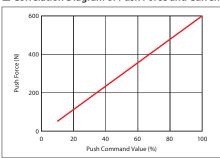
3-RA6R Low Thrust Rod Type (Servo Press Type with Load Cell) Battery-less 230_v Unit 60 Absolute Type Model RCS3 - RA6R -WA 60 1.5 **T2** Specification Cable Length Applicable Controllers Encoder Type Motor Type Lead Stroke Options T2: SCON-CB/ : None WA: Battery-less Refer to Options table 60: Servo 1.5: Lead 1.5mm 115: 115mm 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 60W 415: 415mm Does not include a controller. Please contact IAI for more information about the model specification items (Every 50mm) X□□: Specified length R□□: Robot cable



■ Correlation Diagram of Push Force and Current Limit Value



- 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 10% 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

Motor wattage Lead Max. speed Max acceleration Max. payload Rated thrust Max. push force (W) (mm/s) (G) Max. payload National Max. push force Model Number RCS3-RA6R-WA-60-1.5-1 -T2-2-3 60 1.5 75 0.3 10 10 566 600

■ Stroke and Max Speed

| | • |
|----------------|---------|
| Stroke (mm) | 115~415 |
| 1.5 | 75 |

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

(Unit: mm/s)

Cable Length

| Туре | Cable Code | | |
|--------------------------------------|------------------------------------|--|--|
| | P (1m) | | |
| Standard | S (3m) | | |
| | M (5m) | | |
| Considerable with | X06 (6m) ~ X10 (10m) | | |
| Specified length (Standard cable) | X11 (11m)~ X15 (15m) | | |
| (Standard Cable) | X16 (16m)~ X20 (20m) | | |
| | R01(1m) ~R03(3m) | | |
| Robot cable | R04 (4m) ~ R05 (5m) | | |
| | 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 ø10mm rolled C10 | | |
| Positioning repeatability | ±0.01mm | | |
| Lost motion | 0.1mm or less | | |
| Load cell rated capacity | 600N | | |
| 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) (*2) | 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) (*3) | LCT | See P.37 | |
| Motor side-mounted (left) | ML | See P.37 | |
| Motor side-mounted (right) | MR | See P.37 | |

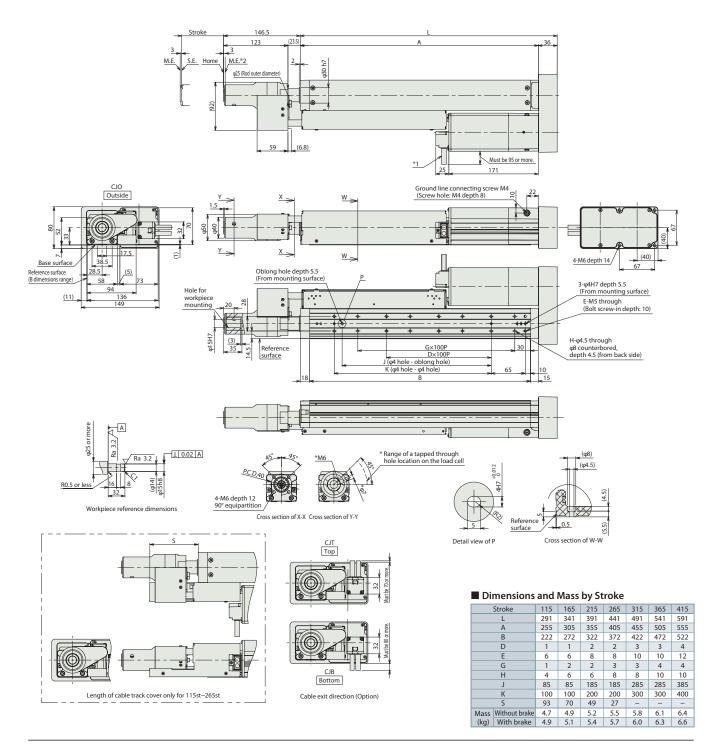
- (*1) Refer to P. 37 for the number of brackets included.
- (*2) The foot bracket cannot be chosen when you select the actuator whose stroke is 365mm or less.
 (*3) Please make sure to enter "LCT" in the box of Model Specification Items to select the actuator with load cell option.

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. | | | | | | | | | | |
|--|----------------|-------------------|---------------------------------------|------------|-------------|---------|------------------|---|--------------------------------------|---|
| | Max. number of | Power | Control method | | | | | | | |
| | | ernai connoctable | | 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 115VAC /230VAC | _ | _ | - | • | DeviceNet EtherCAT. EtherCAT. CompoNet | - | Refer to the SCON-CB/CGB-F servo press function manual. |