



\*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.



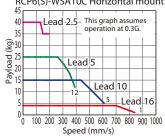
(1) The maximum acceleration/deceleration is 1G for horizontal, and 0.5G for vertical use.

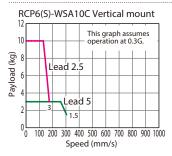


- (2) The actuator specification displays the payload's maximum value, but it will vary depending on the acceleration and speed. Please refer to the "Selection Guidelines" (RCP6 Tables of Payload by Speed/Acceleration) on P.115 for more details.
- (3) When performing push-motion operation, please confirm the push force of each model by checking the "Correlation diagram of push force and current limit" on P.113.

## ■ Correlation Diagrams of Speed and Payload

High-output enabled with PCON/MCON/MSEL connected. RCP6(S)-WSA10C Horizontal mount





### Actuator Specifications

## Lead and Payload

Model Number	Lead (mm)	Connected Controller			Stroke (mm)
RCP6(S)-WSA10C-WA-35P-16-①-②-③-④	16	High-output Enabled	4	-	
RCP6(S)-WSA10C-WA-35P-10-①-②-③-④	10	High-output Enabled	15	-	50~500 (The increment
RCP6(S)-WSA10C-WA-35P-5-①-②-③-④	5	High-output Enabled	28	3	of stroke is 50mm)
RCP6(S)-WSA10C-WA-35P-2.5-①②③④	2.5	High-output Enabled	40	10	

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

■ Stroke and Max. Speed (Unit: mm/s)									
Lead (mm)	Connected Controller		350 (mm)	450 (mm)	500 (mm)				
16	High-output Enabled		840	775	660				
10	High-output Enabled	610	)	590	490	415			
5	High-output Enabled	390 <350>	355 <350>	290	245	205			
2.5	High-output Enabled	195 <175>	175	145	120	100			

Values in brackets < > are for vertical use.

U Stroke					
Stroke (mm)	RCP6	RCP6S	Stroke (mm)	RCP6	RCP6S
50	0	0	300	0	0
100	0	0	350	0	0
150	0	0	400	0	0
200	0	0	450	0	0
250	0	0	500	0	0

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 (Bottom)	CJB	See P.105
High-precision specification *	HPR	See P.108
Non-motor end specification	NM	See P.110

- \* Positioning repeatability is ±5µm for high-precision specification (HPR). High-precision specification option cannot be selected for lead 16.
- # When selecting multiple options, please list them in alphabetical order. (e.g. B-CJB-NM)

③ Cable Length								
Cable Type	Cable Code	RCP6	RCP6S					
	<b>P</b> (1m)	0	0					
Standard	<b>S</b> (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 (*1)	±0.01mm [±0.005mm]								
Lost motion	0.1mm or less								
Base	Material: Aluminum with white alumite treatment								
Static allowable moment	Ma: 271N•m, Mb: 271N•m, Mc: 553N•m								
Dynamic allowable moment (*2)	Ma: 65.4N•m, Mb: 65.4N•m, Mc: 134N•m								
Ambient operating temp. & humidity	0~40°C, 85% RH or less (Non-condensing)								

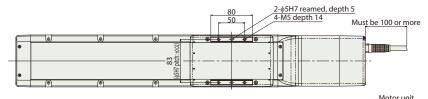
- \* Reference for overhang load length: Ma: 500mm or less, Mb, Mc: 500mm or less
- (\*1) Values in [ ] are for high-precision (for lead 2.5/5/10) specification.
- (\*2) Assumes a standard rated life of 5,000km. The service life will vary depending on operation and installation conditions.

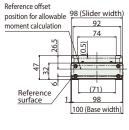
Please refer to our website for more information regarding the directions of the allowable moment and overhang load length.

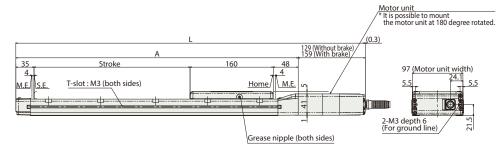
# Dimensions CAD drawings can be downloaded from our website www.intelligentactuator.com

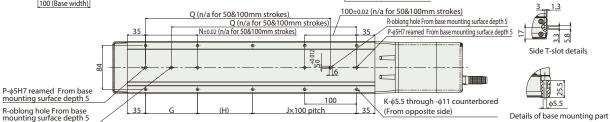


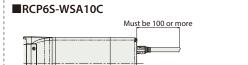
\*1 When the slider is returning to its home position, please be careful of interference from surrounding objects, as it will travel until it reaches the M.E. M.E: Mechanical end S.E: Stroke end

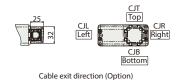


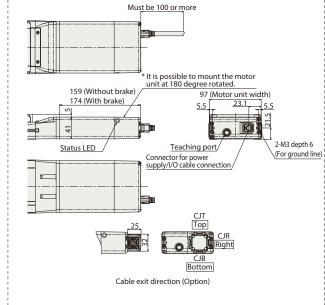












### ■ Dimensions and Mass by Stroke

		1310113			,								
Stroke			50	100	150	200	250	300	350	400	450	500	
RCP6		w/o brake	422	472	522	572	622	672	722	772	822	872	
	KCPO	w/brake	452	502	552	602	652	702	752	802	852	902	
L	RCP6S	w/o brake	452	502	552	602	652	702	752	802	852	902	
	RCP03	w/brake	467	517	567	617	667	717	767	817	867	917	
	Α		293	343	393	443	493	543	593	3 643 693 743			
	G		-	-	100	100	100	100	100	100	100	100	
Н		156	206	56	106	56	106	56	106	56	106		
	J		0	0	1	1	2	2	3	3	4	4	
	K		4	4	8	8	10	10	12	12	14	14	
	N		-	-	100	100	100	100	100	100	100	100	
	Р		1	1	2	2	2	2	2	2	2	2	
	Q		-	-	206	256	306	356	406	456	506	556	
	R		0	0	1	1	1	1	1	1	1	1	
	RCP6	w/o brake	2.9	3.1	3.4	3.6	3.8	4.1	4.3	4.6	4.8	5.0	
Mass	nCP6	w/brake	3.1	3.3	3.6	3.8	4.0	4.3	4.5	4.8	5.0	5.2	
(kg) RCP6S	w/o brake	3.0	3.2	3.5	3.7	3.9	4.2	4.4	4.7	4.9	5.1		
	nCP03	w/brake	3.1	3.4	3.6	3.9	4.1	4.3	4.6	4.8	5.1	5.3	

② Applicable Co	② Applicable Controllers									
The RCP6 series actuators can	ne 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				Control me			Maximum number	Reference page
ranic	view	controlled axes	input power	Positioner	Pulse train	Program	Networ	k *Option	of positioning points	nererence page
PCON-CB/CGB		1	DC24V	● *Option	● *Option	-	CC-Link	Ether CAT.	512 (768 for network spec.)	Please see P.131
MCON-C/CG		4	DC24V		This model i rk-compatib	_	CompoNet  Note:  • The type of compatible networks		256	Please see the MCON catalog.
MSEL-PC/PG		4	Single-phase 100~230VAC	_	-	•	will vary depen	iding on the reference page for	30,000	Please see the MSEL- PC/PG catalog.