2-RA 1 3 R High Thrust Rod Type (Servo Press Model with Load Cell) Battery 230_v 130 AC Servo Motor Absolut Type ■ Model RCS2 -RA13R-**- 750** WA **T2** Specification Items Encoder Type Motor Type Lead Stroke Applicable Controller Cable Length Options : None : 1m : 3m : 5m Refer to Options WA: Battery-less 2.5:2.5mm T2: SCON-CB/ 750: Servo 50: 50mm N P table below. Absolute 1.25:1.25mm motor CGB * One of motor mount direction type needs 750W 200: 200mm Does not include a controller Please contact IAI for more information about the model specification items. (Every 50mm) $X \square \square$: Specified length $R \square \square$: Robot cable MT1/MT2/MT3/MR1/ Body width does not include the width of the side-mounted moto



■ Correlation Diagram of Push Force and Current Limit Value

20000 15000 돌 10000 ad 2.5 5000 20 Current limit value (%)

Caution:

The correlation between push force and current limit value is strictly for reference purposes. Actual numbers may vary slightly.

The push force will be unstable when the current limit value is low. Use at 20% or more for lead 1.25 and 40% or more for lead 2.5.

MR2/ML1/ML3.



- (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 and that the duty cycle is 50% or less. Please refer to the Selection Guidelines (P.28) for more information.
- (2) The value of payload is when operating at an acceleration of 0.02G for lead 2.5 and 0.01G for least 2.5 and 0.01G for lea lead 1.25. The value listed above is the upper limit of acceleration.
- (3) 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. The value of the horizontal payload assumes that there is an external guide and that the rod is not subjected to external force other than in the moving direction.
- (4) For the brake option, a brake box (see P.16) is required in addition to the main unit and controller.
- (5) 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. acceleration (G)	Max. p Horizontal (kg)			Max. push force (N)	Stroke (mm)	
RCS2-RA13R-WA-750-2.5-①-T2-②-③	750	2.5	0.02	15	15	5106	9800	50~200 (Every 50mm)	
RCS2-RA13R-WA-750-1.25-①-T2-②-③	730	1.25	0.01	15	15	10211	19600		
* Max. horizontal payload means max. weight on the customer's external guide. * 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.									

. 1		le	<u></u>	la	* Max	horizontal	payl	oad	means max	. weight	on th	ne customer'	s external	quide.
a:	U	Stroke	(2)	Cable Length 3 Option	** May	nush force	can	he :	achieved onl	ly within	1~1	0mm/s sneed	d range	-

■ Stroke and Max Speed

Stroke (mm)	50	100	150	200
2.5	85 120 12			25
1.25		6	2	

(Unit: mm/s)

Cable Length	
Туре	Cable Code
	P (1m)
Standard	S (3m)
	M (5m)
Considerable and	X06 (6m) ~ X10 (10m)
Specified length (Standard cable)	X11(11m)~X15(15m)
(Staridard Cable)	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 contact IAI for maintenance cables.

Options		
Name	Option Code	Reference Page
Brake (With brake box)	В	See P.35
Brake (Without brake box) (Note 2)	BN	See P.35
Flange (Front) (Note 1)	FL	See P.36
Foot bracket (*1) (Note 3)	FT	See P.37
With load cell (with cable track for wiring) (*2) (Note 1)	LCT	See P.37
With load cell (without cable track for wiring) (*2)	LCN	See P.37
Motor top side-mounted	MT1/MT2/MT3	See P.37
Motor right side-mounted (Note 3)	MR1/MR2	See P.37
Motor left side-mounted (Note 3)	ML1/ML3	See P.37

Actuator Specif	fications

Actuator Specifications					
ltem	Description				
Drive system	Ball screw ø32mm rolled C10				
Positioning repeatability	±0.01mm				
Lost motion	0.2mm or less				
Load cell rated capacity	20000N				
Loading repeatability (*1)	±0.5% F.S (*2)				
Ambient operating temp & humidity	0~40°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) E.S.: Full Scale, the maximum measurable value

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

- (*2) Please make sure to select one of these for the load cell option (LCT/LCN) in the box of Model
- (*2) Please make sure to select one of these for the load cell option (LCT/LCN) in the box of model Specification Items.

 (Note 1) Load cell option (with cable track for wiring) "LCT" and flange option "FL" cannot be selected together. (Note 2) When selecting the brake option (without brake box) "BN" and using it as the second axis of the brake box, a cable must be separately purchased. Please refer to P.40 for more information. (Note 3) Option "MR1/MR2/ML1/ML3" and option "FT" cannot be selected together.

Dimensions

CAD drawings can be downloaded from our website www.robocylinder.de

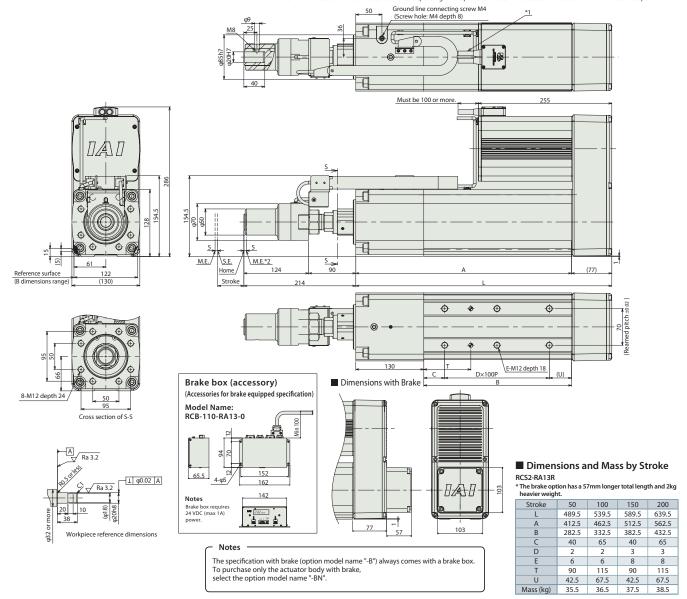


- Connect the motor-encoder cables. Please contact IAI for more details on the cable.

 While the rod is returning to its home position, please be careful of interference from surrounding objects, as it will travel until it reaches the mechanical end.

 M.E. Mechanical end. S.E.: Stroke end

 The direction of width across flats varies depending on the product. Flats cannot be used for vertical or horizontal reference planes.



Side-mounted motor direction / Cable exit position (Option)

Notes

Be sure to select a symbol in the model number for the side-mounted motor direction and cable exit position.















Option Code	MT1	MT2	MT3	MR1	ML1	MR2	ML3
Side-mounted motor direction	Top (standard)	Тор	Тор	Right side	Left side	Right side	Left side
Cable exit position	Top (standard)	Right side	Left side	Тор	Тор	Right side	Left side

		Power			Cor	ntrol method			
	Max. number of connectable axes	supply voltage	Positioner	Pulse train	Program	Press program	Network * Option	Maximum number of positioning points	Reference pag
SCON-CB/CGB (For servo press only)	1	Single- phase 230VAC	_	-	-	•	DeviceNet Ether CAT THE ETHER COMPONET Componet	-	Refer to the SCON-CB/CGB- servo press function manual.