## Body Width Motor **24**<sub>v</sub> Table Unit 40 Side-mo Steppe Type Type Moto Body width doe not include the width of the side ■ Model TA4R WA 35P Specification Applicable Controller/I/O Type Encoder Type — Options Cable Length Items Please refer to the options table below. \* Please make sure to [RCP6] P3: PCON N : None P : 1m RCP6: Separate Controller WA: Battery-less 35P: Stepper 16: 16mm 25: 25mm RCP6S: Built-in Controller Absolute Motor 10: 10mm 5: 5mm MCON MSEL [RCP6S] SE: SIO Type S : 3m M: 5m 35□ Size 240: 240mm specify either ML or MR when ordering the side-mounted motor type. 2.5: 2.5mm \* RCP6 does not include a controller, RCP6S includes a built-in controller. $X\square\square$ : Specified Length $R\square\square$ : Robot Cable

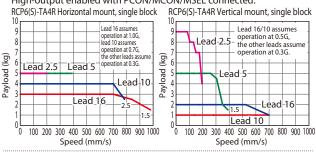


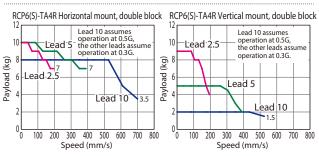
The figure above is the motor side-mounted to the left (ML).

- 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) 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.





Stroke and May Speed

## Actuator Specifications ■ Lead and Payload

### Max. Payload Stroke Connected Lead **Model Number** Controller (mm) RCP6(S)-TA4R-WA-35P-16-①-②-③-④ 16 High-output Enabled RCP6(S)-TA4R-WA-35P-10-①-②-③-④ RCP6(S)-TA4R-WA-35P-10-①-②-③-④ 3 25~150 10 High-output Enabled 4 2.5 The increment of stroke is 50mm) RCP6(S)-TA4R-WA-35P-5-①-②-③-④ 5 5 5 High-output Enabled RCP6(S)-TA4R-WA-35P-2.5-①-②-③-④ 5 2.5 High-output Enabled 10 2.5 10 High-output Enabled 8 RCP6(S)-TA4R-WA-35P-5-①-②-③-④ 5 5 High-output Enabled 10 40~240 RCP6(S)-TA4R-WA-35P-2.5-①-②-③-④ 2.5 High-output Enabled 10 10

	= 30	ioke allu	max. speeu	(Uni	it: mm/s)					
Ī	Lead	Connected	Single Block	Double	Block					
	(mm)	Controller	25~150	40~190	240					
	16	High-output Enabled	980 <700>	-						
	10	High-output Enabled	785 <700>	700 <525>	680 <525>					
	5	High-output Enabled	390	390	340					
	2.5	High-output Enabled	195	195	170					
	Values in brackets < > are for vertical use.									

## ① Stroke

	Single Block			Double Block			
Stroke (mm)	RCP6	RCP6S	Stroke (mm)	Stroke (mm) RCP6			
25	0	0	40	0	0		
50	0	0	65	0	0		
75	0	0	90	0	0		
100	0	0	140	0	0		
125	0	0	190	0	0		
150	0	0	240	0	0		

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

# ④ Options

Name	Option Code	Reference Page
Brake	В	See P.105
Cable exit direction (Outside)	C)O	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)

Cable Type	Cable Code	RCP6	RCP6S
,	<b>P</b> (1m)	0	0
Standard	<b>S</b> (3m)	0	0
	<b>M</b> (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 0 0 0 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		±0.01mm		
Lost motion		0.1mm or less		
Base		Material: Aluminum with white alumite treatment		
Static allowable moment	Single block	Ma: 13N·m, Mb: 18.6N·m, Mc: 25.3N·m		
Static allowable moment	Double block	Ma: 76.8N·m, Mb: 110N·m, Mc: 50.5N·m		
Dynamic allowable moment (*)	Single block	Ma: 4.98N•m, Mb: 7.11N•m, Mc: 9.68N•m		
Dynamic allowable moment (*)	Double block	Ma: 23.9N•m, Mb: 34.1N•m, Mc: 15.7N•m		
Ambient operating temp. & hu	midity	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.

