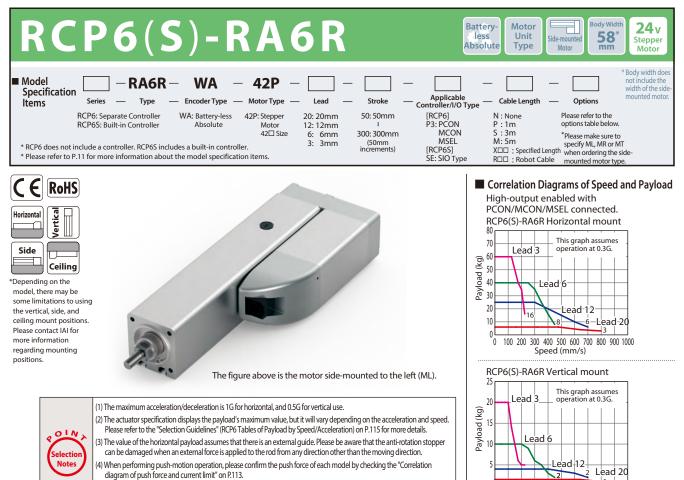
RCP6 ROBO Cylinder®



(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.

Actuator Specifications											
Lead and Payload								Stroke and Max. Speed			
Model Number	Lead (mm)	Connected Max. Payload Stroke Controller Horizontal (kg) Vertical (kg) (mm)				Lead (mm)	Connected Controller	50~300 (Every 50mm)			
RCP6(S)-RA6R-WA-42P-20-10-12-3-4	20	High-output Enabled	6	1.5			20	High-output Enabled	800		
RCP6(S)-RA6R-WA-42P-12-10-12-13-4	12	High-output Enabled	25	4	50~300 (The increment		12	High-output Enabled	700		
RCP6(S)-RA6R-WA-42P-6-①-②-③-④	6	High-output Enabled	40	10	of stroke is 50mm)		6	High-output Enabled	450		
RCP6(S)-RA6R-WA-42P-3-①-②-③-④	3	High-output Enabled	60	20			3	High-output Enabled	225		
egend: O Stroke @Annlicable.controller///0 type @ Cable length @ Ontions											

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

① Stroke

© 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
	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

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0

100 200 300 400 500 600 700 800 900 1000

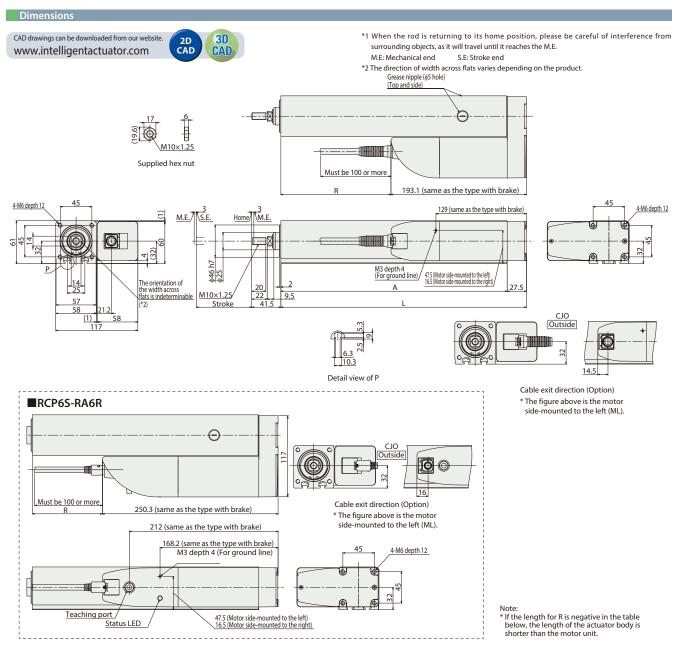
Speed (mm/s)

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

Actuator Specifications

ltem	Description
Drive system	Ball screw ø10mm, 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 torgue is applied at the rod tip.



Dimensions and Mass by Stroke

	Stroke			100	150	200	250	300
L			200	250	300	350	400	450
	А		172.5	222.5	272.5	322.5	372.5	422.5
R	RC	RCP6		56.9	106.9	156.9	206.9	256.9
n	RC	P6S	-50.3	-0.3	49.7	99.7	149.7	199.7
	RCP6	w/o brake	2.8	3.2	3.6	4.0	4.4	4.8
Mass	RCP6	w/ brake	2.9	3.3	3.7	4.1	4.5	4.9
(kg)	RCP6S	w/o brake	2.9	3.3	3.7	4.1	4.5	4.9
-	ner03	w/ brake	3.0	3.4	3.8	4.2	4.6	5.0

he RCP6 series actuators of	can be operated by	the controlle	rs indicated below	I. Please select t	he type depend	ing on your inte	nded use. * Please re	efer to P.147 for mo	re information about the buil	t-in controller of RCP6S series
		Max. number of controlled axes	Input nowor				Maximum number of positioning points	Reference page		
PCON-CB/CGB	I	1		● *Option	• *Option	-	DeviceNet CC-Link	MECHATROLINK	512 (768 for network spec.)	Please see P.131
MCON-C/CG		4	DC24V	network-compatible only.		CompoNet		256	Please see the MCO catalog.	
MSEL-PC/PG		4	Single-phase 100~230VAC	-	-	•	 The type of compatible networks will vary depending on the controller. Please refer to reference page for more information. 		30,000	Please see the MSEL PC/PG catalog.

* Please select "high-output specification" as an option for the MCON. With the MCON, operation is possible only when the high-output specification is selected

