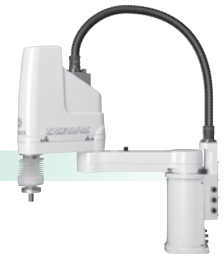


# YK600XP

Dust-proof & drip-proof type

- Arm length 600mm
- Maximum payload 10kg

Note. Built-to-order product.  
Contact us for the delivery period.



## Ordering method

|                |                          |   |                   |                                     |                          |  |   |                |
|----------------|--------------------------|---|-------------------|-------------------------------------|--------------------------|--|---|----------------|
| <b>YK600XP</b> |                          |   | <b>RCX240</b>     |                                     | <b>R</b>                 |  |   | <b>BB</b>      |
| <b>Model</b>   | <b>Z axis stroke</b>     | <b>Cable length</b>                       | <b>Controller</b> | <b>Usable for CE</b>                | <b>Regenerative unit</b> | <b>Expansion I/O</b>   | <b>Network option</b>   | <b>Battery</b> |
|                | 200: 200mm<br>300: 300mm | 3L: 3.5m (Standard)<br>5L: 5m<br>10L: 10m |                   | No entry: Standard<br>E: CE marking | R: RGU-2                 | 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. Use N to N4 when NPN is selected on the I/O board, and P to P4 when PNP is selected.  
Note 2. Available only for the master.

## Specifications

|   |                            | X-axis   | Y-axis         | Z-axis     | R-axis                   |
|---|----------------------------|--|----------------|------------|--------------------------|
| <b>Axis specifications</b>  | <b>Arm length (mm)</b>     | 350  | 250            | 200 300    | -                        |
|   | <b>Rotation angle (°)</b>  | +/-120   | +/-145         | -          | +/-360                   |
| <b>AC servo motor output (W)</b>  |                            | 400  | 200            | 200        | 100                      |
| <b>Deceleration mechanism</b>   | <b>Speed reducer</b>       | Harmonic drive                                 | Harmonic drive | Ball screw | Harmonic drive           |
|   | <b>Transmission method</b> | <b>Motor to speed reducer</b>                  | Direct-coupled |            | Timing belt transmission |
|   |                            | <b>Speed reducer to output</b>                 | Direct-coupled |            | Direct-coupled           |
| <b>Repeatability</b> <sup>Note 1</sup> (XYZ mm) (R °)                           |                            | +/-0.02  |                | +/-0.01    | +/-0.005                 |
| <b>Maximum speed</b> (XYZ m/sec) (R °/sec)                                      |                            | 5.6  |                | 1.7        | 876                      |
| <b>Maximum payload (kg)</b>   |                            | 10   |                |            |                          |
| <b>Standard cycle time with 2kg payload</b> <sup>Note 2</sup> (sec)             |                            | 0.56   |                |            |                          |
| <b>R-axis tolerable moment of inertia</b> <sup>Note 3</sup> (kgm <sup>2</sup> ) |                            | 0.12   |                |            |                          |
| <b>User wiring</b> (sq x wires)   |                            | 0.2 x 20                                       |                |            |                          |
| <b>User tubing</b> (Outer diameter)   |                            | φ6 x 3   |                |            |                          |
| <b>Travel limit</b>   |                            | 1.Soft limit 2.Mechanical stopper (X,Y,Z axis) |                |            |                          |
| <b>Robot cable length (m)</b>   |                            | Standard: 3.5 Option: 5,10                     |                |            |                          |
| <b>Weight (kg) (Excluding robot cable)</b>                                      |                            | 32   |                |            |                          |

Note 1. This is the value at a constant ambient temperature. (X,Y axes)  
Note 2. There are limits to acceleration coefficient settings.

## Controller

| Controller | Power capacity (VA) | Operation method   |
|------------|---------------------|--|
| RCX240-R   | 1500                | Programming / I/O point trace / Remote command / Operation using RS-232C communication |

APPLICATION  
Compact single-axis robots  
TRANSERVO  
Single-axis robots  
FLIP-X  
Linear motor single-axis robots  
PHASER  
Cartesian robots  
XY-X  
SCARA robots  
YK-XG  
Pick & place robots  
YP-X  
CLEAN  
CONTROLLER INFORMATION  
Ttry  
Small type  
Medium type  
Large type  
Ceiling-mount / Inverse type  
Dust-proof & drip-proof type

