

# YK400XH

Standard type: Small type

● Arm length 400mm

● Maximum payload 3kg



## Ordering method

|              |                                                   |                                           |            |                                     |                                                                                              |                                                                                               |           |
|--------------|---------------------------------------------------|-------------------------------------------|------------|-------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------|
| Model        | Z axis stroke                                     | Cable length                              | Controller | Usable for CE                       | Expansion I/O <small>Note 2</small>                                                          | Network option                                                                                | Battery   |
| YK400XH- 150 | 150: 150mm<br>(MAX: 300mm <small>Note 1</small> ) | 3L: 3.5m (Standard)<br>5L: 5m<br>10L: 10m | RCX240     | No entry: Standard<br>E: CE marking | N: P: Standard I/O 16/8<br>N1, P1: 40/24<br>N2, P2: 64/40<br>N3, P3: 88/56<br>N4, P4: 112/72 | No entry: None<br>CC: CC-Link<br>DN: DeviceNet<br>PB: Profibus<br>EN: Ethernet<br>YC: YC-Link | BB: 4 pcs |

Note 1. The products with Z axis stroke of 200 mm or more are built to the order. Contact us for delivery, specifications, external appearance, etc.

Note 2. Use N to N4 when NPN is selected on the I/O board, and P to P4 when PNP is selected.

Note 3. Available only for the master.

## Specifications

|                                                                              |                     | X-axis                                         | Y-axis         | Z-axis                   | R-axis                   |
|------------------------------------------------------------------------------|---------------------|------------------------------------------------|----------------|--------------------------|--------------------------|
| Axis specifications                                                          | Arm length (mm)     | 225                                            | 175            | 150                      | -                        |
|                                                                              | Rotation angle (°)  | +/-115                                         | +/-140         | -                        | +/-360                   |
| AC servo motor output (W)                                                    |                     | 200                                            | 100            | 100                      | 100                      |
| Deceleration mechanism                                                       | Speed reducer       | Harmonic drive                                 | Harmonic drive | Ball screw               | Harmonic drive           |
|                                                                              | Transmission method | Motor to speed reducer                         | Direct-coupled | Timing belt transmission | Timing belt transmission |
|                                                                              |                     | Speed reducer to output                        | Direct-coupled | Direct-coupled           | Direct-coupled           |
| Repeatability <small>Note 1</small> (XYZ: mm) (R: °)                         |                     | +/-0.01                                        |                | +/-0.01                  | +/-0.005                 |
| Maximum speed (XYZ: m/sec) (R: °/sec)                                        |                     | 6.0                                            |                | 1.0                      | 1020                     |
| Maximum payload (kg)                                                         |                     | 3                                              |                |                          |                          |
| Standard cycle time: with 2kg payload <small>Note 2</small> (sec)            |                     | 0.49                                           |                |                          |                          |
| R-axis tolerable moment of inertia <small>Note 3</small> (kgm <sup>2</sup> ) |                     | 0.05                                           |                |                          |                          |
| User wiring (sq × wires)                                                     |                     | 0.2 × 10                                       |                |                          |                          |
| User tubing (Outer diameter)                                                 |                     | φ4 × 3                                         |                |                          |                          |
| Travel limit                                                                 |                     | 1.Soft limit 2.Mechanical stopper (X,Y,Z axis) |                |                          |                          |
| Robot cable length (m)                                                       |                     | Standard: 3.5 Option: 5,10                     |                |                          |                          |
| Weight (kg) (Excluding robot cable)                                          |                     | 15                                             |                |                          |                          |

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

Note 2. When reciprocating 300mm in horizontal and 25mm in vertical directions.

Note 3. There are limits to acceleration coefficient settings.

## Controller

| Controller | Power capacity (VA) | Operation method                                                                             |
|------------|---------------------|----------------------------------------------------------------------------------------------|
| RCX240     | 1000                | Programming / I/O point trace (BCD) / Remote command / Operation using RS-232C communication |

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