# Dimensions CAD drawings can be downloaded from our website www.intelligentactuator.com Grease nipple position with the table fully extended Grease nipple for guide Ball screw cover (removable) Applying directly onto ball screw 4-M4 through (Bolt screw-in depth: 8 or less) (19.2)φ4 H7 depth 5



B×50 C-M4 through Grease nipple (for guide use) (for use with double block) φ4 H7 depth 4.5 (From mounting surface) (Bolt screw-in depth: 6 or less) Grease nipple (for guide use) (for use with single block) 4 H7 oblong hole depth 4.5 (From mounting surface) . 5

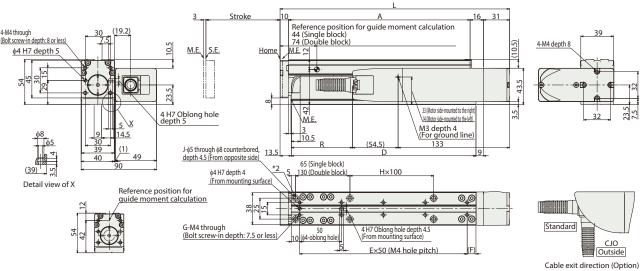
187.5 (with or without brake, common)

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

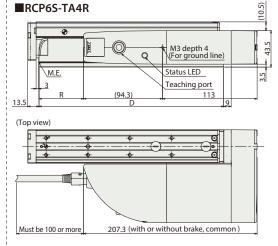
M.E: Mechanical end

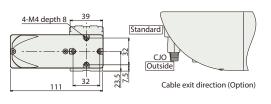
S.E: Stroke end

\*2 For the single block type with 25~75mm strokes, tools cannot be used on the  $\ensuremath{\varphi} 5$  front mounting holes on the top surface because the motor unit interferes. Please use the mounting screw holes on the bottom surface. (Same for the RCP6S)



Must be 100 or more





■ Dimensions and Mass by Stroke

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Stroke		Single Block						Double Block								
		25	50	75	100	125	150	40	65	90	140	190	240			
L			149	174	199	224	249	274	224	249	274	324	374	424		
A			92	117	142	167	192	217	167	192	217	267	317	367		
В			1	1	2	2	3	3	2	3	3	4	5	6		
С		4	4	6	6	8	8	6	8	8	10	12	14			
D		95.5	120.5	145.5	170.5	195.5	220.5	170.5	195.5	220.5	270.5	320.5	370.5			
E		1	2	2	3	3	4	3	3	4	5	6	7			
F			35.5	10.5	35.5	10.5	35.5	10.5	10.5	35.5	10.5	10.5	10.5	10.5		
G			4	6	6	8	8	10	8	8	10	12	14	16		
Н			0	0	0	0	1	1	0	0	0	1	1	2		
J			4	4	4	4	6	6	4	4	4	6	6	8		
R*	F	RCP6	-52	-27	-2	23	48	73	23	48	73	123	173	223		
IN	R	CP6S	-71.8	-46.8	-21.8	3.2	28.2	53.2	3.2	28.2	53.2	103.2	153.2	203.2		
	RCP6	w/o brake	1.3	1.4	1.5	1.6	1.7	1.8	1.7	1.8	1.9	2.1	2.2	2.4		
Mass	KCP6	w/ brake	1.4	1.5	1.6	1.7	1.8	1.8	1.8	1.9	1.9	2.1	2.3	2.5		
(kg)	RCP6S	w/o brake	1.5	1.6	1.6	1.7	1.8	1.9	1.8	1.9	2.0	2.2	2.4	2.5		
	NCP03	w/ brake	1.5	1.6	1.7	1.8	1.9	2.0	1.9	2.0	2.1	2.2	2.4	2.6		
		W/ DIAKE	1.5	1.0	1./	1.0	1.9	2.0	1.9	2.0	۷,۱	2.2	2.4			

	' '	Max. number of		. I lease select ti	ne type depend	Control me		.iei to 1 .147 ioi iiie	re information about the buil   Maximum number	t in controller of fict of series	
							of positioning points	Reference page			
PCON-CB/CGB	Í	1	DCMV	• *Option	● *Option	-	CC-Link	Ether CAT.	512 (768 for network spec.)	Please see P.131	
MCON-C/CG	1111	4	DC24V		This model i	-	CompoNet  Note:  The type of compatible networks		256	Please see the MCON catalog.	
MSEL-PC/PG		4	Single-phase 100~230VAC	_	-	•	will vary depend controller. Please refer to re more informatio	ling on the eference page for	30,000	Please see the MSE PC/PG catalog.	

 $\ensuremath{^{*}}$  If the length for R is negative in the table below, the length of

the actuator body is shorter than the motor unit.