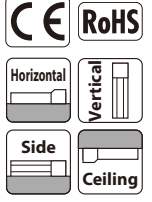


# RCP6(S)-WSA14R

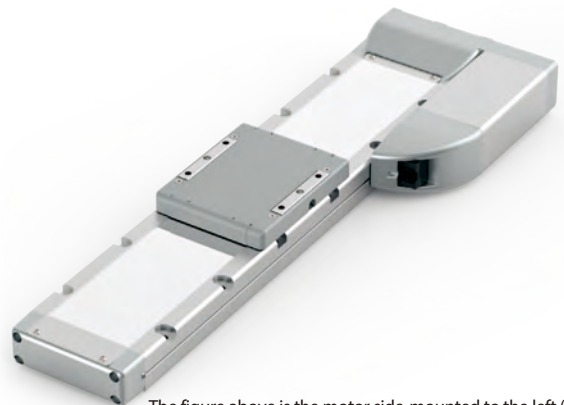
±10μm Standard
Simple Dust-proof
Battery-less Absolute
Motor Unit Type
Side-mounted Motor
Body Width 140\* mm
24v Stepper Motor

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	WSA14R	WA	56P	24: 24mm 16: 16mm 8: 8mm 4: 4mm	50: 50mm ? 800: 800mm (50mm increments)	[RCP6] P3: PCON MCON MSEL [RCP6S] SE: SIO Type	N : None P : 1m S : 3m M : 5m X□□ : Specified Length R□□ : Robot Cable	* Body width does not include the width of the side-mounted motor. Please refer to the options table below. * Please make sure to specify either ML or MR when ordering the side-mounted motor type.

\* RCP6 does not include a controller. RCP6S includes a built-in controller.  
\* Please refer to P.10 for more information about the model specification items.



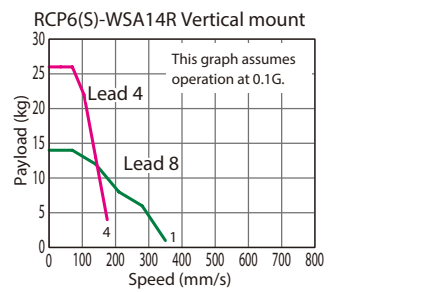
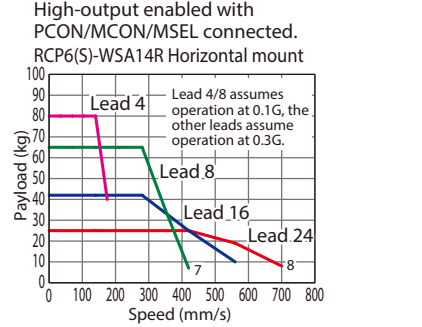
\* Depending on the model, there may be some limitations to using the vertical, side, and ceiling mount positions. Please contact IAI for more information regarding mounting positions.



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.

### Correlation Diagrams of Speed and Payload



### Actuator Specifications

#### Lead and Payload

Model Number	Lead (mm)	Connected Controller	Max. Payload (kg)		Stroke (mm)
			Horizontal	Vertical	
RCP6(S)-WSA14R-WA-56P-24-①-②-③-④	24	High-output Enabled	25	-	50~800 (The increment of stroke is 50mm)
RCP6(S)-WSA14R-WA-56P-16-①-②-③-④	16	High-output Enabled	50	-	
RCP6(S)-WSA14R-WA-56P-8-①-②-③-④	8	High-output Enabled	65	14	
RCP6(S)-WSA14R-WA-56P-4-①-②-③-④	4	High-output Enabled	80	26	

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	50~500 (Every 50mm)	550 (mm)	600 (mm)	650 (mm)	700 (mm)	750 (mm)	800 (mm)
24	High-output Enabled	700				665		
16	High-output Enabled	560			550	490	440	
8	High-output Enabled	420 <350>	400 <350>	350	305	270	240	215
4	High-output Enabled	175	170	150	135	120	105	

Values in brackets < > are for vertical use.

#### ① Stroke

Stroke (mm)	RCP6	RCP6S	Stroke (mm)	RCP6	RCP6S
50	○	○	450	○	○
100	○	○	500	○	○
150	○	○	550	○	○
200	○	○	600	○	○
250	○	○	650	○	○
300	○	○	700	○	○
350	○	○	750	○	○
400	○	○	800	○	○

#### 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)	○	○
	R01 (1m) ~R03 (3m)	○	○
Robot Cable	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
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	Ma: 462N·m, Mb: 462N·m, Mc: 1,170N·m
Dynamic allowable moment (*1)	Ma: 122N·m, Mb: 122N·m, Mc: 308N·m
Ambient operating temp. & humidity	0~40°C, 85% RH or less (Non-condensing)

\* Reference for overhang load length: Ma: 550mm or less, Mb, Mc: 550mm or less

(\*1) 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.

