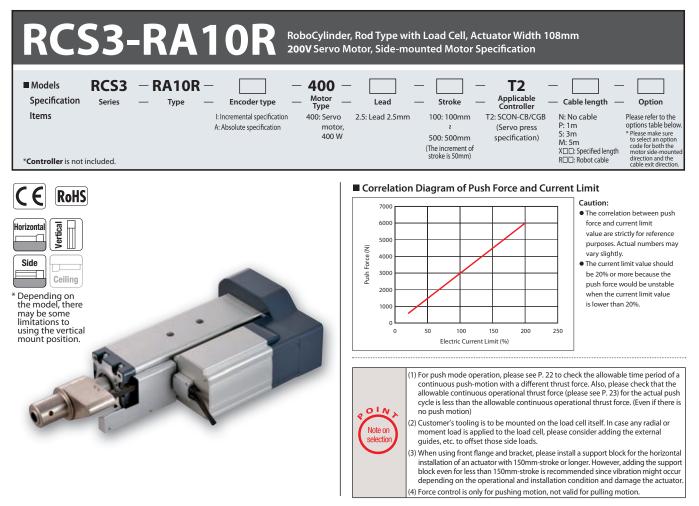
RCS3 RoboCylinder



Actuator Specifications												
Lead and Payload									l	Stroke and Maximum Speed		
Model number	Motor (W)	Lead (mm)	Max. speed (mm/s)	Max. acceleration (G)	Max. p Horizontal (kg)			Max.push force (N) *		Stroke (mm)		
RCS3-RA10R-①-400-2.5-②-T2-③-④	400	2.5	125	0.2	15	15	2713	6000		2.5	125	
Legend: ① Encoder type ② Stroke ③ Cable leng	nd: ①Encoder type ②Stroke ③Cable length ④Option * With 0.01-10mm							n/s	;	(Unit: mm/s)		

Cable Length

Туре	Cable code	
	P (1m)	
Standard type	S (3m)	
	M (5m)	
	X06 (6m) ~X10 (10m)	
Special length	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)	

* Refer to P. 37 for maintenance cables.

Options

Name	Option code	Reference page	
Name		Reference page	
Front flange	FL	→P25	
Foot bracket (*1)	FT	→P25	
Brake	В		
Cable exit direction (Top)	CJT	Refer to the	
Cable exit direction (Bottom) (*2)	CJB	RoboCylinder	
Cable exit direction (Outside)	OLO	General Catalog.	
Motor side-mounted to the left	ML		
Motor side-mounted to the right	MR		
Equipped with load cell (Standard equipment) (*3)	LCT	-	

(*1) Refer to P. 26 for the number of brackets included.

(*2) When you select "CJB" for an actuator whose stroke is 100mm, the foot bracket cannot be chosen.

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

Actuator Specifications

ltem	Description				
Drive system	Ball screw Ø20mm, rolled C10				
Positioning repeatability	±0.01mm				
Rod non-rotation precision	±0 deg.				
Lost motion	0.1mm or less				
Load cell rated capacity	6000N				
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

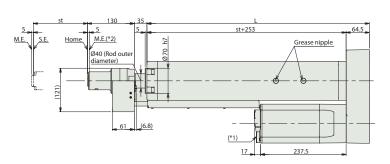
Dimensions

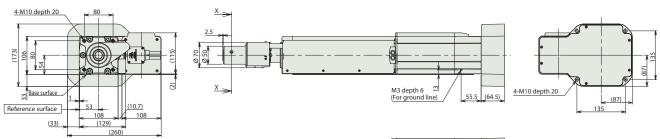
CAD drawings can be downloaded from our website.

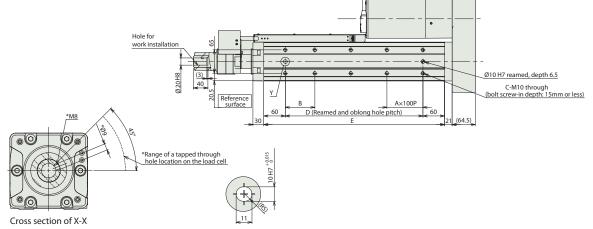
www.intelligentactuator.com

2/3D CAD

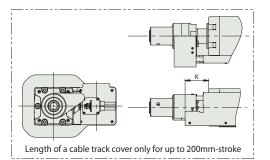
*1 Connects the motor-encoder cable. Refer to P. 37 for the details of the cable. *2 While the rod is returning to its home position, please be careful of interference from surrounding objects, as it will travel until it reaches the ME. ME : Mechanical end SE : Stroke end







Detailed view of Y



Dimensions and Mass by Stroke

	Stroke	100	150	200	250	300	350	400	450	500
	L	417.5	467.5	517.5	567.5	617.5	667.5	717.5	767.5	817.5
	A	1	1	2	2	3	3	4	4	5
	В	82	132	82	132	82	132	82	132	82
	C	6	6	8	8	10	10	12	12	14
	D	182	232	282	332	382	432	482	532	582
	E	302	352	402	452	502	552	602	652	702
	К	65.5	41.5	11.5	-	-	-	-	-	-
Mass	Without brake	17.1	17.9	18.7	19.5	20.4	21.2	22	22.9	23.7
(kg)	With brake	17.6	18.4	19.2	20	20.9	21.7	22.5	23.4	24.2

Compatible Controllers

RCS3-RA10R actuators can be operated with the following controllers. 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		
Single axis controller (Standard type)		SCON-CB-400 ①F-NP-2-2	1	Absolute	512	Single-phase	Position standard type controller		
Single axis controller (Global type)		SCON-CGB-400①F-NP-2-2	1 axis	Incremental	points	200 VAC	Position global type controller (Safety category compliant spec.)		
(Note 1) The model numbers are based on a 1-axis specification without network support. ① represents the encoder type (absolute/incremental). For details, refer to page 28.									