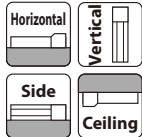


RCP6(S)-TA7R

Table Type Motor Unit Type Side-mounted Motor Body Width 70* mm 24v Stepper Motor

Model Specification Items	Series	Type	Encoder Type	Motor Type	Lead	Stroke	Applicable Controller / I/O Type	Cable Length	Options
	RCP6: Separate Controller RCP6S: Built-in Controller	TA7R	WA: Battery-less Absolute	56P: Stepper Motor 56□ Size	24: 24mm 16: 16mm 8: 8mm 4: 4mm	25: 25mm 390: 390mm	[RCP6] P3: PCON MCON MSEL [RCP6S] SE: SIO Type	N: None P: 1m S: 3m M: 5m X□□: Specified Length R□□: Robot Cable	Please refer to the options table below. *Please make sure to specify either ML or MR when ordering the side-mounted motor type.

* Body width does not include the width of the side-mounted motor.



* 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.

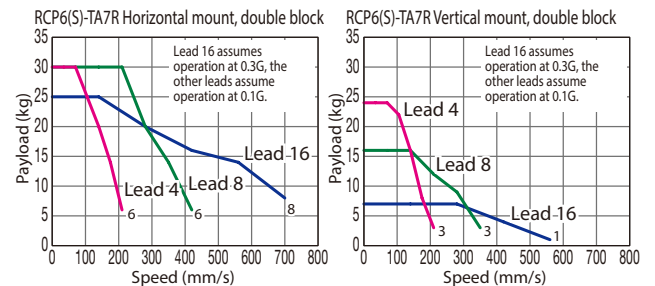
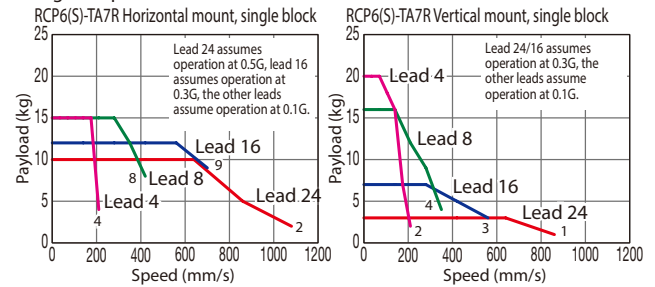


The figure above is the motor side-mounted to the left (ML).

- POINT Selection Notes**
- (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 4/8/16. Please refer to P.130 for more information.
 - (5) High-rigidity (double-block) specification can be selected as an option.

Correlation Diagrams of Speed and Payload

High-output enabled with PCON/MCON/MSEL connected.



Actuator Specifications

Lead and Payload

	Model Number	Lead (mm)	Connected Controller	Max. Payload		Stroke (mm)
				Horizontal (kg)	Vertical (kg)	
Single Block	RCP6(S)-TA7R-WA-56P-24-①-②-③-④	24	High-output Enabled	10	3	25~300
	RCP6(S)-TA7R-WA-56P-16-①-②-③-④	16	High-output Enabled	12	7	
	RCP6(S)-TA7R-WA-56P-8-①-②-③-④	8	High-output Enabled	15	16	
	RCP6(S)-TA7R-WA-56P-4-①-②-③-④	4	High-output Enabled	15	20	
Double Block	RCP6(S)-TA7R-WA-56P-16-①-②-③-④	16	High-output Enabled	25	7	40~390
	RCP6(S)-TA7R-WA-56P-8-①-②-③-④	8	High-output Enabled	30	16	
	RCP6(S)-TA7R-WA-56P-4-①-②-③-④	4	High-output Enabled	30	24	

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	Single Block 25~300	Double Block 40~290	340	390
24	High-output Enabled	1,080 <860>	-	-	-
16	High-output Enabled	700 <560>	700 <560>	600 <560>	-
8	High-output Enabled	420 <350>	420 <350>	365 <350>	300
4	High-output Enabled	210	210	180	150

Values in brackets < > are for vertical use.

① Stroke

Single Block			Double Block		
Stroke (mm)	RCP6	RCP6S	Stroke (mm)	RCP6	RCP6S
25	○	○	40	○	○
50	○	○	65	○	○
75	○	○	90	○	○
100	○	○	140	○	○
125	○	○	190	○	○
150	○	○	240	○	○
175	○	○	290	○	○
200	○	○	340	○	○
250	○	○	390	○	○
300	○	○			

③ Cable Length

Cable Type	Cable Code	RCP6	RCP6S
Standard	P (1m)	○	○
	S (3m)	○	○
	M (5m)	○	○
Specified 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. 144 for more information regarding the maintenance cables.

④ Options

Name	Option Code	Reference Page
Brake	B	See P.105
Cable exit direction (Outside)	CJO	See P.105
Motor side-mounted to the left	ML	See P.109
Motor side-mounted to the right	MR	See P.109
High-rigidity (Double-block guide)	DB	See P.105
Non-motor end specification	NM	See P.110

When selecting multiple options, please list them in alphabetical order. (e.g. B-CJB-NM)

Actuator Specifications

Item	Description
Drive system	Ball screw φ12mm, rolled C10
Positioning repeatability	±0.01mm
Lost motion	0.1mm or less
Base	Material: Aluminum with white alumite treatment
Static allowable moment	Single block: Ma: 115N·m, Mb: 115N·m, Mc: 229N·m Double block: Ma: 620N·m, Mb: 620N·m, Mc: 458N·m
Dynamic allowable moment (*)	Single block: Ma: 44.7N·m, Mb: 44.7N·m, Mc: 89.1N·m Double block: Ma: 196N·m, Mb: 196N·m, Mc: 145N·m
Ambient operating temp. & humidity	0~40°C, 85% RH or less (Non-condensing)

(*) 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.

Please refer to RCP6 instruction manual regarding the displacement of the table.

