	S (3m)	0	0
	M (5m)	0	0
Specified Length	X06 (6m) ~X10 (10m)	0	0
	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.

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Actuator	Э	pecifications

Item	Description
Drive system	Ball screw \(\phi 10mm, rolled C10 \)
Positioning repeatability	±0.01mm
Lost motion	0.1mm or less
Rod	φ25mm Material: Aluminum with hard alumite treatment
Static allowable torque on rod tip	1.5N•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 (\(\psi \) hole) (Top and side) Supplied hex nut Must be 100 or more 193.1 (same as the type with brake) 4-M6 depth 12 4-M6 depth 12 129 (same as the type with brake) M3 depth 4 (For ground line)/ 046 025 The orientation of the width across flats is indeterminable (*2) M10×1.25/ 9.5 CJO Outside (1) Detail view of P Cable exit direction (Option) * The figure above is the motor side-mounted to the left (ML). ■RCP6S-RA6R Must be 100 or more Cable exit direction (Option) 250.3 (same as the type with brake) * The figure above is the motor side-mounted to the left (ML). 212 (same as the type with brake) 168.2 (same as the type with brake) M3 depth 4 (For ground line) 4-M6 depth 12

■ Dimensions and Mass by Stroke

Stroke			100	150	200	250	300
L		200	250	300	350	400	450
A		172.5	222.5	272.5	322.5	372.5	422.5
RCP6		6.9	56.9	106.9	156.9	206.9	256.9
RCP6S		-50.3	-0.3	49.7	99.7	149.7	199.7
DCDC	w/o brake	2.8	3.2	3.6	4.0	4.4	4.8
KCPO	w/brake	2.9	3.3	3.7	4.1	4.5	4.9
DCD4C	w/o brake	2.9	3.3	3.7	4.1	4.5	4.9
w/brake		3.0	3.4	3.8	4.2	4.6	5.0
	L A RO	L A RCP6 RCP6S RCP6S W/o brake w/brake W/o brake W/o brake	L 200 A 172.5 RCP6 6.9 RCP6S -50.3 RCP6	L 200 250 A 172.5 222.5 RCP6 6,9 56.9 RCP65 -50.3 -0.3 RCP6	L 200 250 300 A 172.5 222.5 272.5 RCP6 6.9 56.9 106.9 RCP6S 50.0 3 0.0 49.7 RCP66	L 200 250 300 350 A 7172.5 222.5 272.5 322.6 RCP6 6.9 56.9 106.9 156.9 RCP6S 2.8 3.2 3.6 4.0 W/brake 2.9 3.3 3.7 4.1 RCP6S W/o brake 2.9 3.3 3.7 4.1	L 200 250 300 350 400 A 172.5 222.5 272.5 322.5 372.5 RCP6 6.9 56.9 106.9 156.9 206.9 RCP6S 28 3.2 3.6 4.0 4.4 w/brake 2.9 3.3 3.7 4.1 4.5 RCP6S w/o brake 2.9 3.3 3.7 4.1 4.5

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

he RCP6 series actuators car	n be operated by	the controlle	ers indicated below	. Please select th	he type dependi	ing on your inte	nded use. * Please	refer to P.147 for mo	re information about the buil	t-in controller of RCP6S series	
Name	External	Max. number of			Control method		Maximum number	Reference page			
	view	controlled axes	liiput powei	Positioner	Pulse train	Program	Networ	k *Option	of positioning points	hererence page	
PCON-CB/CGB		1	- DC24V	● *Option	● *Option	-	DeviceNet	Ether Net / IP	512 (768 for network spec.)	Please see P.131	
MCON-C/CG	1111	4	- DC24V		This model is network-compatible only.		CompoNet Note: - The type of compatible networks		256	Please see the MCO catalog.	
MSEL-PC/PG		4	Single-phase 100~230VAC	-	-	•	will vary depen	nding on the reference page for	30,000	Please see the MSEL PC/PG catalog.	

47.5 (Motor side-mounted to the left) 16.5 (Motor side-mounted to the right)