

CARTESIAN ROBOTS

XY-X SERIES

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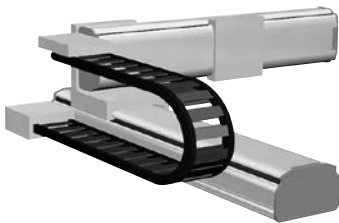
Arm & cable variations

Cable variations

Two cable types are available; cable carrier type and whipover type. (except PXYX) The cable carrier type is supplied with a user cable as standard so that cable can be added easily. The whipover type is supplied with a user cable and tube as standard set. A cable duct specially designed for clean rooms is also available. (See P.458 to P.463 for detailed information on Clean Cartesian robots.)

Cable carrier (C)

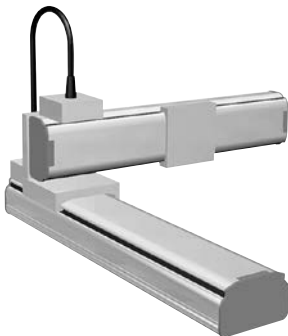
When adding cables to a cable carrier track, keep the cable occupation rate at 30% or less.



Note. User cable 10 cores, 0.2 sq.

Whipover (S)

Adding a load on whipover will result in sagging and cut. Sagging may also occur when using long strokes.



Note. User cable: 7 cores, 0.2 sq.
Note. User tube: 2 φ4 air tubes.

Arm variations

The first step for selection of Cartesian type robot models is to check for applicable models according to specific use and operation area.

Arm type

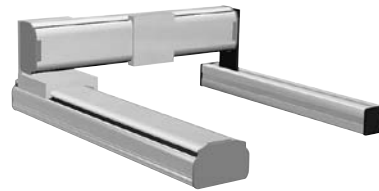
The type with moving Y-axis carriage.



P.252

Gantry type

The type with a guide railing at the end of Y-axis for support.



P.320

Moving arm type

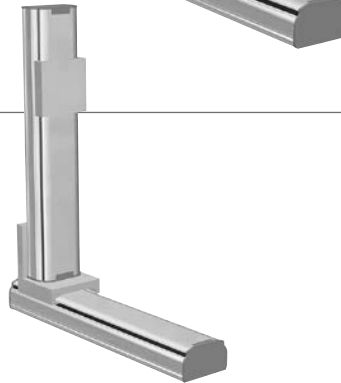
The type with a moving Y-axis arm.



P.336

Pole type

The type with vertically moving Y-axis carriage.



P.350

XZ type

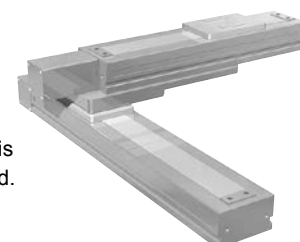
The type with combination of X-axis for horizontal movement and Z-axis for vertical movement.



P.358

Clean type

Special model for clean rooms with moving Y-axis carriage installed upward.



P.458

Articulated robots
YA

Linear conveyor models
LCM100

Compact single-axis robots
TRANSEVO

Single-axis robots
FLIP-X

Linear motor single-axis robots
PHASER

Cartesian robots
XY-X

SCARA robots
YK-X

Pick & place robots
YP-X

CLEAN

CONTROLLER INFORMATION

Arm type

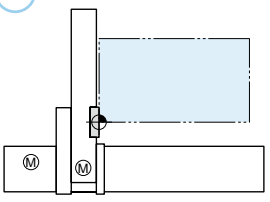
Gantry type

Moving arm type

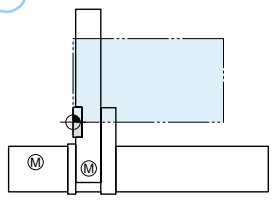
Pole type

XZ type

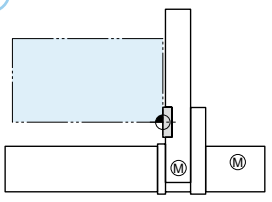
A1



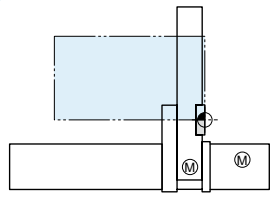
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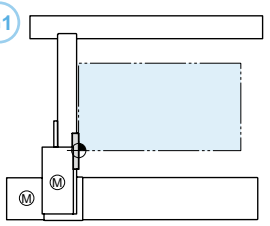
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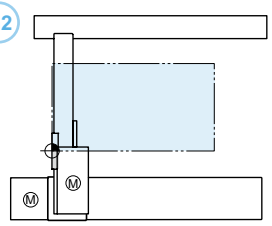
A4



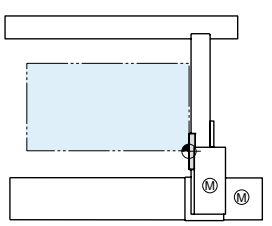
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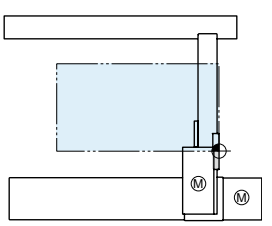
G2



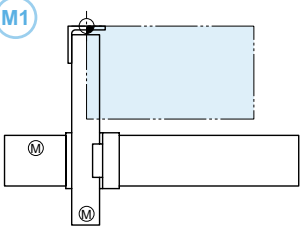
G3



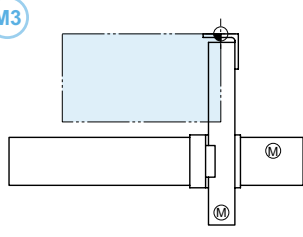
G4



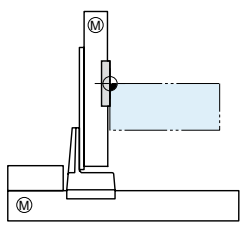
M1



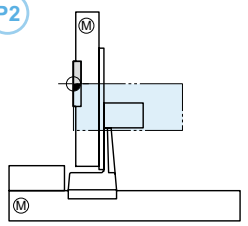
M3



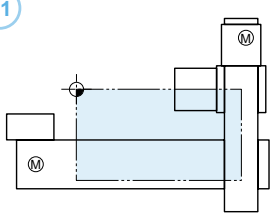
P1



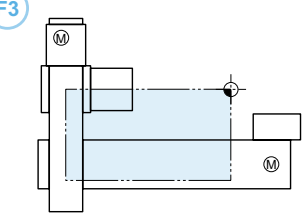
P2



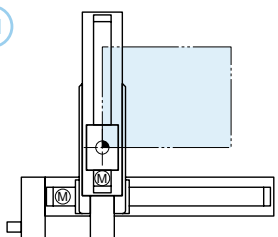
F1



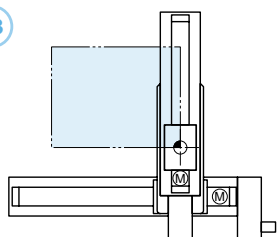
F3



T1



T3



2-axis spec selection guide

Setting method

While checking conditions in order starting from ①, proceed to the right. Select the desired model in ⑥.

① Select the arm variation

Arm type

The type with moving Y-axis carriage.

Gantry type

The type with a guide railing at the end of Y-axis for support.

Moving arm type

The type with a moving Y-axis arm.

Pole type

The type with vertically moving Y-axis carriage.

XZ type

The type with combination of X-axis for horizontal movement and Z-axis for vertical movement.

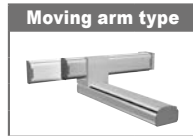
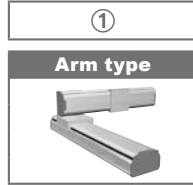
② Select a line satisfying both the Y-axis stroke and payload and move to the right.

③ Check the cable types

④ Check the X axis stroke

⑤ Select the desired speed

⑥ Decide the model



②

Payload (kg)	Y-axis stroke (mm)									
	50	100	150	200	250	300	350	400	450	500
4.5	4.5	3.5	2.5	2	1.5					

Payload (kg)	Y-axis stroke (mm)									
	150	250	350	450	550	650	750	850	950	1050
12	12	11	9	7						
	12	11	9	7						
	7	6	5	3						
	7	6	5	3						
	7	6	5	3						
	20	17	15	13	11	9				
	20	17	15	13	11	9				
	19	16	14	12	10	8				
	14	12	10	8	7					
	25	21	18	16	13	11				
	30	25	20	16						
	30	25	20	16						
	29	24	19	15						
		40	35	30						
	40	35	30							

Payload (kg)	Y-axis stroke (mm)										
	150	250	350	450	550	650	750	850	950	1050	
30	30						25	20			
	29						24	19			
							50				
							50				

Payload (kg)	Y-axis stroke (mm)									
	150	250	350	450	550	650	750	850	950	1050
15	15	14	13							
	20									
	30									

Payload (kg)	Y-axis stroke (mm)									
	150	250	350	450	550	650	750	850	950	1050
8	8									
	20									
	20									
						30				
						30				

Payload (kg)	Z-axis stroke (mm)									
	150	250	350	450	550	650	750	850	950	1050
10	10									
	10									
	8									
	3									
	5									
	10									
	8									
	15									
	14	13	12							
	20									
	30									

③	④	⑤	⑥ Decide the model	
Cable type	X-axis stroke (mm)	Maximum speed (X-axis / Y-axis) (mm/sec)	Model ^(Note 1)	Detailed info page
Cable carrier	150 to 650	720 / 720	PXYx-C-A*	P252
Cable type	X-axis stroke (mm)	Maximum speed (X-axis / Y-axis) (mm/sec)	Model	Detailed info page
Cable carrier	150 to 1050	1200 / 800	FXyX-C-A*	P254
Cable carrier	150 to 1050	1200 / 800	FXyX-C-A* (I/O)	P256
Cable carrier	150 to 2450	1875 / 1875	FXyBx-C-A*	P260
Whipover	150 to 950	1875 / 1875	FXyBx-S-A*	P262
Cable carrier	150 to 2450	1875 / 1875	FXyBx-C-A* (I/O)	P264
Cable carrier	150 to 1050	1200 / 1200	SXYx-C-A*	P266
Whipover	150 to 850	1200 / 1200	SXYx-S-A*	P268
Cable carrier	150 to 1050	1200 / 1200	SXYx-C-A* (I/O)	P270
Cable carrier	150 to 3050	1875 / 1875	SXYBx-C-A*	P284
Cable carrier	500 to 2000	1200 / 1200	NXY-C-A*	P292
Cable carrier	250 to 1250	1200 / 1200	MXyX-C-A*	P302
Whipover	250 to 850	1200 / 1200	MXyX-S-A*	P304
Cable carrier	250 to 1250	1200 / 1200	MXyX-C-A* (I/O)	P306
Cable carrier	250 to 1250	1200 / 1200	HXYx-C-A*	P312
Cable carrier	1150 to 2050	1200 / 1200	HXYLx-C-A*	P318
Cable type	X-axis stroke (mm)	Maximum speed (X-axis / Y-axis) (mm/sec)	Model	Detailed info page
Cable carrier	250 to 1050	1200 / 1200	MXyX-C-G*	P320
Cable carrier	250 to 1050	1200 / 1200	MXyX-C-G* (I/O)	P322
Cable carrier	250 to 1250	1200 / 1200	HXYx-C-G*	P328
Cable carrier	1150 to 2050	1200 / 1200	HXYLx-C-G*	P334
Cable type	X-axis stroke (mm)	Maximum speed (X-axis / Y-axis) (mm/sec)	Model	Detailed info page
Cable carrier	150 to 850	1200 / 1200	SXYx-C-M*	P336
Cable carrier	250 to 1250	1200 / 1200	MXyX-C-M*	P342
Cable carrier	250 to 1250	1200 / 1200	HXYx-C-M*	P348
Cable type	X-axis stroke (mm)	Maximum speed (X-axis / Y-axis) (mm/sec)	Model	Detailed info page
Whipover	150 to 850	1200 / 600	SXYx-S-P*	P350
Cable carrier	250 to 1250	1200 / 600	MXyX-C-P*	P351
Whipover	250 to 950	1200 / 600	MXyX-S-P*	P352
Cable carrier	250 to 1250	1200 / 600	HXYx-C-P*	P354
Whipover	250 to 850	1200 / 600	HXYx-S-P*	P355
Cable type	X-axis stroke (mm)	Maximum speed (X-axis / Y-axis) (mm/sec)	Model	Detailed info page
Cable carrier	150 to 1050	1200 / 600	SXYx-C-F* (ZF)	P358
Whipover	150 to 850	1200 / 600	SXYx-S-F* (ZF)	P359
Cable carrier	150 to 1050	1200 / 1200	SXYx-C-F* (ZFL20)	P360
Cable carrier	150 to 1050	1200 / 1000	SXYx-C-F* (ZS12)	P361
Cable carrier	150 to 1050	1200 / 500	SXYx-C-F* (ZS6)	P361
Cable carrier	150 to 3050	1875 / 600	SXYBx-C-F* (ZF)	P362
Cable carrier	150 to 3050	1875 / 1200	SXYBx-C-F* (ZFL20)	P363
Cable carrier	150 to 1050	1200 / 600	MXyX-C-F* (ZFL10)	P364
Cable carrier	150 to 1050	1200 / 600	MXyX-C-F* (ZFH)	P365
Cable carrier	250 to 1250	1200 / 600	HXYx-C-F* (ZL)	P366
Cable carrier	250 to 1250	1200 / 300	HXYx-C-F* (ZH)	P367

Note 1. The figure entered at * inside the form, expresses the arm variation. See P. 242 for more information.

3-axis spec selection guide

Setting method

While checking conditions in order starting from ①, proceed to the right. Select the desired model in ⑥.

① Select the arm variation

Arm type

The type with moving Y-axis carriage.

Gantry type

The type with a guide railing at the end of Y-axis for support.

Moving arm type

The type with a moving Y-axis arm.

Pole type

The type with vertically moving Y-axis carriage.

①

Arm type

②

Z-axis

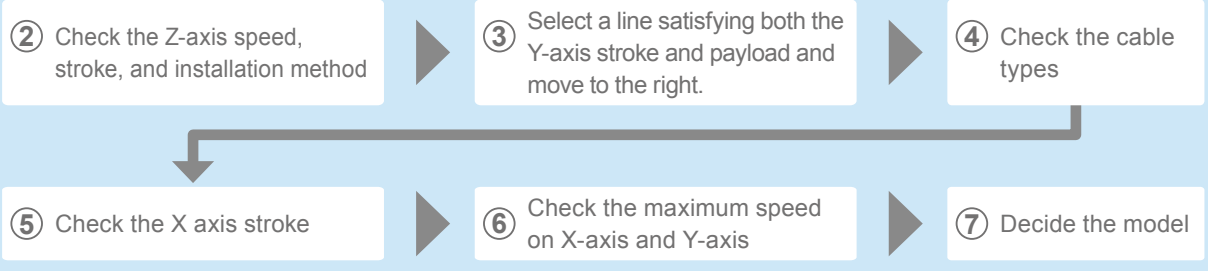
Speed (mm/sec)	Stroke (mm)	Installation method
1000	150	Shaft vertical type
500	150	
800	50 to 300	Clamped base · moving table type (60W)
600	150	Clamped base · moving table type (100W)
	250	
	350	
	150	Clamped base · moving table type (100W)
1200	250	Clamped base · moving table type (200W)
	350	
	150	
600	150	Clamped table · moving base type (200W)
	250	
	350	
1000	150	Shaft vertical type
500	150	
600	150	Clamped base · moving table type (100W)
	250	
	350	
1200	150	Clamped base · moving table type (200W)
	250	
	350	
600	150	Clamped table · moving base type (200W)
	250	
	350	
1000	150	Shaft vertical type
500	150	
1200	150	Clamped base · moving table type (200W)
	250	
	350	
600	150	Clamped table · moving base type (200W)
	250	
	350	
600	150	Clamped base · moving table type (200W)
	250	
	350	
1200	150	Clamped base · moving table type (200W)
	250	
	350	
600	150	Clamped table · moving base type (200W)
	250	
	450	
	550	
300	250	Clamped table · moving base type (200W)
	350	
	450	
	550	

③

Y-axis stroke (mm)

	150	250	350	450	550	650	750	850	950	1050
	3									
	5				3					
	3									
	10	9	7	5	3					
	10	8	6	4	2					
	10	9	7	5	3	1				
	10	9	7	5	3					
	10	10	8	6	4	2				
	10	9	7	5	3	1				
	8			6	4	2				
	8		7	5	3	1				
	8		6	4	2	1				
	13	10	8	6	4	2				
	12	9	7	5	3	1				
	11	8	6	4	2	1				
	3									
	3									
	5									
	5									
	8	6	4	2	1					
	7	5	3	1						
	6	4	2							
	7	5	3	1						
	6	4	2							
	5	3	1							
	7	5	3	1						
	6	4	2							
	5	3	1							
	3									
	5			4	3					
	8				5	3				
	8			7	4	2				
	8		6	3	1					
	13	12	10	8	5	3				
	13	11	9	7	4	2				
	12	10	8	6	3	1				
	15			12	12	8				
	15			11	11	7				
	15			10	10	6				
	8									
	8					7				
	8					6				
	14			12		8				
	13			11		7				
	12			10		6				
	20				18					
	20				17					
	20			19	16					
	20			18	15					
	25			20	18					
	25			20	17					
	24			19	16					
	23			18	15					

Payload (kg)



④	⑤	⑥	⑦ Decide the model	
Cable type	X-axis stroke (mm)	Maximum speed (X-axis / Y-axis) (mm/sec)	Model ^(Note 1)	Detailed info page
Cable carrier	150 to 1050	1200 / 800	FXYx-C-A*-ZS12	P.257
			FXYx-C-A*-ZS6	P.257
			FXYx-C-A*-ZT6L	P.258
Cable carrier	150 to 1050	1200 / 1200	SXYx-C-A*-ZF	P.272
Whipover	150 to 850	1200 / 1200	SXYx-S-A*-ZF	P.273
Cable carrier	150 to 1050	1200 / 1200	SXYx-C-A*-ZFL20	P.274
Cable carrier	150 to 1050	1200 / 1200	SXYx-C-A*-ZFH	P.275
Cable carrier	150 to 1050	1200 / 1200	SXYx-C-A*-ZS12	P.276
Whipover	150 to 850		SXYx-S-A*-ZS12	P.276
Cable carrier	150 to 1050		SXYx-C-A*-ZS6	P.277
Whipover	150 to 850		SXYx-S-A*-ZS6	P.277
Cable carrier	150 to 3050	1875 / 1875	SXYBx-C-A*-ZF	P.286
Cable carrier	150 to 3050	1875 / 1875	SXYBx-C-A*-ZFL20	P.287
Cable carrier	150 to 3050	1875 / 1875	SXYBx-C-A*-ZFH	P.288
Cable carrier	150 to 3050	1875 / 1875	SXYBx-C-A*-ZS12	P.289
Cable carrier	150 to 3050	1875 / 1875	SXYBx-C-A*-ZS6	P.289
Cable carrier	500 to 2000	1200 / 1200	NXY-C-A*-ZFL20	P.294
Cable carrier	500 to 2000	1200 / 1200	NXY-C-A*-ZFH	P.296
Cable carrier	250 to 1250	1200 / 1200	MXYx-C-A*-ZFL10	P.307
Cable carrier	250 to 1250	1200 / 1200	MXYx-C-A*-ZFL20	P.307
Cable carrier	250 to 1250	1200 / 1200	MXYx-C-A*-ZFH	P.308
Cable carrier	250 to 1250	1200 / 1200	HXYx-C-A*-ZL	P.314
Cable carrier	250 to 1250	1200 / 1200	HXYx-C-A*-ZH	P.315

Note 1. The figure entered at * inside the form, expresses the arm variation. See P.242 for more information.

3-axis spec selection guide

- Articulated robots
YA
- Linear conveyor modules
LCM100
- Compact single-axis robots
TRANSEVO
- Single-axis robots
FLIP-X
- Linear motor single-axis robots
PHASER
- Cartesian robots
XY-X
- SCARA robots
YK-X
- Pick & place robots
YP-X
- CLEAN
- CONTROLLER INFORMATION
- Arm type
- Gantry type
- Moving arm type
- Pole type
- XZ type

① Gantry type

Z-axis		
Speed (mm/sec)	Stroke (mm)	Installation method
600	150	Clamped base · moving table type (200W)
	250	
	350	
1200	150	Clamped base · moving table type (200W)
	250	
	350	
600	150	Clamped table · moving base type (200W)
	250	
	350	
600	250	Clamped base · moving table type (200W)
	350	
	450	
	550	
300	250	Clamped table · moving base type (200W)
	350	
	450	
	550	

Payload (kg)	Y-axis stroke (mm)										
	150	250	350	450	550	650	750	850	950	1050	
Payload (kg)	15							12			
	15							11			
	15							10			
	8										
	8										
	8										
	14							12			
	13							11			
	12							10			
	20										
	20										
	20										
20											
30											
30											
30											
30											

Moving arm type

Z-axis		
Speed (mm/sec)	Stroke (mm)	Installation method
600	150	Clamped base · moving table type (100W)
	250	
	350	
1200	150	Clamped base · moving table type (200W)
	250	
	350	
600	150	Clamped table · moving base type (200W)
	250	
	350	
1000	150	Shaft vertical type
500	150	
600	150	Clamped base · moving table type (200W)
	250	
	350	
1200	150	Clamped base · moving table type (200W)
	250	
	350	
600	150	Clamped table · moving base type (200W)
	250	
	350	
300	250	Clamped table · moving base type (200W)
	350	
	450	
	550	

Payload (kg)	Y-axis stroke (mm)									
	150	250	350	450	550	650	750	850	950	1050
Payload (kg)	9	8	7							
	8	7	6							
	7	6	5							
	8	8	7							
	8	7	6							
	7	6	5							
	9	8	7							
	8	7	6							
	7	6	5							
	3									
	5									
	12									
	11									
	10									
	8									
	12									
	11									
	10									
18										
18					17					
18					16					
18					15					

Pole type

Z-axis		
Speed (mm/sec)	Stroke (mm)	Installation method
1200	150	Clamped table · moving base type (200W)
	250	
	350	
1200	250	Clamped table · moving base type (200W)
	350	
	450	
	550	
	650	
1200	250	Clamped table · moving base type (200W)
	350	
	450	
	550	
	650	

Payload (kg)	Y-axis stroke (mm)										
	150	250	350	450	550	650	750	850	950	1050	
Payload (kg)	10										
	9										
	8										
	15										
	15										
	15										
	15										
	15										
	15										
	15										
	15										

④	⑤	⑥	⑦ Decide the model	
Cable type	X-axis stroke (mm)	Maximum speed (X-axis / Y-axis) (mm/sec)	Model ^(Note 1)	Detailed info page
Cable carrier	250 to 1050	1200 / 1200	MXYx-C-G*-ZFL10	P.323
Cable carrier	250 to 1050	1200 / 1200	MXYx-C-G*-ZFL20	P.323
Cable carrier	250 to 1050	1200 / 1200	MXYx-C-G*-ZFH	P.324
Cable carrier	250 to 1250	1200 / 1200	HXYx-C-G*-ZL	P.330
Cable carrier	250 to 1250	1200 / 1200	HXYx-C-G*-ZH	P.331

Cable type	X-axis stroke (mm)	Maximum speed (X-axis / Y-axis) (mm/sec)	Model ^(Note 1)	Detailed info page
Whipover	150 to 850	1200 / 1200	SXYx-S-M*-ZF	P.338
Whipover	150 to 850	1200 / 1200	SXYx-S-M*-ZFL20	P.339
Whipover	150 to 850	1200 / 1200	SXYx-S-M*-ZFH	P.340
Whipover	150 to 850	1200 / 1200	SXYx-S-M*-ZS12	P.341
Whipover	150 to 850	1200 / 1200	SXYx-S-M*-ZS6	P.341
Cable carrier	250 to 1250	1200 / 1200	MXYx-C-M*-ZFL10	P.344
Cable carrier	250 to 1250	1200 / 1200	MXYx-C-M*-ZFL20	P.344
Cable carrier	250 to 1250	1200 / 1200	MXYx-C-M*-ZFH	P.345
Cable carrier	250 to 1250	1200 / 1200	HXYx-C-M*-ZH	P.348

Note 1. The figure entered at * inside the form, expresses the arm variation. See P.242 for more information.

Cable type	X-axis stroke (mm)	Maximum speed (X-axis / Y-axis) (mm/sec)	Model	Detailed info page
Cable carrier	250 to 1250	1200 / 600	MXYx-C-P2-ZPMH	P.353
Cable carrier	250 to 1250	1200 / 600	HXYx-C-P2-ZPH	P.356
Whipover	250 to 850	1200 / 600	HXYx-S-P1-ZPH	P.357

Robot ordering method description

In the order format for the YAMAHA cartesian robots XY-X series, the notation (letters/numbers) for the mechanical section is shown linked to the controller section notation.

[Example]

2-axis specifications

Mechanical ▶ FXYx (Arm type)

- Cable variations ▷ Cable carrier
- Combination (Arm variations) ▷ A1
- X-axis stroke ▷ 450mm
- Y-axis stroke ▷ 350mm
- Robot cable length ▷ 3.5M

Controller ▶ RCX222

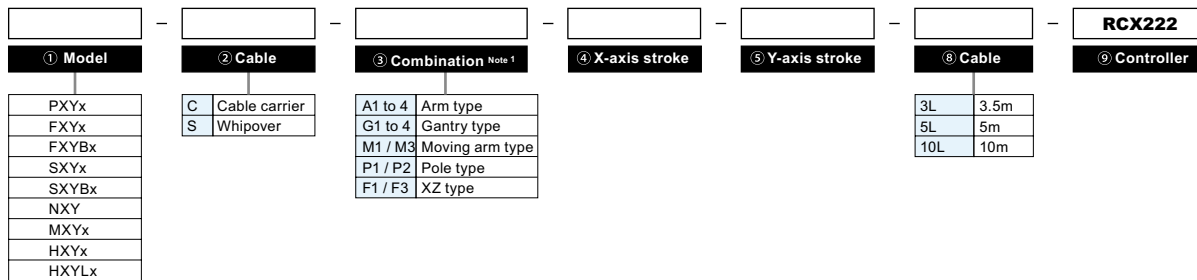
Ordering method

FXYx - C - A1 - 45 - 35 - 3L - RCX222

Mechanical section

Controller section

To find detailed controller information see the controller page. **RCX222 ▶ P.526**



Note 1. To find detailed information on arm variations (combinations) see P.242.

