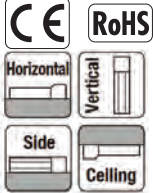


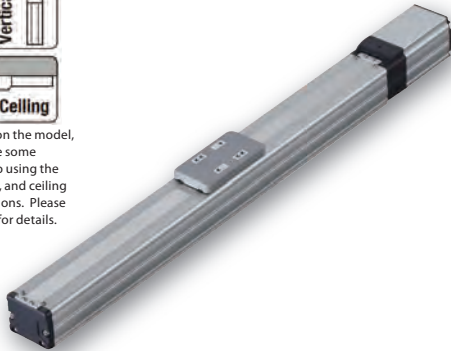
RCP5-SA6C ROBO Cylinder, Slider Type, Motor Unit Coupled, Actuator Width 58mm, 24V Pulse Motor

Model	RCP5	SA6C	WA	42P					
Specification	Series	Type	Encoder type	Motor type	Lead	Stroke	Applicable controllers	Cable length	Options
Items			WA: Battery-less absolute specification	42P: Pulse motor, size 42□	20: 20mm 12: 12mm 6: 6mm 3: 3mm	50: 50mm 800: 800mm (Every 50mm)	P3: PCON/MSEL P5: RCON/RSEL	N: No cable P: 1m S: 3m M: 5m X□: Specified length R□: Robot cable	Please refer to the options table below.

*Controller is not included.



* Depending on the model, there may be some limitations to using the vertical, side, and ceiling mount positions. Please refer to P.59 for details.

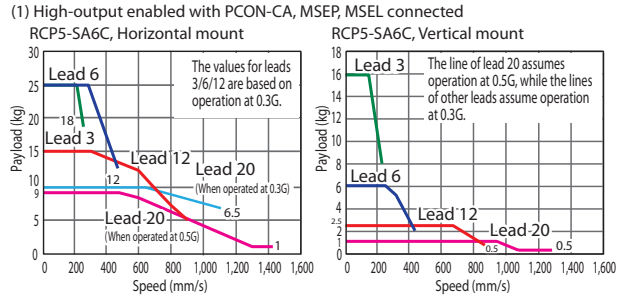


POINT
Note on selection

(1) The actuator specification displays the payload's maximum value, but it will vary depending on the acceleration. Please refer to the "Selection Guidelines" (RCP5 Payload by Speed/Acceleration Table) on P. 61.

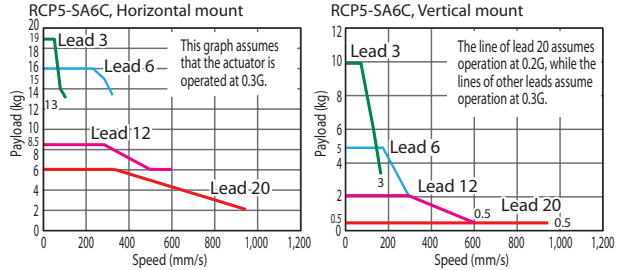
(2) Please refer to P. 59 for push-motion operation.

Correlation Diagrams of Speed and Payload



* PCON-CA is a previous model. Current model is PCON-CB.

(2) High-output disabled with PCON-CA, MSEP connected



Actuator Specifications

Lead and Payload

Model number	Lead (mm)	Connected controller	Maximum payload		Stroke (mm)
			Horizontal (kg)	Vertical (kg)	
RCP5-SA6C-WA-42P-20-①-P3-②-③	20	High-output enabled	10	1	50~800 (Every 50mm)
			High-output disabled	6	
RCP5-SA6C-WA-42P-12-①-P3-②-③	12	High-output enabled	15	2.5	
			High-output disabled	8.5	
RCP5-SA6C-WA-42P-6-①-P3-②-③	6	High-output enabled	25	6	
			High-output disabled	16	
RCP5-SA6C-WA-42P-3-①-P3-②-③	3	High-output enabled	25	16	
			High-output disabled	19	

Legend: ① Stroke ② Cable length ③ Options *Please refer to P.59 for push-motion operation.

