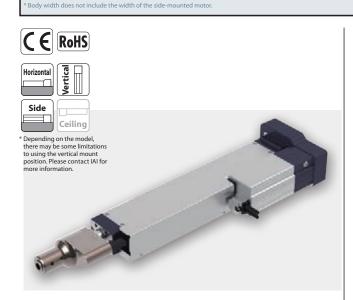
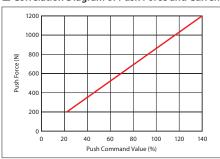
Battery-less 3-RA7R 230_v Medium Thrust Rod Type Unit 70 mm (Servo Press Model with Load Cell) Absolute Type Model RCS3 - RA7R -WA 100 -2 **T2** Specification Cable Length Items Encoder Type Motor Type Lead Stroke Applicable Controllers Options T2: SCON-CB/ Refer to Options table WA: Battery-less 100: Servo 2: Lead 2mm 120: 120mm 1m below Absolute motor CGB below. * Specify cable exit direction (CJT/CJB/CJO). For side-mounted motor type, specify the mount direction (ML/MR). : 3m : 5m 100W 520: 520mm Does not include a controller. 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 24% 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.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
- (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. p Horizontal (kg)			Max. push force (N)
RCS3-RA7R-WA-100-2-①-T2-②-③	100	2	100	0.3	10	10	849	1200

■ Stroke and Max Speed

Stroke (mm)	120~520
2	100

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

(Unit: mm/s)

Cable Length					
Type	Cable Code				
туре	Cable Code				
	P (1m)				
Standard	S (3m)				
	M (5m)				
6 (6 11 4	X06 (6m) ~ X10 (10m)				
Specified length (Standard cable)	X11 (11m)~ X15 (15m)				
(Standard 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.

Actuator Specifications

Item	Description
Drive system	Ball screw ø12mm 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.

Ontions

Options		
Name	Option Code	Reference Page
Brake	В	See P.35
Cable exit direction (Top)	CJT	See P.35
Cable exit direction (Bottom)	CJB	See P.35
Cable exit direction (Outside)	C10	See P.35
Flange (Front)	FL	See P.35
Foot bracket (*1)	FT	See P.36
Equipped with load cell (Standard equipment) (*2)	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) Please make sure to enter "LCT" in the box of Model Specification Items to select the actuator with load cell option.

Dimensions

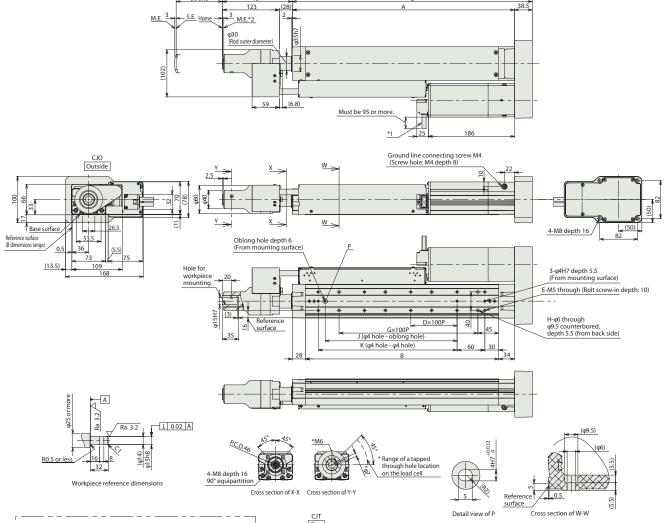
CAD drawings can be downloaded from our website www.robocylinder.de

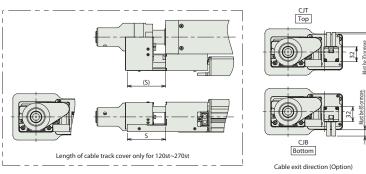


Stroke

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- *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





■ Dimensions and Mass by Stroke

	Stroke	120	170	220	270	320	370	420	470	520
	L	318.5	368.5	418.5	468.5	518.5	568.5	618.5	668.5	718.5
	Α	280	330	380	430	480	530	580	630	680
	В	218	268	318	368	418	468	518	568	618
	D	1	1	2	2	3	3	4	4	5
	E	6	6	8	8	10	10	12	12	14
	G	1	2	2	3	3	4	4	5	5
	Н	4	6	6	8	8	10	10	12	12
	J	85	85	185	185	285	285	385	385	485
	K	100	100	200	200	300	300	400	400	500
	S	83	60	39	17	-	-	-	-	-
Mass	Without brake	6.1	6.5	6.8	7.2	7.5	7.9	8.2	8.6	8.9
(kg)	With brake	6.3	6.7	7.0	7.4	7.7	8.1	8.4	8.8	9.1

	Max. number of	Power			Cor					
	External view	connectable axes	supply voltage	Positioner	Pulse train	Program	Press program	Network * Option	Maximum number of positioning points	Reference pa
GCON-CB/CGB For servo press only)		1	Single- phase 115VAC /230VAC	_	-	-	•	DeviceNet Ctink EtherCAT: EtherNet/IP CompoNet	-	Refer to the SCON-CB/CGB- servo press function manual.