[Example]

3 / 4-axis specifications

Mechanical ▶ SXYx (Moving arm type)

- Cable variations ▷ Whipover
- Combination (Arm variations) ▷ M3
- X-axis stroke ▷ 850mm
- Y-axis stroke ▷ 150mm
- Z-axis stroke ▷ 150mm
- Robot cable length ▷ 5M

Controller ▶ RCX240S

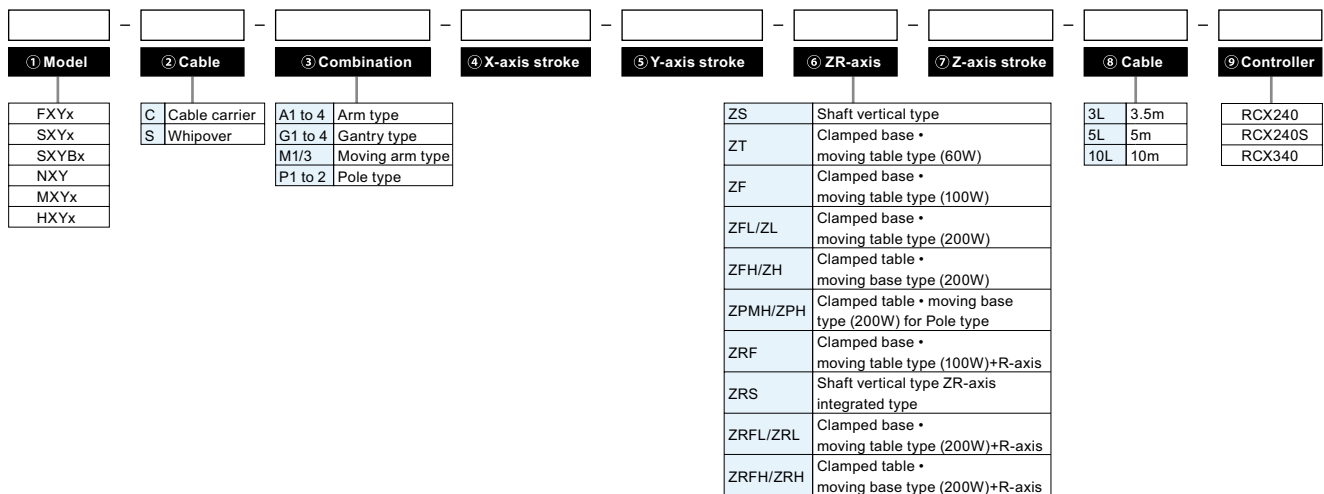
Ordering method

SXYx - S - M3 - 85 - 15 - ZFH - 15 - 5L - RCX240S







Mechanical section

Controller section

To find detailed controller information see the controller page. **RCX240 ▶ P.534**, **RCX340 ▶ P.544**



Robot ordering method terminology

① Model	Enter the robot unit model.
② Cable	Cable specs can be selected. To find detailed information see P.242. C: Cable carrier S: Whipover
③ Combination (Arm variations)	<p>Select the arm variation and combination method.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 15%;"> <p>● Arm type The type with moving Y-axis carriage.</p>  </div> <div style="width: 15%;"> <p>● Gantry type The type with a guide railing at the end of Y-axis for support.</p>  </div> <div style="width: 15%;"> <p>● Moving arm type The type with a moving Y-axis arm.</p>  </div> <div style="width: 15%;"> <p>● Pole type The type with vertically moving Y-axis carriage.</p>  </div> <div style="width: 15%;"> <p>● XZ type The type with combination of X-axis for horizontal movement and Z-axis for vertical movement.</p>  </div> <div style="width: 15%;"> <p>● Clean type Special model for clean rooms with moving Y-axis carriage installed upward.</p>  </div> </div> <p>To find information on combinations see P.242.</p>
④ X-axis stroke	Select the X axis stroke. Enter in centimeters (cm). (For example enter 50 for a stroke of 500mm.)
⑤ Y-axis stroke	Select the Y axis stroke. Enter in centimeters (cm). (For example enter 50 for a stroke of 500mm.)
⑥ ZR-axis	<p>Select the Z axis installation direction. The R axis is installed with 4-axis specifications. To find more information see P.39.</p> <p>[3-axes]</p> <p>ZS : Shaft vertical type ZT : Clamped base · moving table type (60W) ZF : Clamped base · moving table type (100W) ZFL/ZL : Clamped base · moving table type (200W) ZFH/ZH : Clamped table · moving base type (200W) ZPMH/ZPH : Clamped table · moving base type (200W) for pole type</p> <p>[4-axes]</p> <p>ZRF : Clamped base · moving table type (100W)+R axis ZRS : ZR axis integrated type ZRL/ZRFL : Clamped base · moving table type (200W)+R axis ZRH/ZRFH : Clamped table · moving base type (200W)+R axis</p>
⑦ Z-axis stroke	Select the Z axis stroke. Enter in centimeters (cm). (For example enter 15 for a stroke of 150mm.)
⑧ Cable	Select the length of the robot cable connecting the robot and controller. 3L : 3.5m 5L : 5m 10L : 10m
⑨ Controller	<p>2-axis specifications: Select the RCX222.</p> <p>3 / 4-axis specifications: Select either the RCX240 (RCX240S) or RCX340.</p>

Articulated robots
YA
Linear conveyor modules
LCM100
Compact single-axis robots
TRANSEVO
Single-axis robots
FLIP-X
Linear motor single-axis robots
PHASER
Cartesian robots
XX-X
SCARA robots
YK-X
Pick & place robots
YP-X
CLEAN
CONTROLLER INFORMATION
Arm type
Gantry type
Moving arm type
Pole type
XZ type

PXYx 2 axes

● Arm type ● Cable carrier



Ordering method

PXYx - C					RCX222				
Model	Cable	Combination	X-axis stroke	Y-axis stroke	Cable	Controller	Usable for CE	Input/Output selection 1	Input/Output selection 2
A1			15 to 65cm	5 to 30cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None N1: OP.DIO24/16 (NPN) ^{Note 1} P1: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 3}

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	—	T4H
AC servo motor output (W)	60	30
Repeatability ^{Note 2} (mm)	+/-0.02	+/-0.02
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	12	12
Maximum speed ^{Note 4} (mm/sec)	720	720
Moving range (mm)	150 to 650	50 to 300
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 650mm, 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.

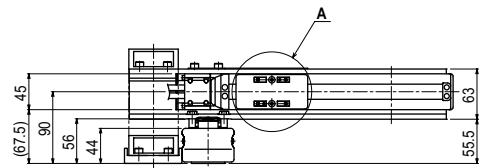
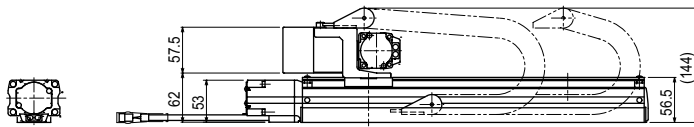
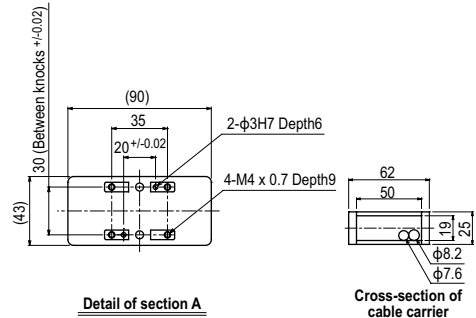
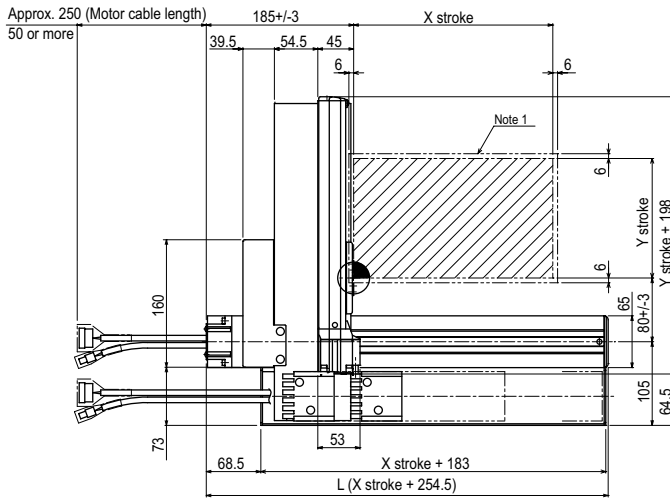
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
50	4.5
100	4.5
150	3.5
200	2.5
250	2
300	1.5

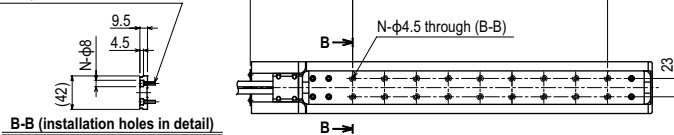
Controller

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

PXYx 2 axes A1



Use M4 x 0.7 hex socket head bolt with length head bolt with length (under head) of 15mm or more.



X stroke	150	250	350	450	550	650
	L	404.5	504.5	604.5	704.5	804.5
M	5	8	10	13	15	18
N	12	18	22	28	32	38
Y stroke	50	100	150	200	250	300
Maximum speed for each stroke (mm/sec) ^{Note 2}	720					600
Speed setting	—					83%

Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.

Note 2. When the X-axis stroke is longer than 650mm, 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.

FXYx 2 axes

● Arm type ● Cable carrier



Ordering method

FXYx - C					RCX222				
Model	Cable	Combination	X-axis stroke	Y-axis stroke	Cable	Controller	Usable for CE	Input/Output selection 1	Input/Output selection 2
A1			15 to 105cm	15 to 55cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ ^{Note 1} PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None N1: OP.DIO24/16 (NPN) ^{Note 1} P1: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 3}

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction	—	—
AC servo motor output (W)	100	60
Repeatability^{Note 1} (mm)	+/-0.01	+/-0.02
Drive system	Ball screw	Ball screw
Ball screw lead^{Note 2} (Deceleration ratio) (mm)	20	12
Maximum speed^{Note 3} (mm/sec)	1200	800
Moving range (mm)	150 to 1050	150 to 550
Robot cable length (m)	Standard: 3.5 Option: 5,10	

Note 1. Positioning repeatability in one direction.
 Note 2. Leads not listed in the catalog are also available. Contact us for details.
 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.

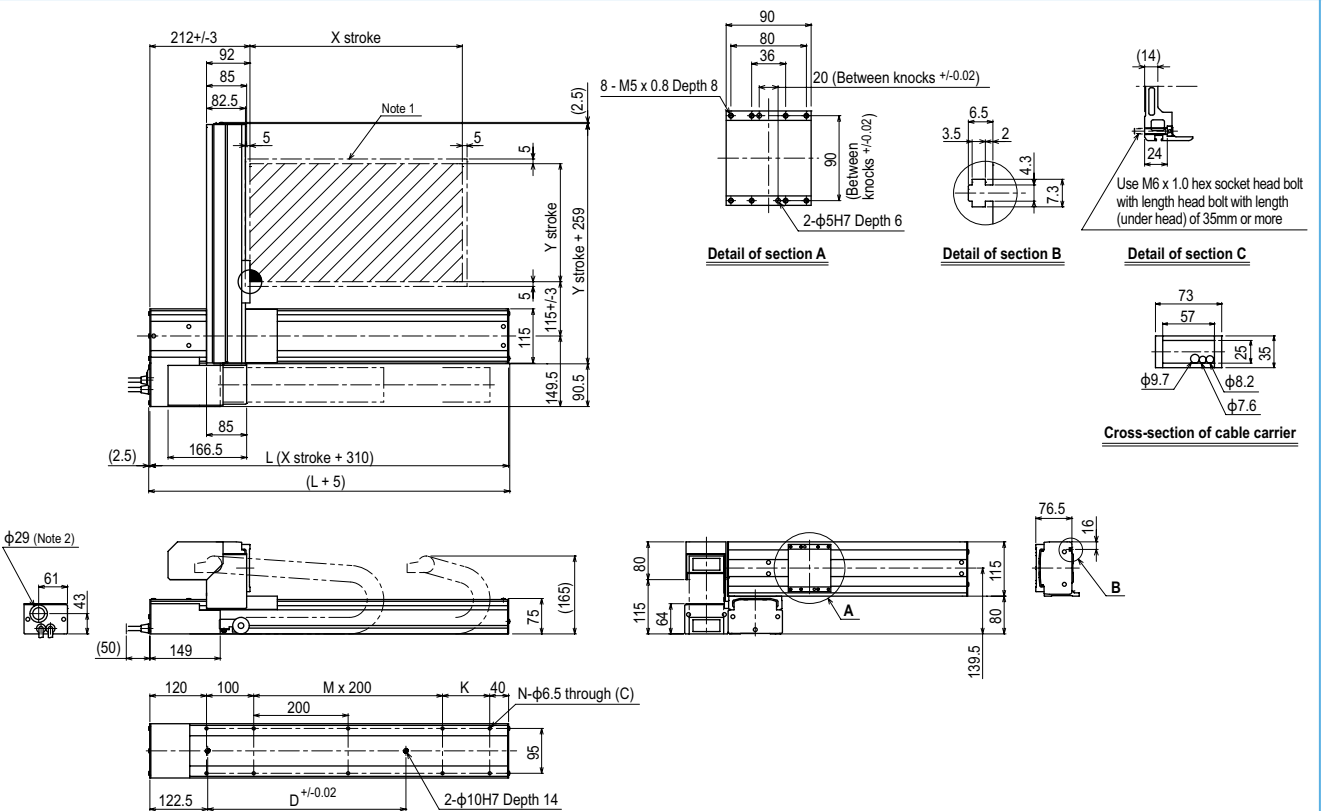
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150	12
250	12
350	11
450	9
550	7

Controller

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

FXYx 2 axes A1

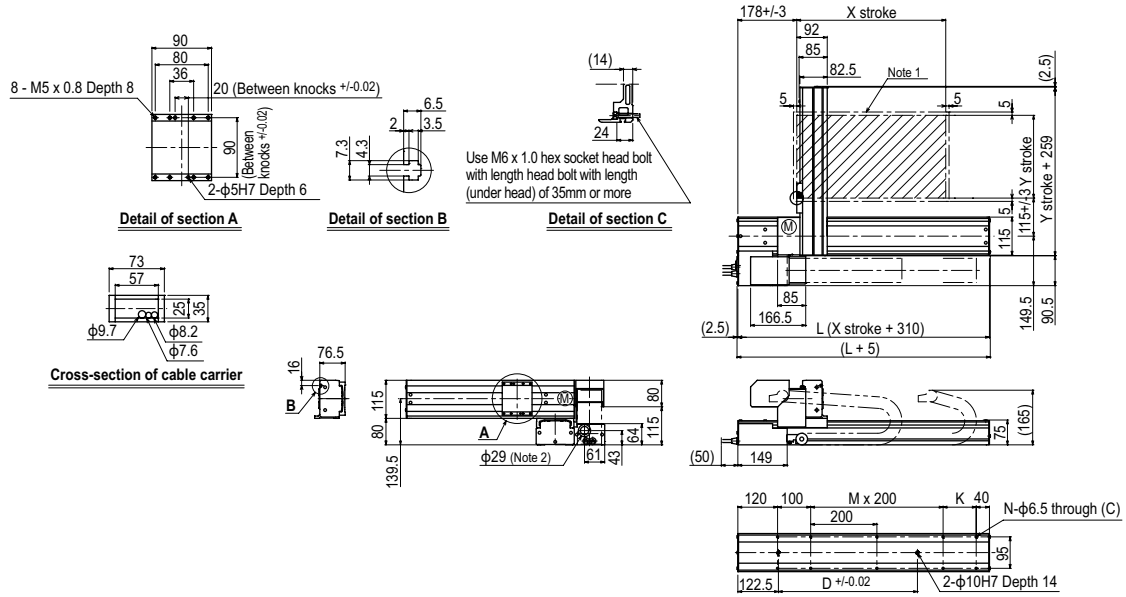


X stroke	150	250	350	450	550	650	750	850	950	1050
	L	460	560	660	760	860	960	1060	1160	1260
K	200	100	200	100	200	100	200	100	200	100
D	240	240	420	420	600	600	780	960	960	1140
M	0	1	1	2	2	3	3	4	4	5
N	6	8	8	10	10	12	12	14	14	16
Y stroke	150	250	350	450	550					
Maximum speed for each stroke (mm/sec)	X-axis		1200			960		780	600	540
Speed setting			—			80%		65%	50%	45%

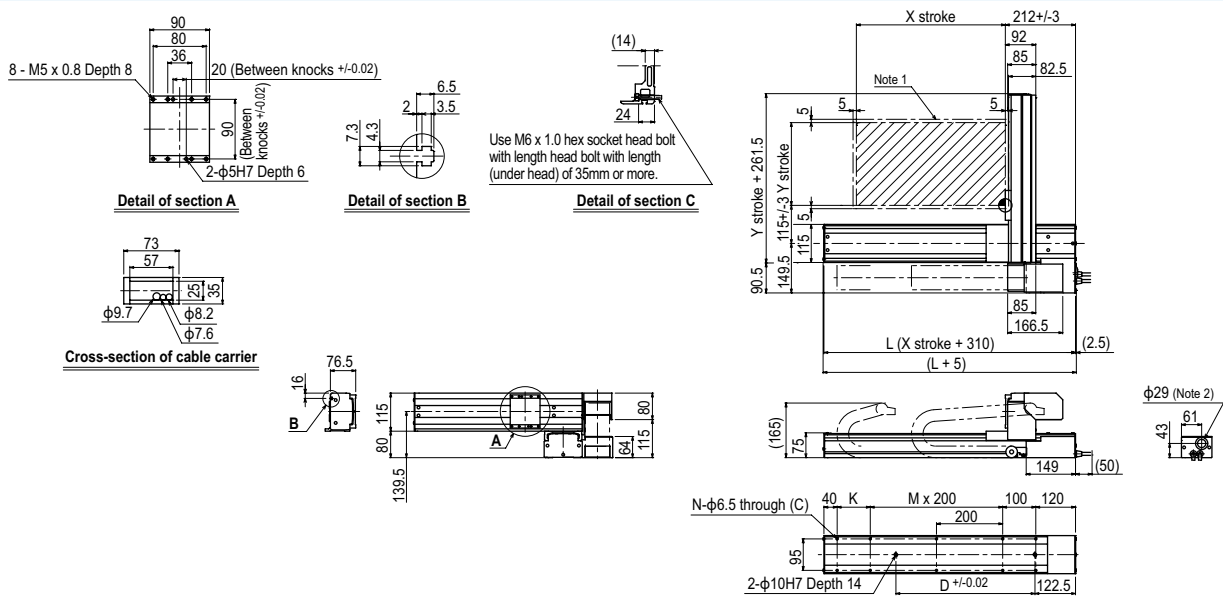
Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
 Note 2. User cable extraction port.

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.

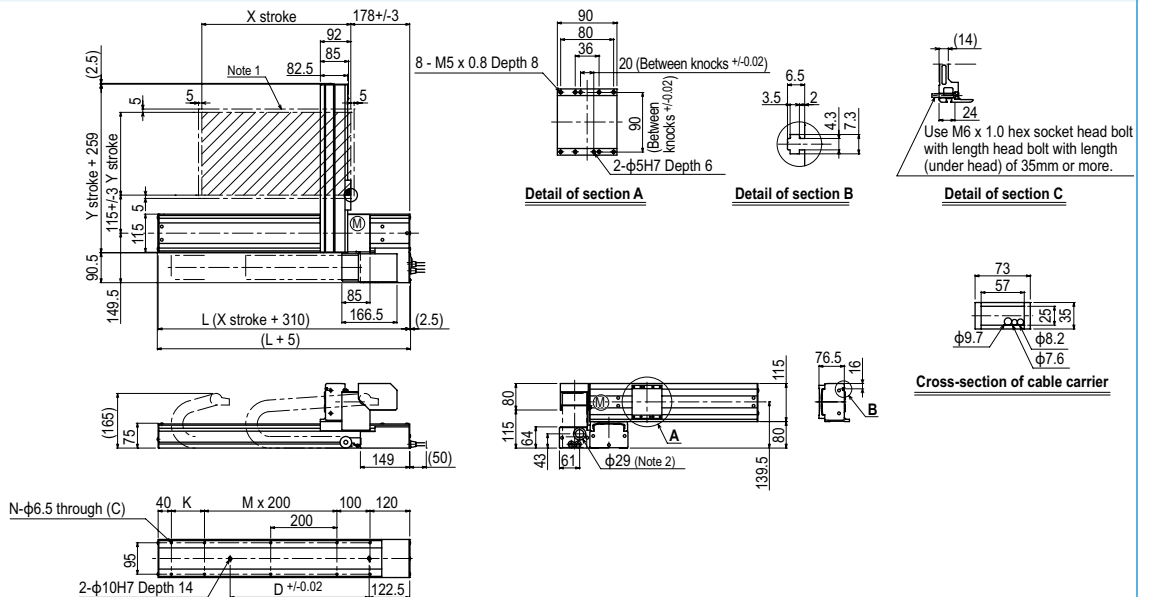
FXYx 2 axes A2



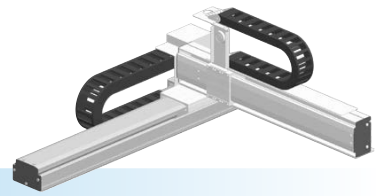
FXYx 2 axes A3



FXYx 2 axes A4



FXYx 2 axes / IO



- Arm type
- Cable carrier
- Type with Y-axis I/O cable carrier added

Ordering method

FXYx - C					IO		RCX222			
Model	Cable	Combination	X-axis stroke	Y-axis stroke	ZR-axis	Cable	Controller	Usable for CE	Input/Output selection 1	Input/Output selection 2
A1			15 to 105cm	15 to 55cm		3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None N1: OPDIO24/16 (NPN) ^{Note 1} P1: OPDIO24/17 (PNP) EN: Ethernet ^{Note 3}

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction	-	-
AC servo motor output (W)	100	60
Repeatability^{Note 1} (mm)	+/-0.01	+/-0.02
Drive system	Ball screw	Ball screw
Ball screw lead^{Note 2} (Deceleration ratio) (mm)	20	12
Maximum speed^{Note 3} (mm/sec)	1200	800
Moving range (mm)	150 to 1050	150 to 550
Robot cable length (m)	Standard: 3.5 Option: 5,10	

Note 1. Positioning repeatability in one direction.
 Note 2. Leads not listed in the catalog are also available. Contact us for details.
 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.

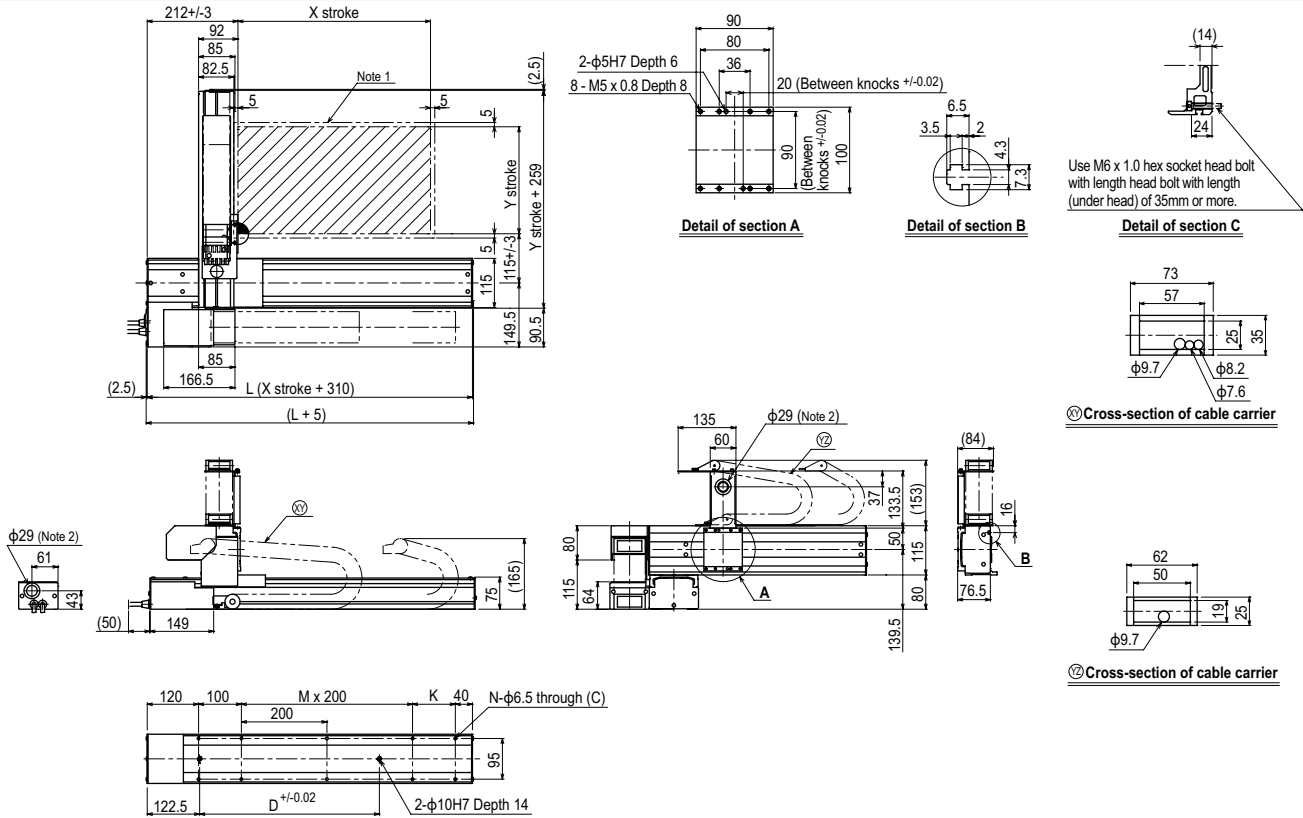
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150	12
250	12
350	11
450	9
550	7

Controller

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

FXYx 2 axes / IO A1



X stroke	Y stroke											
	150	250	350	450	550	650	750	850	950	1050		
L	460	560	660	760	860	960	1060	1160	1260	1360		
K	200	100	200	100	200	100	200	100	200	100		
D	240	240	420	420	600	600	780	960	960	1140		
M	0	1	1	2	2	3	3	4	4	5		
N	6	8	8	10	10	12	12	14	14	16		
Y stroke	150	250	350	450	550							
Maximum speed for each stroke (mm/sec)^{Note 3}	X-axis		1200			960		780		600		540
	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. 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.

