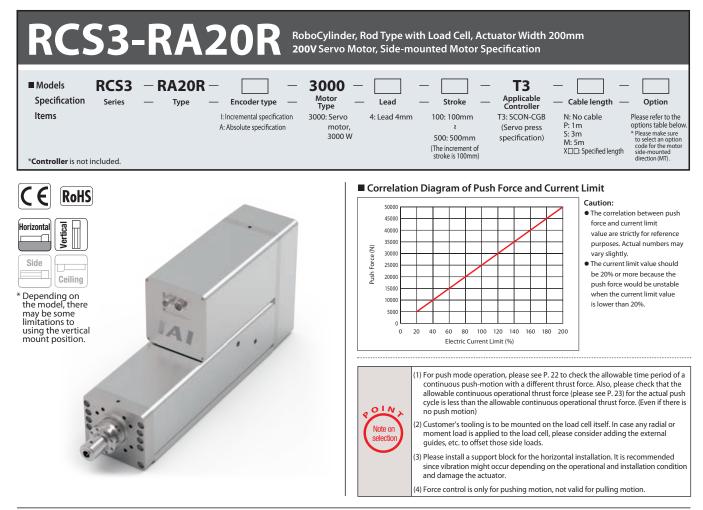
## RCS3 RoboCylinder



Actuator Specifications											
Lead and Payload										Stroke and Max	kimum Speed
Model number	Motor (W)	Lead (mm)	Max. speed (mm/s)	Max. acceleration (G)	Max. p Horizontal (kg)			Max.push force (N) *		Lead (mm)	
RCS3-RA20R-① -3000-4-②-T3-③-④	3000	4	220	0.1	15	15	25902	50000		4	220
Legend: @Encoder type @Stroke @Cable length @Option * With 0.01-10mm						n/s	5	(Unit: mm/s			

## Legend: ① Encoder type ② Stroke ③ Cable length ④ Option

Cable Length							
Туре	Cable code						
	<b>P</b> (1m)						
Standard type (Robot cable)	<b>S</b> (3m)						
(RODOL CADIE)	<b>M</b> (5m)						
	X06 (6m) ~X10 (10m)						
Special length	X11 (11m)~X15 (15m)						
	X16 (16m)~X20 (20m)						

\* Refer to P. 37 for maintenance cables.

\* The standard cable is the robot cable.

## Options

Name	Option code	Reference page
Brake	В	
Cable exit direction (Top)	CJT	Refer to the
Cable exit direction (Right side)	CJR	RoboCylinder
Cable exit direction (Left side)	CJL	General Catalog.
Motor side-mounted to the top	MT	
Equipped with load cell (Standard equipment) (*1)	LCT	-

(\*1) Please make sure to enter "LCT" in the box of Model Specification Items to select the actuator with load cell.

## Actuator Specifications

Item	Description			
Drive system	Ball screw Ø40mm, rolled C10			
Positioning repeatability	±0.01mm			
Rod non-rotation precision	±0 deg.			
Lost motion	0.2mm or less			
Load cell rated capacity	50000N			
Load cell system accuracy	±1% R.C (*2)			
Loading repeatability (*1)	±0.5% F.S (*3)			
Load cell service life	2 million times			
Ambient operating temperature and humidity	0°C~40°C			

(\*1) Ratio (in percentage) of the load variations caused by the repeated operations to the load cell rated capacity. The ratio is calculated based on actual data at IAI.

(\*2) R.C: Rated Capacity (\*3) F.S: Full Scale

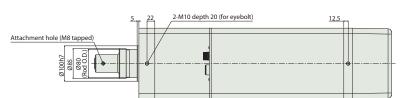


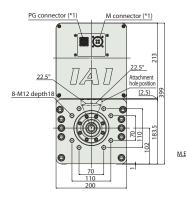
Dimensions

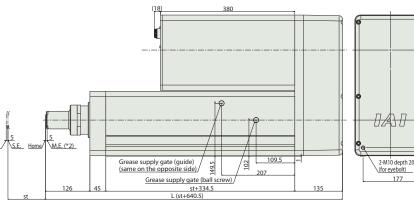
2/3D CAD

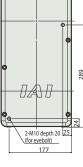
www.intelligentactuator.com

\*1 Connects the motor-encoder cable. Refer to P. 37 for the details of 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 ME. ME : Mechanical end SE : Stroke end

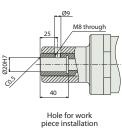




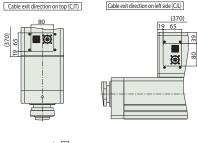


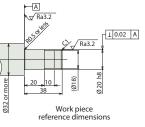


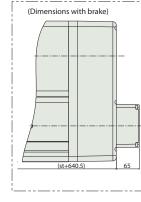
Cable exit direction on right side (CJR) (370)  $\odot$ 3

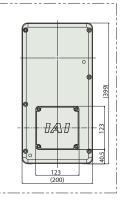












Dimensions and Mass by Stroke

5	Stroke	100	200	300	400	500
L		740.5	840.5	940.5	1040.5	1140.5
Mass (kg)	Without brake	93.3	99.6	105.8	112.1	118.4
	With brake	96.3	102.6	108.8	115.1	121.4

Compatible Controllers

RCS3-RA20R actuators can be operated with the following controller. Select an appropriate controller type according to your application.

		-					
Name	External view	Model number (Note 1)	Max. number of controlled axes		Max. number of positioning points	Power-supply capacity	Description
gle axis controller (Global type)		SCON-CGB-3000①F-NP-2-2	1 axis	Absolute Incremental	512 points	Three-phase 200 VAC	Position global type controller (Safety category compliant specification)