Mini
Standard
Controllers
Integrated

Rod
Type

Mini
Standard

Controllers
Integrated

Table/Arm
/Flat Type

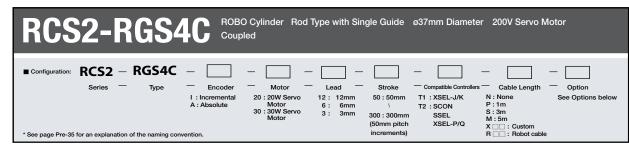
Mini
Standard

Splash Proo

Controllers

PMEC
/AMEC
PSEP
/ASEP

ROBO
NET
ERC2
PCON
ACON
SCON
PSEL
ASEL
XSEL



For High Acceleration/Deceleration



Actuator Specifications

| ■ Lead and Load Capacity | | | | | | | | | |
|----------------------------------|------------|------|--------------------|---------------|------------|-------------------|--|--|--|
| Model | | Lead | Max. Load Capacity | | Rated | Stroke | | | |
| *** | Output (w) | (mm) | Horizontal (kg) | Vertical (kg) | Thrust (N) | (mm) | | | |
| RCS2-RGS4C-①-20-12-②-③-④-⑤ | | 12 | 3.0 | 0.5 | 18.9 | | | | |
| RCS2-RGS4C-①-20-6-②-③-④-⑤ | 20 | 6 | 6.0 | 1.5 | 37.7 | 50 ∼ 300 (50mm | | | |
| RCS2-RGS4C-①-20-3-②-③-④-⑤ | | 3 | 12.0 | 3.5 | 75.4 | | | | |
| RCS2-RGS4C-①-30-12-②-③-④-⑤ | | 12 | 4.0 | 1.0 | 28.3 | increments | | | |
| RCS2-RGS4C-①-30-6-②-③-④-⑤ | 30 | 6 | 9.0 | 2.5 | 56.6 | | | | |
| RCS2-RGS4C-1 -30-3-2 - 3 - 4 - 5 | | 3 | 18.0 | 6.0 | 113.1 | | | | |

■ Stroke and Maximum Speed

| Stroke Lead | $50 \sim 300$ (50mm increments) |
|----------------|---------------------------------|
| 12 | 600 |
| 6 | 300 |
| 3 | 150 |
| | (Unit: mm/s) |

Encoder & Stroke List

| | | Standa | rd Price | | | | |
|---------------|------------------|--------|------------------|-----|--|--|--|
| | ① Encoder | | | | | | |
| 2 Stroke (mm) | Incren | nental | Absolute | | | | |
| | Motor Output (W) | | Motor Output (W) | | | | |
| | 20W | 30W | 20W | 30W | | | |
| 50 | - | - | - | - | | | |
| 100 | - | - | - | - | | | |
| 150 | - | - | - | - | | | |
| 200 | - | - | | - | | | |
| 250 | - | - | - | - | | | |
| 300 | _ | _ | _ | _ | | | |

Legend: ① Encoder ② Stroke ③ Compatible controller ④ Cable length ⑤ Options

Cable List

| Туре | Cable Symbol | Standard Price |
|-----------------|-----------------------|----------------|
| | P (1m) | - |
| Standard | S (3m) | - |
| | M (5m) | - |
| Special Lengths | X06 (6m) ~ X10 (10m) | - |
| | 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) | - |

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

⑤ Option List

| Name | Option Code | See Page | Standard Price |
|-------------------------------------|-------------|----------|----------------|
| Brake | В | → A-25 | _ |
| Foot bracket | FT | → A-29 | - |
| High-acceleration/deceleration (*1) | HA | → A-32 | _ |
| Home sensor (*2) | HS | → A-32 | - |
| Reversed-home | NM | → A-33 | _ |
| Trunnion bracket (back) | TRR | → A-38 | _ |

^(*1) The high-acceleration/deceleration option is not available for all 20W models and 30W model with 3mm lead.

(*2) The home sensor (HS) cannot be used on the reversed-home models.