Articulated robots
YA

Linear conveyor
modules
LCMT100

Compact
single-axis robots
TRANSERVO

Single-axis robots
FLIP-X

Linear motor
single-axis robots
PHASER

Cartesian
robots
XY-X

SCARA
robots
YK-X

Pick & place
robots
YP-X

CLEAN

CONTROLLER

INFORMATION

Arm type

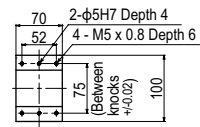
Gantry type

Moving arm
type

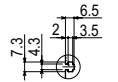
Pole type

XZ type

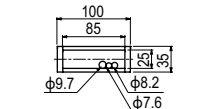
FXYBx 2 axes **A2**



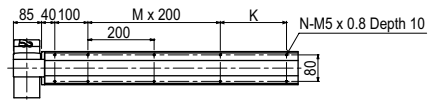
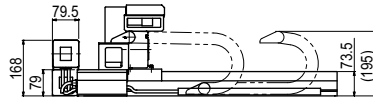
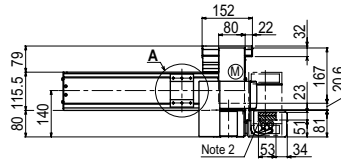
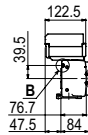
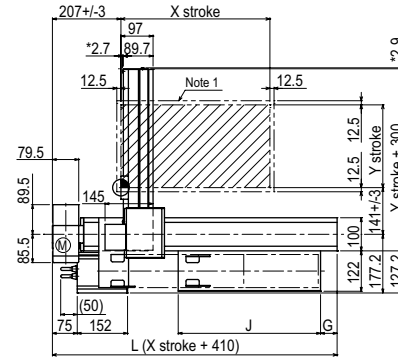
Detail of section A



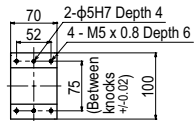
Detail of section B



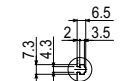
Cross-section of cable carrier



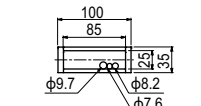
FXYBx 2 axes **A3**



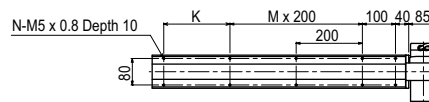
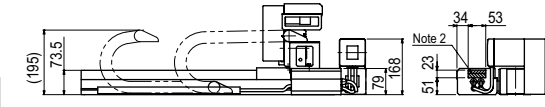
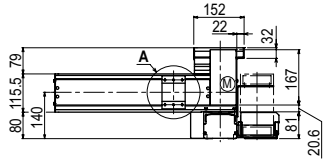
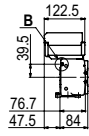
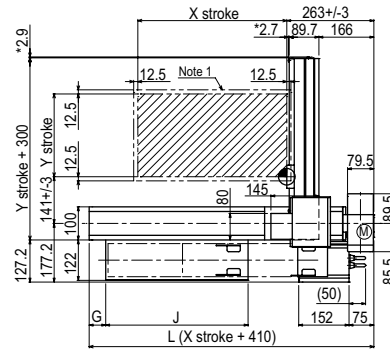
Detail of section A



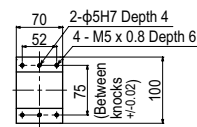
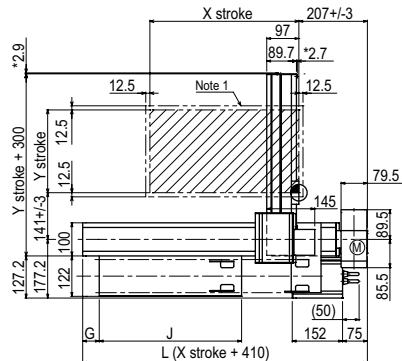
Detail of section B



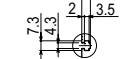
Cross-section of cable carrier



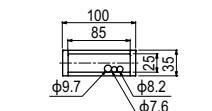
FXYBx 2 axes **A4**



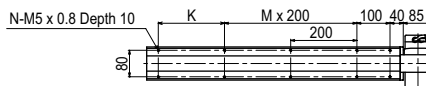
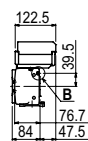
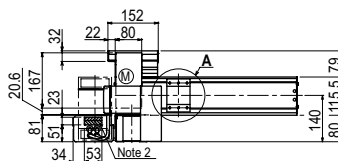
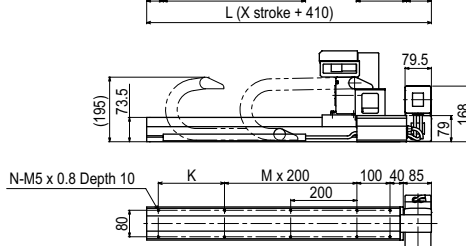
Detail of section A



Detail of section B



Cross-section of cable carrier



FXyBx 2 axes

- Arm type
- Whipover

Ordering method

FXyBx - S [] [] [] [] **RCX222** [] [] []

Model	Cable	Combination	X-axis stroke	Y-axis stroke	Cable	Controller	Usable for CE	Input/Output selection 1	Input/Output selection 2
A1			15 to 95cm	15 to 55cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None (NPN) ^{Note 1} N1: OP.DIO24/16 (PNP) ^{Note 1} P1: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 3}

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	B10	-
AC servo motor output (W)	100	100
Repeatability ^{Note 2} (mm)	+/-0.04	+/-0.04
Drive system	Timing belt	Timing belt
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	Equivalent to lead 25	Equivalent to lead 25
Maximum speed (mm/sec)	1875	1875
Moving range (mm)	150 to 950	150 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. Leads not listed in the catalog are also available. Contact us for details.

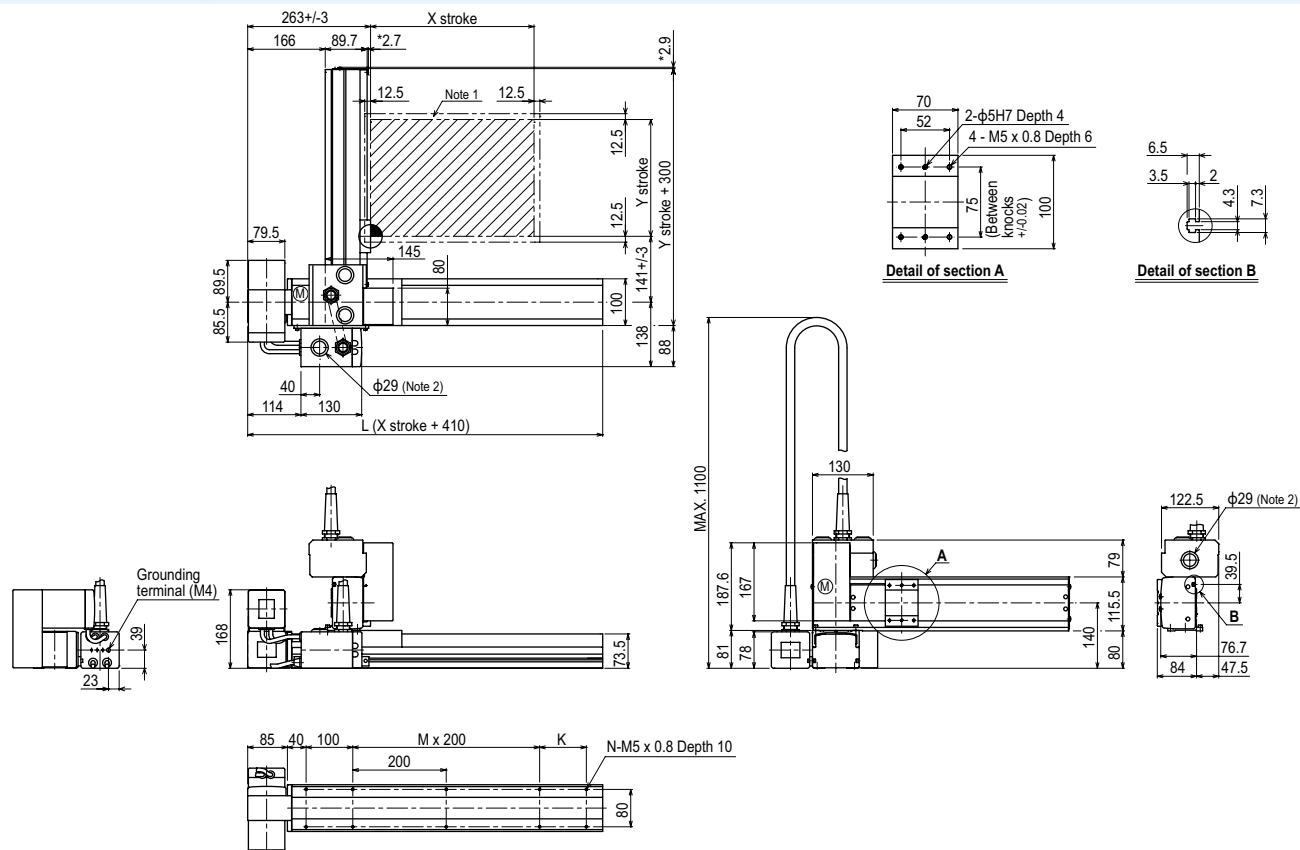
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150	7
250	6
350	5
450	5
550	3

Controller

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

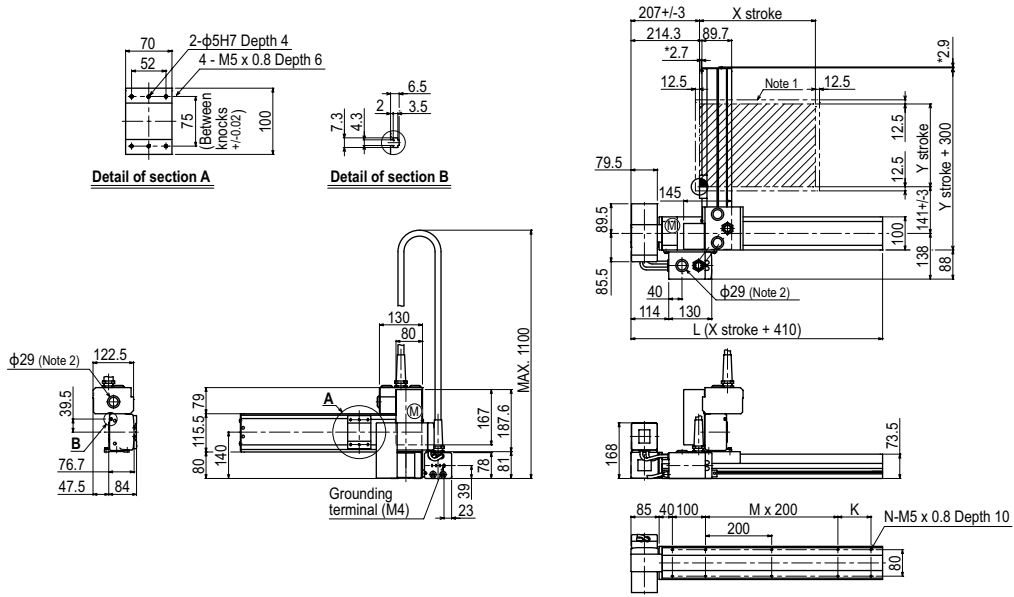
FXyBx 2 axes A1



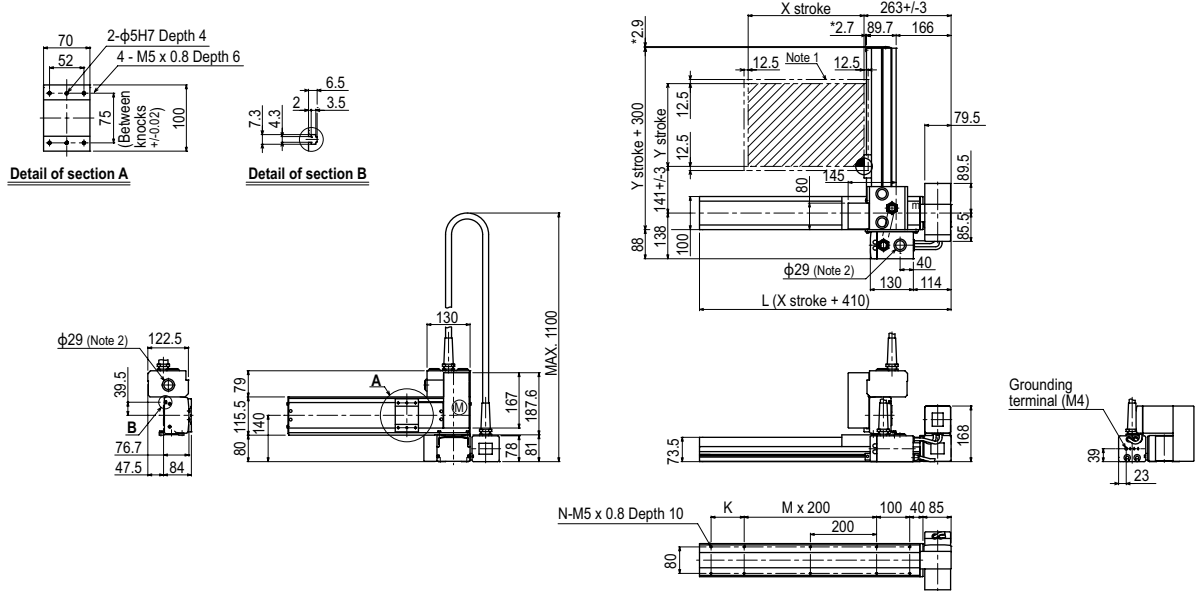
X stroke	150	250	350	450	550	650	750	850	950
L	560	660	760	860	960	1060	1160	1260	1360
K	100	200	100	200	100	200	100	200	100
M	1	1	2	2	3	3	4	4	5
N	8	8	10	10	12	12	14	14	16
Y stroke	150	250	350	450	550				

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.
 Note 3. The dimension marked with an asterisk (*) indicates the height of the screw.

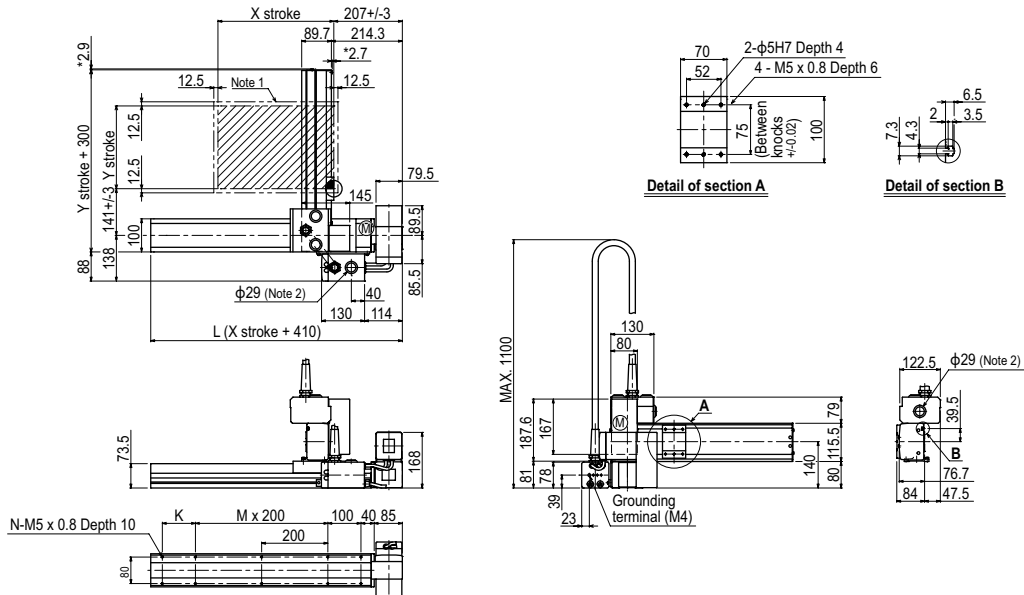
FXYBx 2 axes (A2)



FXYBx 2 axes (A3)



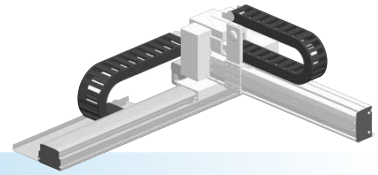
FXYBx 2 axes (A4)



- Articulated robots
YA
- Linear conveyor modules
LCM100
- Compact single-axis robots
TRANSEVO
- Single-axis robots
FLIP-X
- Linear motor single-axis robots
PHASER
- Cartesian robots
XX-X
- SCARA robots
YK-X
- Pick & place robots
YP-X
- CLEAN**
- CONTROLLER**
- INFORMATION**
- Arm type
- Gantry type
- Moving arm type
- Pole type
- XZ type**

FXyBx 2 axes / IO

- Arm type
- Cable carrier
- Type with Y-axis I/O cable carrier added



Ordering method

FXyBx - C					IO		RCX222			
Model	Cable	Combination	X-axis stroke	Y-axis stroke	ZR-axis	Cable	Controller	Usable for CE	Input/Output selection 1	Input/Output selection 2
A1		A1	15 to 245cm	15 to 55cm		3L: 3.5m	RCX222	No entry: Standard E: CE marking	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None N1: OP.DIO24/16 (NPN) ^{Note 1} P1: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 3}
A2		A2				5L: 5m				
A3		A3				10L: 10m				
A4		A4								

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	B10	-
AC servo motor output (W)	100	100
Repeatability ^{Note 2} (mm)	+/-0.04	+/-0.04
Drive system	Timing belt	Timing belt
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	Equivalent to lead 25	Equivalent to lead 25
Maximum speed (mm/sec)	1875	1875
Moving range (mm)	150 to 2450	150 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. Leads not listed in the catalog are also available. Contact us for details.

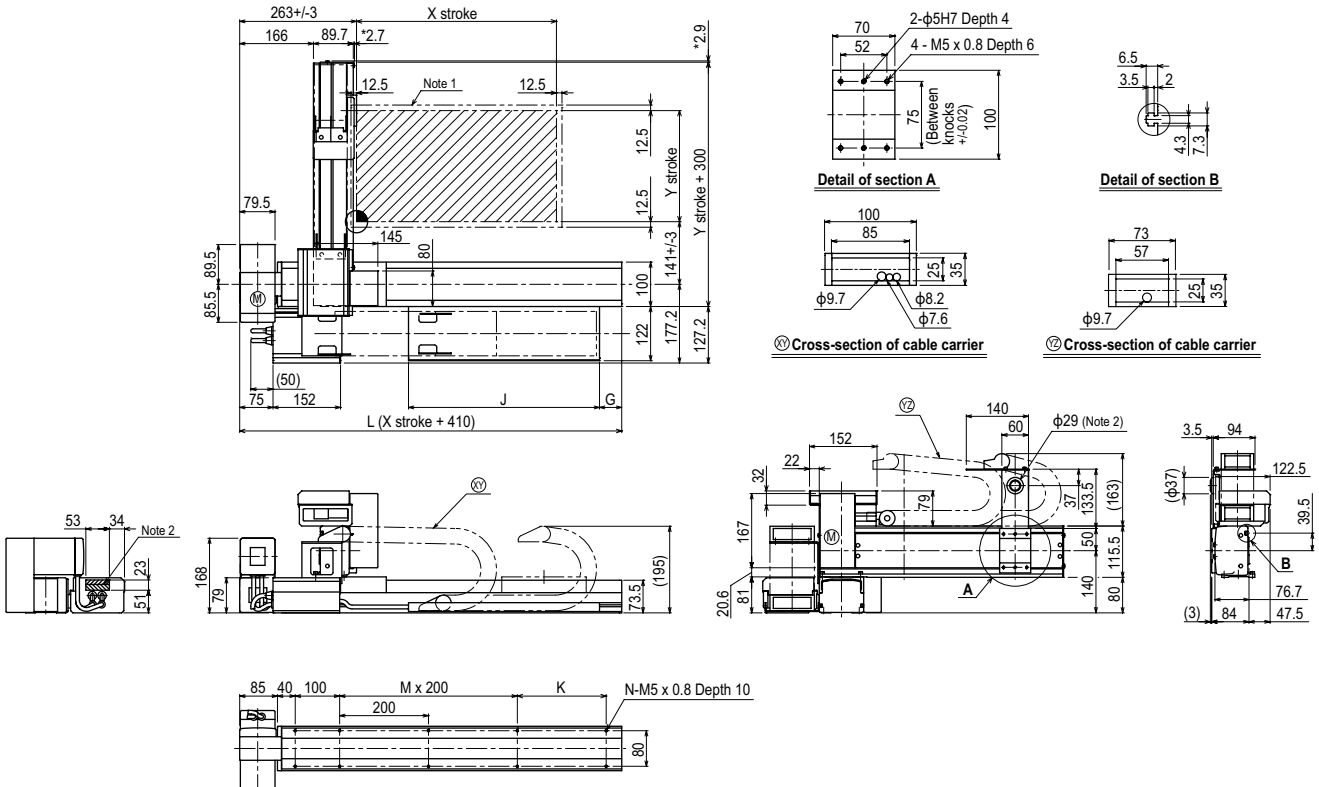
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150	7
250	6
350	5
450	5
550	3

Controller

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

FXyBx 2 axes / IO A1



Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper. Note 3. The dimension marked with an asterisk (*) indicates the height of the screw.
 Note 2. The shaded position indicates a 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
L	560	660	760	860	960	1060	1160	1260	1360	1460	1560	1660	1760	1860	1960	2060	2160	2260	2360	2460	2560	2660	2760	2860
K	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
M	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
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
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
Y stroke	150	250	350	450	550																			

Articulated robots
YA

Linear conveyor
modules
LCMT100

Compact
single-axis robots
TRANSERVO

Single-axis robots
FLIP-X

Linear motor
single-axis robots
PHASER

Cartesian
robots
XY-X

SCARA
robots
YK-X

Pick & place
robots
YP-X

CLEAN

CONTROLLER

INFORMATION

Arm type

Gantry type

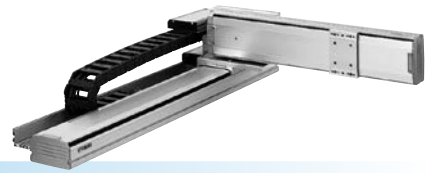
Moving arm
type

Pole type

XZ type

SXYx 2 axes

● Arm type ● Cable carrier



Ordering method

SXYx - C					RCX222				
Model	Cable	Combination	X-axis stroke	Y-axis stroke	Cable	Controller	Usable for CE	Input/Output selection 1	Input/Output selection 2
A1			15 to 105cm	15 to 65cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None N1: OP.DIO24/16 (NPN) ^{Note 1} P1: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 3}

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	F14H	F14
AC servo motor output (W)	200	100
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20
Maximum speed ^{Note 4} (mm/sec)	1200	1200
Moving range (mm)	150 to 1050	150 to 650
Robot cable length (m)	Standard: 3.5 Option: 5,10	

Note 1. Use caution that the flange 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.

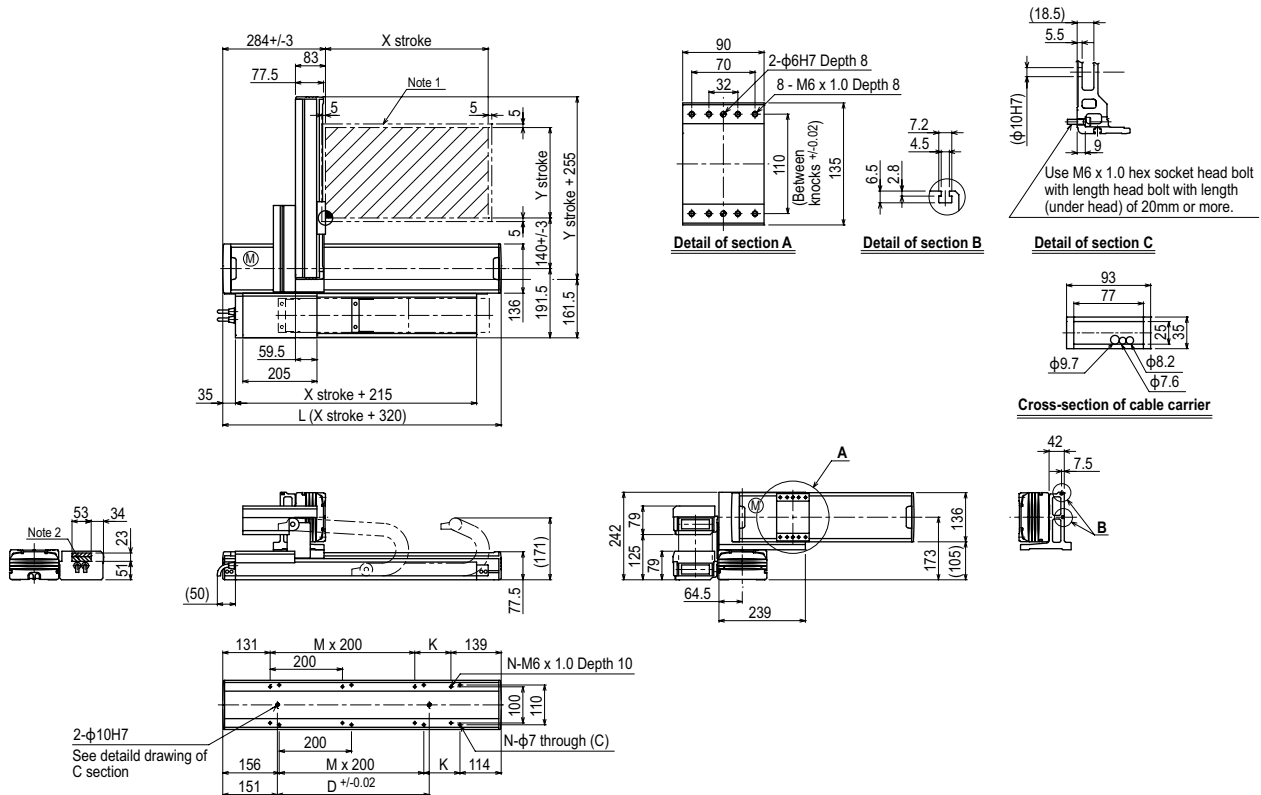
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150	20
250	17
350	15
450	13
550	11
650	9

Controller

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

SXYx 2 axes A1

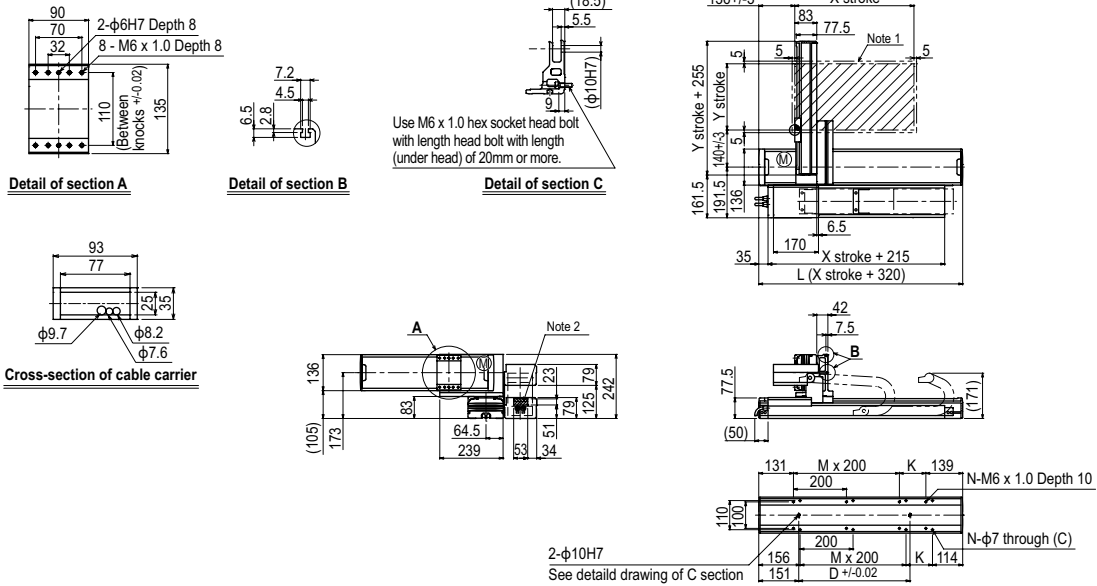


X stroke	Y stroke										
	150	250	350	450	550	650	750	850	950	1050	
L	470	570	670	770	870	970	1070	1170	1270	1370	
K	200	100	200	100	200	100	200	100	200	100	
D	240	240	420	420	600	600	780	960	960	1140	
M	0	1	1	2	2	3	3	4	4	5	
N	4	6	6	8	8	10	10	12	12	14	
Y stroke	150	250	350	450	550	650					
Maximum speed for each stroke (mm/sec) ^{Note 3}	X-axis	1200					960	780	600	540	
	Speed setting	-					80%	65%	50%	45%	

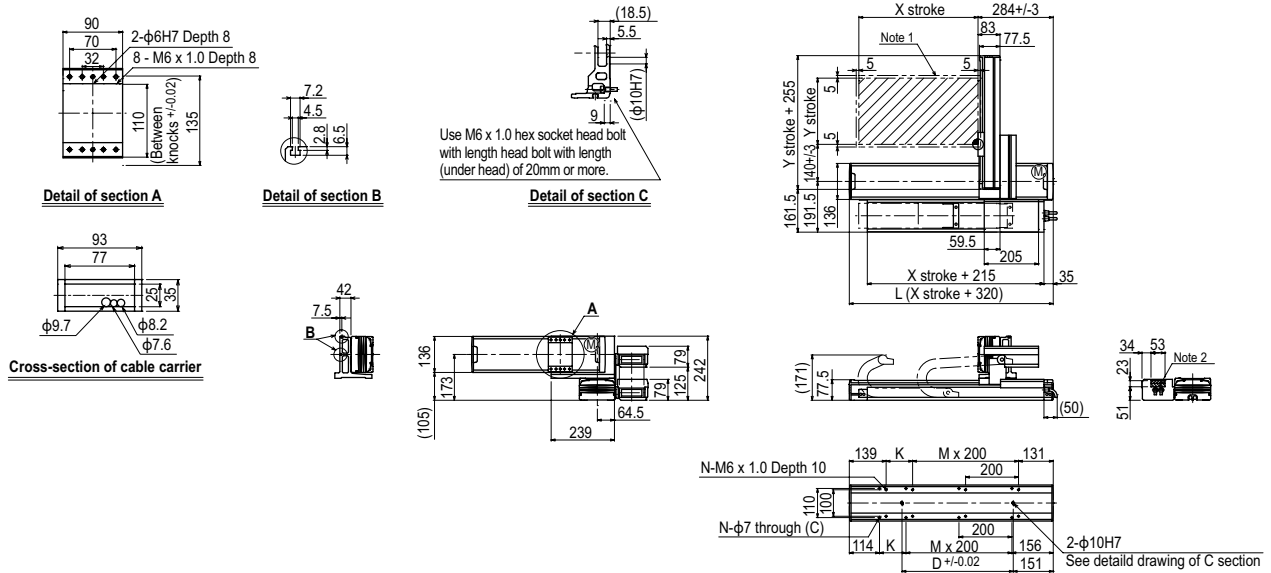
Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
 Note 2. The shaded position indicates a user cable extraction port.

