

YK180X

Standard Type

Arm length 180mm/Maximum payload 1kg

Robot ordering method

YK180X - 100 - 3L - RCX142 - E - N1 - CC - S

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

100:100mm
3L:3.5m
5L:5m
10L:10m

Blank-Standard
E-CE specification

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

Basic specifications

| Model | | YK180X | |
|--|----------------|----------------|---|
| Axis specifications | X axis | Arm length | 71mm |
| | | Rotation range | ± 120° |
| | Y axis | Arm length | 109mm |
| | | Rotation range | ± 140° |
| Z axis | Stroke | 100mm | |
| R axis | Rotation range | ± 180° | |
| Motor | X axis | | 50W |
| | Y axis | | 30W |
| | Z axis | | 30W |
| | R axis | | 30W |
| Maximum speed | X, Y combined | | 3.3m / s |
| | Z axis | | 0.7m / s |
| | R axis | | 1700° / s |
| Repeatability*1 | X,Y axis | | ± 0.01mm |
| | Z axis | | ± 0.01mm |
| | R axis | | ± 0.01° |
| Max. payload | | | 1.0kg |
| Standard cycle time (with 0.1kg payload)*2 | | | 0.39 sec. |
| R axis allowable moment inertia*3 | | | 0.1kgfcm ² |
| User wiring | | | 0.1sq × 6 wires |
| User tubing | | | ø3 × 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, 500VA |
| Weight | | | 7kg |

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



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Connector for user cables (Adapted to #1 to 6)
Use YC12 for the press-fitting device with the SM connector SMR-6V-B pin SYM-001T-P0.6 made by J. S. T. Mfg Co., Ltd.