Stroke and Maximum Speed

Values in brackets < > are for vertical use. (Unit: mm/s)

Lead (mm)	Connected controller	Maximum speed								
		50~400 (Every 50mm)	450 (mm)	500 (mm)	550 (mm)	600 (mm)	650 (mm)	700 (mm)	750 (mm)	800 (mm)
20	High-output enabled	1,440	1,335	1,130	970	840	735	650	575	
	High-output disabled	<1,280>	<1,280>			840	735	650	575	
12	High-output enabled	900	885	735	620	535	460	405	315	
	High-output disabled		600		535	460	405	355	315	
6	High-output enabled	450	435	365	305	265	230	200	175	155
	High-output disabled		300		265	230	200	175	155	
3	High-output enabled	225	215	180	150	130	115	100	85	75
	High-output disabled		150		130	115	100	85	75	

① Stroke

Stroke (mm)	Standard price	Stroke (mm)	Standard price
50	-	450	-
100	-	500	-
150	-	550	-
200	-	600	-
250	-	650	-
300	-	700	-
350	-	750	-
400	-	800	-

② Cable Length

Type	Cable code	Standard price
Standard type	P (1m)	-
	S (3m)	-
	M (5m)	-
Special length	X06 (6m) ~X10 (10m)	-
	X11 (11m)~X15 (15m)	-
	X16 (16m)~X20 (20m)	-
		-
Robot cable	R01 (1m) ~R03 (3m)	-
	R04 (4m) ~R05 (5m)	-
	R06 (6m) ~R10 (10m)	-
	R11 (11m)~R15 (15m)	-
	R16 (16m)~R20 (20m)	-
		-

*Please refer to P.89 for maintenance cables.

③ Options

Name	Option code	Reference page	Standard price
Brake	B	→P. 11	-
Cable exit direction (Top)	CJT	→P. 11	-
Cable exit direction (Right)	CJR	→P. 11	-
Cable exit direction (Left)	CJL	→P. 11	-
Cable exit direction (Bottom)	CJB	→P. 11	-
Slider roller specification	SR	→P. 11	-
Non-motor end specification	NM	→P. 11	-

* Please contact IAI for current available options.

Actuator Specifications

Item	Description
Drive system	Ball screw Ø10mm, rolled C10
Positioning repeatability (*1)	±0.02mm [±0.03mm]
Lost motion	0.1mm or less
Base	Material: Aluminum with white alumite treatment
Dynamic allowable moment (*2)	Ma: 11.6N·m, Mb: 16.6N·m, Mc: 24.6N·m
Static allowable moment	Ma: 38.3N·m, Mb: 54.7N·m, Mc: 81N·m
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

*Reference for overhang load length/Ma: 150mm or less, Mb, Mc: 150mm or less

(*1) The values in brackets [] are for Lead 20.
 (*2) Assumes a standard rated life of 5,000km.
 (*) The operational life will vary depending on operation and installation conditions. Please refer to the general catalog for details on operational life, allowable moment direction, and overhang load length.

