

RCX240S

Arm length 120mm
Maximum payload 1kg

■ Ordering method

YK120XG - 50

- Z axis stroke - Cable

| - |                    | I  | RCX340-4-   |  |  |  |  |
|---|--------------------|--|---|--|--|--|--|
| - | Cable<br>2L: 2m    |  | Controller / Safety standard (OP.A) Option B (OP.B) Option C Option D (OP.C) Option D (OP.C) Option D Option D (OP.C) OP.D) Option D Option E battery |  |  |  |  |
|   | 3L: 3.5m<br>5L: 5m | Specify various controller setting items. RCX340 ▶ P.508 |   |  |  |  |  |
| - | 10L: 10m           | 1  | DCV240C DD  |  |  |  |  |

CE Marking - Expansion I/O - Network option - iVY System - Gripper - Battery Specify various controller setting items. RCX240/RCX240S ▶ P.495

| ■ Specifications                               |                |                         |  |                |            |                |
|--|----------------|-------------------------|--|----------------|------------|----------------|
|  |                |                         | X-axis   | Y-axis         | Z-axis     | R-axis         |
| Axis   | Arm length     |                         | 45 mm  | 75 mm          | 50 mm      | -              |
| specifications                                 | Rotation ang   | le                      | +/-125 °   | +/-145 °       | -          | +/-360 °       |
| AC servo mot                                   | or output      |                         | 30 W   | 30 W           | 30 W       | 30 W           |
|  | Speed reducer  |                         | Harmonic drive   | Harmonic drive | Ball screw | Harmonic drive |
| Deceleration<br>mechanism                      | Transmission   | Motor to speed reducer  | Direct-coupled   |                |            |                |
| meenamen                                       | method         | Speed reducer to output | Direct-coupled   |                |            |                |
| Repeatability Note 1                           |                |                         | +/-0.01 mm +/-0.01 mm +/-0.004                         |                | +/-0.004 ° |                |
| Maximum spe                                    | ed             |                         | 3.3 m/sec 0.9 m/sec 1700 °/se                          |                | 1700 °/sec |                |
| Maximum payload                                |                |                         | 1.0 kg   |                |            |                |
| Standard cycle time: with 0.1kg payload Note 2 |                |                         | 0.33 sec   |                |            |                |
| R-axis tolerable moment of inertia Note 3      |                |                         | 0.01 kgm <sup>2</sup>                                  |                |            |                |
| User wiring                                    |                |                         | 0.1 sq × 8 wires                                       |                |            |                |
| User tubing (0                                 | Outer diameter | r)                      | ф 4 × 2  |                |            |                |
| Travel limit                                   |                |                         | 1.Soft limit 2.Mechanical stopper (X,Y,Z axis)         |                |            |                |
| Robot cable length                             |                |                         | Standard: 2 m Option: 3.5 m, 5 m, 10 m                 |                |            |                |
| Weight (Excluding robot cable) Note 4          |                |                         | 3.9 kg   |                |            |                |
| Robot cable weight                             |                |                         | 0.9 kg (2 m) 1.5 kg (3.5 m) 2.1 kg (5 m) 4.2 kg (10 m) |                |            |                |

| ■ Controller      |                     |   |  |  |  |  |  |
|-------------------|---------------------|---|--|--|--|--|--|
| Controller        | Power capacity (VA) | Operation method  |  |  |  |  |  |
| RCX340<br>RCX240S | 300                 | Programming /<br>I/O point trace /<br>Remote command /<br>Operation<br>using RS-232C<br>communication |  |  |  |  |  |

Note. "Harmonic" and "Harmonic drive" are the registered trademarks of Harmonic Drive Systems Inc.

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

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

Note 1. This is the value at a constant ambient temperature. (X,Y axes)

Note 2. When moving 25mm in vertical direction and 100mm in horizontal direction reciprocally

Note 3. There are limits to acceleration coefficient settings. See P.536.

Note 4. The total robot weight is the sum of the robot body weight and the cable weight.