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.

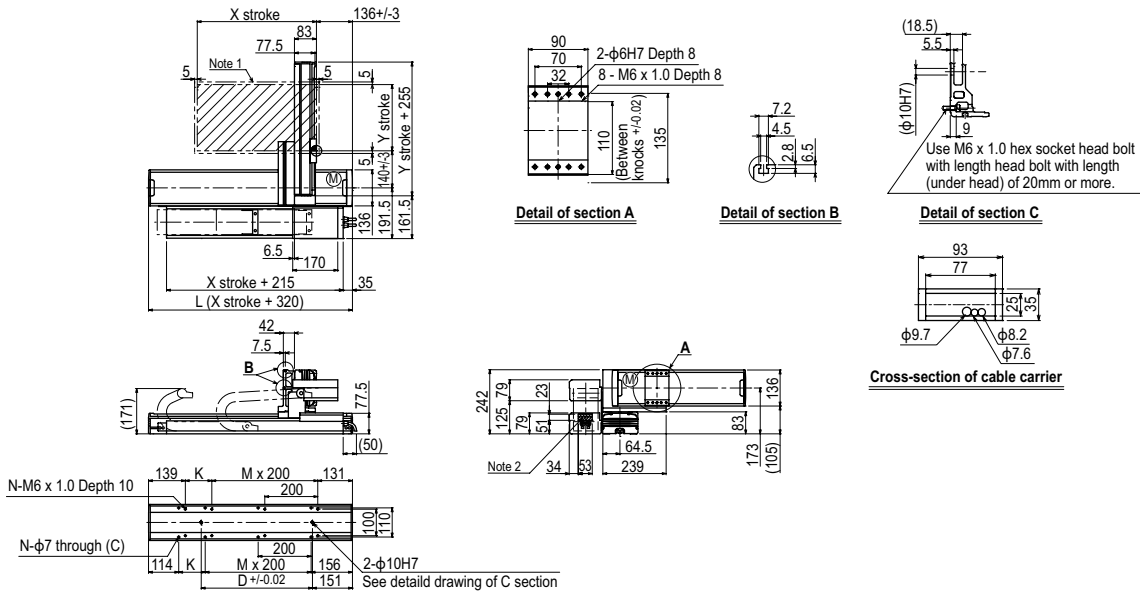
SXYx 2 axes **A2**



SXYx 2 axes **A3**

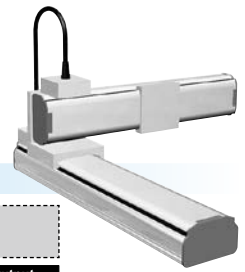


SXYx 2 axes **A4**



SXYx 2 axes

● Arm type ● Whipover



Ordering method

SXYx - S					RCX222				
Model	Cable	Combination	X-axis stroke	Y-axis stroke	Cable	Controller	Usable for CE	Input/Output selection 1	Input/Output selection 2
A1			15 to 85cm	15 to 65cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None N1: OP.DIO24/16 (NPN) ^{Note 1} P1: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 3}

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	F14H	F14
AC servo motor output (W)	200	100
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20
Maximum speed ^{Note 4} (mm/sec)	1200	1200
Moving range (mm)	150 to 850	150 to 650
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.

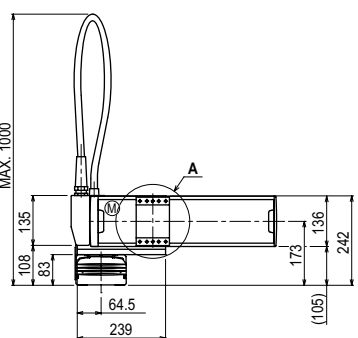
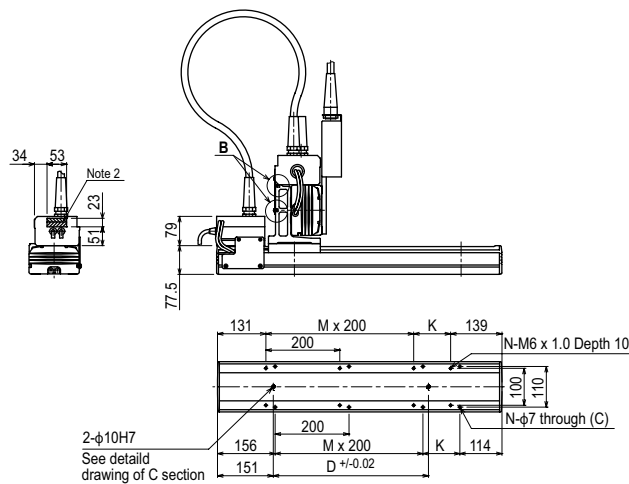
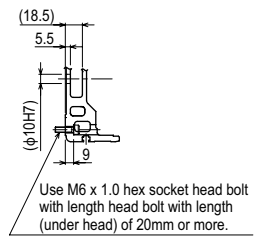
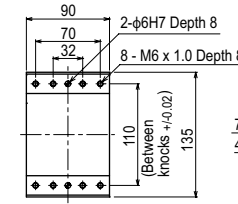
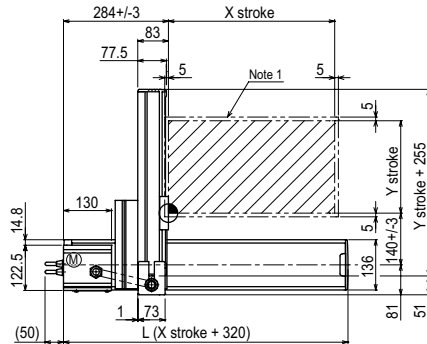
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150	20
250	17
350	15
450	13
550	11
650	9

Controller

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

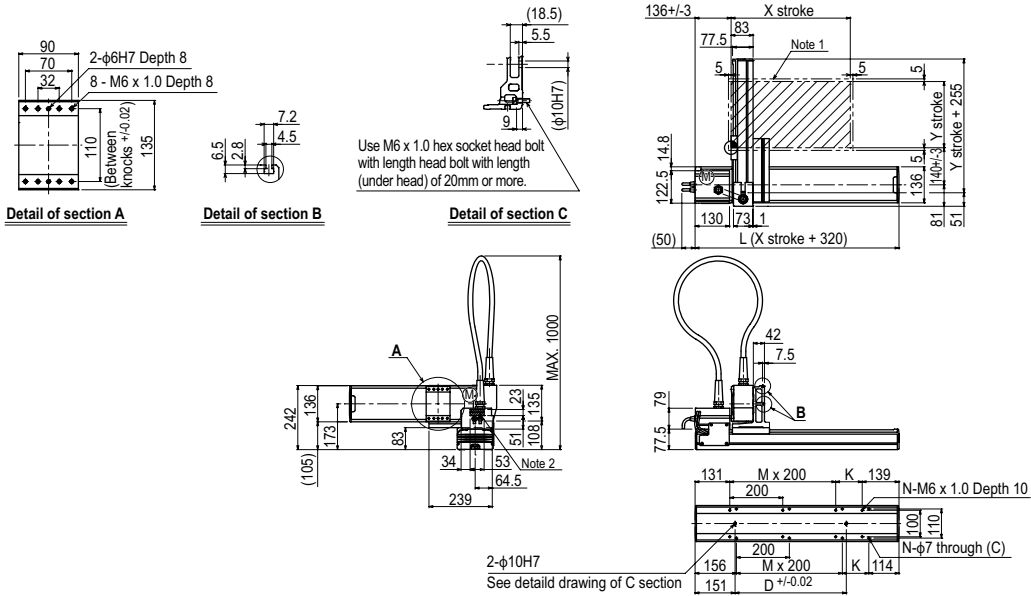
SXYx 2 axes A1



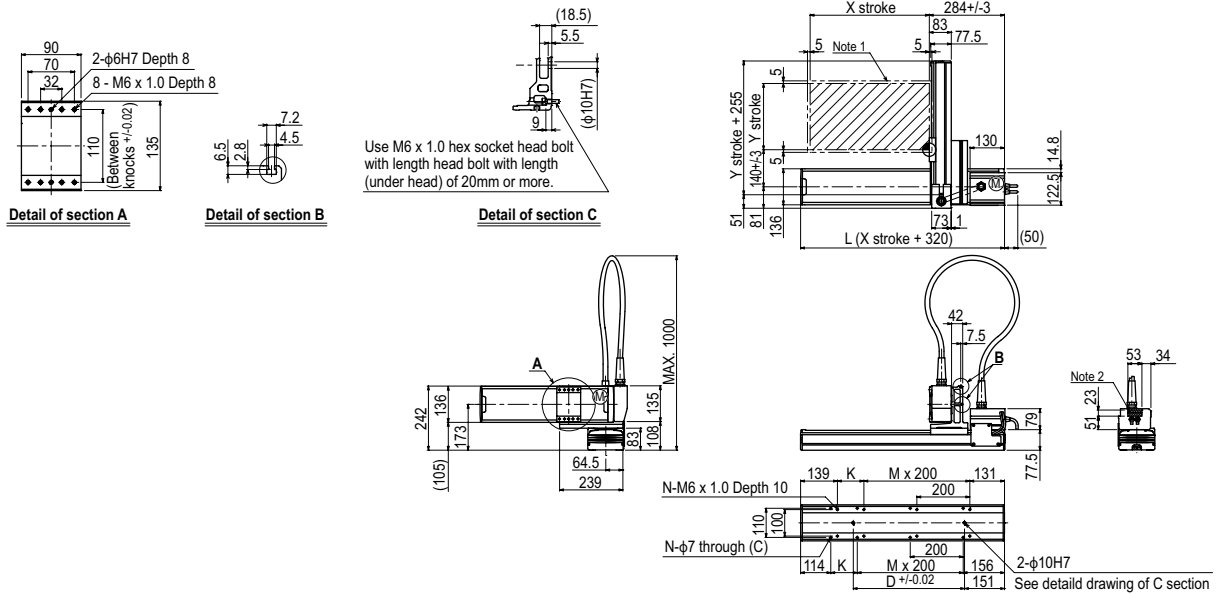
X stroke	150	250	350	450	550	650	750	850
L	470	570	670	770	870	970	1070	1170
K	200	100	200	100	200	100	200	100
D	240	240	420	420	600	600	780	960
M	0	1	1	2	2	3	3	4
N	4	6	6	8	8	10	10	12
Y stroke	150	250	350	450	550	650		
Maximum speed for each stroke (mm/sec) ^{Note 3}	X-axis		1200				960	780
	Speed setting		-				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 above.

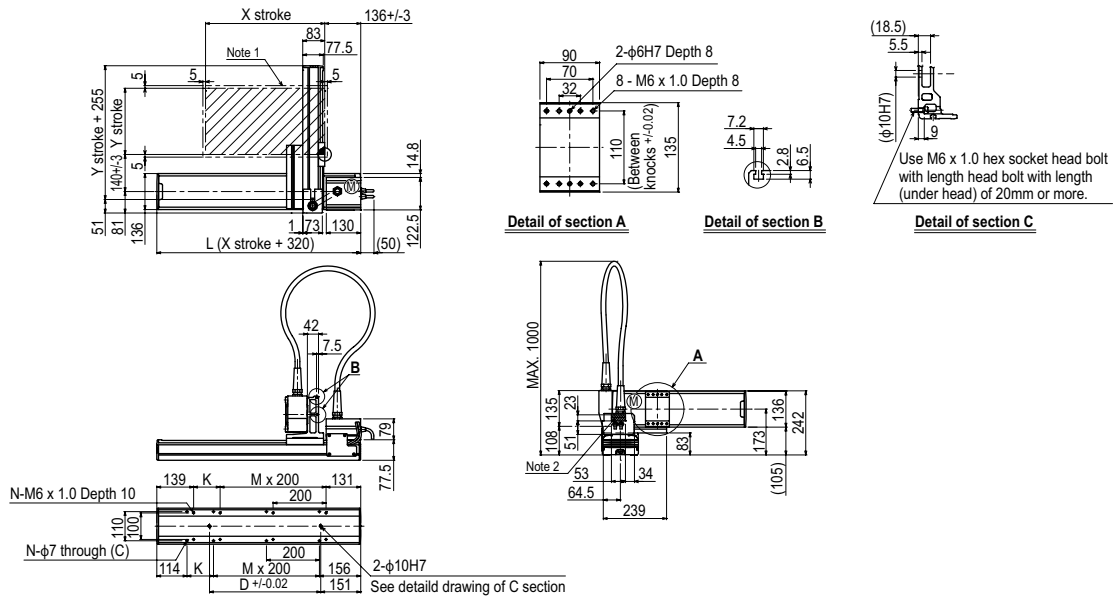
SXYx 2 axes **A2**



SXYx 2 axes **A3**

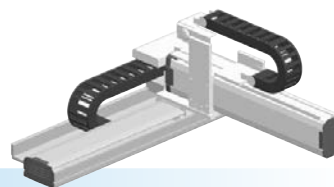


SXYx 2 axes **A4**



SXYx 2 axes / IO

● Arm type ● Cable carrier



Ordering method

SXYx - C					IO		RCX222			
Model	Cable	Combination	X-axis stroke	Y-axis stroke	ZR-axis	Cable	Controller	Usable for CE	Input/Output selection 1	Input/Output selection 2
A1			15 to 105cm	15 to 65cm		3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None N1: OP.DIO24/16 (NPN) ^{Note 1} P1: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 3}
A2										
A3										
A4										

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	F14H	F14
AC servo motor output (W)	200	100
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20
Maximum speed ^{Note 4} (mm/sec)	1200	1200
Moving range (mm)	150 to 1050	150 to 650
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.

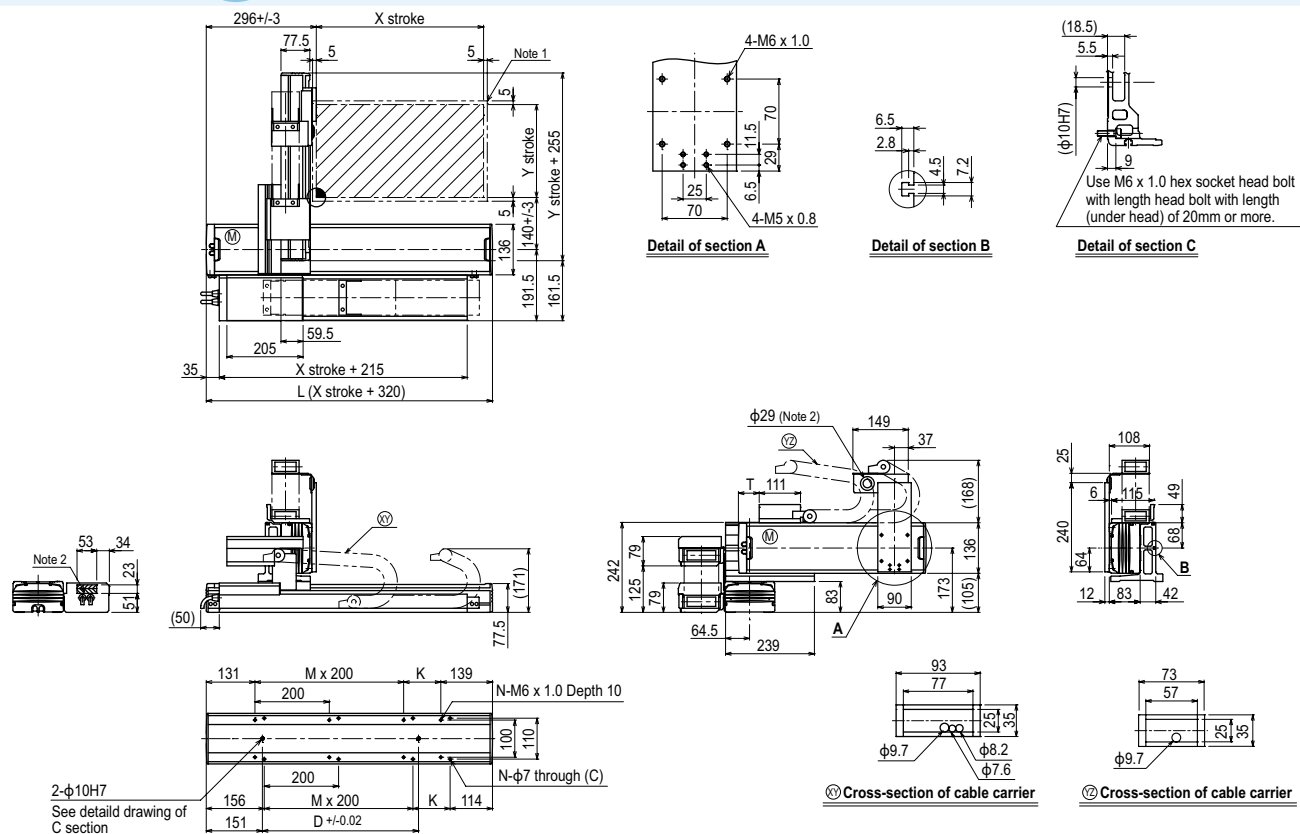
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150	19
250	16
350	14
450	12
550	10
650	8

Controller

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

SXYx 2 axes / IO A1



X stroke	150	250	350	450	550	650	750	850	950	1050
L	470	570	670	770	870	970	1070	1170	1270	1370
K	200	100	200	100	200	100	200	100	200	100
D	240	240	420	420	600	600	780	960	960	1140
M	0	1	1	2	2	3	3	4	4	5
N	4	6	6	8	8	10	10	12	12	14
Y stroke	150	250	350	450	550	650				
T	55	110	165	220	275	330				
Maximum speed for each stroke (mm/sec) ^{Note 3}	X-axis		1200			960		780	600	540
Speed setting	X-axis		-			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 a 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.

Articulated robots
YA

Linear conveyor
modules
LCMT100

Compact
single-axis robots
TRANSERVO

Single-axis robots
FLIP-X

Linear motor
single-axis robots
PHASER

Cartesian
robots
XY-X

SCARA
robots
YK-X

Pick & place
robots
YP-X

CLEAN

CONTROLLER

INFORMATION

Arm type

Gantry type

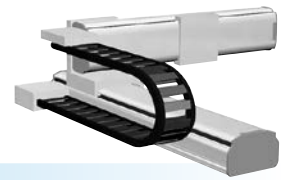
Moving arm
type

Pole type

XZ type

SXYBx 2 axes

● Arm type ● Cable carrier



Ordering method

SXYBx - C						RCX222				
Model	Cable	Combination	X-axis stroke	Y-axis stroke	Cable	Controller	Usable for CE	Regenerative unit	Input/Output selection 1	Input/Output selection 2
A1			15 to 305cm	15 to 55cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	No entry: None R: RG2	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link	No entry: None NT: OP.DIO24/16 (NPN) PT: OP.DIO24/17 (PNP) EN: Ethernet

Note 1. Regenerative unit RG2 is required when the maximum speed on the RCX222 exceeds 1250mm/sec.
 Note 2. NPN cannot be selected if using CE marking.
 Note 3. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction	B14H	B14
AC servo motor output (W)	200	100
Repeatability (mm)	+/-0.04	+/-0.04
Drive system	Timing belt	Timing belt
Ball screw lead (Deceleration ratio) (mm)	Equivalent to lead 25	Equivalent to lead 25
Maximum speed (mm/sec)	1875	1875
Moving range (mm)	150 to 3050	150 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. Leads not listed in the catalog are also available. Contact us for details.

Maximum payload (kg)

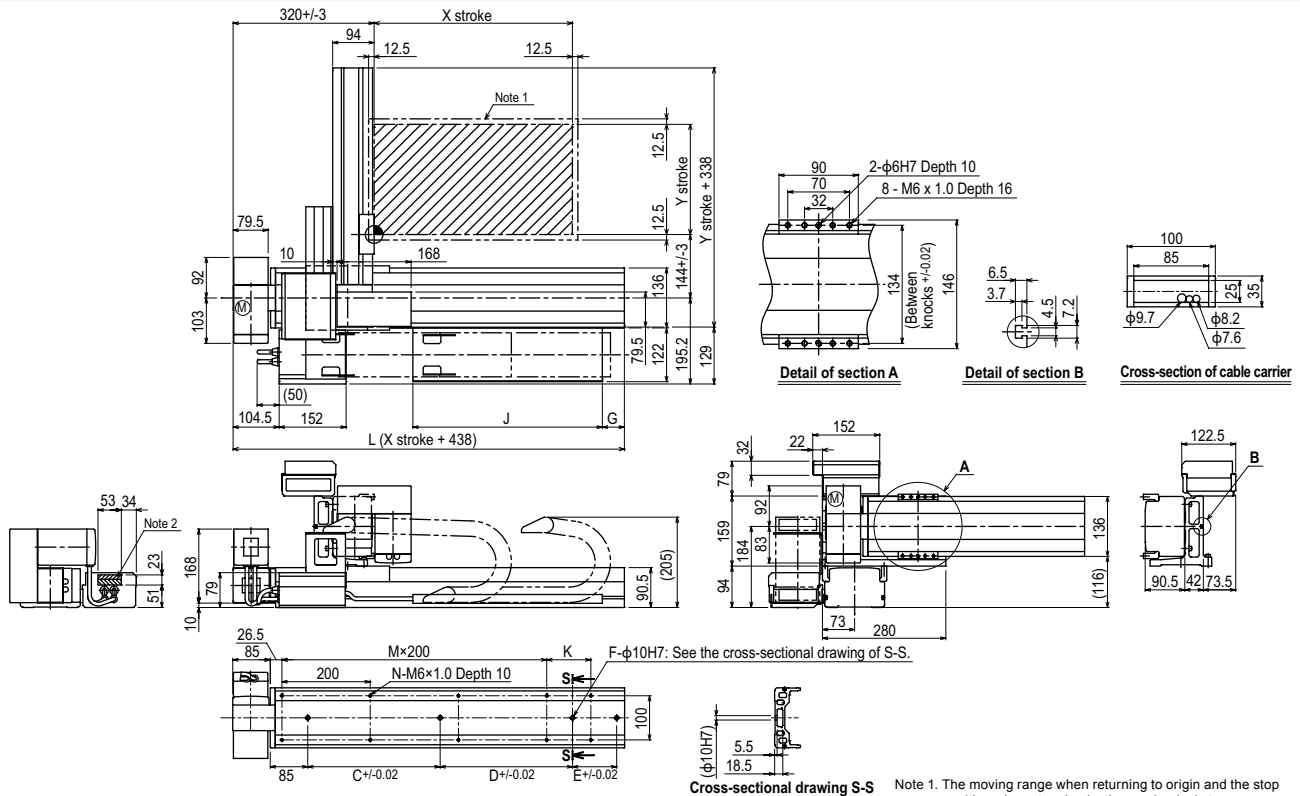
Y stroke (mm)	XY 2 axes
150	14
250	12
350	10
450	8
550	7

Controller

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

Note. Regenerative unit RG2 is required when the maximum speed exceeds 1250mm/sec.

SXYBx 2 axes A1



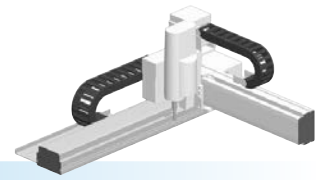
Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
 Note 2. The shaded position indicates an user cable extraction port.

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	200
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	1140
D	-	-	-	-	-	-	-	-	-	240	240	240	420	600	600	780	780	960	960	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240	240	420	420	600	600	780	780	960	960	
F	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
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	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																										

SXYBx

4 axes / ZRS

- Arm type
- Cable carrier
- ZR axis integrated type



Ordering method

SXYBx - C **15**

Model	Cable	Combination	X-axis stroke	Y-axis stroke	ZR-axis	Z-axis stroke	Cable
A1			15 to 305cm	15 to 55cm	ZRS12		3L: 3.5m 5L: 5m 10L: 10m
A2					ZRS6		
A3							
A4							

RCX340-4

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
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Specify various controller setting items. RCX340 ▶ **P544**

RCX240S **R**

Controller	CE Marking	Regenerative unit	Expansion I/O	Network option	IVY System	Gripper	Battery
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Specify various controller setting items. RCX240/RCX240S ▶ **P534**

Specification

	X-axis	Y-axis	Z-axis: ZRS12	Z-axis: ZRS6	R-axis
Axis construction ^{Note 1}	B14H	B14	-	-	-
AC servo motor output (W)	200	100	60	100	
Repeatability ^{Note 2} (XYZ: mm)(R: °)	+/-0.04	+/-0.04	+/-0.02	+/-0.005	
Drive system	Timing belt	Timing belt	Ball screw	Harmonic gear	
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	Equivalent to lead 25	Equivalent to lead 25	12	6	(1/50)
Maximum speed (XYZ: mm/sec)(R: °/sec)	1875	1875	1000	500	1020
Moving range (XYZ: mm)(R: °)	150 to 3050	150 to 550	150		360
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.

