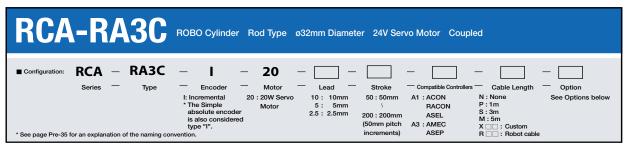


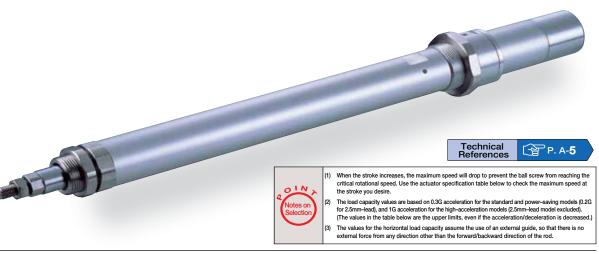
PMEC /AMEC PSEP /ASEP ROBO NET ERC2 PCON ACON SCON PSEL ASEL



For High Acceleration/Deceleration

Power-saving

(Except the 2.5mm-lead model)



| | Actuator Specifications | | | | | | | | |
|---|---|------------|------|-----------------|---------------|------------|--------------------------------|--------------|-------------------|
| | ■ Lead and Load Capacity | | | | | | | ■ Stroke and | d Maximum Speed |
| | Model | Motor | Lead | | Capacity | Rated | Stroke | Stroke | 50 ∼ 200 |
| | | Output (w) | (mm) | Horizontal (kg) | Vertical (kg) | Thrust (N) | (mm) | Lead | (50mm increments) |
| | RCA-RA3C-I-20-10-①-②-③-④ | | 10 | 4.0 | 1.5 | 36.2 | 50~200 (50mm increments) | 10 | 500 |
| | RCA-RA3C-I-20-5-①-②-③-④ | 20 | 5 | 9.0 | 3.0 | 72.4 | | 5 | 250 |
| | RCA-RA3C-I-20-2.5-①-②-③-④ | | 2.5 | 18.0 | 6.5 | 144.8 | | 2.5 | 125 |
| Ī | egend Stroke Compatible controllers Cable lengt | h 4 Opt | ions | | | | | | (Unit: mm/s) |

① Stroke List

| Stroke (mm) | Standard Price |
|-------------|----------------|
| 50 | - |
| 100 | - |
| 150 | - |
| 200 | - |

| | 3 | Cable | List | |
|---|---|-------|------|--|
| = | | | | |

Actuator Specifications

| Туре | Cable Symbol | Standard Price |
|-----------------|-----------------------|----------------|
| | P (1m) | - |
| Standard | S (3m) | - |
| | M (5m) | - |
| | X06 (6m) ~ X10 (10m) | - |
| Special Lengths | X11 (11m) ~ X15 (15m) | - |
| | X16 (16m) ~ X20 (20m) | - |
| Robot Cable | R01 (1m) ~ R03 (3m) | - |
| | R04 (4m) ~ R05 (5m) | - |
| | R06 (6m) ~ R10 (10m) | _ |
| | R11 (11m) ~ R15 (15m) | - |
| | R16 (16m) ~ R20 (20m) | _ |

^{*} See page A-39 for cables for maintenance.

| Name | Option Code | See Page | Standard Price | |
|-------------------------------------|-------------|----------|----------------|--|
| Brake | В | → A-25 | - | |
| Foot bracket | FT | → A-29 | _ | |
| Flange bracket (front) | FL | → A–27 | _ | |
| Flange bracket (back) | FLR | → A–28 | - | |
| High-acceleration/deceleration (*1) | HA | → A–32 | - | |
| Home sensor (*2) | HS | → A-32 | - | |
| Power-saving (*3) | LA | → A–32 | - | |
| Knuckle joint | NJ | → A-34 | - | |
| Reversed-home | NM | → A-33 | - | |
| Trunnion bracket (front) | TRF | → Δ_38 | _ | |

(*1) The high-acceleration/deceleration option is not available for 2.5mm-lead model.
(*2) The home sensor (HS) cannot be used on the reversed-home models.
(*3) The high acceleration/deceleration option and the power-saving option cannot be used simultaneously.