Dimensions

CAD drawings can be downloaded from our website. www.intelligentactuator.com

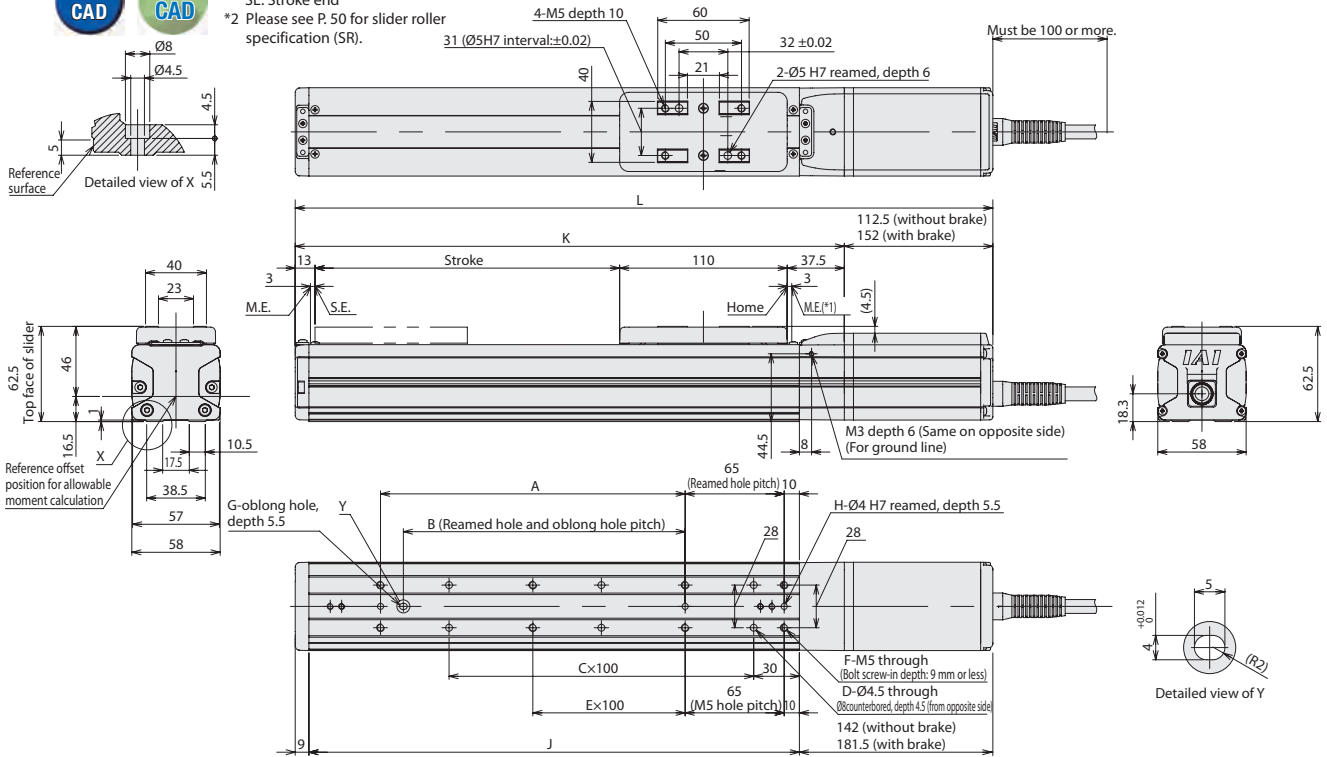


*1 When the slider is returning to its home position, please be careful of interference from surrounding objects, as it will travel until it reaches the ME.

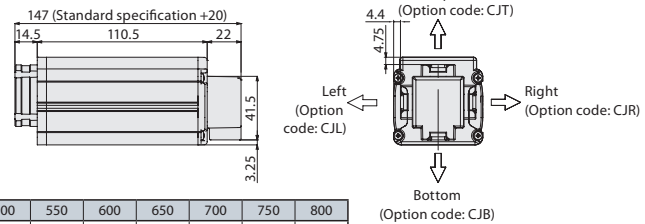
ME: Mechanical end

SE: Stroke end

*2 Please see P. 50 for slider roller specification (SR).



■ Cable Exit Direction (Option)



■ Dimensions and Mass by Stroke

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	
L	Without brake	323	373	423	473	523	573	623	673	723	773	823	873	923	973	1,023	1,073
	With brake	362.5	412.5	462.5	512.5	562.5	612.5	662.5	712.5	762.5	812.5	862.5	912.5	962.5	1,012.5	1,062.5	1,112.5
A	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800	
B	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785	
C	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	
D	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	
E	0	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	
F	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	
G	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
H	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
J	172	222	272	322	372	422	472	522	572	622	672	722	772	822	872	922	
K	210.5	260.5	310.5	360.5	410.5	460.5	510.5	560.5	610.5	660.5	710.5	760.5	810.5	860.5	910.5	960.5	
Mass (kg)	Without brake	1.7	1.8	2.0	2.2	2.4	2.5	2.7	2.9	3.1	3.2	3.4	3.6	3.8	3.9	4.1	4.3
	With brake	1.9	2.0	2.2	2.4	2.6	2.7	2.9	3.1	3.3	3.4	3.6	3.8	4.0	4.1	4.3	4.5

Applicable Controllers

* Controller for RCP6 series is PCON, MSEL, RCON or RSEL.
Please refer our Controller General Catalog and/or contact IAI.