

RCS3-RA8R

Medium Thrust Rod Type
(Servo Press Model with Load Cell)

Battery-less
Absolute

Motor
Unit
Type

Side-mounted
Motor

Body Width
90*
mm

230v
AC Servo
Motor

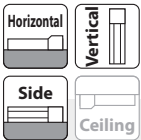
Model Specification Items

RCS3	—	RA8R	—	WA	—	200	—	2.5	—		—	T2	—		—	
Series		Type		Encoder Type		Motor Type		Lead		Stroke		Applicable Controllers		Cable Length		Options
				WA: Battery-less Absolute		200: Servo motor 200W		2.5: Lead 2.5mm		100: 100mm 500: 500mm (Every 50mm)		T2: SCON-CB/CGB (For servo press only)		N : None P : 1m S : 3m M : 5m X□□ : Specified length R□□ : Robot cable		Refer to Options table below. * Specify cable exit direction (CJT/CJB/CJO). For side-mounted motor type, specify the mount direction (ML/MR).

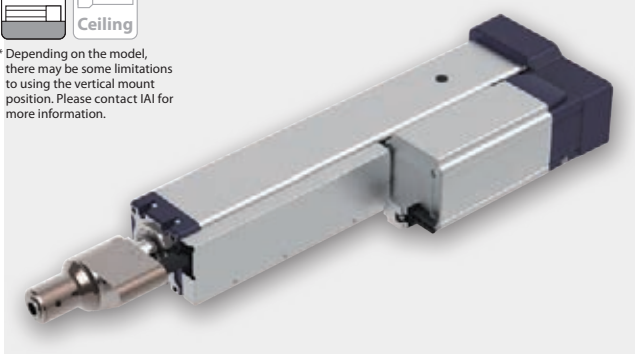
* Does not include a controller.

* Please contact IAI for more information about the model specification items.

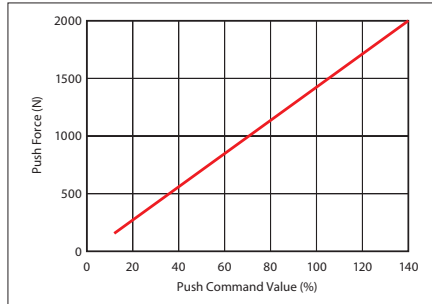
* Body width does not include the width of the side-mounted motor.



* Depending on the model, there may be some limitations to using the vertical mount position. Please contact IAI for more information.



Correlation Diagram of Push Force and Current Limit Value



Caution:

- The correlation between push force and push command value are strictly for reference purposes. Actual numbers may vary slightly.
- The push command value should be 14% or more because the push force will be unstable when the push command value is low.

- POINT Selection Notes**
- (1) For push-motion operation, check the allowable time period of continuous push-motion set with a different thrust force. Also, please check that the allowable continuous operational thrust force for the actual push cycle is less than the allowable continuous operational thrust force. (Even if there is no push motion) Please refer to P.27 for more information.
 - (2) Customer's tooling is to be mounted on the load cell itself. In case any radial or moment load is applied to the load cell, please consider adding the external guides, etc. to offset those side loads.
 - (3) Please install a support block when front mounting or back mounting a horizontally mounted actuator that is 150st or more. (Refer to page 34 "Notes When Installing")
 - (4) Servo Press with load cell should not be used for pulling motion. It will damage the load cell.

Actuator Specifications

Lead and Payload

Model Number	Motor wattage (W)	Lead (mm)	Max. speed (mm/s)	Max. acceleration (G)	Max. payload (kg)	Rated thrust (N)	Max. push force (N)
RCS3-RA8R-WA-200-2.5-①-T2-②-③	200	2.5	125	0.2	10	1367	2000

Legend: ① Stroke ② Cable Length ③ Option * Max. horizontal payload means max. weight on the customer's external guide. ** Max. push force can be achieved only within 1~10mm/s speed range.

Stroke and Max Speed

Lead (mm)	Stroke (mm)	100~500
2.5		125

(Unit: mm/s)

Cable Length

Type	Cable Code
Standard	P(1m)
	S(3m)
	M(5m)
Specified length (Standard cable)	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 contact IAI for maintenance cables.

Options

Name	Option Code	Reference Page
Brake	B	See P.35
Cable exit direction (Top)	CJT	See P.35
Cable exit direction (Bottom) (*2)	CJB	See P.35
Cable exit direction (Outside)	CJO	See P.35
Flange (Front)	FL	See P.35
Foot bracket (*1)	FT	See P.36
Equipped with load cell (Standard equipment) (*3)	LCT	See P.37
Motor side-mounted (left)	ML	See P.37
Motor side-mounted (right)	MR	See P.37

(*1) Refer to P. 37 for the number of brackets included.

(*2) The foot bracket cannot be chosen when you select the actuator whose stroke is 100mm.

(*3) Please make sure to enter "LCT" in the box of Model Specification Items to select the actuator with load cell option.

Actuator Specifications

Item	Description
Drive system	Ball screw ø16mm rolled C10
Positioning repeatability	±0.01mm
Lost motion	0.1mm or less
Load cell rated capacity	2000N
Loading repeatability (*1)	±0.5% F.S (*2)
Ambient operating temp. & humidity	0°C~40°C, 85% RH or less (non-condensing)

(*1) Ratio (in percentage) of the load variations caused by the repeated operations to the load cell rated capacity

(*2) F.S.: Full Scale, the maximum measurable value.

