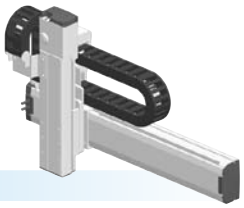
# MXYx 2 axes / ZFH

XZ type | Cable carrier | Z-axis: clamped table / moving base type (200W)



## Ordering method

| MXYx - C - | | - ZFH - | | | - RCX222 - | | - R - | | |
|---|---|---|---|---|---|---|---|---|---|
| Model | Cable | Combination | X-axis stroke | Z-axis stroke | Cable | Controller | Usable for CE | Regeneratine unit | Input/Output selection 1 | Input/Output selection 2 |
| | | F1<br>F3 | 15 to 105cm | 15 to 35cm | 3L: 3.5m<br>5L: 5m<br>10L: 10m | RCX222 | No entry: Standard<br>E: CE marking | R: RG2 | N: NPN Note 1<br>P: PNP<br>CC: CC-Link<br>DN: DeviceNet™<br>PB: PROFIBUS<br>EN: Ethernet<br>YC: YC-Link Note 2 | No entry: None<br>N1: OP.DIO24/16 (NPN) Note 1<br>P1: OP.DIO24/17 (PNP)<br>EN: Ethernet Note 3 |

Note 1. NPN cannot be selected if using CE marking.
Note 2. Available only for the master. See P.54 for details on YC-Link system.
Note 3. Only when CC or DN or PB was selected for I/O select 1 above. EN can be selected in I/O select 2.

## Specification

| | X-axis | Z-axis |
|---|---|---|
| Axis construction Note 1 | F14H | F10-BK equivalent guide-reinforced model |
| AC servo motor output (W) | 200 | 200 |
| Repeatability Note 2 (mm) | +/-0.01 | +/-0.01 |
| Drive system | Ball screw (Class C7) | Ball screw (Class C7) |
| Ball screw lead (Deceleration ratio) (mm) | 20 | 10 |
| Maximum speed Note 3 (mm/sec) | 1200 | 600 |
| Moving range (mm) | 150 to 1050 | 150 to 350 |
| Robot cable length (m) | Standard: 3.5 Option: 5,10 | |

Note 1. Use caution that the flame machining (installation holes, tap holes) differs from single-axis robots'.
Note 2. Positioning repeatability in one direction.
Note 3. When the X-axis stroke is longer than 750mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.

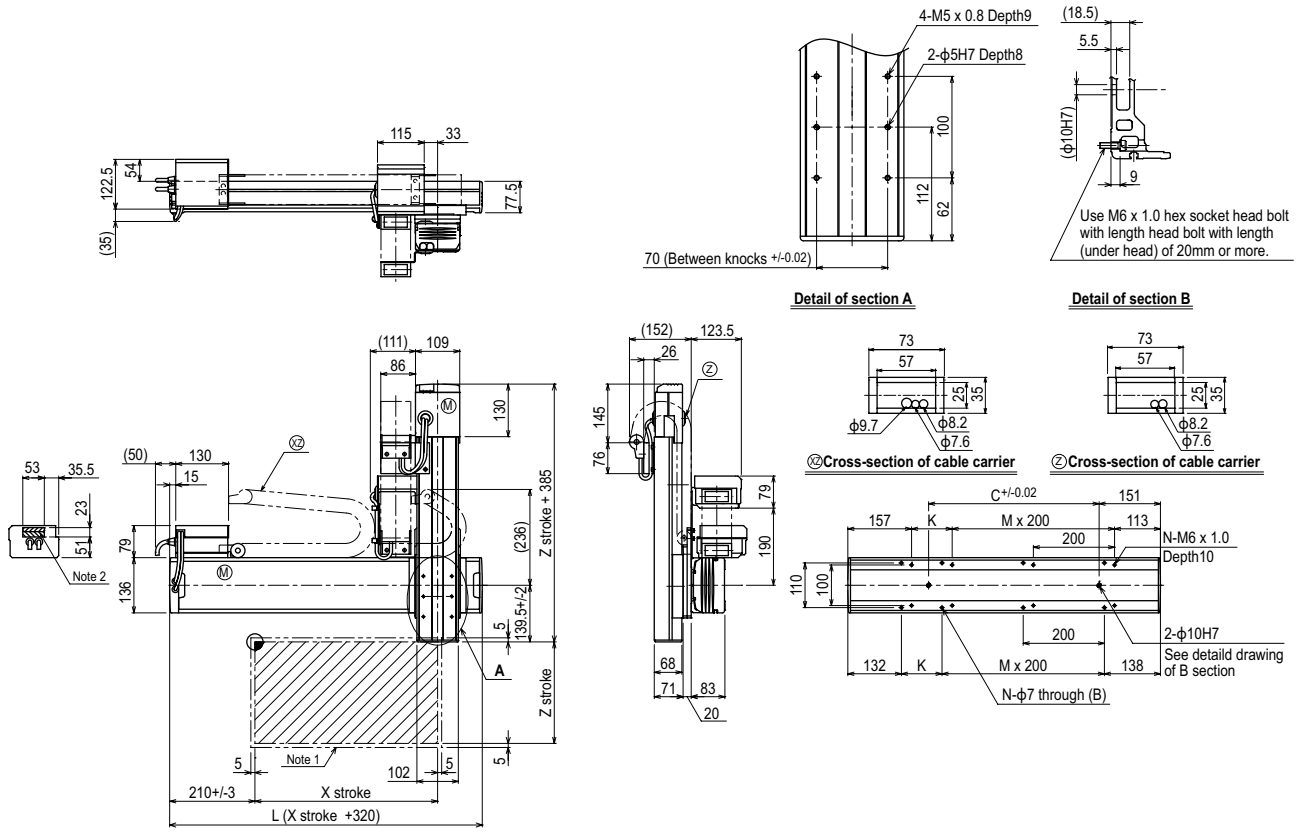
## Maximum payload (kg)

| | Z stroke (mm) | | |
|---|---|---|---|
| X stroke (mm) | 150 | 250 | 350 |
| 150 to 1050 | 14 | 13 | 12 |

## Controller

| Controller | Operation method |
|---|---|
| RCX222-R | Programming / I/O point trace / Remote command / Operation using RS-232C communication |

## MXYx 2 axes / ZFH F1




| X stroke | 150 | 250 | 350 | 450 | 550 | 650 | 750 | 750 | 850 | 950 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 470 | 570 | 670 | 770 | 870 | 970 | 1070 | 1170 | 1270 | 1370 | |
| K | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 | |
| C | 240 | 240 | 420 | 420 | 600 | 600 | 780 | 960 | 960 | 1140 | |
| M | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | |
| N | 4 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | |

| Z stroke | | 150 | 250 | 350 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Maximum speed for each stroke (mm/sec) Note 3 | X-axis | 1200 | | | 960 | 780 | 600 | 540 | | |
| | Speed setting | – | | | 80% | 65% | 50% | 45% | | |

Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
Note 2. The shaded position indicates an user cable extraction port.

Note 3. When the X-axis stroke is longer than 750mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

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