

XY-axis Cross Roller Guide: KYC04015/KYC06020

RoHS

KYC04015-C



KYC04015-PA



KYC06020-C



KYC06020-F



KYC06020-G



KYC06020-PA



Motorized Stage

X

XY

Z

Horizontal Z

XYZ

Goniometer

Rotary

Unit

Controller

Linear Ball

CAVE-X Linear ball

Cross Roller

Slide Guide

φ40

φ50

φ60

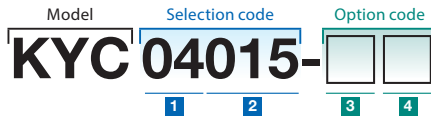
φ70

φ80

φ100

φ120

Other



● Cable P.1-207~
● Electrical specification P.1-091~

1 Table size

| | |
|----|-------------------------------|
| 04 | <input type="checkbox"/> 40mm |
| 06 | <input type="checkbox"/> 60mm |

* Not available 04020 and 06015

2 Travel length

| | |
|-----|------|
| 015 | 15mm |
| 020 | 20mm |

3 Motor option

| Code | Specification |
|------|---|
| C | Standard |
| F | High-torque |
| G | High resolution |
| PA | <input type="checkbox"/> 28 α Step (Driver set) |

* PA can choose only cable code P. Cannot choose the blank.

* In case of KYC04, can be chosen only C and PA.

4 Cable option

| Code | Specification | Cable type |
|-------|--|------------|
| A | 2m | D214-2-2E |
| B | 2m One end loose | D214-2-2EK |
| C | 4m | D214-2-4E |
| D | 4m One end loose | D214-2-4EK |
| E | Only connector (Cable is not included) | — |
| F | Robot cable 2m | D214-2-2R |
| G | Robot cable 2m one end loose | D214-2-2RK |
| H | Robot cable 4m | D214-2-4R |
| J | Robot cable 4m one end loose | D214-2-4RK |
| Blank | Cable is not included (Standard) | — |
| P | Cable for α step 3m | — |

* One end loose position to only stage opposite side.

* If you choose the option specification, please add the difference to standard price.

* See page ● P.1-207, 209~ for more cable details.

* Please select "Code A, C, F or H" when connect with stepping motor controller(DS102/112).

SPEC

| Model | KYC04015-C | KYC04015-PA | KYC06020-C | KYC06020-F | KYC06020-G | KYC06020-PA | |
|--------------------------------------|--------------------------------------|-----------------------------|--------------------------|-----------------------------|------------|------------------------------|-----------------------|
| Travel length | 15mm | | 20mm | | | | |
| Table size | 40×40mm | | 60×60mm | | | | |
| Feed screw (Ball screw) | φ6 lead 1 | | φ8 lead 1 | | | | |
| Guide | Crossed roller guide | | | | | | |
| Main materials-Finishing | Aluminum—Black almite finishing | | | | | | |
| Weight | 0.63kg | 0.73kg | 0.90kg | 1.10kg | 0.90kg | 1.00kg | |
| Resolution (Pulse) | Full/Half | 2 μm/1 μm | 1 μm (Set to 1000P/R) | 2 μm/1 μm | | 1 μm/0.5 μm | 1 μm (Set to 1000P/R) |
| | Microstep | 0.1 μm (1/20 on resolution) | — | 0.1 μm (1/20 on resolution) | | 0.05 μm (1/20 on resolution) | — |
| MAX speed | 10mm/sec | | 20mm/sec | | | | |
| Load capacity | 4.5kgf [44.1N] | | | | | | |
| Perpendicularity | Within 7.5 μm/Full stroke | | Within 10 μm/Full stroke | | | | |
| Pitching/Yawing | Within 25"/Within 20" | | Within 20"/Within 15" | | | | |
| Limit sensor | — | | Installed | | | | |
| | — | | Installed | | | | |
| | — | | — | | | | |
| Provided screw (Hexagon-headed bolt) | 4 of M3—16 | | 4 of M4—16 | | | | |
| Single-axis accuracy specification | Uni-directional positioning accuracy | Within 10 μm | | Within 5 μm | | | |
| | Repeatability positioning accuracy | Within ±0.5 μm | | Within ±0.3 μm | | | |
| | Lost motion | — | | Within 1 μm | | | |
| | Backlash | — | | Within 0.5 μm | | | |
| | Straightness | — | | Within 3 μm | | | |

※ Motor code [C·F·G] not include the cable. Choose the cable from cable code table.

※ Motor code [PA] includes the driver, motor and sensor cable.