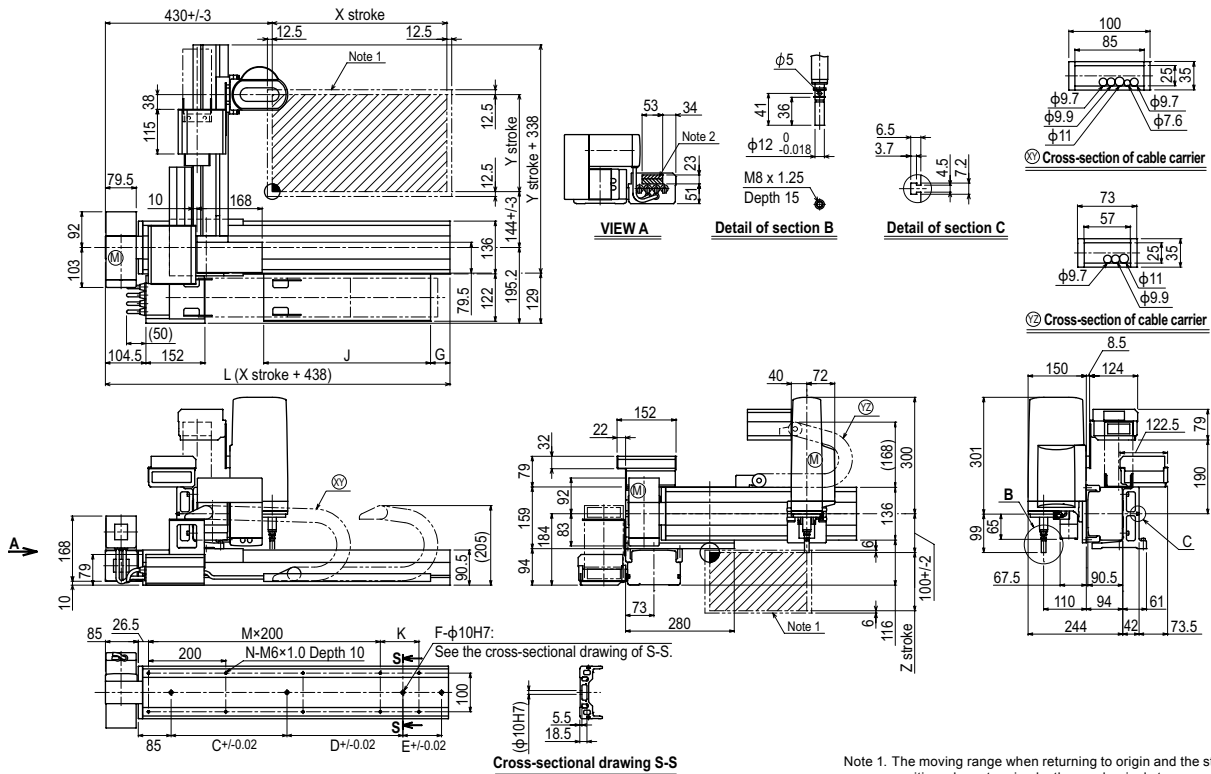
Maximum payload (kg)

Y stroke (mm)	ZRS12	ZRS6
150	3	5
250	3	5
350	3	5
450	3	3
550	2	2

Controller

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

SXYBx 4 axes / ZRS 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.

	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	
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	200
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	1140
D	-	-	-	-	-	-	-	-	-	-	240	240	240	420	600	600	780	780	960	960	1140	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	3	3	3	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	0
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																														

Articulated robots
YA

Linear conveyor
modules
LCMT100

Compact
single-axis robots
TRANSERVO

Single-axis robots
FLIP-X

Linear motor
single-axis robots
PHASER

Cartesian
robots
XY-X

SCARA
robots
YK-X

Pick & place
robots
YP-X

CLEAN

CONTROLLER

INFORMATION

Arm type

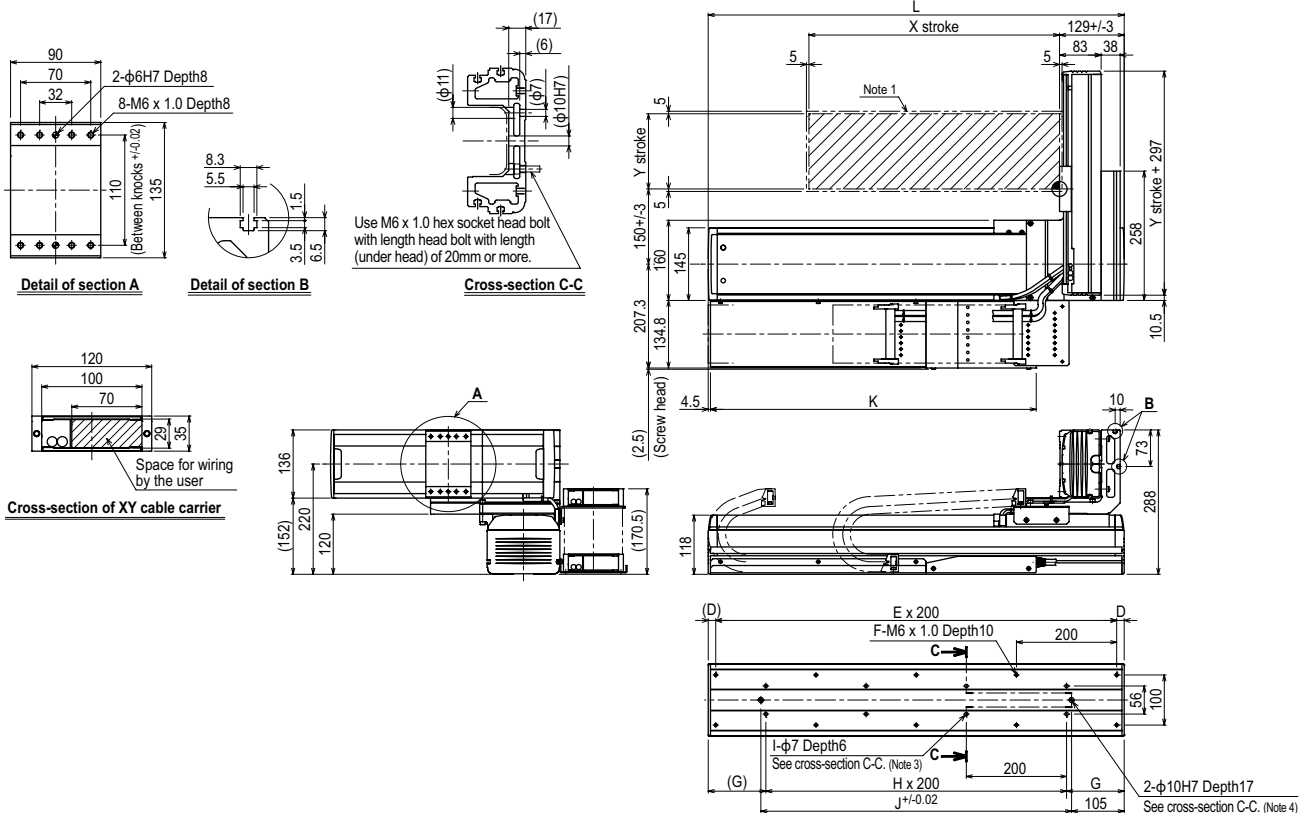
Gantry type

Moving arm
type

Pole type

XZ type

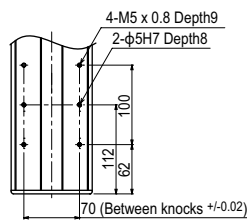
NXY 2 axes **A3**



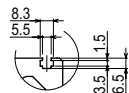
X stroke	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330
D	15	65	15	65	15	65	15	65	15	65	15	65	15	65	15	65
E	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
F	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
G	115	165	115	165	115	165	115	165	115	165	115	165	115	165	115	165
H	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
I	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22
J	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120
K	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
Y stroke	150	250	350	450	550	650										

- Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
- Note 2. The origin of the X axis is set originally as the drawing and it is possible to change it to the R side origin by changing parameters.
- Note 3. When using φ7 holes for installation, you must not use a washer, spring washer, etc. in the main unit.
- Note 4. When using a φ10H7 hole, make sure that the pin does not go into deeper than as shown in the drawing.
- Note 5. Use M4 tap of the box next to X axis for the user grounding terminal.
- Note 6. The M4 taps at both ends of the cable carriage can be used for fixing cables.

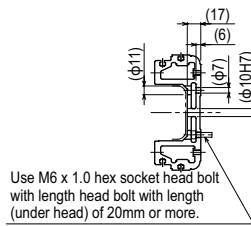
NXY 3 axes / ZFH **A3**



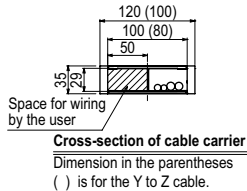
Detail of section A



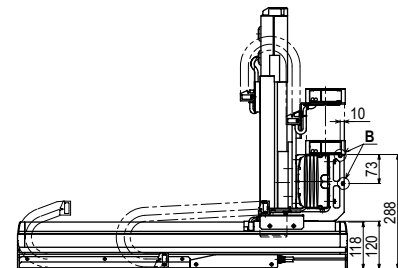
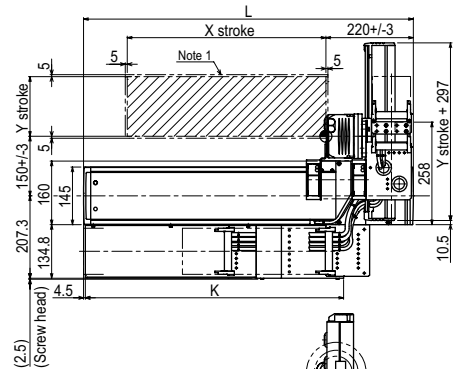
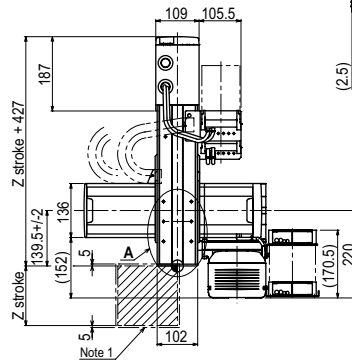
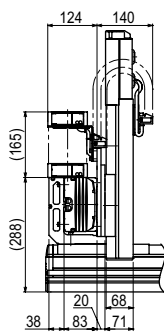
Detail of section B



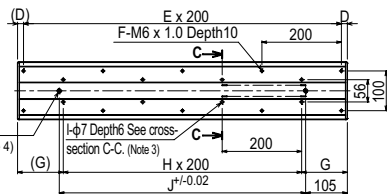
Cross-section C-C



Cross-section of cable carrier
Dimension in the parentheses () is for the Y to Z cable.



2-φ10H7 Depth17
See cross-section C-C. (Note 4)



X stroke	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
L	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330
D	15	65	15	65	15	65	15	65	15	65	15	65	15	65	15	65
E	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
F	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
G	115	165	115	165	115	165	115	165	115	165	115	165	115	165	115	165
H	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
I	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22
J	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120
K	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400
Y stroke	150	250	350	450	550	650										
Z stroke	150	250	350													

- Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
- Note 2. The origin of the X axis is set originally as the drawing and it is possible to change it to the R side origin by changing parameters.
- Note 3. When using φ7 holes for installation, you must not use a washer, spring washer, etc. in the main unit.
- Note 4. When using a φ10H7 hole, make sure that the pin does not go into deeper than as shown in the drawing.
- Note 5. Use M4 tap of the box next to X axis for the user grounding terminal.
- Note 6. The M4 taps at both ends of the cable carriage can be used for fixing cables.

Articulated robots
YA

Linear conveyor
modules
LCMT100

Compact
single-axis robots
TRANSERVO

Single-axis robots
FLIP-X

Linear motor
single-axis robots
PHASER

Cartesian
robots
XY-X

SCARA
robots
YK-X

Pick & place
robots
YP-X

CLEAN

CONTROLLER

INFORMATION

Arm type

Gantry type

Moving arm
type

Pole type

XZ type

MXYx 2 axes

● Arm type ● Cable carrier



Ordering method

MXYx - C					RCX222			R		
Model	Cable	Combination	X-axis stroke	Y-axis stroke	Cable	Controller	Usable for CE	Regenerative unit	Input/Output selection 1	Input/Output selection 2
A1		A1	25 to 125cm	15 to 65cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	R: RG2	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None N1: OP.DIO24/16 (NPN) ^{Note 1} P1: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 3}

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	F17	F14H
AC servo motor output (W)	400	200
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20
Maximum speed ^{Note 4} (mm/sec)	1200	1200
Moving range (mm)	250 to 1250	150 to 650
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 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.

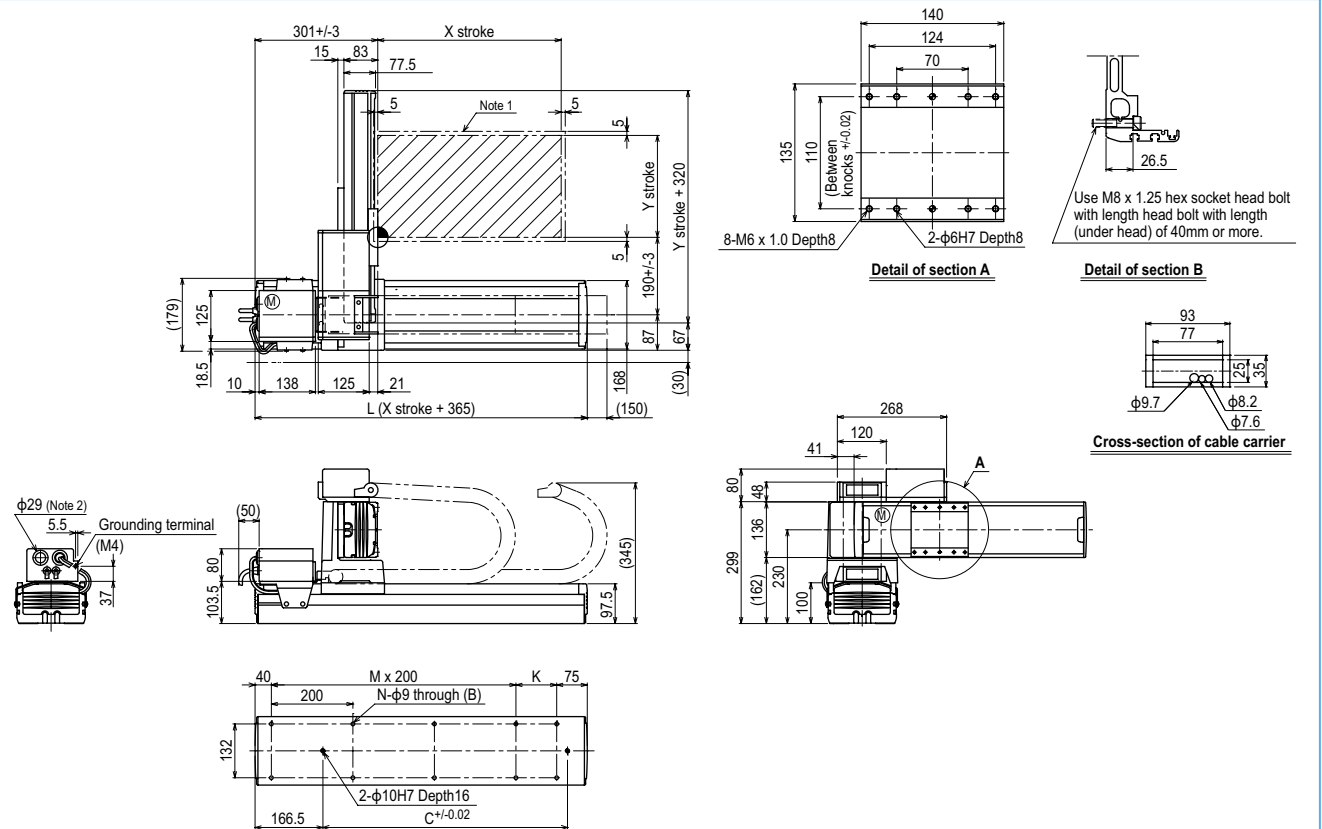
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150	30
250	30
350	25
450	20
550	20
650	16

Controller

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

MXYx 2 axes A1



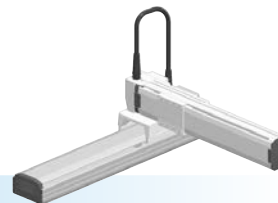
X stroke	250	350	450	550	650	750	850	950	1050	1150	1250
L	615	715	815	915	1015	1115	1215	1315	1415	1515	1615
K	100	200	100	200	100	200	100	200	100	200	100
C	240	420	600	600	780	780	960	960	1140	1140	1320
M	2	2	3	3	4	4	5	5	6	6	7
N	8	8	10	10	12	12	14	14	16	16	18
Y stroke	150	250	350	450	550	650					
Maximum speed for each stroke (mm/sec) ^{Note 3}	X-axis		1200				960	840	720	600	480
Speed setting			-				80%	70%	60%	50%	40%

Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
 Note 2. User cable extraction port.

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.

MXYx 2 axes

● Arm type ● Whipover



Ordering method

MXYx - S					RCX222		R			
Model	Cable	Combination	X-axis stroke	Y-axis stroke	Cable	Controller	Usable for CE	Regenerative unit	Input/Output selection 1	Input/Output selection 2
A1		A1	25 to 85cm	15 to 65cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	R: RG2	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None N1: OPDIO24/16 (NPN) ^{Note 1} P1: OPDIO24/17 (PNP) EN: Ethernet ^{Note 3}

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	F17	F14H
AC servo motor output (W)	400	200
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20
Maximum speed ^{Note 4} (mm/sec)	1200	1200
Moving range (mm)	250 to 850	150 to 650
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 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.

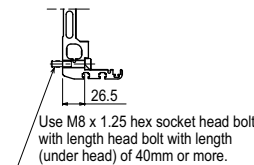
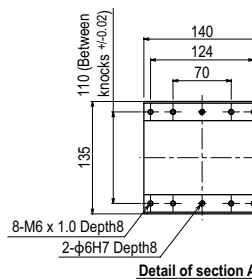
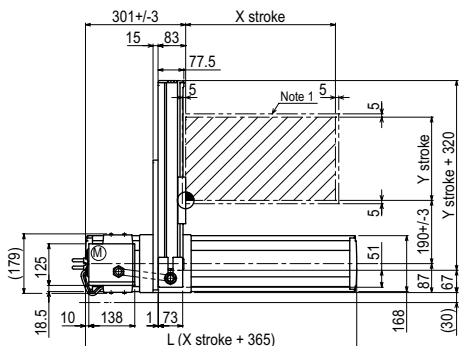
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150	30
250	30
350	25
450	20
550	20
650	16

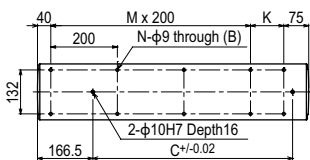
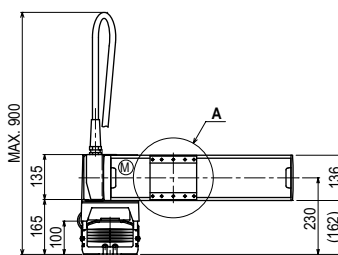
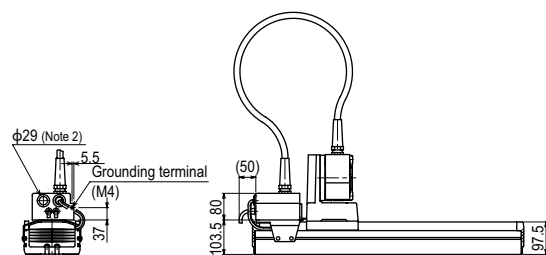
Controller

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

MXYx 2 axes A1



Detail of section B

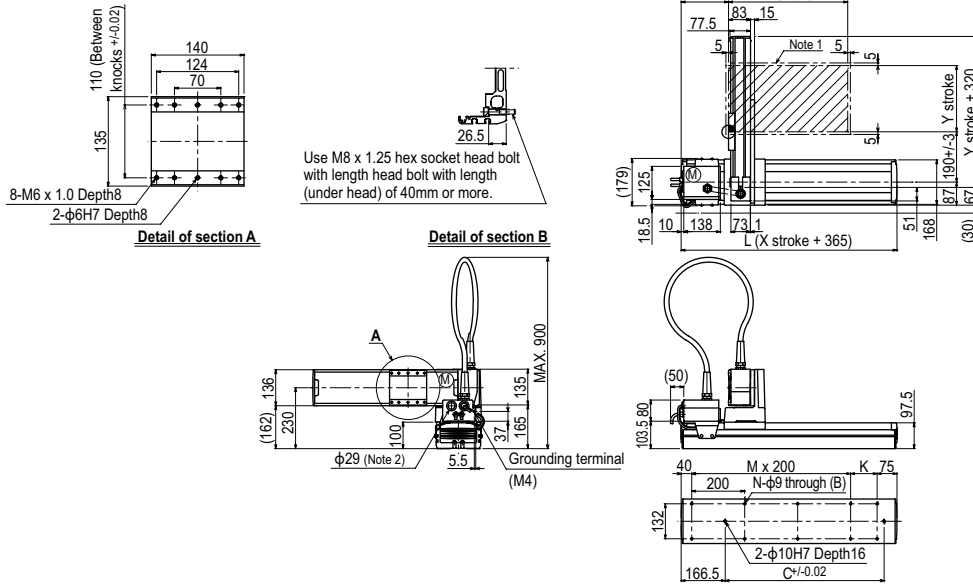


X stroke	250	350	450	550	650	750	850
L	615	715	815	915	1015	1115	1215
K	100	200	100	200	100	200	100
C	240	420	600	600	780	780	960
M	2	2	3	3	4	4	5
N	8	8	10	10	12	12	14
Y stroke	150	250	350	450	550	650	
Maximum speed for each stroke (mm/sec) ^{Note 3}	X-axis		1200				960
Speed setting	X-axis		-				80%

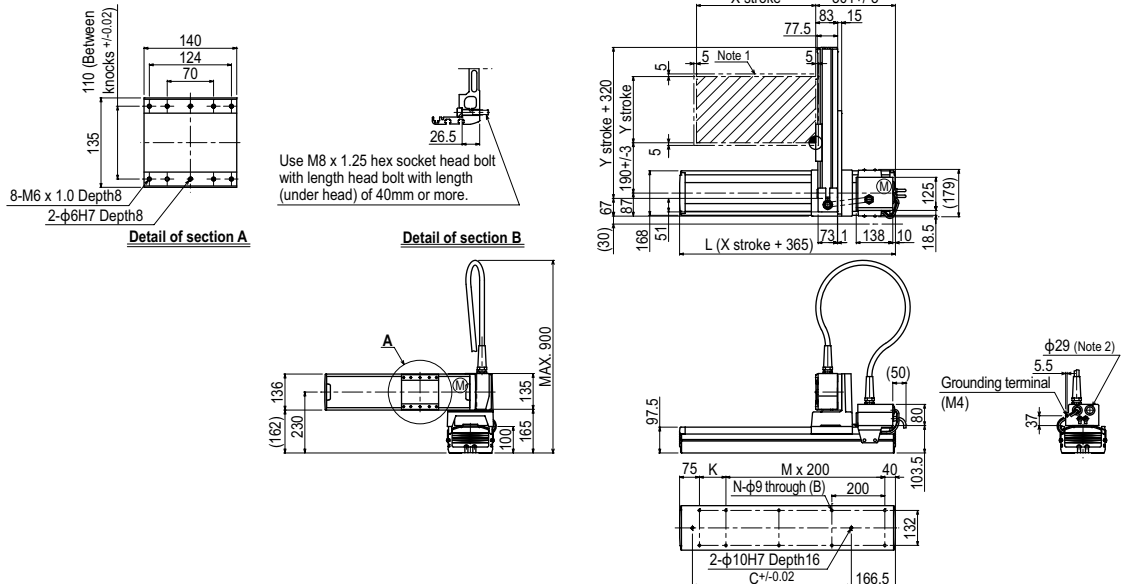
Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
 Note 2. User cable extraction port.

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.

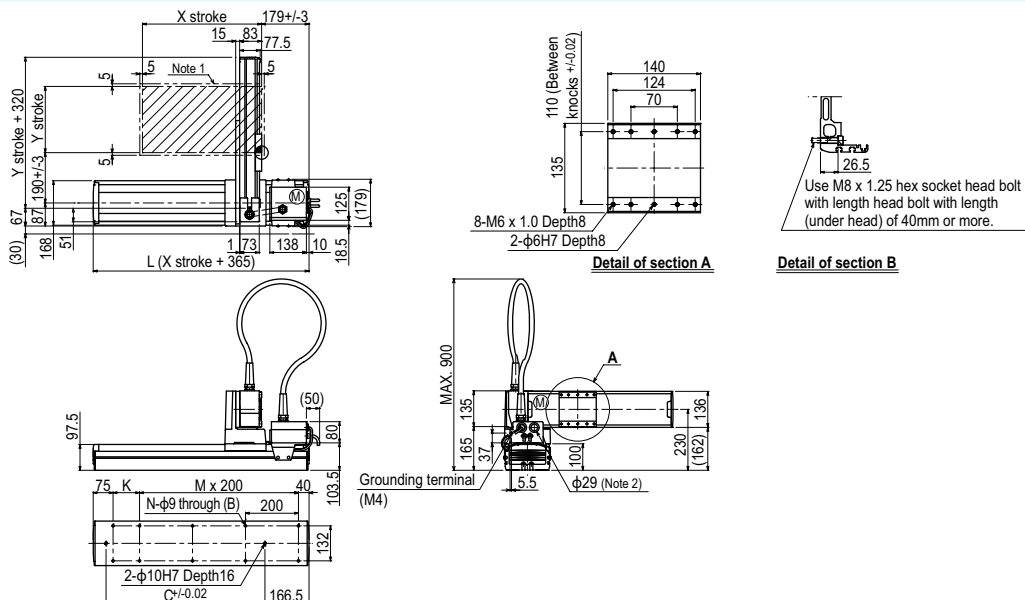
MXYx 2 axes **A2**



MXYx 2 axes **A3**



MXYx 2 axes **A4**

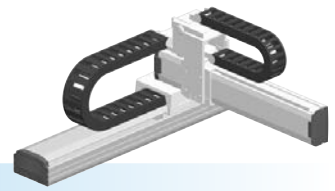


Articulated robots	YA
Linear conveyor modules	LCM100
Compact single-axis robots	TRANSEVO
Single-axis robots	FLIP-X
Linear motor single-axis robots	PHASER
Cartesian robots	XX-X
SCARA robots	YK-X
Pick & place robots	YP-X
CLEAN	
CONTROLLER	
INFORMATION	
Arm type	
Gantry type	
Moving arm type	
Pole type	
XZ type	

MXYx

2 axes / IO

- Arm type
- Cable carrier
- Type with Y-axis I/O cable carrier added



Ordering method

MXYx - C					IO		RCX222			R		
Model	Cable	Combination	X-axis stroke	Y-axis stroke	ZR-axis	Cable	Controller	Usable for CE	Regenerative unit	Input/Output selection 1	Input/Output selection 2	
A1			25 to 125cm	15 to 65cm		3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry; Standard E: CE marking	R: RG2	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet ^{Note 2} YC: YC-Link ^{Note 2}	No entry; None N1: OPDIO24/16 (NPN) ^{Note 1} P1: OPDIO24/17 (PNP) EN: Ethernet ^{Note 3}	

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	F17	F14H
AC servo motor output (W)	400	200
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20
Maximum speed ^{Note 4} (mm/sec)	1200	1200
Moving range (mm)	250 to 1250	150 to 650
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 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.

