## Z-axis Cross Roller Guide: KZC04015/KZC06020





KZC06020-PA





Cable P.1-207  $\sim$  Electrical specification P.1-091  $\sim$ 



| 04                                      | □40mm |  |  |
|---|-------|--|--|
| 06                                      | □60mm |  |  |
| *************************************** |       |  |  |

Not available 04020 and 06015

2 Travel length

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

## 3 Motor option

| Code | Specification          |  |  |
|------|------------------------|--|--|
| С    | Standard               |  |  |
| F    | High-torque            |  |  |
| G    | High resolution        |  |  |
| PA   | 28 a Step (Driver set) |  |  |

- \* PA can choose only cable code P. Cannot
- In case of KZC04, can be choosen only C

| 4 | Cable option |
|---|--------------|
|   |              |

| Code  | Specification                          | Cable type |  |
|-------|--|------------|--|
| Α     | 2m                                     | D214-2-2E  |  |
| В     | 2m One end loose                       | D214-2-2EK |  |
| С     | 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 |  |
| Н     | Robot cable 4m                         | D214-2-4R  |  |
| J     | Robot cable 4m one end loose           | D214-2-4RK |  |
| Blank | Cable is not included (Standard)       | _          |  |
| Р     | 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 (DS 102/112).

|                                    | SPEC                                 |                  |  |                      |                       |                |                             |                      |
|------------------------------------|--------------------------------------|------------------|--|----------------------|-----------------------|----------------|-----------------------------|----------------------|
| Model                              |                                      |                  | KZC04015-C                                       | KZC04015-PA          | KZC06020-C            | KZC06020-F     | KZC06020-G                  | KZC06020-PA          |
| Mechanical specification           | Travel length                        |                  | 15mm   |                      | 20mm                  |                |                             |                      |
|                                    | Table size                           |                  | 40×40mm  |                      | 60×60mm               |                |                             |                      |
|                                    | Feed screw (Ball screw)              |                  | φ6 lead 1 φ8 lead 1                              |                      |                       |                |                             |                      |
|                                    | Guide                                |                  | Crossed roller guide                             |                      |                       |                |                             |                      |
| 의 <u>a</u>                         | Main materials-Finishing             |                  | Aluminum–Black almite finishing                  |                      |                       |                |                             |                      |
|                                    | Weight                               |                  | 0.38kg   | 0.43kg               | 0.80kg                | 0.90kg         | 0.80kg                      | 0.85kg               |
|                                    | Resolution                           | Full/Half        | 2μm/1μm  | 1μm (Set to 1000P/R) | 2μm                   | /1μm           | 1μm/0.5μm                   | 1μm (Set to 1000P/R) |
| sp A                               | (Pulse)                              | Microstep        | 0.1µm (1/20 on resolution)                       | _                    | 0.1μm (1/20           | on resolution) | 0.05μm (1/20 on resolution) | _                    |
| Accuracy                           | MAX speed                            |                  | 10mr   | n/sec                | 20mm/sec              |                |                             |                      |
| cati                               | Load capacity (Excitation)           |                  | 3.0kgf [29.4N]                                   |                      |                       |                |                             |                      |
| 9 <                                | Vertical degree                      |                  | Within 7.5μm/Full stroke Within 10μm/Full stroke |                      |                       |                |                             |                      |
|                                    | Pitching/Yawing                      |                  | Within 25"                                       | /Within 20"          | Within 20"/Within 15" |                |                             |                      |
| Se                                 | Limit sensor                         |                  | Installed  |                      |                       |                |                             |                      |
| Sensor                             | Origin sensor                        |                  | Installed  |                      |                       |                |                             |                      |
|                                    | Slit origin senso                    |                  |  |                      | -                     | _              |                             |                      |
| Prov                               | rided screw (Hexag                   | gon-headed bolt) | 4 of N   | 4 of M3-8 4 of M4-10 |                       |                |                             |                      |
|                                    |                                      |                  |  |                      |                       |                |                             |                      |
|                                    | Uni-directional positioning accuracy |                  | Within 10µm                                      |                      | Within 5µm            |                |                             |                      |
| Single                             | Repeatability positioning accuracy   |                  | Within ±0.5μm                                    |                      | Within ±0.3µm         |                |                             |                      |
| gle axis accuracy<br>specification | Lost motion                          |                  | Within 1µm                                       |                      |                       |                |                             |                      |
|                                    | Backlash                             |                  | Within 0.5μm                                     |                      |                       |                |                             |                      |
|                                    | Straightness                         |                  | Within 3μm                                       |                      |                       |                |                             |                      |

 ${\rm \#Motor\ code\ [C+F+G]}$  not include the cable. Choose the cable from cable code table.  ${\rm \#Motor\ code\ [PA]}$  includes the driver, motor and sensor cable.

RoHS