SXYx 2 axes / ZFL20

XY type | Cable carrier

Ordering method

SXYx - C - [ ] - [ ] - ZFL20 - [ ] - [ ] - RCX222 - [ ] - R - [ ] - [ ]

Model	Cable	Combination	X-axis stroke	ZR-axis	Z-axis stroke	Cable length	Controller	Usable for CE	Regeneratine unit Note 1	Input/Output selection 1	Input/Output selection 2
		F1 F3	15 to 105cm		15 to 35cm	3L: 3.5m (Standard) 5L: 5m 10L: 10m	RCX222 DRCX0510	No entry: Standard E: CE marking	R: RG2 (RCX222) R: RGU-2 (DRCX)	N: NPN Note 2 P: PNP CC: CC-Link DN: DeviceNet PB: Profibus EN: Ethernet Note 2 YC: YC-Link Note 3	No entry: None N1: OP.DIO24/16 (NPN) Note 2 P1: OP.DIO24/17 (PNP) EN: Ethernet No e 2 Note

Note 1. DRCX0510 uses the RGU-2 regenerative unit. The RCX222 uses the RG2.
Note 2. NPN and Ethernet cannot be selected if using CE marking.
Note 3. Available only for the master.
Note 4. 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	F14	F10-BK equivalent guide-reinforced model
AC servo motor output (W)	100	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	20
Maximum speed Note 3 (mm/sec)	1200	1200
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.

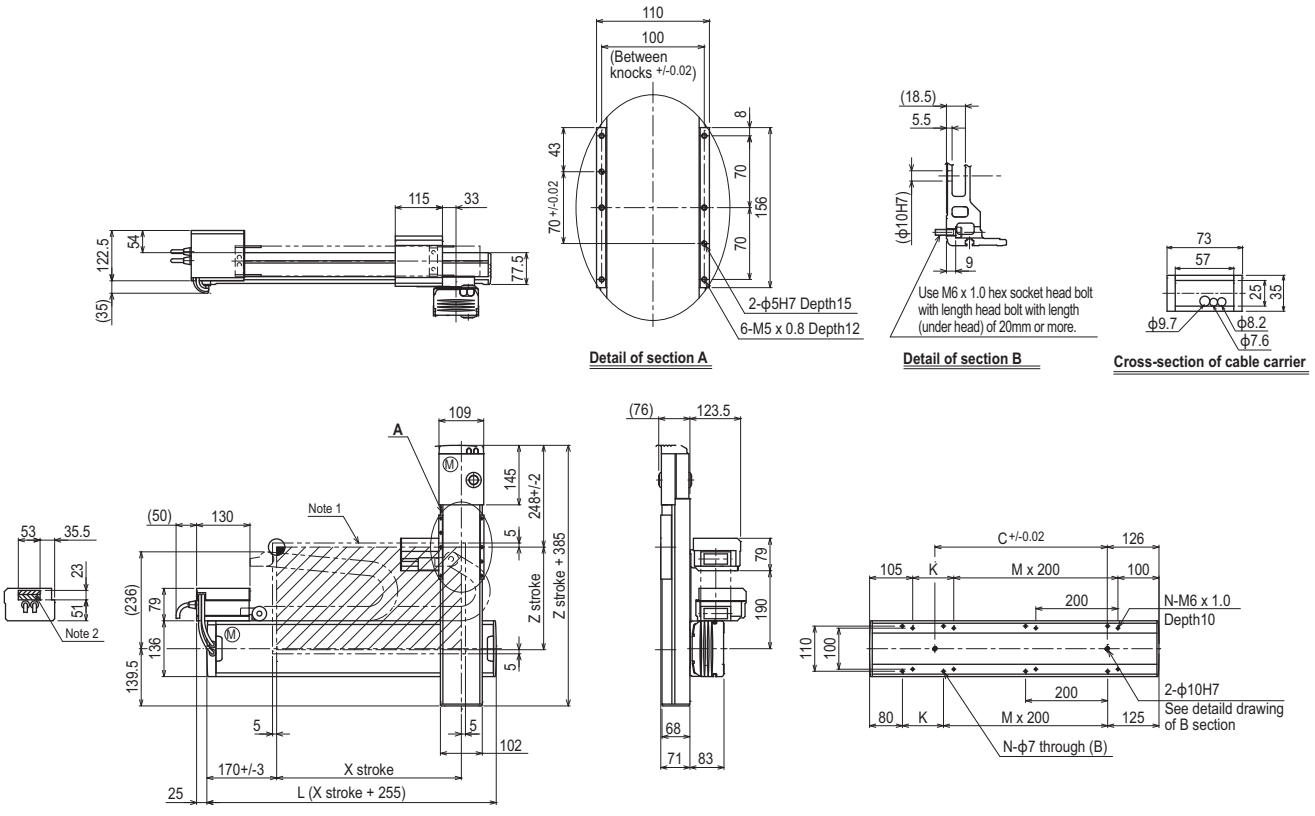
Maximum payload (kg)

	Z stroke (mm)
X stroke (mm)	150 to 350
150 to 1050	8

Controller

Controller	Operation method
RCX222-R	Programming / I/O point trace / Remote command / Operation using RS-232C communication
DRCX0510-R	

SXYx 2 axes / ZFL20 F1



X stroke	150	250	350	450	550	650	750	850	950	1050
L	405	505	605	705	805	905	1005	1105	1205	1305
K	200	100	200	100	200	100	200	100	200	100
C	240	240	420	420	600	600	780	780	960	960
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
Maximum speed for each stroke (mm/sec) Note 3 — 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.