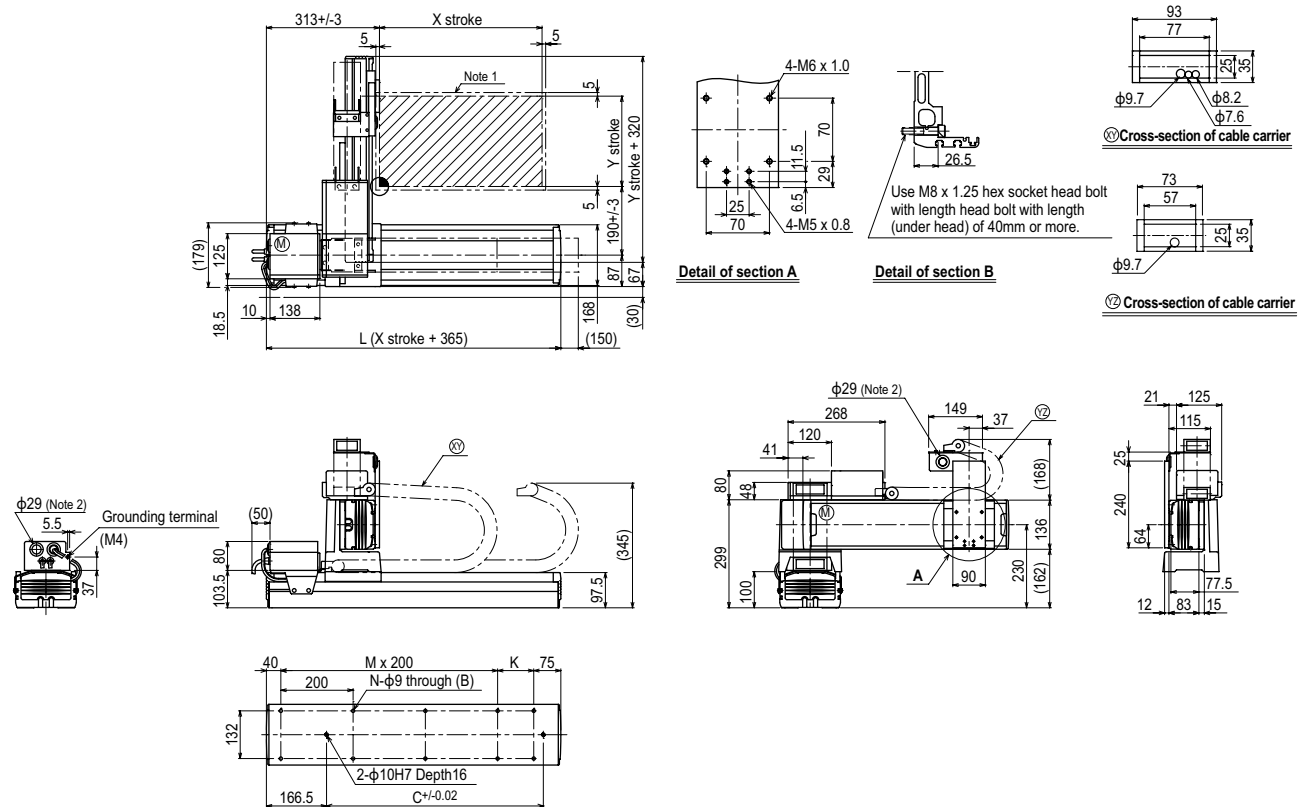
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150	29
250	29
350	24
450	19
550	19
650	15

Controller

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

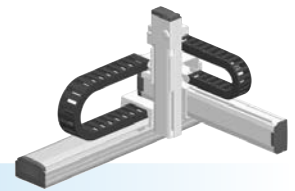
MXYx 2 axes / IO (A1)



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	780	780	960	960	1140	1140	1320	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	
Y stroke	150	250	350	450	550	650						
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 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
 Note 2. User cable extraction port.

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.



Ordering method

MXYx - C

Model	Cable	Combination	X-axis stroke	Y-axis stroke	ZR-axis	Z-axis stroke	Cable
		A1 A2 A3 A4	25 to 125cm	15 to 65cm	ZFL20 ZFL10	15 to 35cm	3L: 3.5m 5L: 5m 10L: 10m

RCX340-3

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
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Specify various controller setting items. RCX340 ▶ **P544**

RCX240

Controller	CE Marking	Regenerative unit	Expansion I/O	Network option	IVY System	Gripper	Battery
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Specify various controller setting items. RCX240/RCX240S ▶ **P534**

Specification

	X-axis	Y-axis	Z-axis: ZFL20	Z-axis: ZFL10
Axis construction ^{Note 1}	F17	F14H	F10-BK equivalent guide-reinforced model	
AC servo motor output (W)	400	200	200	
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01	+/-0.01	
Drive system	Ball screw	Ball screw	Ball screw	
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20	20	10
Maximum speed ^{Note 4} (mm/sec)	1200	1200	1200	600
Moving range (mm)	250 to 1250	150 to 650	150 to 350	
Robot cable length (m)	Standard: 3.5 Option: 5,10			

Note. The standard types are ZFL with higher rigidity as compared with ZF types which are conventional standard types. When you need the ZF type, please consult YAMAHA.

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 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.

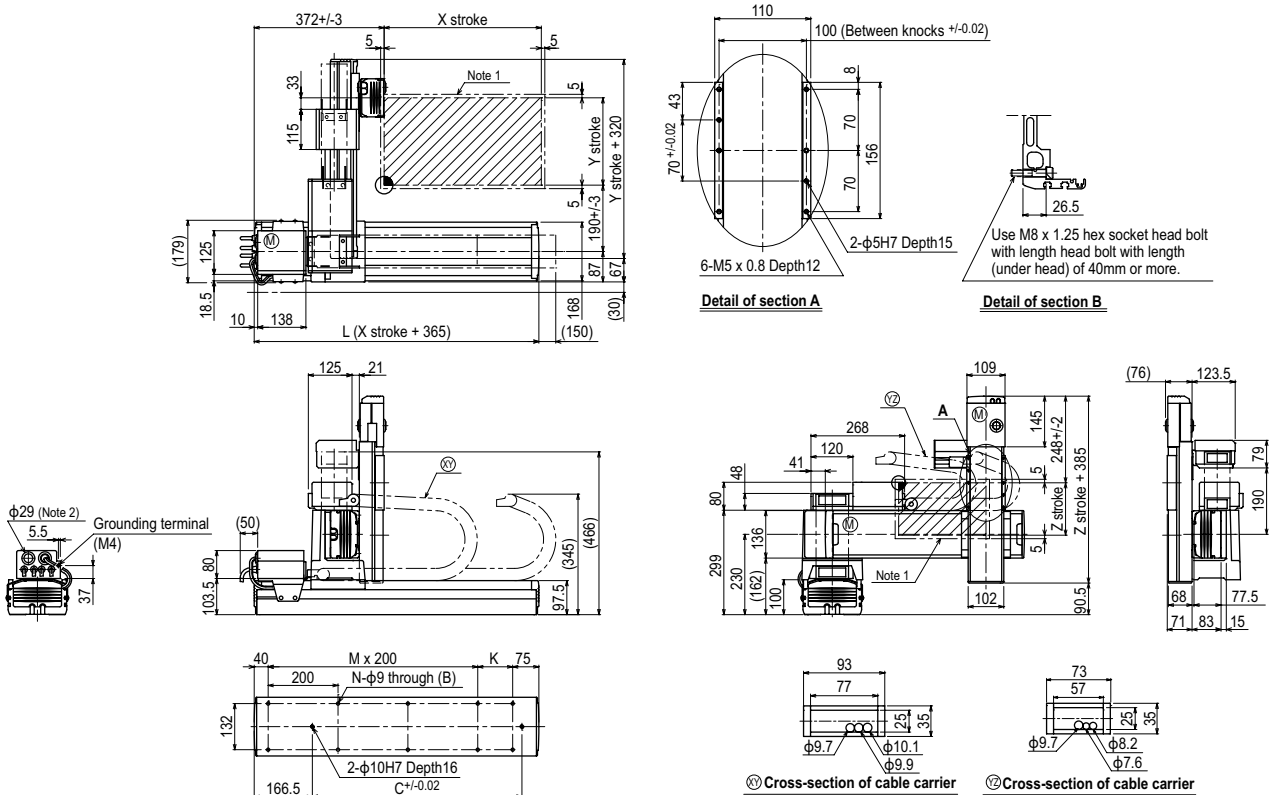
Maximum payload (kg)

	Z stroke (mm)					
	ZFL20			ZFL10		
	150	250	350	150	250	350
150	8	8	8	15	15	15
250	8	8	8	15	15	15
350	8	8	8	15	15	15
450	8	8	8	12	11	10
550	8	8	8	12	11	10
650	8	7	6	8	7	6

Controller

Controller	Operation method
RCX340 RCX240-R	Programming / I/O point trace / Remote command / Operation using RS-232C communication

MXYx 3 axes / ZFL20/10 A1



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
Y stroke	150	250	350	450	550	650					
Z stroke	150	250	350								
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 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.

Note 2. User cable extraction port.

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.

Articulated robots
YA

Linear conveyor modules
LCM100

Compact single-axis robots
TRANSEVO

Single-axis robots
FLIP-X

Linear motor single-axis robots
PHASER

Cartesian robots
XX-X

SCARA robots
YK-X

Pick & place robots
YP-X

CLEAN

CONTROLLER INFORMATION

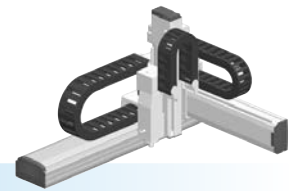
Arm type

Gantry type

Moving arm type

Pole type

XZ type



Ordering method

MXYx - C

Model	Cable	Combination	X-axis stroke	Y-axis stroke	ZR-axis	Z-axis stroke	Cable
		A1 A2 A3 A4	25 to 125cm	15 to 65cm	ZRFL20 ZRFL10	15 to 35cm	3L: 3.5m 5L: 5m 10L: 10m

RCX340-4

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

Specify various controller setting items. RCX340 ▶ P.544

RCX240

Controller	CE Marking	Regenerative unit	Expansion I/O	Network option	IVY System	Gripper	Battery

Specify various controller setting items. RCX240/RCX240S ▶ P.534

Specification

	X-axis	Y-axis	Z-axis: ZRFL20	Z-axis: ZRFL10	R-axis
Axis construction ^{Note 1}	F17	F14H	F10-BK equivalent guide-reinforced model		R5
AC servo motor output (W)	400	200	200		50
Repeatability ^{Note 2} (XYZ: mm) (R: °)	+/-0.01	+/-0.01	+/-0.01		+/-0.0083
Drive system	Ball screw	Ball screw	Ball screw		Harmonic gear
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20	20	10	(1/50)
Maximum speed ^{Note 4} (XYZ: mm/sec) (R: °/sec)	1200	1200	1200	600	360
Moving range (XYZ: mm)(R: °)	250 to 1250	150 to 650	150 to 350		360
Robot cable length (m)	Standard: 3.5 Option: 5, 10				

Note. The standard types are ZRFL with higher rigidity as compared with ZRF types which are conventional standard types. When you need the ZRF type, please consult YAMAHA.

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 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.

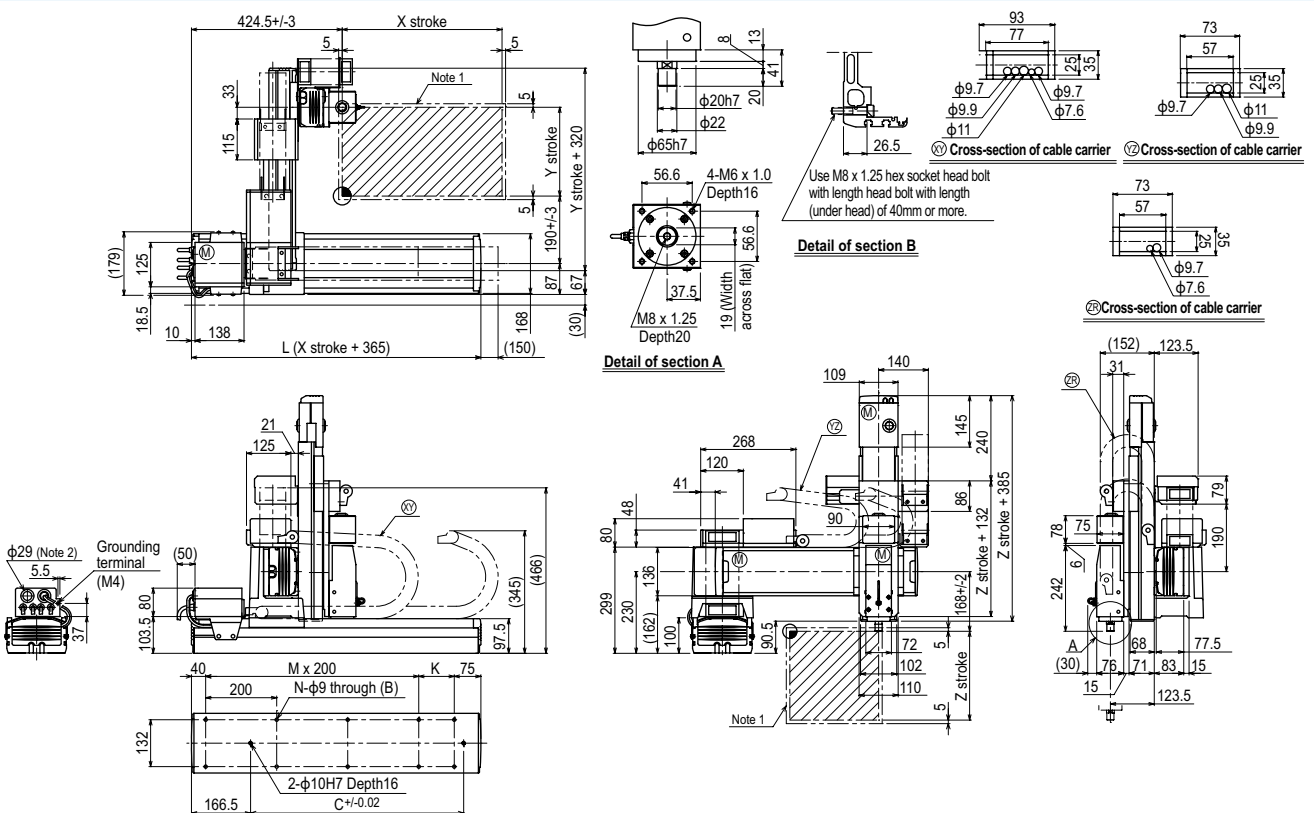
Maximum payload (kg)

Y stroke (mm)	Z stroke (mm)					
	ZRFL20			ZRFL10		
	150	250	350	150	250	350
150	4	4	4	11	11	11
250	4	4	4	11	11	11
350	4	4	4	11	11	11
450	4	4	4	8	7	6
550	4	4	4	8	7	6
650	4	4	4	4	3	2

Controller

Controller	Operation method
RCX340 RCX240-R	Programming / I/O point trace / Remote command / Operation using RS-232C communication

MXYx 4 axes / ZRFL20/10 (A1)



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
Y stroke	150	250	350	450	550	650					
Z stroke	150	250	350								
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 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.

Note 2. User cable extraction port.

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.

Articulated robots
YA

Linear conveyor
modules
LCMT100

Compact
single-axis robots
TRANSERVO

Single-axis robots
FLIP-X

Linear motor
single-axis robots
PHASER

Cartesian
robots
XY-X

SCARA
robots
YK-X

Pick & place
robots
YP-X

CLEAN

CONTROLLER

INFORMATION

Arm type

Gantry type

Moving arm
type

Pole type

XZ type

HXYx 2 axes

● Arm type ● Cable carrier



Ordering method

HXYx - C					RCX222HP		R			
Model	Cable	Combination	X-axis stroke	Y-axis stroke	Cable	Controller	Usable for CE	Regenerative unit	Input/Output selection 1	Input/Output selection 2
A1			25 to 125cm	25 to 65cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222HP	No entry: Standard E: CE marking	R: RG2	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None N1: OPDI024/16 (NPN) ^{Note 1} P1: OPDI024/17 (PNP) EN: Ethernet ^{Note 3}

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	F20	F17
AC servo motor output (W)	600	400
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20
Maximum speed ^{Note 4} (mm/sec)	1200	1200
Moving range (mm)	250 to 1250	250 to 650
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 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.

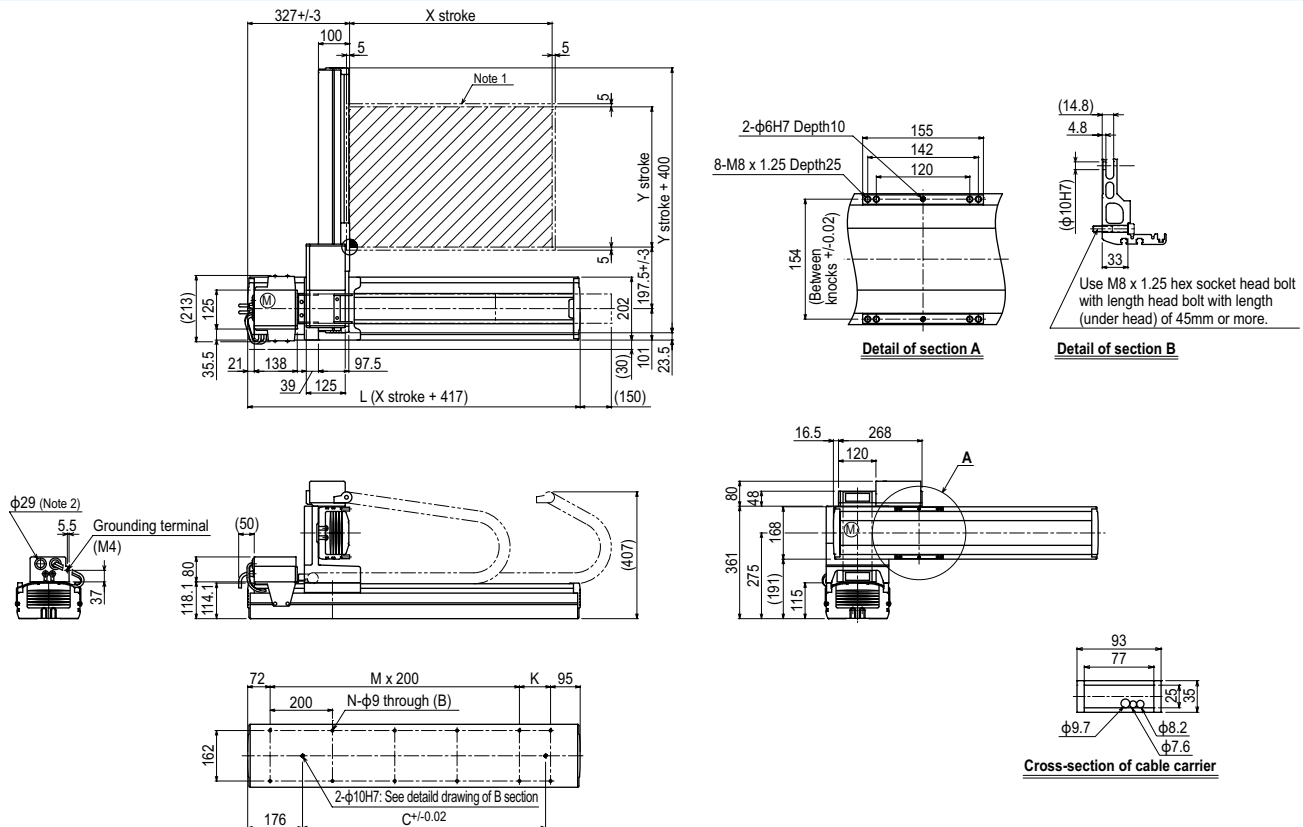
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
250	40
350	40
450	35
550	30
650	30

Controller

Controller	Operation method
RCX222HP-R	Programming / I/O point trace / Remote command / Operation using RS-232C communication

HXYx 2 axes A1

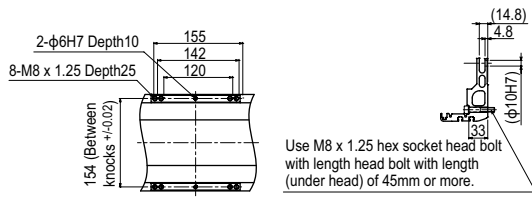


X stroke	250	350	450	550	650	750	850	950	1050	1150	1250
L	667	767	867	967	1067	1167	1267	1367	1467	1567	1667
K	100	200	100	200	100	200	100	200	100	200	100
C	420	420	600	600	780	780	960	960	1140	1320	1320
M	2	2	3	3	4	4	5	5	6	6	7
N	8	8	10	10	12	12	14	14	16	16	18
Y stroke	250	350	450	550	650						
Maximum speed for each stroke (mm/sec) ^{Note 3}	X-axis		1200				960	840	720	600	480
Speed setting			-				80%	70%	60%	50%	40%

Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
 Note 2. User cable extraction port.

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.

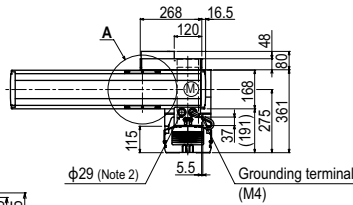
HXYx 2 axes **A2**



Detail of section A

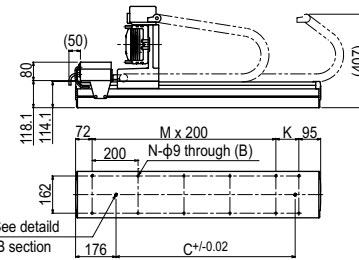
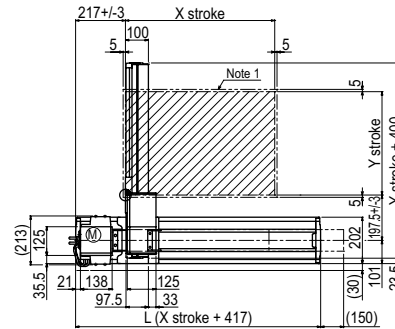
Detail of section B

Use M8 x 1.25 hex socket head bolt with length head bolt with length (under head) of 45mm or more.

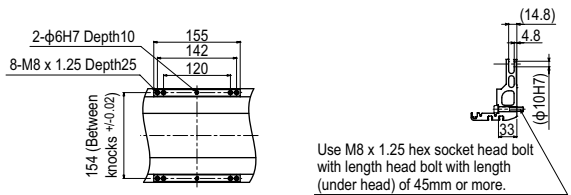


Cross-section of cable carrier

2-φ10H7: See detail drawing of B section

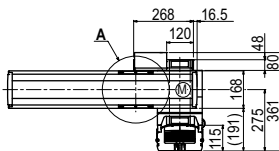


HXYx 2 axes **A3**

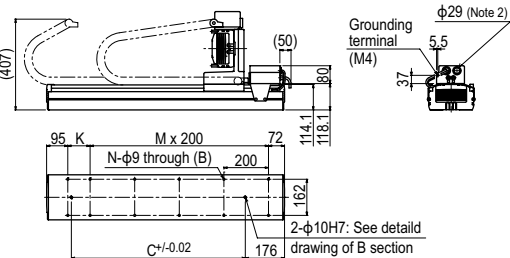
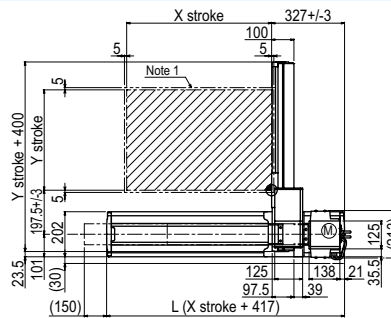


Detail of section A

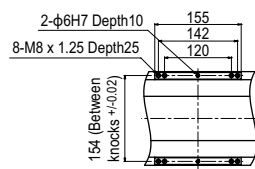
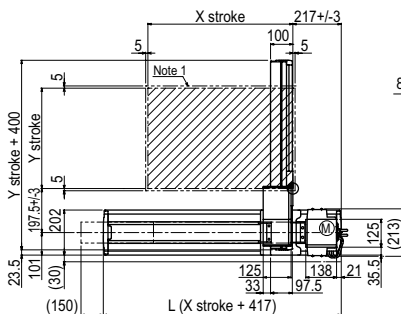
Detail of section B



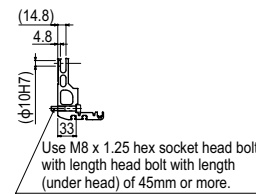
Cross-section of cable carrier



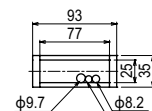
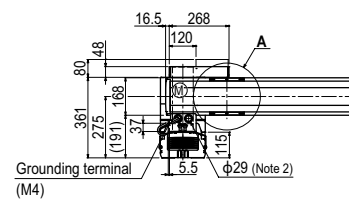
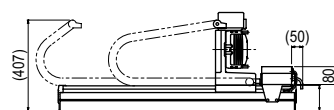
HXYx 2 axes **A4**



Detail of section A

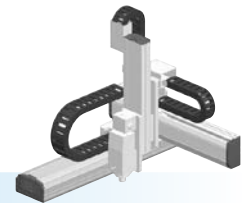


Detail of section B



Cross-section of cable carrier

Articulated robots YA
Linear conveyor modules LCM100
Compact single-axis robots TRANSEVO
Single-axis robots FLIP-X
Linear motor single-axis robots PHASER
Cartesian robots XX-X
SCARA robots YK-X
Pick & place robots YP-X
CLEAN
CONTROLLER
INFORMATION
Arm type
Gantry type
Moving arm type
Pole type
XZ type



Ordering method

HXYx - C [] [] [] **ZRH** [] [] [] **RCX340-4** [] [] [] [] [] [] [] [] [] []

Model	Cable	Combination	X-axis stroke	Y-axis stroke	ZR-axis	Z-axis stroke	Cable
A1			25 to 125cm	25 to 65cm		25 to 55cm	3L: 3.5m 5L: 5m 10L: 10m
A2							
A3							
A4							

RCX340-4 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

Specify various controller setting items. RCX340 ▶ **P.544**

RCX240 [] **R** [] [] [] [] [] [] [] [] [] []

RCX240 Controller CE Marking Regenerative unit Expansion I/O Network option iVY System Gripper Battery

Specify various controller setting items. RCX240/RCX240S ▶ **P.534**

Specification

	X-axis	Y-axis	Z-axis	R-axis
Axis construction ^{Note 1}	F20	F17	F14H-BK	R20
AC servo motor output (W)	600	400	200	200
Repeatability ^{Note 2} (XYZ: mm)(R: °)	+/-0.01	+/-0.01	+/-0.01	+/-0.0083
Drive system	Ball screw	Ball screw	Ball screw	Harmonic gear
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20	5	(1/50)
Maximum speed ^{Note 4} (XYZ: mm/sec) (R: °/sec)	1200	1200	300	360
Moving range (XYZ: mm) (R: °)	250 to 1250	250 to 650	250 to 550	360
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 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.

