

# YK150X

Standard Type

Arm length 150mm/Maximum payload 0.5kg

## Robot ordering method

**YK150X** - **30** - **3L** - **RCX142-T** - **N1** - **CC** - **S**

Model      Z axis stroke      Cable length      Controller      Expansion I/O      Network      Battery

30:30mm

Cable length  
 — 3L:3.5m  
 — 5L:5m  
 — 10L:10m

Controller type: Refer to the Controller Catalog for further details.

## Basic specifications

| Model                                      |                | YK150X                                            |        |
|--------------------------------------------|----------------|---------------------------------------------------|--------|
| Axis specifications                        | X axis         | Arm length                                        | 99.5mm |
|                                            |                | Rotation range                                    | ± 113° |
|                                            | Y axis         | Arm length                                        | 50.5mm |
|                                            |                | Rotation range                                    | ± 139° |
| Z axis                                     | Stroke         | 30mm                                              |        |
| R axis                                     | Rotation range | ± 180°                                            |        |
| Motor                                      | X axis         | 15W                                               |        |
|                                            | Y axis         | 13W                                               |        |
|                                            | Z axis         | 13W                                               |        |
|                                            | R axis         | 13W                                               |        |
| Maximum speed                              | X, Y combined  | 2.1m / s                                          |        |
|                                            | Z axis         | 0.7m / s                                          |        |
|                                            | R axis         | 1700° / s                                         |        |
| Repeatability*1                            | X, Y axis      | ± 0.005mm                                         |        |
|                                            | Z axis         | ± 0.01mm                                          |        |
|                                            | R axis         | ± 0.006°                                          |        |
| Max. payload                               |                | 0.5kg                                             |        |
| Standard cycle time (with 0.1kg payload)*3 |                | 0.45 sec.                                         |        |
| R axis allowable moment inertia*2          |                | 0.02kgfcm <sup>2</sup>                            |        |
| User wiring                                |                | 0.1sq x 6 wires                                   |        |
| User tubing                                |                | ø3 x 2                                            |        |
| Movement limit setting                     |                | 1. Soft limit, 2. Mechanical limit (X, Y, Z axes) |        |
| Robot cable                                |                | Standard 3.5m Option: 5m, 10m                     |        |
| Controller, Power supply capacity          |                | RCX142-T, 300VA                                   |        |
| Weight                                     |                | 3.1kg                                             |        |



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\*1: This is the value at a constant ambient temperature. (X, Y axes)  
 \*2: There are limits to the setting of the acceleration coefficient.  
 \*3: When reciprocating 100 mm in horizontal and 25 mm in vertical directions.

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