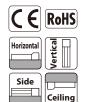
Body Width 6(S)-WSA1 Simple Battery-Motor **24**_v Dust-proof 120 mm Coupled Motor Steppe Absolute Type ■ Model WSA12C WA **42P** Specification Applicable ntroller/I/O Type Туре Encoder Type — Stroke Options Cable Length Items [RCP6] P3: PCON N : None P : 1m Please refer to the options table below RCP6: Separate Controller WA: Battery-less 42P: Stepper 20: 20mm 50: 50mm RCP6S: Built-in Controller Absolute 12: 12mm MCON MSEL [RCP6S] SE: SIO Type S : 3m M: 5m 42□ Size 6: 6mm 800: 800mm 3: 3mm (50mm increments) * RCP6 does not include a controller, RCP6S includes a built-in controller. $X\square\square$: Specified Length $R\square\square$: Robot Cable * Please refer to P.10 for more information about the model specification items.



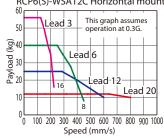
Depending on the model, there may be some limitations to using the vertical, side, and ceiling mount positions, Please contact IAI for more information regarding mounting positions.

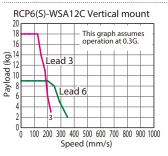


- (1) The maximum acceleration/deceleration is 1G for horizontal, and 0.5G for vertical use.
- (2) The actuator specification displays the payload's maximum value, but it will vary depending on the acceleration and speed. Please refer to the "Selection Guidelines" (RCP6 Tables of Payload by Speed/Acceleration) 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.
- (4) 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)-WSA12C Horizontal mount





Actuator Specifications ■ Lead and Payload Lead Connected Max. Payload **Model Number** Controller High-output Enabled 12 High-output RCP6(S)-WSA12C-WA-42P-12-10-12-13-149 25 50~800 Enabled The incremof stroke i High-output RCP6(S)-WSA12C-WA-42P-6-10-12-13-149 40 9 Fnabled High-output RCP6(S)-WSA12C-WA-42P-3-①-②-③-④ 18

Enabled

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

③ Cable Length Cable Type

P (1m)

① Stroke	① Stroke												
Stroke (mm)	RCP6	RCP6S	Stroke (mm)	RCP6	RCP6S								
50	0	0	450	0	0								
100	0	0	500	0	0								
150	0	0	550	0	0								
200	0	0	600	0	0								
250	0	0	650	0	0								
300	0	0	700	0	0								
350	0	0	750	0	0								
400	0	0	800	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 (Left)	CJL	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 $\pm 5 \mu m$ for high-precision specification (HPR). High-precision specification option cannot be selected for lead 20.
- # When selecting multiple options, please list them in alphabetical order. (e.g. B-CJB-NM)

	■ Stroke and Max. Speed (Unit: mm/s)												
ē		Lead (mm)	Connected Controller		500 (mm)	550 (mm)	600 (mm)	650 (mm)	700 (mm)	750 (mm)	800 (mm)		
O nent is		20	High-output Enabled			800	740	650	580	520			
		12	High-output Enabled		600			535	465	405	355	315	285
		6	High-output Enabled	450 <400>	435 <400>	365	310	265	230	200	175	155	140
		3	High-output Enabled	225	215	180	150	130	115	100	85	75	70
	Values in brackets < > are for vertical use.												

RCP6

Standard	S (3m)	0	O
	M (5m)	0	0
	X06 (6m) ~X10 (10m)	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

Cable Code

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

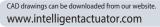
R11 (11m) ~R15 (15m) R16 (16m) ~R20 (20m)

Actuator Specifications									
Item	Description								
Drive system	Ball screw \(\phi 10mm, rolled C10 \)								
Positioning repeatability (*1)	±0.01mm [±0.005mm]								
Lost motion	0.1mm or less								
Base	Material: Aluminum with white alumite treatment								
Static allowable moment	Ma: 311N·m, Mb: 311N·m, Mc: 827N·m								
Dynamic allowable moment (*2)	Ma: 87.5N•m, Mb: 87.5N•m, Mc: 233N•m								
Ambient operating temp. & humidity	0~40°C, 85% RH or less (Non-condensing)								

- * Reference for overhang load length: Ma: 450mm or less, Mb, Mc: 450mm or less (*1) Values in [] are for high-precision (for lead 3/6/12) 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.

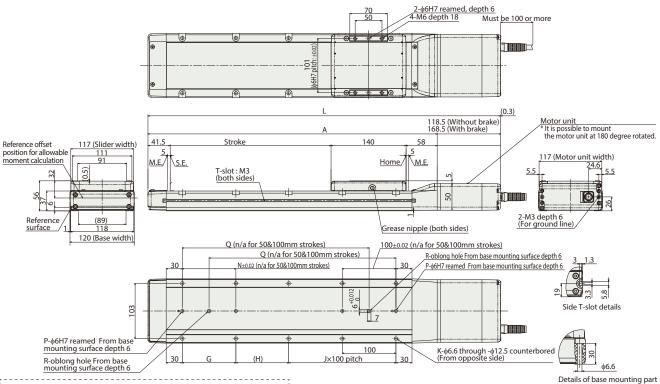
Dimensions

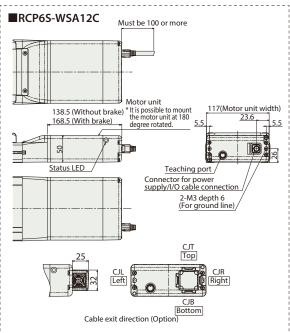


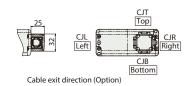


*1 When the slider is returning to its home position, please be careful of interference from surrounding objects, as it will travel until it reaches the M.E.

