S3-RA 10R High Thrust Rod Type (Servo Press Model with Load Cell) Battery-less 230_v Unit 110 AC Servo Motor Absolute Type Model RCS3 - RA10R -WA **- 400 -**2.5 **T2** Specification Cable Length Encoder Type — Motor Type Lead Stroke Applicable Controller Options : None Refer to Options tabl WA: Battery-less T2: SCON-CB/ 400: Servo 2.5: Lead 2.5mm 100: 100mm : 1m : 3m : 5m Absolute motor CGB Specify cable exit 400W 500: 500mm direction (CJT/CJB/CJO) Does not include a controller. For side-mounted motor type, specify the mount direction (ML/MR). Please contact IAI for more information about the model specification items. (Every 50mm) X□□: Specified length



■ Correlation Diagram of Push Force and Current Limit Value



R□□: Robot cable

- 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 20% or more because the push force will be unstable when the push command value is low.



- (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.28 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
- (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 Lead	Max. speed	Max. acceleration	Max. payload		Rated thrust	Max. push force	
Model Number	(W)	(mm)	(mm/s)		Horizontal (kg)			(N)
RCS3-RA10R-WA-400-2.5-①-T2-②-③	400	2.5	125	0.2	15	15	2713	6000
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■ Stroke and Max Speed

Stroke (mm)	100~500							
2.5	125							

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

(Unit: mm/s)

Cable Length

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

Actuator Specifications

Item	Description			
Drive system	Ball screw ø20mm rolled C10			
Positioning repeatability	±0.01mm			
Lost motion	0.1mm or less			
Load cell rated capacity	6000N			
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.

Options		
Name	Option Code	Reference Page
Brake	В	See P.35
Cable exit direction (Top)	CJT	See P.35
Cable exit direction (Bottom) (*2)	CJB	See P.35
Cable exit direction (Outside)	C10	See P.35
Flange (Front)	FL	See P.36
Foot bracket (*1)	FT	See P.37
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

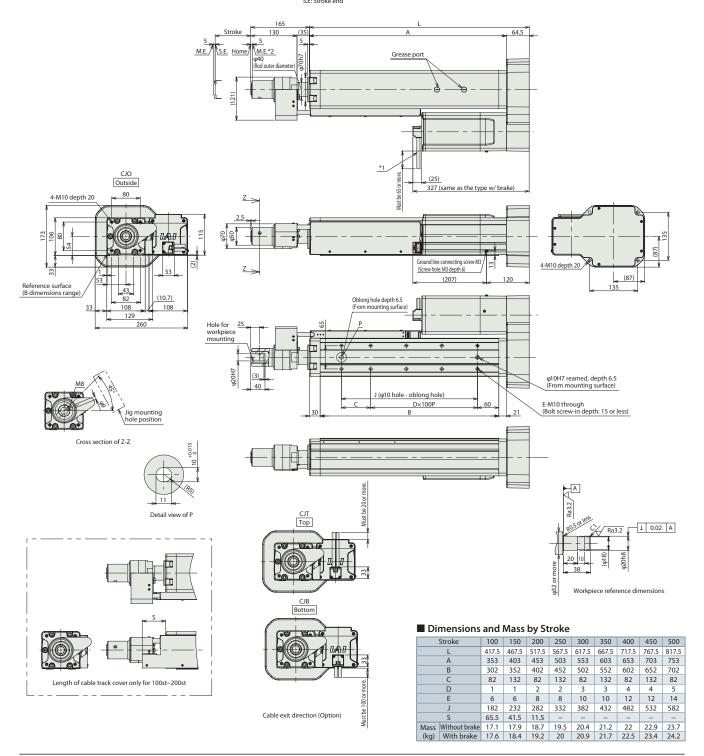
- (*1) Refer to P. 37 for the number of brackets included.
- (*2) The foot bracket cannot be chosen when you select the actuator whose stroke is 100mm.
 (*3) Please make sure to enter "LCT" in the box of Model Specification Items to select the actuator with load cell option.

Dimensions

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



- *1 Connect the motor-encoder cables. Please contact IAI for more details on the cable.
 *2 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



Applicable Controllers The RCS3 series actuators can be operated by the controllers indicated below. Please select the type depending on your intended use.										
	External view	Max. number of connectable axes	cupply	Control method						
				Positioner	Pulse train	Program	Press program	Network * Option	Maximum number of positioning points	Reference page
SCON-CB/CGB (For servo press only)		1	Single- phase 230VAC	-	-	-	•	DeviceNet EtherCAT. EtherNet/IP CompoNet	-	Refer to the SCON-CB/CGB-F servo press function manual.