

100 200 300 400 500 600 700 0

Speed (mm/s)

0

Actuator Specifications

allowable load mass.

Lead and Payload						
Model number	Lead (mm)	Connected controller	Maximun Horizontal (kg)	n payload Vertical (kg)	Maximum push force (N)	Stroke (mm)
	20	High-output enabled	6 1.5		56	
RCP5-RA6R-WA-42P-20-①-P3-②-③	20	High-output disabled		00		
RCP5-RA6R-WA-42P-12-①-P3-②-③	12	High-output enabled	25 4	93		
	12	High-output disabled	25	25 4	93	65~415
RCP5-RA6R-WA-42P-6-①-P3-②-③	6	High-output enabled	40	10	185	(Every 50mm)
RCP5-RA6R-WA-42P-6-1-P3-12-13	0	High-output disabled	40	10 185		
RCP5-RA6R-WA-42P-3-①-P3-②-③	3	High-output enabled	60	20	370	
RCP3-RAOR-WA-42P-3-1-P3-12-13		High-output disabled	40		570	

Stroke and Maximum Speed (Unit: mm			
Lead (mm)	Connected controller		
High-output enabled 800		D	
20 High-output disabled 640		D	
12	High-output enabled 700		D
12 High-output disabled		500	
High-output enable		450	
0	High-output disabled	250	
3	High-output enabled	225	220
3	High-output disabled	125	

100

200

300 400 Speed (mm/s) 500 600 700

Legend: ① Stroke ② Cable length ③ Options *Please refer to P. 59 for push-motion operation.

① Stroke			
Stroke (mm)	Standard price	Stroke (mm)	Standard price
65	-	265	-
115	-	315	-
165	-	365	-
215	-	415	-

③ Options			
Name	Option code	Reference page	Standard price
Brake	В	→P.11	-
Cable exit direction (Top)	CJT	→P.11	-
Cable exit direction (Outside)	OLO	→P.11	-
Cable exit direction (Bottom)	CJB	→P.11	-
Flange	FL	→P. 12	-
Tip adapter (Flange)	FFA	→P. 12	-
Tip adapter (Internal thread)	NFA	→P. 13	-
Tip adapter (Keyway)	KFA	→P. 13	-
Motor side-mounted to the left (Standard)	ML	→P. 11	-
Motor side-mounted to the right	MR	→P. 11	-
Non-motor end specification	NM	→P. 11	-
Depending on the stroke, some rod attachment options are not available. Also, when selecting the			

shorter strokes, please be careful of nearby objects. Some interference may occur. Please refer to P. 14.

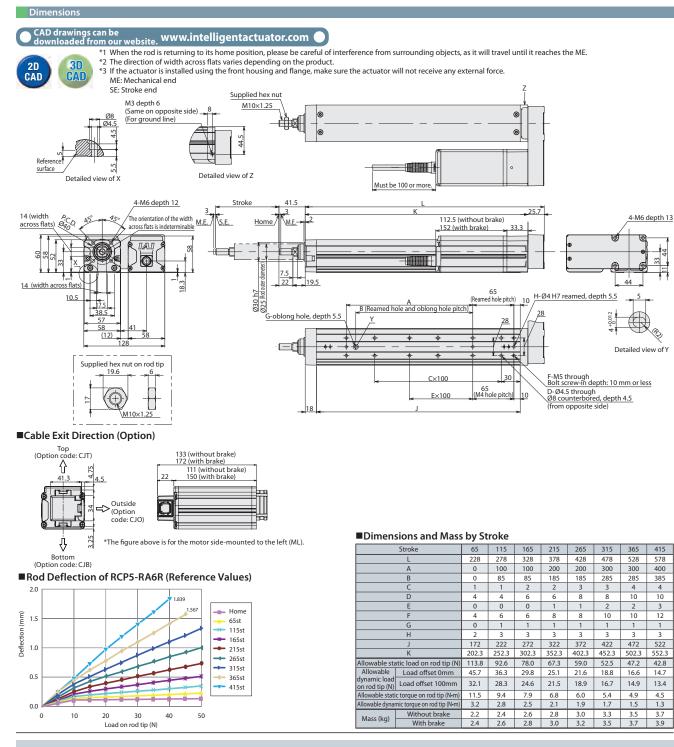
\odot Cable Length			
Туре	Cable code	Standard price	
	P (1m)	-	
Standard type	S (3m)	-	
	M (5m)	-	
	X06 (6m) ~X10 (10m)	-	
Special length	X11 (11m)~X15 (15m)	-	
	X16 (16m)~X20 (20m)	-	
	R01 (1m) ~R03 (3m)	-	
	R04 (4m) ~R05 (5m)	-	
Robot cable	R06 (6m) ~R10 (10m)	-	
	R11 (11m)~R15 (15m)	-	

R16 (16m)~R20 (20m) *Please refer to P. 89 for maintenance cables.

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Actuator	51	peci	ticat	lons

ltem	Description	
Drive system	Ball screw Ø10mm, rolled C10	
Positioning repeatability (*1)	±0.02mm [±0.03mm]	
Lost motion	0.1mm or less	
Rod	Ø25mm Aluminum	
Rod non-rotation precision (*2)	0 deg.	
Allowable load and torque on rod tip	Refer to table in the page on the right, refer to P. 65	
Rod tip overhang distance	100mm or less	
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)	
(*1) The values in brackets [] are for Lead 20.		

(*2) Rod's angular displacement in rotational direction with no applied load is shown.



Applicable Controllers

* Controller for RCP6 series is PCON, MSEL, RCON or RSEL. Please refer our Controller General Catalog and/or contact IAI.

IAI