 \rightarrow A–38

TRR

197 RCA-RA3C

Trunnion bracket (back)

4 Option List

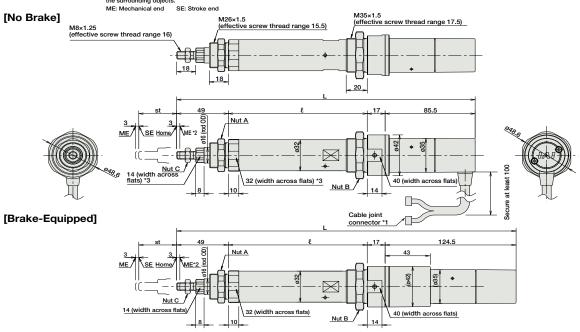
| Item | Description | | | | |
|----------------------------------|--|--|--|--|--|
| Drive System | Ball screw ø8mm C10 grade | | | | |
| Positioning Repeatability | ±0.02mm | | | | |
| Lost Motion | 0.1mm or less | | | | |
| Base | Material: Aluminum (white alumite treated) | | | | |
| Rod Diameter | ø16mm | | | | |
| Non-rotating accuracy of rod | ±1.0 deg | | | | |
| Ambient Operating Temp./Humidity | 0~40°C, 85% RH or less (non-condensing) | | | | |





A motor-encoder cable is connected here. See page A-39 for details on cables. When homing, the rod moves to the ME; therefore, please watch for any interference with the surrounding objects.

*3. The orientation of the bolt will vary depending on the product.



| Dimensions of Nut A | Dimensions of Nut B | Dimensions of Nut C |
|---------------------|---------------------|---------------------|
| M26x1.5 | M35x1.5 | M8×1.25 |

■ Dimensions/Weight by Stroke RCA-RA3C (without brake)

50 100 150 200 Stroke 283.5 333.5 383.5 433.5 132 182 232 282 Weight (kg) 0.7 0.8 0.9 1.0

RCA-RA3C (with brake) 50 100 150 200 322.5 372.5 422.5 472.5 132 182 232 282 0.9 1.0 1.1 1.2

② Compatible Controllers

The RCA series actuators can operate with the controllers below. Select the controller according to your usage.

| Name | External View | Model | Description | Max. Positioning Points | Input Voltage | Power Supply Capacity | Standard Price | See Page |
|--|---|---|--|-------------------------|-------------------------|-----------------------|----------------|----------|
| Solenoid Valve Type | (A) | AMEC-C-20SI ① -NP-2-1 | Easy-to-use controller, even for beginners | 3 points | AC100V | 2.4A rated | - | → P477 |
| Colenoid valve Type | 1 | ASEP-C-20SI ① -NP-2-0 | Operable with same signal as solenoid valve. Supports both single and double solenoid types. | | | | - | → D497 |
| Splash-Proof Solenoid Valve Type | | ASEP-CW-20SI ① -NP-2-0 | No homing necessary with simple absolute type. | | | | - | → P487 |
| Positioner Type | E | ACON-C-20SI ① -NP-2-0 | Positioning is possible for up to 512 points | 512 points | | | - | |
| Safety-Compliant Positioner Type | | ACON-CG-20SI ① -NP-2-0 | r ositioning is possible for up to 512 points | | | | - | |
| Pulse Train Input Type (Differential Line Driver) | rain Input Type a CON-PO-20SI ① -NP-2-0 ACON-PO-20SI ① -NP-2-0 | Pulse train input type with differential line driver support | (-) | DC24V | 1.7A rated 5.1A peak | - | → P535 | |
| Pulse Train Input Type (Open Collector) | | ACON-PO-20SI ① -NP-2-0 | Pulse train input type with open collector support | (-) | | | - | |
| Serial Communication Type | | Dedicated to serial communication | 64 points | | | - | | |
| Field Network Type | | RACON-20S① | Dedicated to field network | 768 points | | | - | → P50 |
| Program Control Type | | ASEL-C-1-20SI ① -NP-2-0 | Programmed operation is possible Operation is possible on up to 2 axes | 1500 points | | | - | → P56 |

IAI

RCA-RA3C 198



Standard
Controllers
Integrated
Rod
Type
Mini
Standard
Controllers
Integrated
able/Arm
Flat Type

PMEC AMEC PSEP ASEP ROBO NET ERC2 PCON ACON PSEL ASEL SSEL

^{*} ① is a placeholder for the code "HA" or "LA" if the high acceleration/deceleration option or the power-saving option is specified.