

YK300XGS

Wall mount / inverse type

● Arm length 300mm ● Maximum payload 5kg Note. Built-to-order product. Contact us for the delivery period.

Ordering method

YK300XGS **150** **RCX340-4**

| Model | Installation method ^{Note 1} | Z axis stroke | Tool flange | Hollow shaft | Cable | Controller / Number of controllable axes | Safety standard | Option A (OP.A) | Option B (OP.B) | Option C (OP.C) | Option D (OP.D) | Option E (OP.E) | Absolute battery |
|-------|--|---------------|---------------------------------------|--|--------------------------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| | W: Wall mount (same as per external view) U: Inverse wall mount (upside down) | 150: 150mm | No entry: None F: With tool flange | No entry: None S: With hollow shaft | 3L: 3.5m 5L: 5m 10L: 10m | | | | | | | | |

Specify various controller setting items. RCX340 ▶ **P.678**

Note 1. When installing the robot, always follow the specifications.
Do not install the ceiling-mount robot upside down or do not install the inverse type robot to a ceiling.
Incorrect installation can cause trouble or malfunction.

Specifications

| Axis specifications | Arm length | X-axis | Y-axis | Z-axis | R-axis |
|---------------------|---|--|------------|---|------------|
| | Rotation angle | 150 mm | 150 mm | 150 mm | - |
| | AC servo motor output | +/-120 ° | +/-130 ° | - | +/-360 ° |
| | Deceleration mechanism | 200 W | 150 W | 50 W | 100 W |
| | Transmission method | Direct-coupled | | | |
| | Motor to speed reducer | Direct-coupled | | | |
| | Speed reducer to output | Direct-coupled | | | |
| | Repeatability ^{Note 1} | +/-0.01 mm | +/-0.01 mm | +/-0.01 mm | +/-0.004 ° |
| | Maximum speed | 4.4 m/sec | 1.0 m/sec | 1020 °/sec (wall mount) 720 °/sec (inverse wall mount) | |
| | Maximum payload | 5 kg (Standard specification), 4 kg (Option specifications ^{Note 4}) | | | |
| | Standard cycle time: with 2kg payload ^{Note 2} | 0.49 sec | | | |
| | R-axis tolerable moment of inertia ^{Note 3} | 0.05 kgm ² | | | |
| | User wiring | 0.2 sq × 10 wires | | | |
| | User tubing (Outer diameter) | φ 4 × 3 | | | |
| | Travel limit | 1. Soft limit 2. Mechanical stopper (X,Y,Z axis) | | | |
| | Robot cable length | Standard: 3.5 m Option: 5 m, 10 m | | | |
| | Weight | 19.5 kg | | | |

Note 1. This is the value at a constant ambient temperature.
Note 2. When reciprocating 25mm horizontally and 300mm horizontally (with a 2kg payload in rough-positioning arch motion).
Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.
Note 4. Maximum payload of option specifications (with tool flange attached or with user wiring and tubing routed through spline shaft) is 4kg.

Controller

| Controller | Power capacity (VA) | Operation method |
|------------|---------------------|--|
| RCX340 | 1000 | Programming / I/O point trace / Remote command / Operation using RS-232C communication |

Note. The movement range can be limited by changing the position of Y axis mechanical stopper. (The movement range is set to the maximum at the time of shipment.)
See our robot manuals (installation manuals) for detailed information.

Our robot manuals (installation manuals) can be downloaded from our website at the address below:
<https://global.yamaha-motor.com/business/robot/>

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