SXYx 2 axes / ZF

XZ type | Whipover | Z-axis: clamped base / moving table type (100W)

Ordering method

SXYx	S			ZF		
Model	Cable	Combination	X-axis stroke	ZR-axis	Z-axis stroke	Cable
		F1 F3	15 to 85cm		15 to 35cm	3L: 3.5m 5L: 5m 10L: 10m

RCX320-2					
Controller / Number of controllable axes	Safety standard	Option A (OP.A)	Option B (OP.B)	Vision System	Absolute battery

Specify various controller setting items. RCX320 ▶ P.548

RCX222				
Controller	Usable for CE	I/O selection 1	I/O selection 2	

Specify various controller setting items. RCX222 ▶ P.558

Specification

	X-axis	Z-axis
Axis construction Note 1	F14	F10-BK
AC servo motor output (W)	100	100
Repeatability Note 2 (mm)	+/-0.01	+/-0.01
Drive system	Ball screw ϕ15	Ball screw ϕ15
Ball screw lead Note 3 (Deceleration ratio) (mm)	20	10
Maximum speed Note 4 (mm/sec)	1200	600
Moving range (mm)	150 to 850	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. Leads not listed in the catalog are also available. Contact us for details.
Note 4. 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.

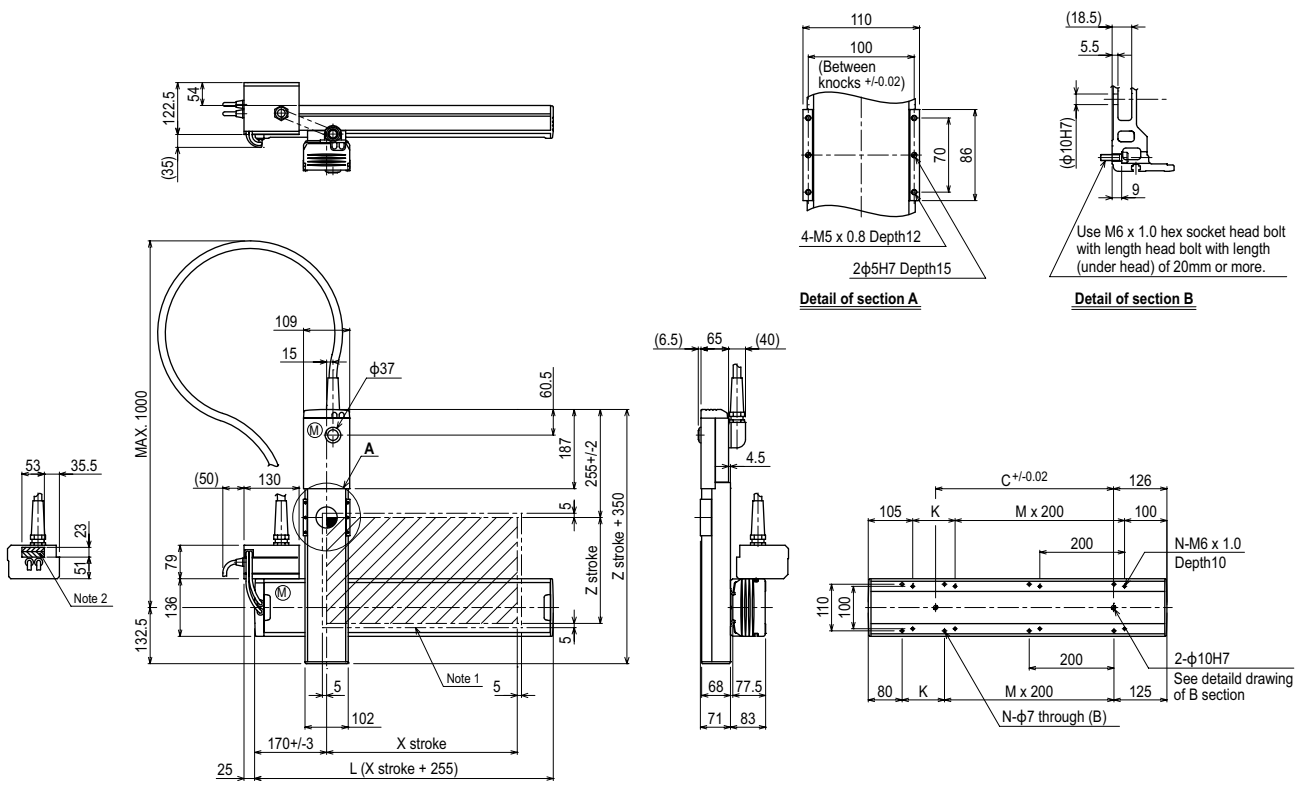
Maximum payload (kg)

	Z stroke (mm)
X stroke (mm)	150 to 350
150 to 850	10

Controller

Controller	Operation method
RCX320 RCX222	Programming / I/O point trace / Remote command / Operation using RS-232C communication

SXYx 2 axes / ZF F1



X stroke	150	250	350	450	550	650	750	850
L	405	505	605	705	805	905	1005	1105
K	200	100	200	100	200	100	200	100
C	240	240	420	420	600	600	780	780
M	0	1	1	2	2	3	3	4
N	4	6	6	8	8	10	10	12

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

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.

Controller RCX320 ▶ 548 RCX222 ▶ 558