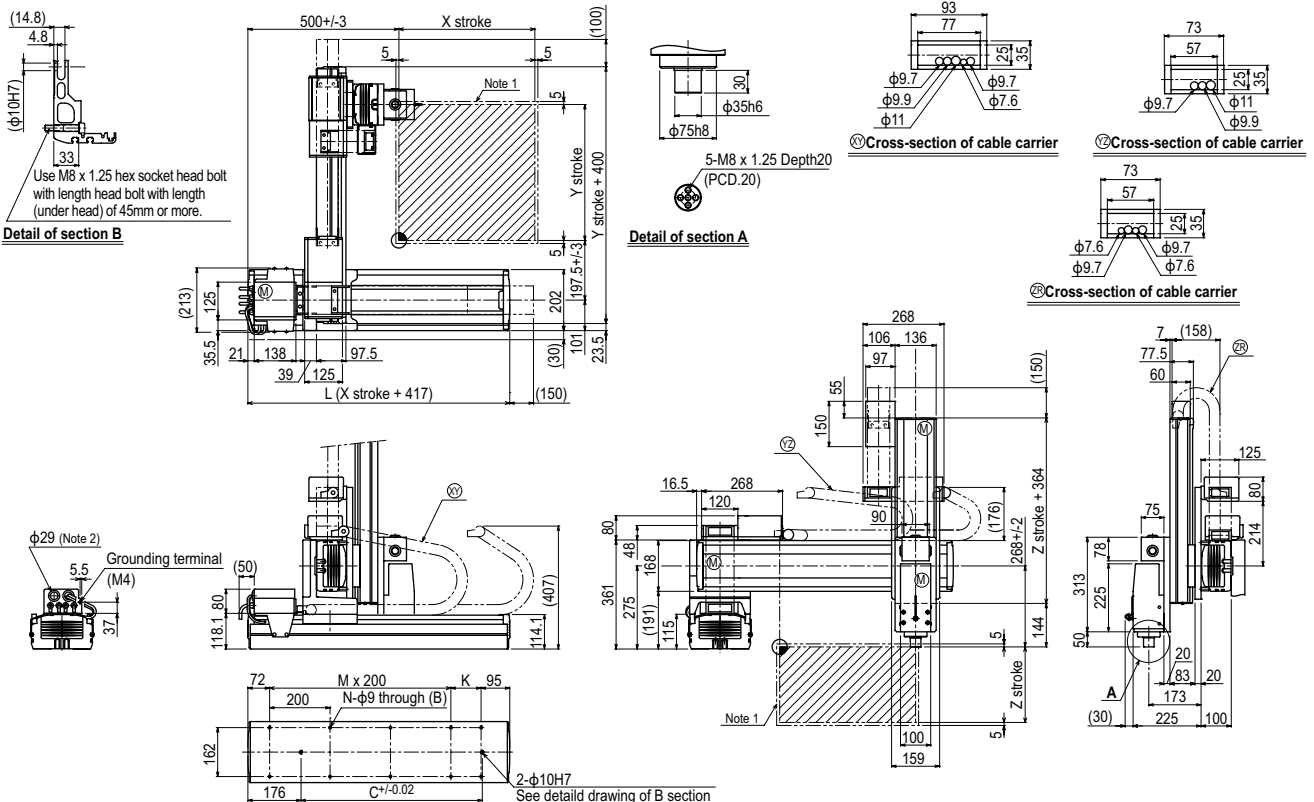
Maximum payload (kg)

Y stroke (mm)	Z stroke (mm)			
	250	350	450	550
250	12	12	12	12
350	12	12	12	12
450	12	12	12	11
550	11	10	9	8
650	11	10	9	8

Controller

Controller	Operation method
RCX340 RCX240-R	Programming / I/O point trace / Remote command / Operation using RS-232C communication

HXYx 4 axes / ZRH A1



X stroke	250	350	450	550	650	750	850	950	1050	1150	1250	
	L	667	767	867	967	1067	1167	1267	1367	1467	1567	1667
K	100	200	100	200	100	200	100	200	100	200	100	
C	420	420	600	600	780	780	960	960	1140	1320	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	
Y stroke	250	350	450	550	650							
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 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
 Note 2. User cable extraction port.

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.

Articulated robots
YA

Linear conveyor modules
LCM100

Compact single-axis robots
TRANSEVO

Single-axis robots
FLIP-X

Linear motor single-axis robots
PHASER

Cartesian robots
XX-X

SCARA robots
YK-X

Pick & place robots
YP-X

CLEAN

CONTROLLER INFORMATION

Arm type

Gantry type

Moving arm type

Pole type

XZ type

HXYLx 2 axes

● Arm type ● Cable carrier



Ordering method

HXYLx - C					RCX222HP			R		
Model	Cable	Combination	X-axis stroke	Y-axis stroke	Cable	Controller	Usable for CE	Regenerative unit	Input/Output selection 1	Input/Output selection 2
A1		A1	115 to 205cm	25 to 65cm	3L: 3.5m	RCX222HP	No entry: Standard E: CE marking	R: RG2	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet ^{Note 3} YC: YC-Link ^{Note 2}	No entry: None N1: OPDIO24/16 (NPN) ^{Note 1} P1: OPDIO24/17 (PNP) EN: Ethernet ^{Note 3}
A2		A2			5L: 5m					
A3		A3			10L: 10m					
A4		A4								

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	F20N	F17
AC servo motor output (W)	400	400
Repeatability ^{Note 2} (mm)	+/-0.04	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20
Maximum speed (mm/sec)	1200	1200
Moving range (mm)	1150 to 2050	250 to 650
Robot cable length (m)	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. Leads not listed in the catalog are also available. Contact us for details.

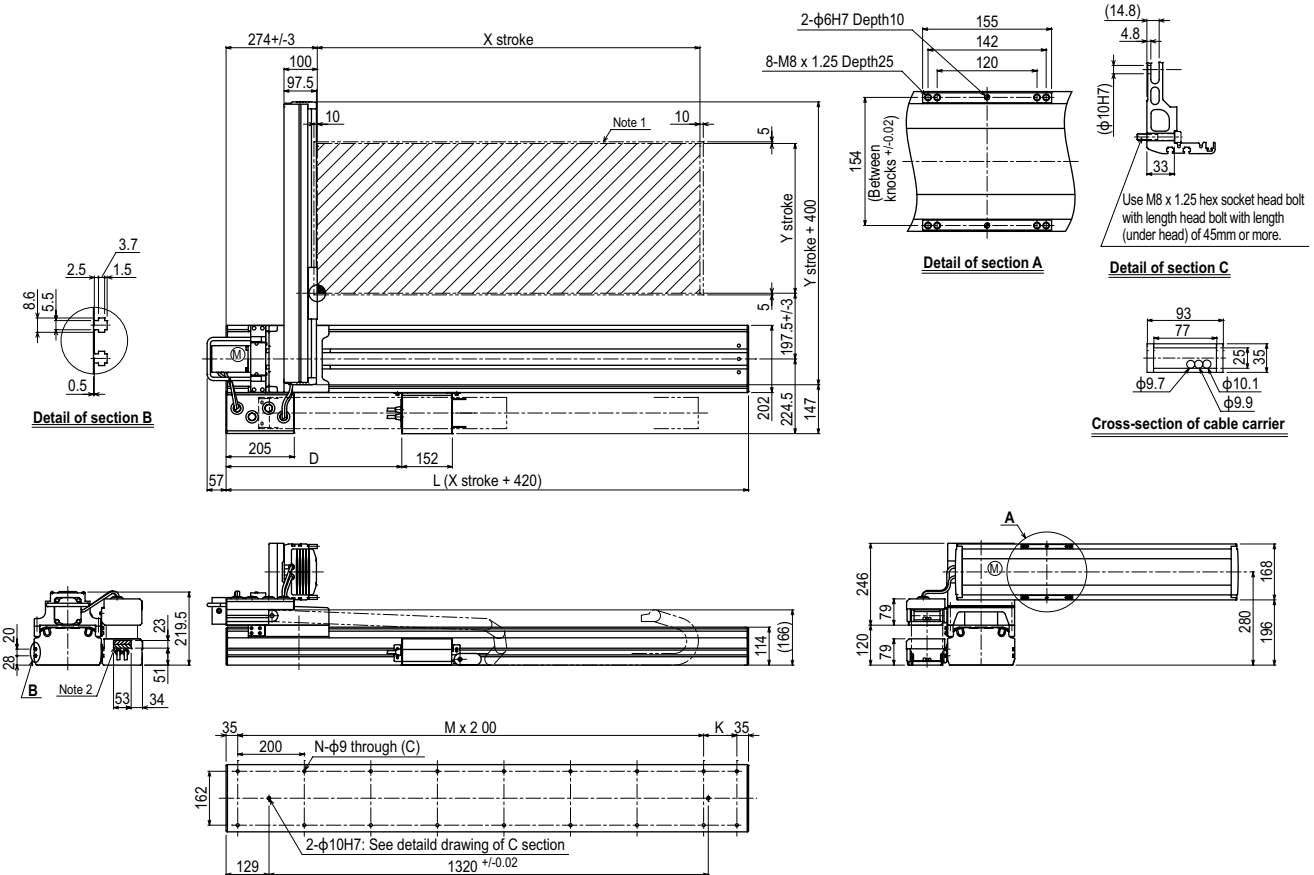
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
250	40
350	40
450	35
550	30
650	30

Controller

Controller	Operation method
RCX222HP-R	Programming / I/O point trace / Remote command / Operation using RS-232C communication

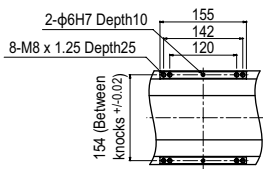
HXYLx 2 axes A1



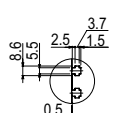
X stroke	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050
L	1570	1670	1770	1870	1970	2070	2170	2270	2370	2470
D	528	574	620	666	712	758	804	850	896	942
K	100	200	100	200	100	200	100	200	100	200
M	7	7	8	8	9	9	10	10	11	11
N	18	18	20	20	22	22	24	24	26	26
Y stroke	250	350	450	550	650					

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 a user cable extraction port.

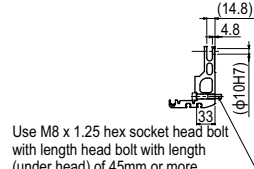
HXYLx 2 axes **A2**



Detail of section A

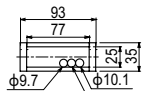
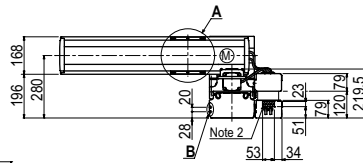
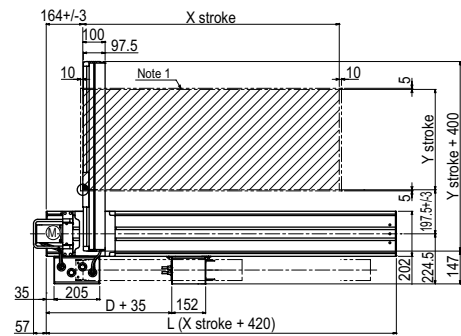


Detail of section B

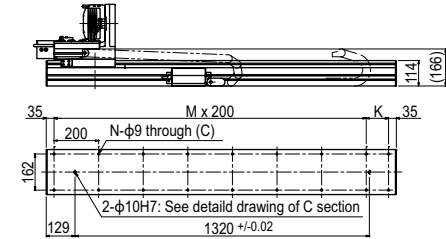


Detail of section C

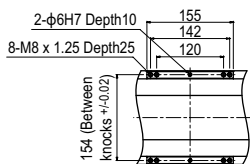
Use M8 x 1.25 hex socket head bolt with length head bolt with length (under head) of 45mm or more.



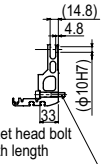
Cross-section of cable carrier



HXYLx 2 axes **A3**

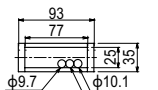
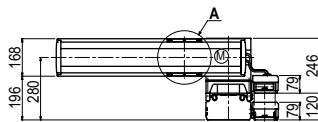
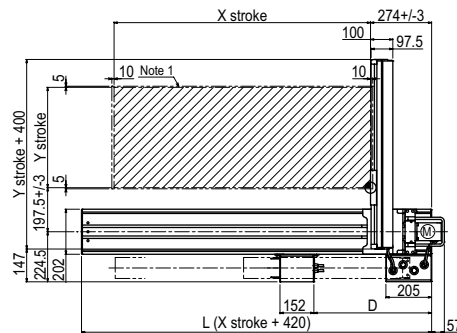


Detail of section A

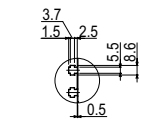
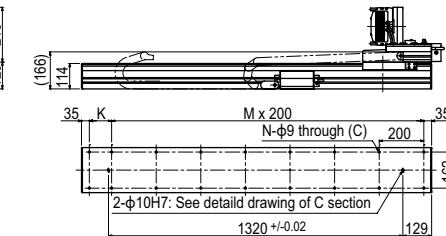


Detail of section C

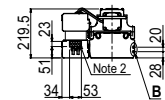
Use M8 x 1.25 hex socket head bolt with length head bolt with length (under head) of 45mm or more.



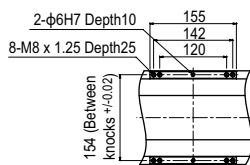
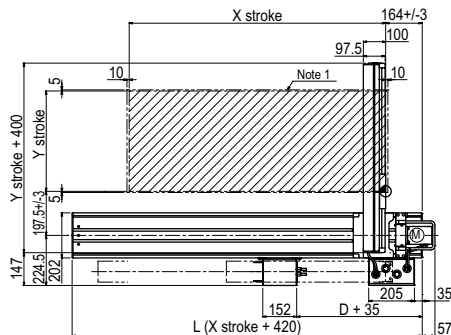
Cross-section of cable carrier



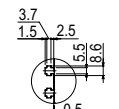
Detail of section B



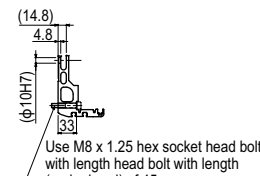
HXYLx 2 axes **A4**



Detail of section A

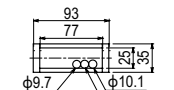


Detail of section B

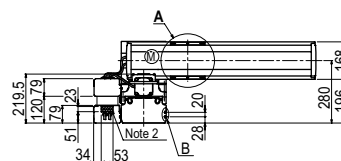
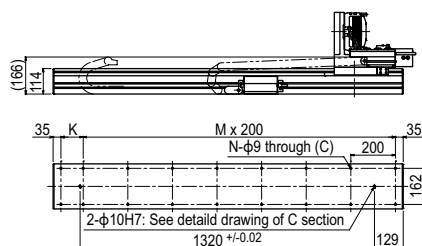


Detail of section C

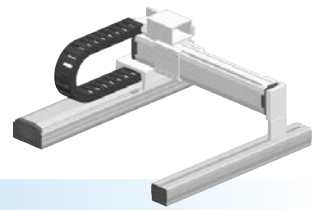
Use M8 x 1.25 hex socket head bolt with length head bolt with length (under head) of 45mm or more.



Cross-section of cable carrier



MXYx 2 axes



- Gantry type
- Cable carrier

Ordering method

MXYx - C					RCX222		R			
Model	Cable	Combination	X-axis stroke	Y-axis stroke	Cable	Controller	Usable for CE	Regenerative unit	Input/Output selection 1	Input/Output selection 2
G1			25 to 125cm	15 to 85cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	R: RG2	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None N1: OPDIO24/16 (PNP) ^{Note 1} P1: OPDIO24/17 (PNP) EN: Ethernet ^{Note 3}
G2										
G3										
G4										

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	F17	F14H
AC servo motor output (W)	400	200
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20
Maximum speed ^{Note 4} (mm/sec)	1200	1200
Moving range (mm)	250 to 1250	150 to 850
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 850mm (750mm for Y-axis), 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.

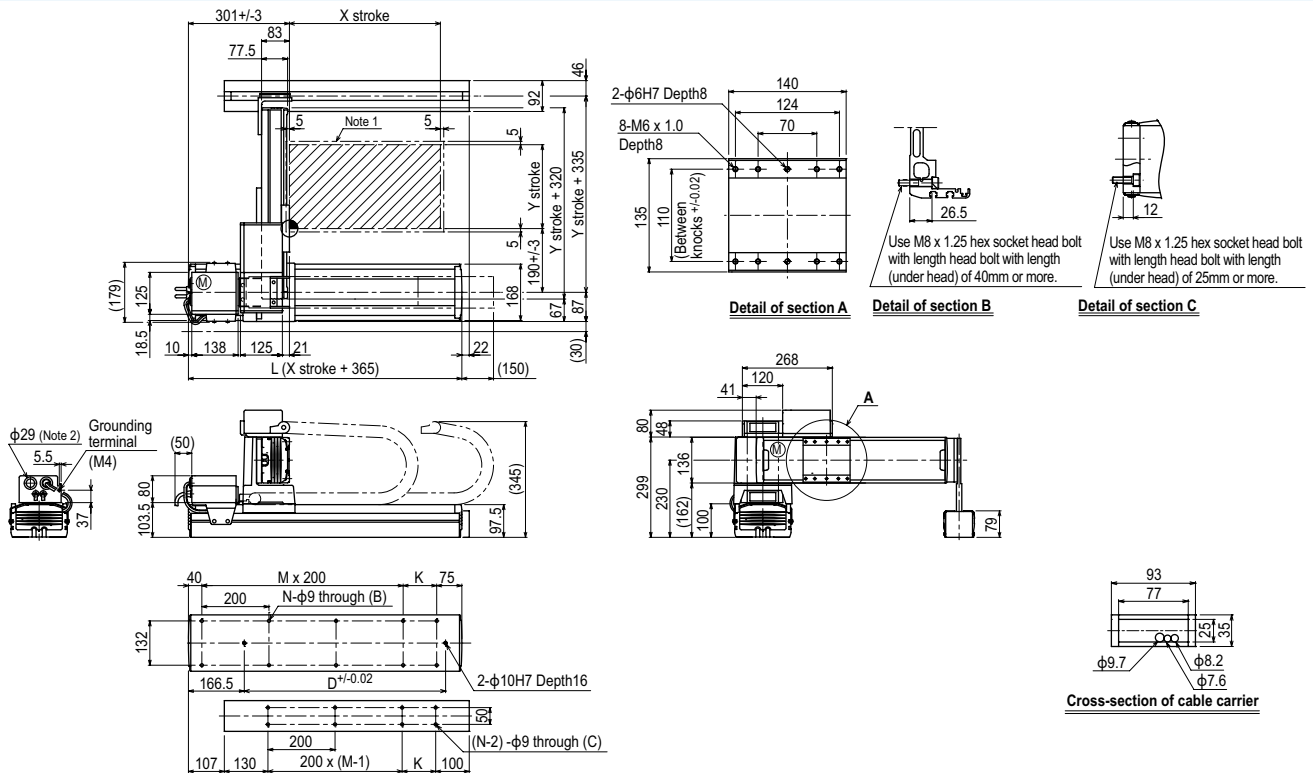
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150	30
250	30
350	30
450	30
550	30
650	30
750	25
850	20

Controller

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

MXYx 2 axes G1



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	
D	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	
Y stroke	150	250	350	450	550	650	750	850				
Maximum speed for each stroke (mm/sec) ^{Note 3}	X-axis	1200						960	840	720	600	480
	Speed setting	-						80%	70%	60%	50%	40%
	Y-axis	1200						960	780			
	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. User cable extraction port.

Note 3. When the X-axis stroke is longer than 850mm (750mm for Y-axis), 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.

Articulated robots
YA

Linear conveyor modules
LCM100

Compact single-axis robots
TRANSEVO

Single-axis robots
FLIP-X

Linear motor single-axis robots
PHASER

Cartesian robots
XX-X

SCARA robots
YK-X

Pick & place robots
YP-X

CLEAN

INFORMATION

INFORMATION

Arm type

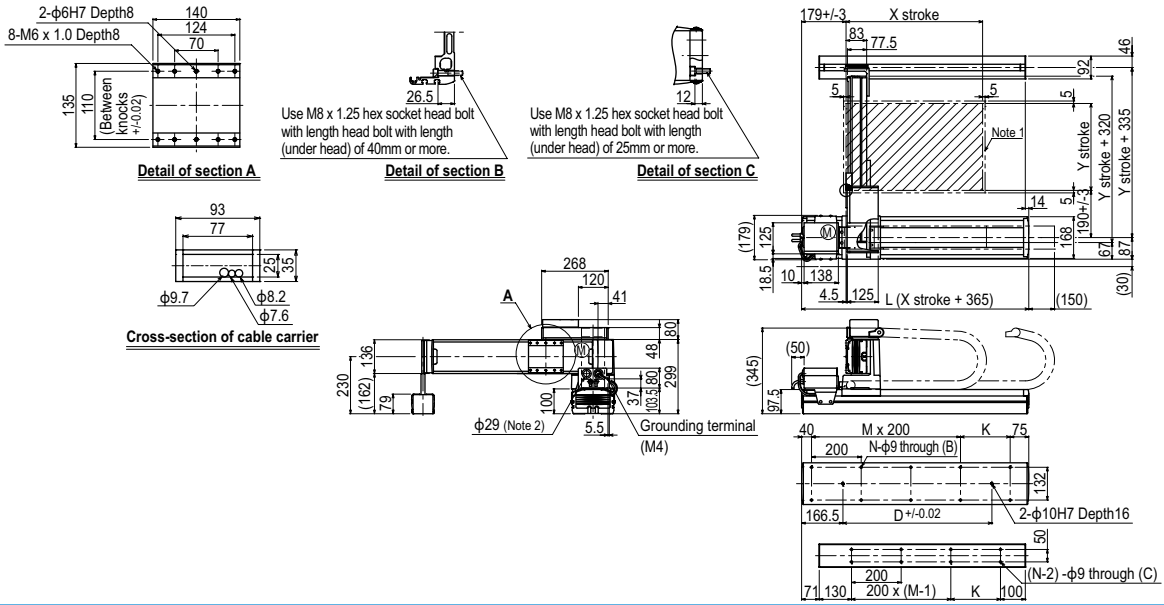
Gantry type

Moving arm type

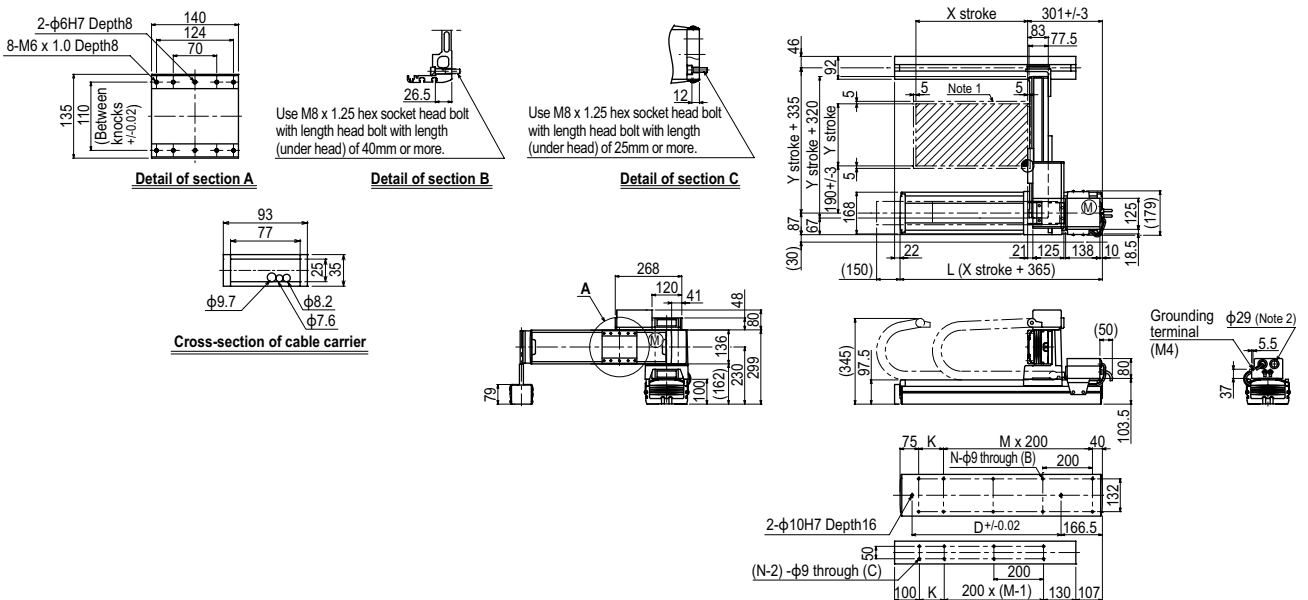
Pole type

XZ type

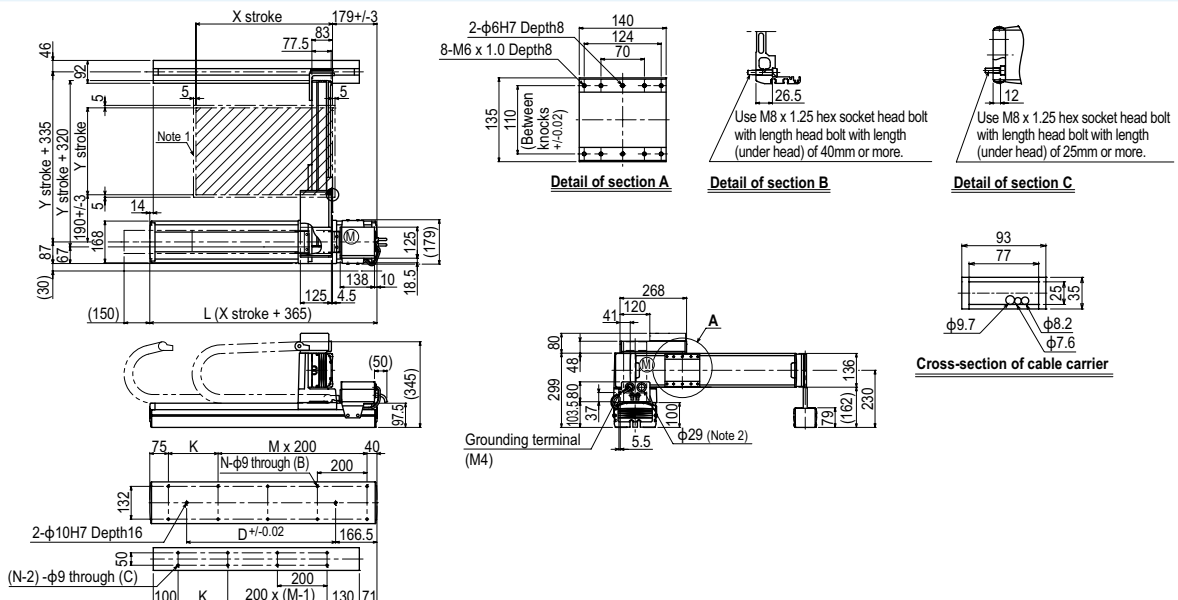
MXyX 2 axes G2



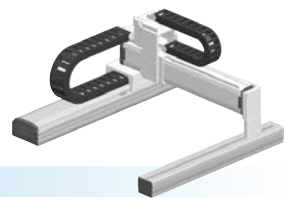
MXyX 2 axes G3



MXyX 2 axes G4



MXYx 2 axes / IO



- Gantry type
- Cable carrier
- Type with Y-axis I/O cable carrier added

Ordering method

MXYx - C												
Model	Cable	Combination	X-axis stroke	Y-axis stroke	ZR-axis	Cable	Controller	Usable for CE	Regenerative unit	Input/Output selection 1	Input/Output selection 2	
G1			25 to 125cm	15 to 85cm		3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	R: RG2	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None Nt: OP.DIO24/16 (NPN) ^{Note 1} Pt: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 3}	
G2												
G3												
G4												

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	F17	F14H
AC servo motor output (W)	400	200
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20
Maximum speed ^{Note 4} (mm/sec)	1200	1200
Moving range (mm)	250 to 1250	150 to 850
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 850mm (750mm for Y-axis), 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.

