

(1) The load capacity is based on operation at an acceleration of 0.2G This is the upper limit of the acceleration.

The horizontal load capacity is based on the use of an external guide.If an external force is exerted on the rod from a direction other than the motion of the rod, the

detent may become damaged.

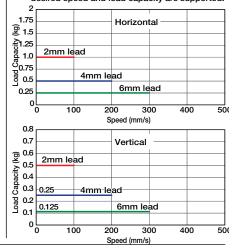
(3) The maximum pushing force is exerted at 5mm/s.

(4) If the actuator is used in a dusty environment, its service life will become significantly shorter.

(5) This model uses a lead screw. Please ensure that your usage is appropriate for its characteristics. (See page Pre-42 for more information.)

■ Speed vs. Load Capacity

Due to the characteristics of the pulse motor, the RCP3 series' load capacity decreases at high speeds. In the table below, check if your desired speed and load capacity are supported.



75 ~ 150 (mm)

300

(Unit: mm/s)

50 (mm)

280

100

200

Actuator Specifications ■ Lead and Load Capacity Stroke and Maximum Speed Max. Load Capacity Maximum 25 Feed Screw Stroke Lead (mm) Push Force (N Lead RCP3-RA2BR-I-20P-6S-1 - 2 - 3 - 4 6 0.25 0.125 6 180 Screw ~ **150** Lead RCP3-RA2BR-I-20P-4S-1 - 2 - 3 - 4 See page 4 0.25 180 0.5 ±0.05 (25mm 4 A-68. Lead RCP3-RA2BR-I-20P-2S-1 - 2 - 3 - 4 2 0.5 2 Legend ① Stroke ② Compatible controller ③ Cable length ④ Options

① Stroke List

| 9 9 3 3 3 3 3 3 | |
|-----------------|----------------|
| | Standard Price |
| Stroke (mm) | Feed Screw |
| | Lead Screw |
| 25 | - |
| 50 | - |
| 75 | - |
| 100 | - |
| 125 | - |
| 150 | - |

③ Cable List

| Туре | Cable Symbol | Standard Price | |
|-----------------|-----------------------|----------------|--|
| Standard | P (1m) | - | |
| | S (3m) | - | |
| (Robot Cables) | M (5m) | - | |
| | X06 (6m) ~ X10 (10m) | - | |
| Special Lengths | X11 (11m) ~ X15 (15m) | - | |
| | X16 (16m) ~ X20 (20m) | - | |

* The RCP3 comes standard with a robot cable.

* See page A-39 for cables for maintenance.

PMEC /AMEC ROBO NET ERC2 PCON ACON SCON PSEL SSEL

ontrollers ntegrated

Rod
Type

Mini

Standard

| 4 Option List | | | |
|-------------------------------|-------------|----------|----------------|
| Name | Option Code | See Page | Standard Price |
| Brake | В | → A-25 | - |
| Left-Mounted Motor (Standard) | ML | → A-33 | - |
| Right-Mounted Motor | MR | → A-33 | _ |
| Reversed-home | NM | → V-33 | _ |

| Actuator Specification | ons |
|----------------------------------|--|
| Item | Description |
| Drive System | Lead screw ø6mm C10 grade |
| Lost Motion | 0.3mm or less (initial value) |
| Base | Material: Aluminum (white alumite treated) |
| Guide | Sliding guide |
| Ambient Operating Temp./Humidity | 0 ~ 40°C, 85% RH or less (non-condensing) |
| Service Life | Horizontal: 10 million cycles Vertical: 5 million cycles |

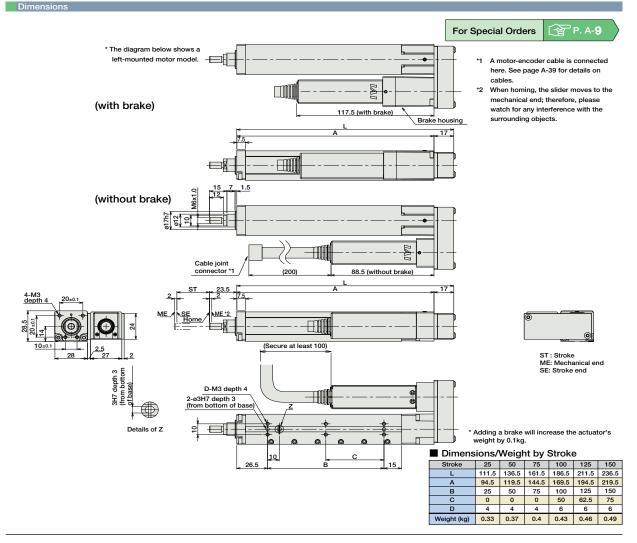
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Standard
Controllers integrated
Mini
Standard
Controllers integrated
Controllers integrated
Table/Arm
/Flat Type

PMEC AMEC PSEP ASEP ASEP ASEL SSEL





| Name | | Model | Description | | Input Voltage | Power Supply Capacity | | See Page |
|---|----|----------------------|---|------------|------------------|-----------------------|---|----------|
| | | PMEC-C-20PI-NP-2-① | Easy-to-use controller,even for beginners | | AC100V AC200V | See P481 | - | → P477 |
| Solenoid Valve Type | | PSEP-C-20PI-NP-2-0 | Operable with same signal as solenoid valve. | 3 points | | 2A max. | - | → P487 |
| Splash-Proof Solenoid Valve Type | | PSEP-CW-20PI-NP-2-0 | Supports both single and double solenoid types. No homing necessary with simple absolute type. | | | | - | |
| Positioner Type | | PCON-C-20PI-NP-2-0 | | | DC24V | | - | → P525 |
| Safety-Compliant Positioner Type | | PCON-CG-20PI-NP-2-0 | Positioning is possible for up to 512 points | 512 points | | | - | |
| Pulse Train Input Type Differential Line Driver) | 6Î | PCON-PL-20PI-NP-2-0 | Pulse train input type with differential line driver support | () | | | - | |
| Pulse Train Input Type (Open Collector) | | PCON-PO-20PI-NP-2-0 | Pulse train input type with open collector support | (-) | | | - | |
| Serial Communication Type | | PCON-SE-20PI-N-0-0 | Dedicated to serial communication | 64 points | | | - | |
| Field Network Type | | RPCON-20P | Dedicated to field network | 768 points | | | - | → P503 |
| Program Control Type | | PSEL-C-1-20PI-NP-2-0 | Programmed operation is possible Operation is possible on up to 2 axes | | | | - | → P557 |

IAI

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