

# HXYx 2 axes / ZH

● XZ type ● Cable carrier

## Ordering method

<b>HXYx - C</b>			<b>ZH</b>			<b>RCX222</b>		<b>R</b>			
<b>Model</b>	<b>Cable</b>	<b>Combination</b>	<b>X-axis stroke</b>	<b>ZR-axis</b>	<b>Z-axis stroke</b>	<b>Cable length</b>	<b>Controller</b>	<b>Usable for CE</b>	<b>Regenerative unit</b>	<b>Input/Output selection 1</b>	<b>Input/Output selection 2</b>
	F1 F3		25 to 125cm		25 to 55cm	3L: 3.5m (Standard) 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	R: RG2 (RCX222)	N: NPN <sup>Note 1</sup> P: PNP CC: CC-Link DN: DeviceNet PB: Profibus EN: Ethernet <sup>Note 1</sup> YC: YC-Link <sup>Note 2</sup>	No entry: None N1: OP DIO24/16 (NPN) <sup>Note 1</sup> P1: OP DIO24/17 (PNP) EN: Ethernet <sup>Note 1</sup> <sup>Note 3</sup>

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
<b>Axis construction</b> <sup>Note 1</sup>	F17	F14H-BK
<b>AC servo motor output (W)</b>	400	200
<b>Repeatability</b> <sup>Note 2</sup> (mm)	+/-0.01	+/-0.01
<b>Drive system</b>	Ball screw (Class C7)	Ball screw (Class C7)
<b>Ball screw lead (Deceleration ratio) (mm)</b>	20	5
<b>Maximum speed</b> <sup>Note 3</sup> (mm/sec)	1200	300
<b>Moving range (mm)</b>	250 to 1250	250 to 550
<b>Robot cable length (m)</b>	Standard: 3.5 Option: 5,10	

Note 1. Use caution that the frame 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.

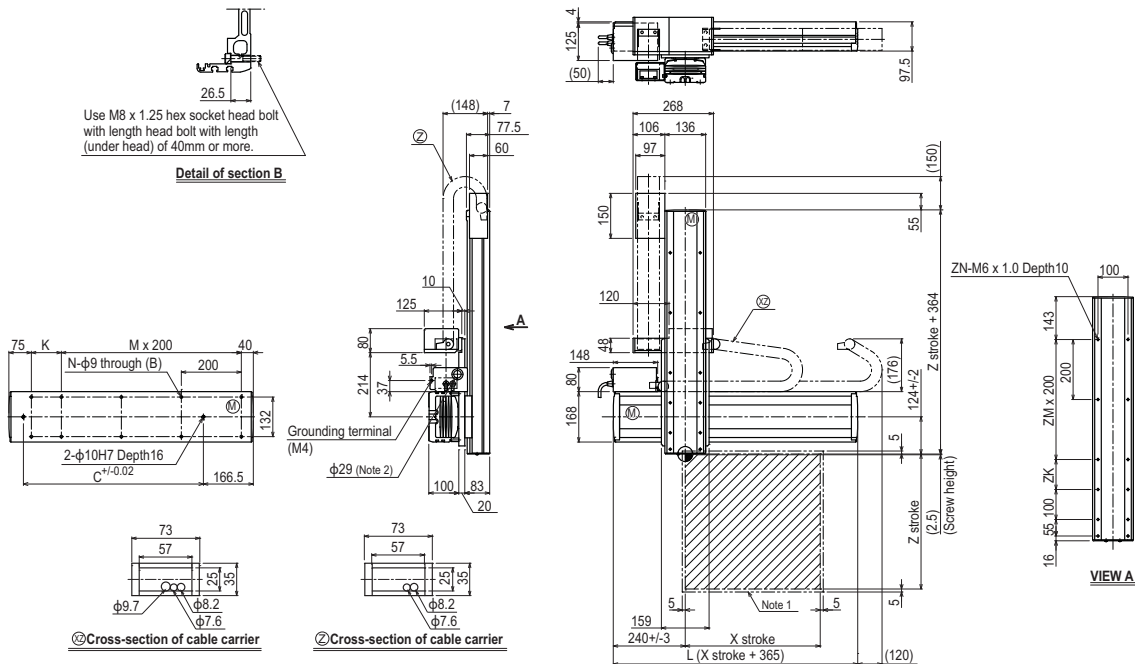
## Maximum payload (kg)

X stroke (mm)	Z stroke (mm)
250 to 1250	250 to 550
	30

## Controller

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

## HXYx 2 axes / ZH F1



X stroke	250	350	450	550	650	750	850	950	1050	1150	1250
<b>L</b>	615	715	815	915	1015	1115	1215	1315	1415	1515	1615
<b>K</b>	100	200	100	200	100	200	100	200	100	200	100
<b>C</b>	240	420	600	600	780	780	960	960	1140	1140	1320
<b>M</b>	2	2	3	3	4	4	5	5	6	6	7
<b>N</b>	8	8	10	10	12	12	14	14	16	16	18
<b>Z stroke</b>	<b>250</b>	<b>350</b>	<b>450</b>	<b>550</b>							
<b>ZK</b>	100	200	100	200							
<b>ZM</b>	1	1	2	2							
<b>ZN</b>	10	10	12	12							

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.

Maximum speed for each stroke (mm/sec) <sup>Note 3</sup>	X-axis						
	Speed setting	1200	960	840	720	600	480
		—	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.