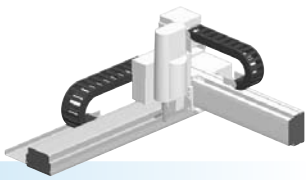
# SXYBx 3 axes / ZS

Arm type | Cable carrier | Z-axis shaft vertical type



## Ordering method

**SXYBx - C - [ ] - [ ] - [ ] - ZS - 15 - [ ] - RCX340-3 - [ ] [ ] [ ] [ ] [ ] [ ] [ ]**

| Model | Cable | Combination | X-axis stroke | Y-axis stroke | ZR-axis | Z-axis stroke | Cable | Controller / Number of controllable axes | Safety standard | Option A (OP.A) | Option B (OP.B) | Option C (OP.C) | Option D (OP.D) | Option E (OP.E) | Absolute battery |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A1<br>A2<br>A3<br>A4 | 15 to 305cm | 15 to 55cm | ZS12<br>ZS6 | | 3L: 3.5m<br>5L: 5m<br>10L: 10m | | | | | | | | |

Specify various controller setting items. RCX340 ▶ P.494

**RCX240S - [ ] - R - [ ] - [ ] - [ ] - [ ] - BB**

| Controller | CE Marking | Regenerative unit | Expansion I/O | Network option | iVY System | Gripper | Battery |
|---|---|---|---|---|---|---|---|

Specify various controller setting items. RCX240/RCX240S ▶ P.481

## Specification

| | X-axis | Y-axis | Z-axis: ZS12 | Z-axis: ZS6 |
|---|---|---|---|---|
| Axis construction Note 1 | B14H | B14 | – | |
| AC servo motor output (W) | 200 | 100 | 60 | |
| Repeatability Note 2 (mm) | +/-0.04 | +/-0.04 | +/-0.02 | |
| Drive system | Timing belt | Timing belt | Ball screw (Class C10) | |
| Ball screw lead (Deceleration ratio) (mm) | Equivalent to lead 25 | Equivalent to lead 25 | 12 | 6 |
| Maximum speed (mm/sec) | 1875 | 1875 | 1000 | 500 |
| Moving range (mm) | 150 to 3050 | 150 to 550 | 150 | |
| 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.

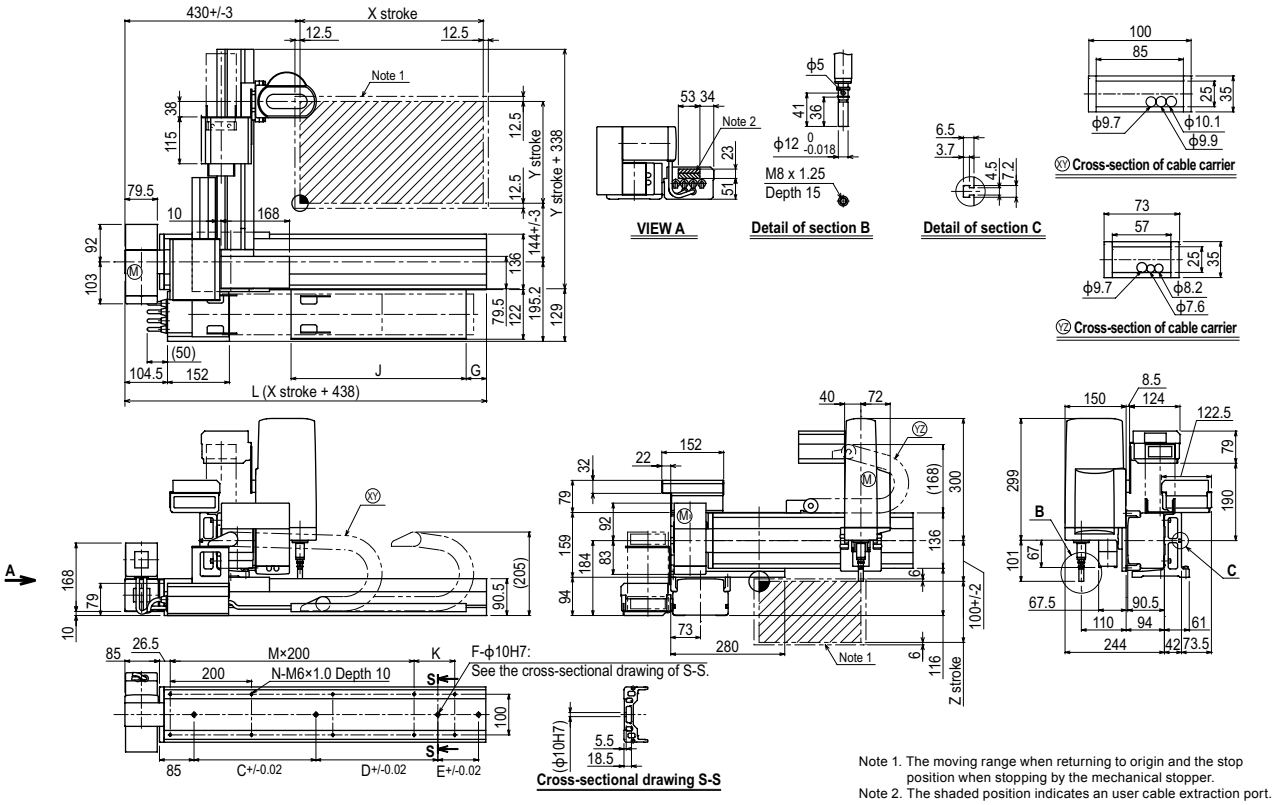
## Maximum payload (kg)