M.E: Mechanical end S.E: Stroke end







■ Dimensions and Mass by Stroke

RCP6	_	- Difficusions and Mass by Stroke																	
RCP6	Stroke			50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
RCP65 Widshale 428 508 558 608 658 708 728 778 828 878 908 958 1,008 1,058 1,108 1,158 1,208		DCD6	w/o brake	408	458	508	558	608	658	708	758	808	858	908	958	1,008	1,058	1,108	1,158
RCP65 w/brake 458 508 558 608 658 708 758 808 858 908 958 1,008 1,058 1,108 1,158 1,208		KCPO	w/brake	458	508	558	608	658	708	758	808	858	908	958	1,008	1,058	1,108	1,158	1,208
Name 48 508 588 608 588 708 788 808 858 908 988 988 988 988 988 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788 788	L	DCDCC	w/o brake	428	478	528	578	628	678	728	778	828	878	928	978	1,028	1,078	1,128	1,178
H 1485 1985 485 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5		KCP03	w/brake	458	508	558	608	658	708	758	808	858	908	958	1,008	1,058	1,108	1,158	1,208
H 1485 1985 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 98.5 48.5 48.5 48.5 48.5 48.5 48.5 48.5 4		Α		289.5	339.5	389.5	439.5	489.5	539.5	589.5	639.5	689.5	739.5	789.5	839.5	889.5	939.5	989.5	1,039.5
N		G		-	-	100	100	100	100	100	100	100	100	100	100	100	100	100	100
N		Н		148.5	198.5	48.5	98.5	48.5	98.5	48.5	98.5	48.5	98.5	48.5	98.5	48.5	98.5	48.5	98.5
N 100 100 100 100 100 100 100 100 1		J		0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
P 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		K		4	4	8	8	10	10	12	12	14	14	16	16	18	18	20	20
Q		N	N		-	100	100	100	100	100	100	100	100	100	100	100	100	100	100
RCP6 Wibtake 3.8 4.1 4.4 4.8 5.1 5.4 5.8 6.1 6.4 6.8 7.1 7.4 7.8 8.1 8.4 8.8 8.8 Wibtake 4.0 4.4 4.7 5.0 5.4 5.7 6.0 6.4 6.7 7.1 7.4 7.7 8.1 8.4 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8.8 8		Р	Р		1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Name		Q		-	-	198.5	248.5	298.5	348.5	398.5	448.5	498.5	548.5	598.5	648.5	698.5	748.5	798.5	848.5
Mass KUP6 w/brake 4.0 4.4 4.7 5.0 5.4 5.7 6.0 6.4 6.7 7.1 7.4 7.7 8.1 8.4 8.7 9.1 (kg) RCPGS w/lobrake 3.8 4.2 4.5 4.8 5.2 5.5 5.8 6.2 6.5 6.8 7.2 7.5 7.8 8.2 8.5 8.8		R		0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mass Worke 4.0 4.4 4.7 5.0 5.4 5.7 6.0 6.4 6.7 7.1 7.4 7.7 8.1 8.4 8.7 9.1 (kg) RCP6C Wobrake 3.8 4.2 4.5 4.8 5.2 5.5 5.8 6.2 6.5 6.8 7.2 7.5 7.8 8.2 8.5 8.8		DCD6	w/o brake	3.8	4.1	4.4	4.8	5.1	5.4	5.8	6.1	6.4	6.8	7.1	7.4	7.8	8.1	8.4	8.8
1 37 BI PAS	Mass	KCPO	w/brake	4.0	4.4	4.7	5.0	5.4	5.7	6.0	6.4	6.7	7.1	7.4	7.7	8.1	8.4	8.7	9.1
	(kg)	DCD4C	w/o brake	3.8	4.2	4.5	4.8	5.2	5.5	5.8	6.2	6.5	6.8	7.2	7.5	7.8	8.2	8.5	8.8
W/brake 4.1 4.4 4.7 5.1 5.4 5.7 6.1 6.4 6.7 7.1 7.4 7.8 8.1 8.4 8.8 9.1		nCros	w/brake	4.1	4.4	4.7	5.1	5.4	5.7	6.1	6.4	6.7	7.1	7.4	7.8	8.1	8.4	8.8	9.1

② Applicable Controllers	
The RCP6 series actuators can be operated by the controllers indicated below P	lease select the type depending on your intended use * Please refer to P 147 for more information about the built-in controller of RCP6S

П	Name		Max. number of				Control me	thod	Maximum number	Reference page
		view	controlled axes	liiput powei	Positioner	Pulse train	Program	Network *Option	of positioning points	hererence page
	PCON-CB/CGB		1	DC24V	● *Option	● *Option	-	DeviceNet CC-Link Ether(ATT) Ether(Net/IP)	512 (768 for network spec.)	Please see P.131
	MCON-C/CG		4	DC24V		his model i k-compatib		CompoNet Note: • The type of compatible networks	256	Please see the MCON catalog.
	MSEL-PC/PG			Single-phase 100~230VAC	-	-	•	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.

series.