Actuator Specifications

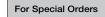
| Item | Description | | |
|----------------------------------|---|--|--|
| Drive System | Ball screw ø10mm C10 grade | | |
| Positioning Repeatability | ±0.02mm | | |
| Lost Motion | 0.1mm or less | | |
| Guide | Single guide (guide rod diameter ø10mm, Ball bush type) | | |
| Rod Diameter | ø20mm | | |
| Non-rotating accuracy of rod | ±0.05 deg | | |
| Ambient Operating Temp./Humidity | 0 ~ 40°C, 85% RH or less (non-condensing) | | |

249



Bracket A

hrough

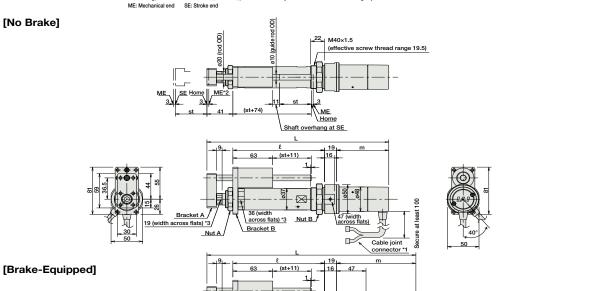


P. A-9

The 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



M

Nut B

47 (width across flats)

36 (width across flats)
Bracket B

Nut B

Bracket A 19 (width across flats)

Nut A M30×1.5

Bracket B 4-M5

29 37

■ Dimensions/Weight by Stroke

RCS2-RGS4C (without brake)

| Stroke | | 50 | 100 | 150 | 200 | 250 | 300 |
|-------------|-----|-------|-------|-------|-------|-------|-------|
| | 20W | 285.5 | 335.5 | 385.5 | 435.5 | 485.5 | 535.5 |
| _ | 30W | 300.5 | 350.5 | 400.5 | 450.5 | 500.5 | 550.5 |
| ٤ | | 145 | 195 | 245 | 295 | 345 | 395 |
| | 20W | 80.5 | | | | | |
| m | 30W | 95.5 | | | | | |
| Weight (kg) | | 1.5 | 1.6 | 1.8 | 2.0 | 2.2 | 2.4 |
| | | | | | | | |

RCS2-RGS4C (with brake)

| S | troke | 50 | 100 | 150 | 200 | 250 | 300 |
|------|----------|-------|-------|-------|-------|-------|-------|
| - | 20W | 328.5 | 378.5 | 428.5 | 478.5 | 528.5 | 578.5 |
| _ | 30W | 343.5 | 393.5 | 443.5 | 493.5 | 543.5 | 593.5 |
| e t | | 145 | 195 | 245 | 295 | 345 | 395 |
| m | 20W | 123.5 | | | | | |
| 1111 | 30W | 138.5 | | | | | |
| Wei | ght (kg) | 1.7 | 1.8 | 2.0 | 2.2 | 2.4 | 2.6 |

③ Compatible Controllers The RCS2 series actuators can operate with the controllers below. Select the controller according to your usage. for up to 512 points Operable with the same Solenoid Valve Mode controls as the solenoid 7 points SCON-C-20①-NP-2-③ Single-Phase AC 100V → P547 SCON-C-30D(1)(2)-NP-2-(3) Dedicated to serial Maximum 64 points Type communication 360VA Single-Phase AC 200V Single-axis model Pulse Train Input Dedicated to Pulse Trai 3-Phase AC operated at 150W 200V Programmed operation SSEL-C-1-20①-NP-2-③ Program Control 1-2 is possible 20000 points → P577 Axes Type SSEL-C-1-30D 1 2-NP-2-3 Operation is possible of Programmed operatio XSEL-@-1-20①-N1-EEE-2-⑤ XSEL-@-1-30D①②-N1-EEE-2-⑤ Axes Type up to 6 axes

- *For SSEL and XSEL, only applicable to the single-axis model.

 *① is a placeholder for the encoder type (I: incremental / A: absolute).

 *② is a placeholder for the code "HA" if the high-acceleration/deceler

- \$\times \text{ is a placeholder for the power supply voltage (1: 100\text{, 2: single-phase 200V).}

 \$\times \text{ is a placeholder for the power supply voltage (1: 100\text{, 2: single-phase 200V).}

 \$\times \text{ is a placeholder for the XSEL type name ("J", "K", "P", "Q").

 \$\times \text{ is a placeholder for the power supply voltage (1: 100\text{, 2: single-phase 200V, or 3: three-phase 200V).}

 \$\times \text{ is a placeholder for the power supply voltage (1: 100\text{, 2: single-phase 200V, or 3: three-phase 200V).}

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 \$\text{ is a placeholder for the power supply voltage (1: 100\text{, 2: single-phase 200V, or 3: three-phase 200V).}

 \$\text{ is a placeholder for the power supply voltage (1:

IAI

