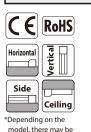
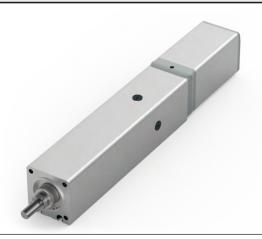
Battery-Body Width Motor **24**_v 70 mm Coupled Motor Steppe Motor Absolute Type ■ Model WA **56P** RA7C Specification Applicable Controller/I/O Type Encoder Type — Motor Type Stroke Cable Length Options Items [RCP6] P3: PCON N : None P : 1m Please refer to the options table below RCP6: Separate Controller WA: Battery-less 56P: Stepper 24: 24mm 50: 50mm RCP6S: Built-in Controller Absolute Motor 16: 16mm 8: 8mm 300: 300mm (50mm increments) MCON MSEL [RCP6S] SE: SIO Type S : 3m M: 5m 56□ Size 4: 4mm * RCP6 does not include a controller. RCP6S includes a built-in controller. $X\square\square$: Specified Length $R\square\square$: Robot Cable



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.

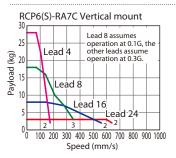


- (3) The value of the horizontal payload assumes that there is an external guide. Please be aware that the anti-rotation stopper can be damaged when an external force is applied to the rod from any direction other than the moving direction.
- (4) When performing push-motion operation, please confirm 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 4/8/16. Please refer to P.130 for more information.

■ Correlation Diagrams of Speed and Payload

High-output enabled with PCON/MCON/MSEL connected. RCP6(S)-RA7C Horizontal mount





Actuator Specifications

Lead and Payload

Model Number	Lead (mm)	Connected Controller		ayload Vertical (kg)	Stroke
	(mm)	Controller	HUHZUHTAI (Kg)	vertical (kg)	(mm)
RCP6(S)-RA7C-WA-56P-24-①-②-③-④	24	High-output Enabled	20	3	
RCP6(S)-RA7C-WA-56P-16-①-②-③-④	16	High-output Enabled	50	8	50~300 (The increment
RCP6(S)-RA7C-WA-56P-8-①-②-③-④	8	High-output Enabled	60	18	of stroke is 50mm)
RCP6(S)-RA7C-WA-56P-4-①-②-③-④	4	High-output Enabled	80	28	

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)	
	24	High-output Enabled	860 <640>	
) ent	16	High-output Enabled	700 <560>	
5	8	High-output Enabled	420 <350>	
	4	High-output Enabled	210 <175>	

 $\label{eq:Values} \mbox{Values in brackets} < \mbox{$>$$ are for vertical use.}$

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 (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
Flange	FL	See P.106
Foot bracket	FT	See P.107
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)

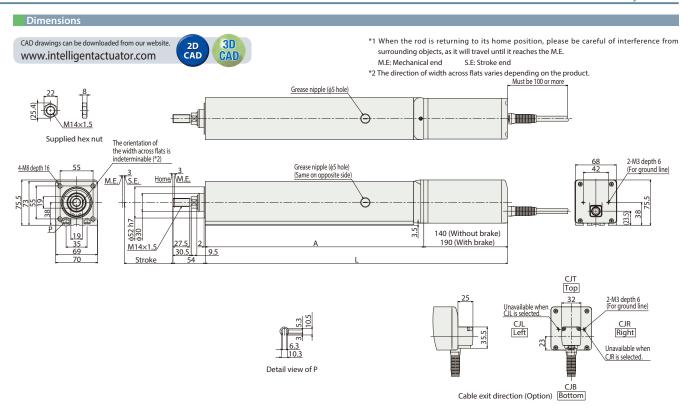
③ Cable Length						
Cable Type	Cable Code	RCP6	RCP6S			
	P (1m)	0	0			
Standard	S (3m)	0	0			
	M (5m)	0	0			
	X06 (6m) ~X10 (10m)	0	0			
Specified Length	X11 (11m) ~X15 (15m)	0	0			
	X16 (16m) ~X20 (20m)	0	0			
	R01 (1m) ~R03 (3m)	0	0			
	R04 (4m) ~R05 (5m)	0	0			
Robot Cable	R06 (6m) ~R10 (10m)	0	0			
	R11 (11m) ~R15 (15m)	0	0			
	R16 (16m) ~R20 (20m)	0	0			

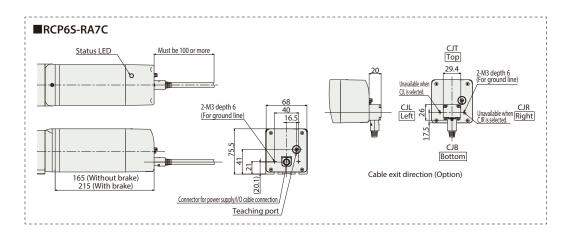
 * Please refer to P.144 for more information regarding the maintenance cables.

Actuator Specifications

ltem	Description
Drive system	Ball screw \phi12mm, rolled C10
Positioning repeatability	±0.01mm
Lost motion	0.1mm or less
Rod	\$30mm Material: Aluminum with hard alumite treatment
Static allowable torque on rod tip	2.5N•m
Max. angular displacement on rod tip (*1)	±0.8 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 and Mass by Stroke

					•			
	Stroke			100	150	200	250	300
I INCFO	w/o brake	354.5	404.5	454.5	504.5	554.5	604.5	
	w/brake	404.5	454.5	504.5	554.5	604.5	654.5	
	w/o brake	379.5	429.5	479.5	529.5	579.5	629.5	
	KCP03	w/brake	429.5	479.5	529.5	579.5	629.5	679.5
	Α		214.5	264.5	314.5	364.5	414.5	464.5
	RCP6	w/o brake	4.5	5.1	5.6	6.2	6.7	7.3
Mass	KCPO	w/brake	4.9	5.5	6.0	6.6	7.2	7.7
(kg)	(kg) RCP6S	w/o brake	4.7	5.2	5.8	6.3	6.9	7.5
_	nCF03	w/brake	5.1	5.7	6.2	6.8	7.3	7.9

		May number of			71 1	Control m		refer to P.147 for mo	re information about the buil Maximum number	t-in controller of RCP05 Serie	
	view	controlled axes	Input power	Positioner	Pulse train	Program		k *Option	of positioning points	Reference page	
PCON-CB/CGB		1		• *Option	● *Option	-	DeviceNet		512 (768 for network spec.)	Please see P.131	
//CON-C/CG		4	DC24V	network-compatible only.		CompoNet Note: • The type of compatible networks		256	Please see the MCC catalog.		
MSEL-PC/PG		4	Single-phase 100~230VAC	_	-	•	will vary depen controller.	ding on the reference page for	30,000	Please see the MSE PC/PG catalog.	