

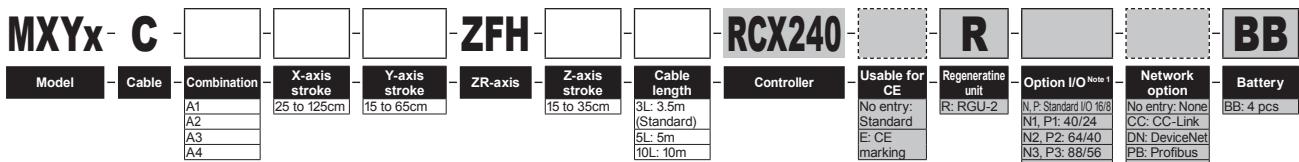
MXYx

3 axes / ZFH

● Arm type ● Cable carrier

● Z-axis: clamped table / moving base type (200W)

Ordering method



Note 1. N to N4 if NPN was selected, or P to P4 if PNP was selected for the I/O board.

Note 2. Available only for the master.

Specification

| | X-axis | Y-axis | Z-axis |
|--|-----------------------|----------------------------|--|
| Axis construction Note 1 | F17 | F14H | F10-BK equivalent guide-reinforced model |
| AC servo motor output (W) | 400 | 200 | 200 |
| Repeatability Note 2 (mm) | +/-0.01 | +/-0.01 | +/-0.01 |
| Drive system | Ball screw (Class C7) | Ball screw (Class C7) | Ball screw (Class C7) |
| Ball screw lead (Deceleration ratio) (mm) | 20 | 20 | 10 |
| Maximum speed Note 3 (mm/sec) | 1200 | 1200 | 600 |
| Moving range (mm) | 250 to 1250 | 150 to 650 | 150 to 350 |
| Robot cable length (m) | | Standard: 3.5 Option: 5,10 | |

Note. The standard types are ZFH with higher rigidity as compared with ZF types which are conventional standard types. When you need the ZF type, please consult YAMAHA.

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 850mm, 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.

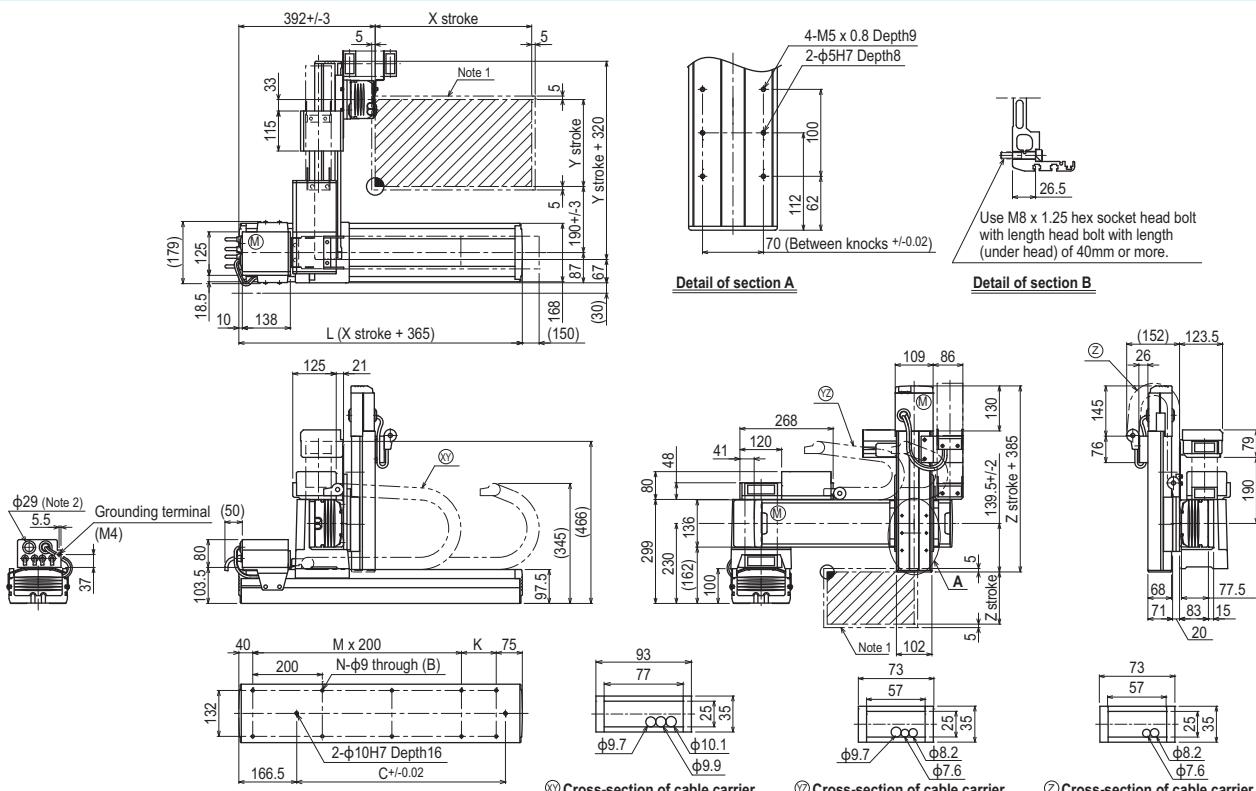
Maximum payload

| Y stroke (mm) | Z stroke (mm) | | |
|----------------------|----------------------|------------|------------|
| | 150 | 250 | 350 |
| 150 | 14 | 13 | 12 |
| 250 | 14 | 13 | 12 |
| 350 | 14 | 13 | 12 |
| 450 | 12 | 11 | 10 |
| 550 | 12 | 11 | 10 |
| 650 | 8 | 7 | 6 |

Controller

| Controller | Operation method |
|-------------------|--|
| RCX240-R | Programming / I/O point trace / Remote command / Operation using RS-232C communication |

MXYx 3 axes / ZFH A1



| X stroke | 250 | 350 | 450 | 550 | 650 | 750 | 850 | 950 | 1050 | 1150 | 1250 |
|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|
| L | 615 | 715 | 815 | 915 | 1015 | 1115 | 1215 | 1315 | 1415 | 1515 | 1615 |
| K | 100 | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 |
| C | 240 | 420 | 600 | 600 | 780 | 780 | 960 | 960 | 1140 | 1140 | 1320 |
| M | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 |
| N | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 |

| Y stroke | 150 | 250 | 350 | 450 | 550 | 650 |
|-----------------|------------|------------|------------|------------|------------|------------|
| Z stroke | 150 | 250 | 350 | | | |

| Maximum speed for each stroke(mm/sec) Note 3 | X-axis | 1200 | 960 | 840 | 720 | 600 | 480 |
|---|---------------|------|-----|-----|-----|-----|-----|
| Speed setting | | — | 80% | 70% | 60% | 50% | 40% |

Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.

Note 2. User cable extraction port.

Note 3. When the X-axis stroke is longer than 850mm, 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.