| Y stroke (mm) | ZS12 | ZS6 |
|---|---|---|
| 150 | 3 | 5 |
| 250 | 3 | 5 |
| 350 | 3 | 5 |
| 450 | 3 | 4 |
| 550 | 3 | 3 |

## Controller

| Controller | Operation method |
|---|---|
| RCX340<br>RCX240S-R | Programming / I/O point trace /<br>Remote command / Operation using<br>RS-232C communication |

## SXYBx 3 axes / ZS A1




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.

| X stroke | 150 | 250 | 350 | 450 | 550 | 650 | 750 | 850 | 950 | 1050 | 1150 | 1250 | 1350 | 1450 | 1550 | 1650 | 1750 | 1850 | 1950 | 2050 | 2150 | 2250 | 2350 | 2450 | 2550 | 2650 | 2750 | 2850 | 2950 | 3050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 588 | 688 | 788 | 888 | 988 | 1088 | 1188 | 1288 | 1388 | 1488 | 1588 | 1688 | 1788 | 1888 | 1988 | 2088 | 2188 | 2288 | 2388 | 2488 | 2588 | 2688 | 2788 | 2888 | 2988 | 3088 | 3188 | 3288 | 3388 | 3488 |
| K | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 | 200 | 100 |
| C | 240 | 420 | 600 | 600 | 780 | 780 | 960 | 960 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 |
| D | - | - | - | - | - | - | - | - | - | - | 240 | 240 | 240 | 420 | 600 | 600 | 780 | 780 | 960 | 960 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 | 1140 |
| E | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 240 | 240 | 420 | 420 | 600 | 600 | 780 | 960 |
| F | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| M | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 15 | 15 | 16 |
| N | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 | 32 | 32 | 34 | 34 | 36 |
| G | 0 | 50 | 0 | 50 | 0 | 50 | 0 | 50 | 0 | 50 | 0 | 50 | 0 | 50 | 0 | 50 | 0 | 50 | 0 | 50 | 0 | 50 | 0 | 50 | 0 | 50 | 0 | 50 | 0 | 50 |
| J | 330 | 330 | 430 | 430 | 530 | 530 | 630 | 630 | 730 | 730 | 830 | 830 | 930 | 930 | 1030 | 1030 | 1130 | 1130 | 1230 | 1230 | 1330 | 1330 | 1430 | 1430 | 1530 | 1530 | 1630 | 1630 | 1730 | 1730 |

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