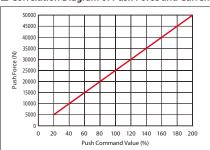
#### (Servo press specification) Battery less Motor 200<sub>V</sub> Unit 200 AC Servo Motor Absolute Type RCS3 - RA20R -WA 3000 **T3** Specification Items Encoder Type Motor Type Applicable Controlle Options Refer to Options table below. \* Make sure to specify MT (Side-WA: Battery-less 3000: Servo 4: Lead 4mm 100: 100mm T3: SCON-CGB Absolute :1m :3m 500: 500mm 3000W Does not include a controller. (Every 100mm) Please contact IAI for more information about the model specification items. mounted motor on top). X□□: Specified length Body width does not include the width of the side-mounted moti



## ■ Correlation Diagram of Push Force and Current Limit Value



# Caution: ■ 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 pushmotion 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 quides, etc. to offset those side loads.
- (3) Please install a support block when front mounting a horizontally mounted actuator. (Refer to page 34 "Notes When Installing")
- (4) Servo Press with load cell should not be used for pulling motion. It will damage the load cell.
- (5) The maximum payload for vertical mounting is 220kg when using the M5 tapped mounting hole at the tip of the load cell. When using the M8 tapped mounting hole on the side of the load cell tip and fixing with a setscrew, the payload should be 15 kg or less. Use either the M8 or M5 tapped mounting hole but not both.

### Actuator Specifications ■ Lead and Payload ■ Stroke and Max Speed Max. payload Rated thrust Max. push force Motor wattage Lead Max. speed Max. acceleration (mm/s) (G) Model Number 100~500 Horizontal (kg)\* Vertical (kg) Lead (mm) RCS3-RA20R-WA-3000-4-10-T3-20-3 4 220 25902 50000 4 220 \* Max. horizontal payload means max. weight on the customer's external guide. Legend: Stroke Cable Length Option \* Speed limitation applies to push motion. See the manual or contact IAI. (Unit: mm/s)

① Stroke	
① Stroke (mm)	RCS3-RA20R
100	0
200	0
300	0
400	0
500	0

② Cable Length				
Туре	Cable Code			
Standard	<b>P</b> (1m)			
	<b>S</b> (3m)			
(Robot cable)	<b>M</b> (5m)			
Specified length	<b>X06</b> (6m) ~ <b>X10</b> (10m)			
	X11(11m)~X15(15m)			
(Robot cable)	<b>X16</b> (16m)~ <b>X20</b> (20m)			

- \* Please refer to P.49 for maintenance cables.
- \* Robot cable specification is standard.

③ Options		
Name	Option Code	Reference Page
Brake	В	See P.35
Cable exit direction (Top)	CJT	See P.35
Cable exit direction (Right)	CJR	See P.35
Cable exit direction (Left)	CJL	See P.35
Equipped with load cell (Standard equipment) (*1)	LCT	See P.37
Side-mounted motor direction (Top)	MT	See P.37

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

Actuator Specifications					
Item	Description				
Drive system	Ball screw $\phi$ 40mm ground				
Positioning repeatability	±0.01mm				
Lost motion	0.1mm or less				
Load cell rated capacity	50000N				
Loading repeatability (*2)	±0.5% F.S (*3)				
Ambient operating temp. & humidity	0°C~40°C, 85% RH or less (non-condensing)				

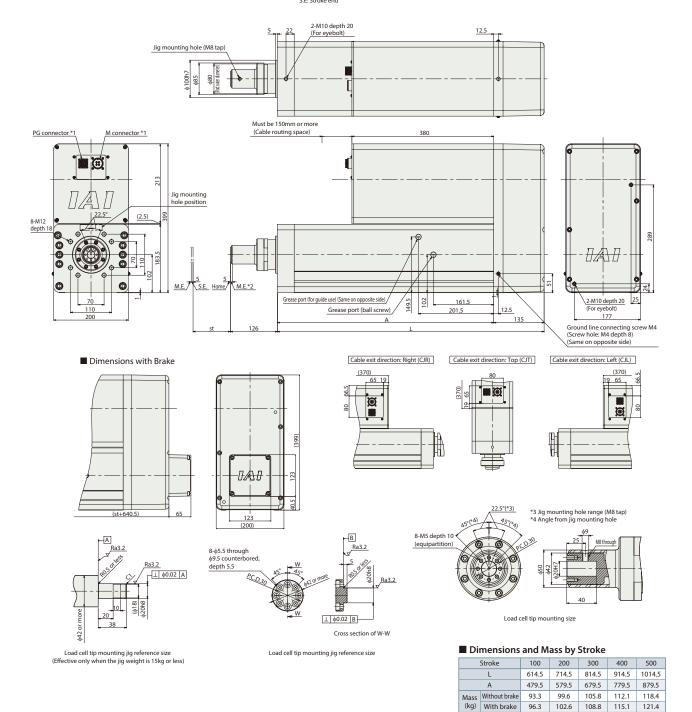
<sup>(\*2)</sup> Ratio (in percentage) of the load variations caused by the repeated operations to the load cell rated capacity (\*3) F.S.F. (\*18) Scale, the maximum measurable value.

## Dimensions

CAD drawings can be downloaded from our website. www.intelligentactuator.com



- \*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 Con The RCS3 series actuators		perated by the cont		ted below. Ple	ease select the	· ·				
	External view	Max. number of connectable axes	Power supply voltage	Positioner	Pulse train		ntrol method Press program		Maximum number of positioning points	Reference page
SCON-CGB (For servo press only)		1	Three- phase 200VAC	-	-	-	•	Device Net  CC-Link  GROUP  Ether CAT  Ether Net/IP	-	Please contact IA for more information.

96.3

102.6

108.8

115.1

121.4