APPLICATION
single-axis robots Compact TRANSERVO
Single-axis robots FLIP-X
Linear motor single-axis robots PHASER
Cartesian robots XY-X
SCARA robots YK-XG
Pick & place robots YP-X
CLEAN
CONTROLLER
INFORMATION
Arm type
Gantry type
Moving arm type
Pole type
XZ type

HXYx 2 axes / ZL

● XY type   ● Cable carrier

■ Ordering method

HXYx - C ▢ ▢ - ZL - ▢ ▢ - RCX222 ▢ R ▢ ▢

Model	-	Cable	Combination	X-axis stroke	ZR-axis	Z-axis stroke	Cable length	Controller	Usable for CE	Regeneratine unit	Input/Output selection 1	Input/Output selection 2

- Combination: F1, F3
- X-axis stroke: 25 to 125cm
- Z-axis stroke: 25 to 55cm
- Cable length: 3L: 3.5m (Standard), 5L: 5m, 10L: 10m
- Controller: RCX222, DRCX2010
- Usable for CE: No entry: Standard, E: CE marking
- Regeneratine unit: R: RG2 (RCX222), R: RGU-2 (DRCX)
- Input/Output selection 1: N: NPN [Note 1], P: PNP, CC: CC-Link, DN: DeviceNet, PB: Profibus, EN: Ethernet [Note 1], YC: YC-Link [Note 2]
- Input/Output selection 2: No entry: None, N1: OP.DIO24/16 (NPN) [Note 1], P1: OP.DIO24/17 (PNP), EN: Ethernet [Note 1 Note 3]

Note 1. NPN and Ethernet cannot be selected if using CE marking.
Note 2. Available only for the master.
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]	F17	F14H-BK
AC servo motor output (W)	400	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)	250 to 1250	250 to 550
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 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.
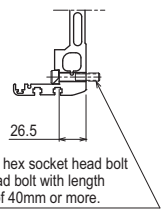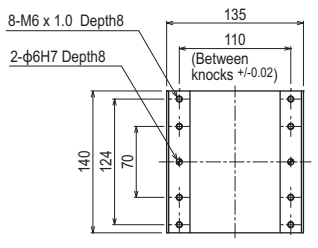
■ Maximum payload (kg)

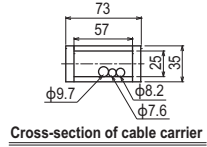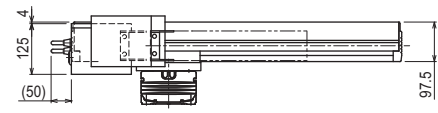|	Z stroke (mm)
X stroke (mm)	250 to 550
250 to 1250	20

■ Controller

Controller	Operation method
RCX222-R	Programming / /O point trace / Remote command / Operation using RS-232C communication
DRCX2010-R	

HXYx 2 axes / ZL F1

- 8-M6 x 1.0 Depth8
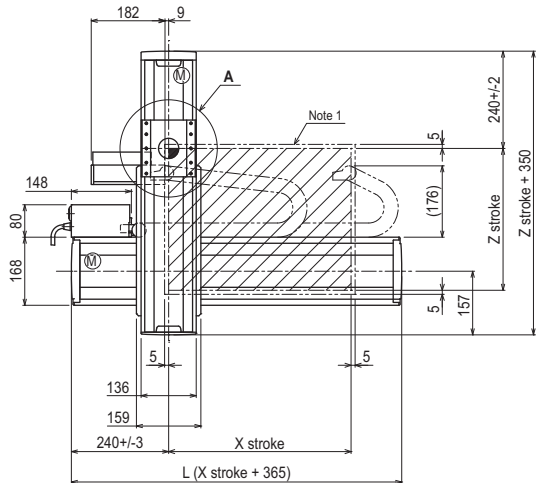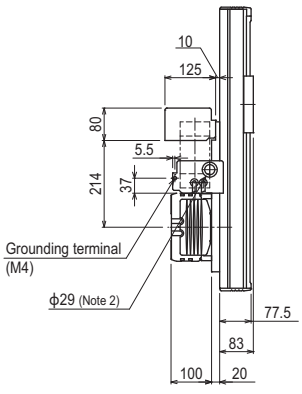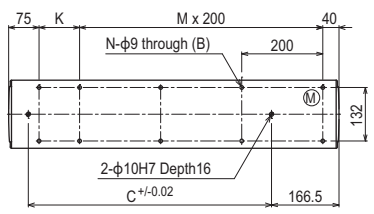- 2-φ6H7 Depth8
- 135 / 110 (Between knocks +/-0.02)
- 140 / 124 / 70
- 26.5
- Detail of section A

Use M8 x 1.25 hex socket head bolt with length head bolt with length (under head) of 40mm or more.

Detail of section B

- 125 / 4 / (50) / 97.5

Cross-section of cable carrier
- 73 / 57 / 25 / 35
- φ9.7 / φ8.2 / φ7.6

- 75 / K / M x 200 / 40
- N-φ9 through (B) / 200
- 132
- 2-φ10H7 Depth16
- C +/-0.02 / 166.5

- 10 / 125 / 80 / 5.5 / 214 / 37
- Grounding terminal (M4)
- φ29 (Note 2)
- 77.5 / 83 / 100 / 20

- 182 / 9
- A
- Note 1
- 148 / 80 / 168
- 240+/-2 / (176) / Z stroke / Z stroke + 350 / 157
- 5 / 136 / 159 / 240+/-3 / X stroke
- 240+/-3
- L (X stroke + 365)

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.

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

Z stroke	250	350	450	550

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 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.