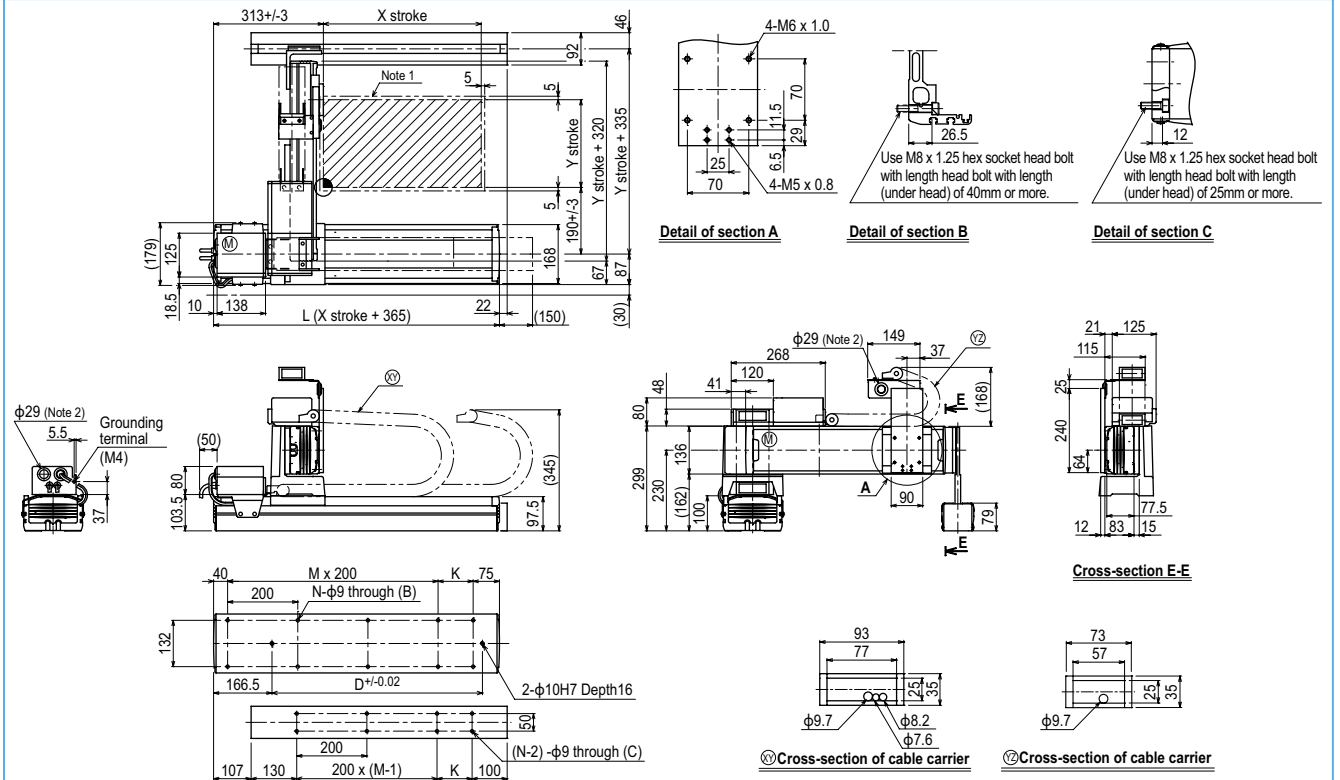
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150	29
250	29
350	29
450	29
550	29
650	29
750	24
850	19

Controller

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

MXYx 2 axes / IO G1

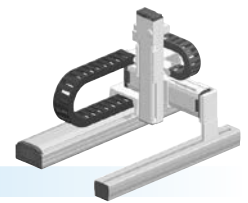


	X stroke											
	250	350	450	550	650	750	850	950	1050	1150	1250	
L	615	715	815	915	1015	1115	1215	1315	1415	1515	1615	
K	100	200	100	200	100	200	100	200	100	200	100	
D	240	420	600	600	780	780	960	960	1140	1140	1320	
M	2	2	3	3	4	4	5	5	6	6	7	
N	8	8	10	10	12	12	14	14	16	16	18	
		Y stroke										
		150	250	350	450	550	650	750	850			
Maximum speed for each stroke (mm/sec) ^{Note 3}	X-axis	1200						960	840	720	600	480
	Speed setting	-						80%	70%	60%	50%	40%
	Y-axis	1200						960	780			
	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. User cable extraction port.

Note 3. When the X-axis stroke is longer than 850mm (750mm for Y-axis), 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.

- Gantry type
- Cable carrier
- Z-axis: clamped base / moving table type (200W)



Ordering method

MXYx-C

Model	Cable	Combination	X-axis stroke	Y-axis stroke	ZR-axis	Z-axis stroke	Cable
G1			25 to 125cm	15 to 85cm	ZFL20	15 to 35cm	3L: 3.5m 5L: 5m 10L: 10m
G2					ZFL10		
G3							
G4							

RCX340-3

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

Specify various controller setting items. RCX340 ▶ **P544**

RCX240

Controller	CE Marking	Regenerative unit	Expansion I/O	Network option	IVY System	Gripper	Battery

Specify various controller setting items. RCX240/RCX240S ▶ **P534**

Specification

	X-axis	Y-axis	Z-axis: ZFL20	Z-axis: ZFL10
Axis construction ^{Note 1}	F17	F14H-BK	F10-BK equivalent guide-reinforced model	
AC servo motor output (W)	400	200	200	
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01	+/-0.01	
Drive system	Ball screw	Ball screw	Ball screw	
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20	20	10
Maximum speed ^{Note 4} (mm/sec)	1200	1200	1200	600
Moving range (mm)	250 to 1250	150 to 850	150 to 350	
Robot cable length (m)	Standard: 3.5 Option: 5, 10			

Note. The standard types are ZFL with higher rigidity as compared with ZF types which are conventional standard types. When you need the ZF type, please consult YAMAHA.

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 850mm (750mm for Y-axis), 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.

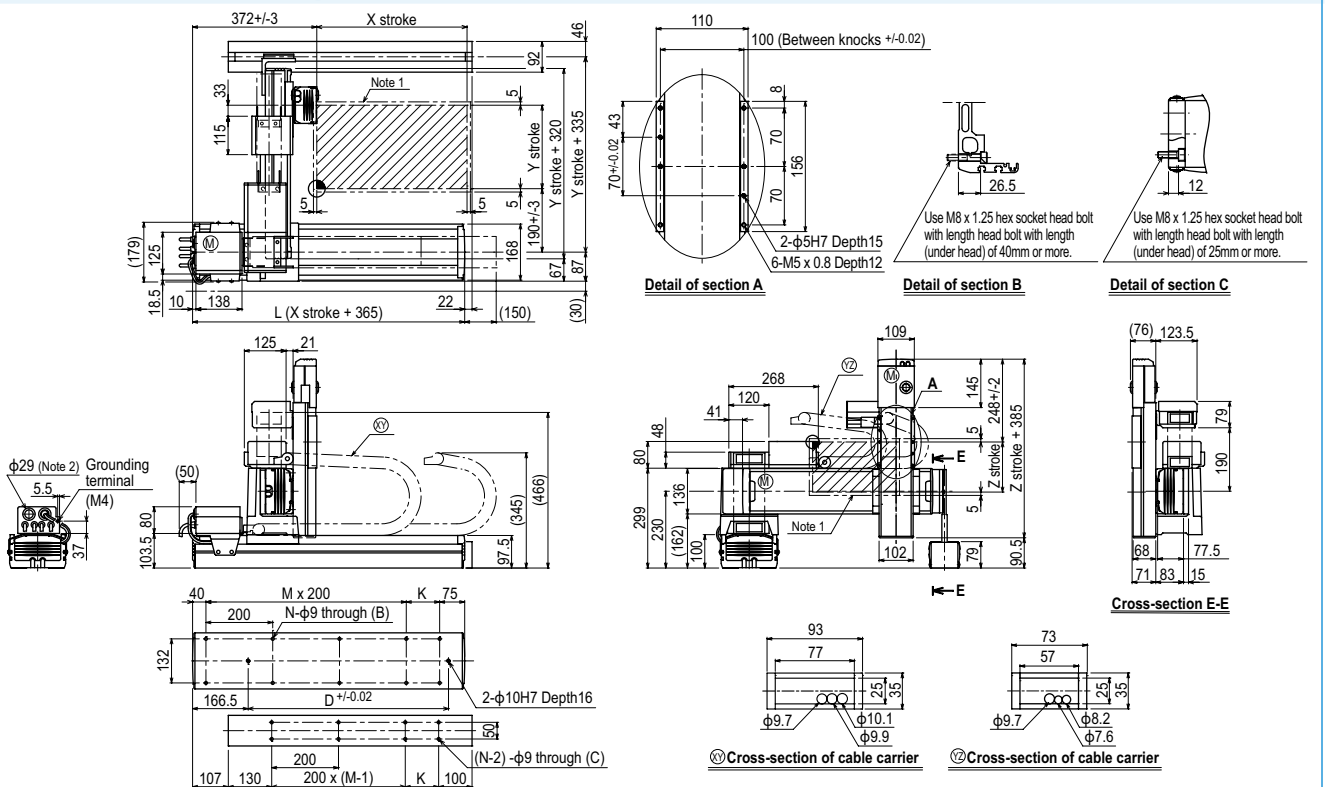
Maximum payload (kg)

Y stroke (mm)	Z stroke (mm)					
	ZFL20			ZFL10		
150	8	8	8	15	15	15
250	8	8	8	15	15	15
350	8	8	8	15	15	15
450	8	8	8	15	15	15
550	8	8	8	15	15	15
650	8	8	8	15	15	15
750	8	8	8	15	15	15
850	8	8	8	12	11	10

Controller

Controller	Operation method
RCX340 RCX240-R	Programming / I/O point trace / Remote command / Operation using RS-232C communication

MXYx 3 axes / ZFL20/10 G1

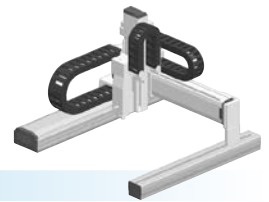


X stroke	250	350	450	550	650	750	850	950	1050	1150	1250
L	615	715	815	915	1015	1115	1215	1315	1415	1515	1615
K	100	200	100	200	100	200	100	200	100	200	100
D	240	420	600	600	780	780	960	960	1140	1140	1320
M	2	2	3	3	4	4	5	5	6	6	7
N	8	8	10	10	12	12	14	14	16	16	18
Y stroke	150	250	350	450	550	650	750	850			
Z stroke	150	250	350								
Maximum speed for each stroke (mm/sec) ^{Note 3}	X-axis										
	Speed setting	1200			960	840	720	600	480		
Y-axis	Speed setting	1200			960	780					
	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. User cable extraction port.

Note 3. When the X-axis stroke is longer than 850mm (750mm for Y-axis), 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.



Ordering method

MXYx - C

Model	Cable	Combination	X-axis stroke	Y-axis stroke	ZR-axis	Z-axis stroke	Cable
G1			25 to 125cm	15 to 85cm	ZRFL20	15 to 35cm	3L: 3.5m 5L: 5m 10L: 10m
G2					ZRFL10		
G3							
G4							

RCX340-4

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

Specify various controller setting items. RCX340 ▶ P.544

RCX240

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

Specify various controller setting items. RCX240/RCX240S ▶ P.534

Specification

	X-axis	Y-axis	Z-axis: ZRFL20	Z-axis: ZRFL10	R-axis
Axis construction ^{Note 1}	F17	F14H	F10-BK equivalent guide-reinforced model		R5
AC servo motor output (W)	400	200	200		50
Repeatability ^{Note 2} (XYZ: mm)(R: °)	+/-0.01	+/-0.01	+/-0.01		+/-0.0083
Drive system	Ball screw	Ball screw	Ball screw		Harmonic gear
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20	20	10	(1/50)
Maximum speed ^{Note 4} (XYZ: mm/sec) (R: °/sec)	1200	1200	1200	600	360
Moving range (XYZ: mm)(R: °)	250 to 1250	150 to 850	150 to 350		360
Robot cable length (m)	Standard: 3.5 Option: 5,10				

Note. The standard types are ZRFL with higher rigidity as compared with ZRF types which are conventional standard types. When you need the ZRF type, please consult YAMAHA.
 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 850mm (750mm for Y-axis), 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.

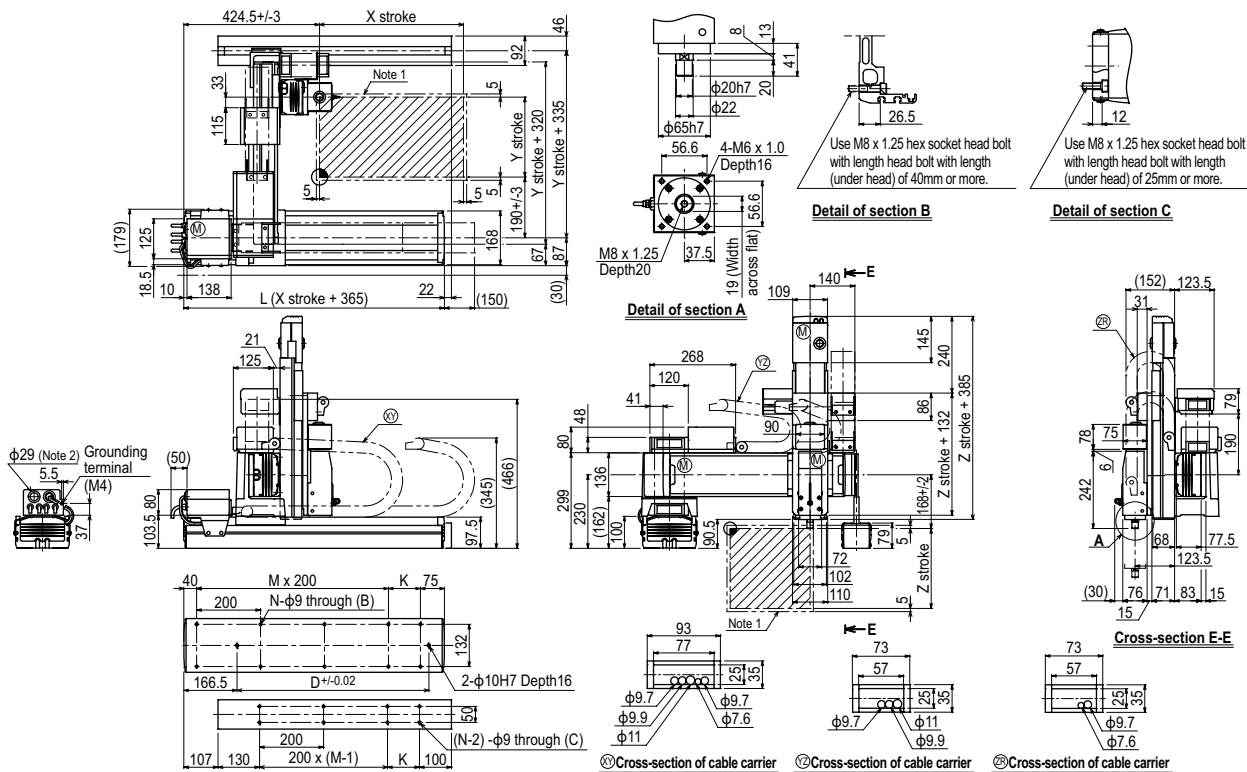
Maximum payload (kg)

Y stroke (mm)	Z stroke (mm)					
	ZRFL20			ZRFL10		
150	4	4	4	11	11	11
250	4	4	4	11	11	11
350	4	4	4	11	11	11
450	4	4	4	11	11	11
550	4	4	4	11	11	11
650	4	4	4	11	11	11
750	4	4	4	11	11	11
850	4	4	4	8	7	6

Controller

Controller	Operation method
RCX340 RCX240-R	Programming / I/O port trace / Remote command / Operation using RS-232C communication

MXYx 4 axes / ZRFL20/10 (G1)



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	
D	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	
Y stroke	150	250	350	450	550	650	750	850				
Z stroke	150	250	350									
Maximum speed for each stroke (mm/sec) ^{Note 3}	X-axis	1200					960	840	720	600	480	
	Speed setting	-					80%	70%	60%	50%	40%	
	Y-axis	1200					960	780				
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. User cable extraction port.
 Note 3. When the X-axis stroke is longer than 850mm (750mm for Y-axis), 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.

Articulated robots
YA

Linear conveyor
modules
LCMT100

Compact
single-axis robots
TRANSERVO

Single-axis robots
FLIP-X

Linear motor
single-axis robots
PHASER

Cartesian
robots
XY-X

SCARA
robots
YK-X

Pick & place
robots
YP-X

CLEAN

CONTROLLER

INFORMATION

Arm type

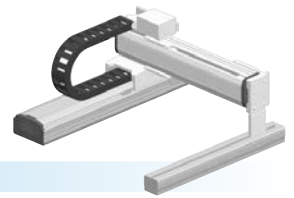
Gantry type

Moving arm
type

Pole type

XZ type

HXYx 2 axes



- Gantry type
- Cable carrier

Ordering method

HXYx - C					RCX222HP		R			
Model	Cable	Combination	X-axis stroke	Y-axis stroke	Cable	Controller	Usable for CE	Regenerative unit	Input/Output selection 1	Input/Output selection 2
G1			25 to 125cm	25 to 105cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222HP	No entry: Standard E: CE marking	R: RG2	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None Nt: OPDIO24/16 (NPN) ^{Note 1} Pt: OPDIO24/17 (PNP) EN: Ethernet ^{Note 3}

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	F20	F17
AC servo motor output (W)	600	400
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20
Maximum speed ^{Note 4} (mm/sec)	1200	1200
Moving range (mm)	250 to 1250	250 to 1050
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/Y-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.

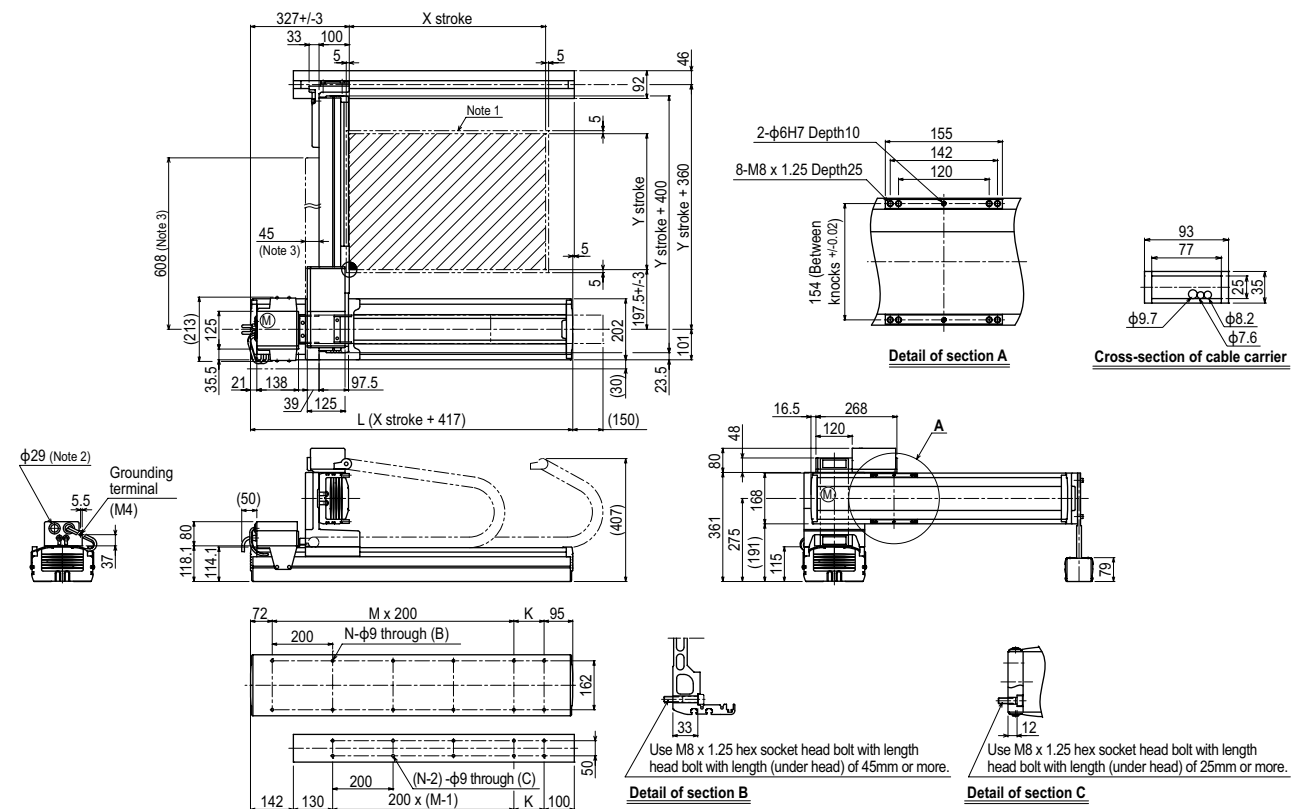
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
250 to 1050	50

Controller

Controller	Operation method
RCX222HP-R	Programming / I/O point trace / Remote command / Operation using RS-232C communication

HXYx 2 axes G1

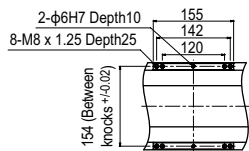


X stroke	250	350	450	550	650	750	850	950	1050	1150	1250
L	667	767	867	967	1067	1167	1267	1367	1467	1567	1667
K	100	200	100	200	100	200	100	200	100	200	100
F	420	420	600	600	780	780	960	960	1140	1320	1320
M	2	2	3	3	4	4	5	5	6	6	7
N	8	8	10	10	12	12	14	14	16	16	18
Y stroke	250	350	450	550	650	750	850	950	1050		
Maximum speed for each stroke (mm/sec) ^{Note 4}	X-axis		1200				960	840	720	600	480
	Y-axis		1200				960	840	720		
	Speed setting		-				80%	70%	60%	50%	40%

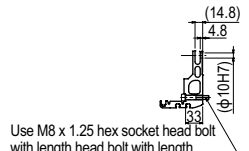
Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
 Note 2. User cable extraction port.
 Note 3. Dimension of reinforced bracket (To be installed when the Y stroke is 750mm or longer)

Note 4. When the X-axis/Y-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.

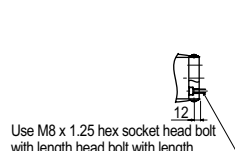
HXYx 2 axes **G2**



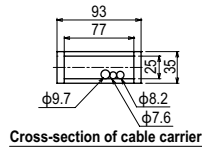
Detail of section A



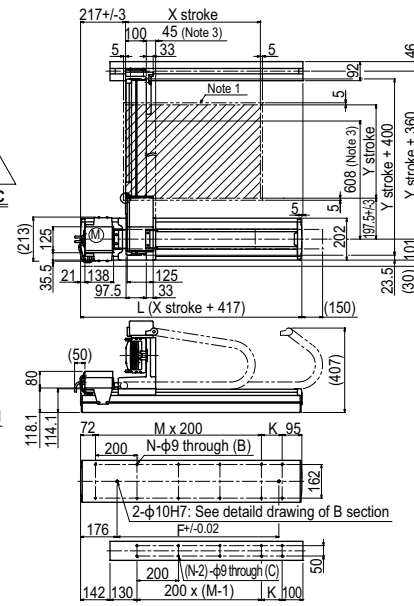
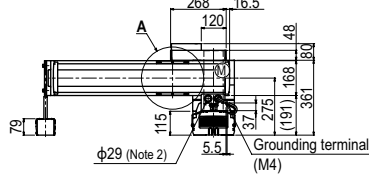
Detail of section B



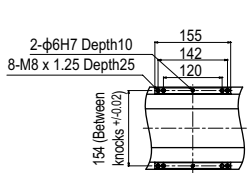
Detail of section C



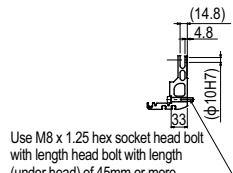
Cross-section of cable carrier



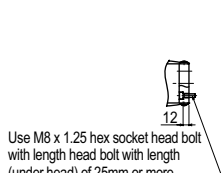
HXYx 2 axes **G3**



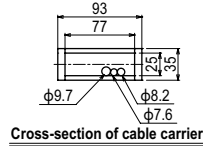
Detail of section A



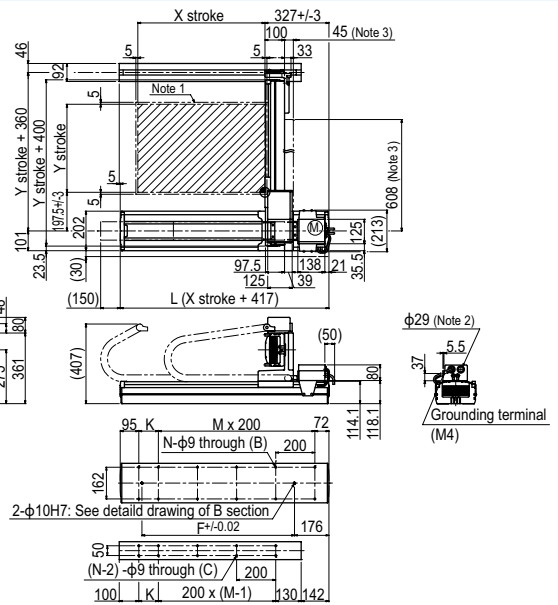
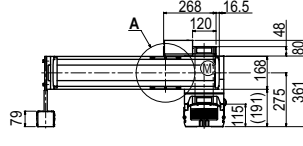
Detail of section B



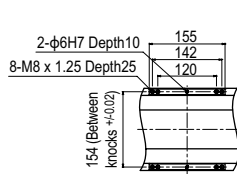
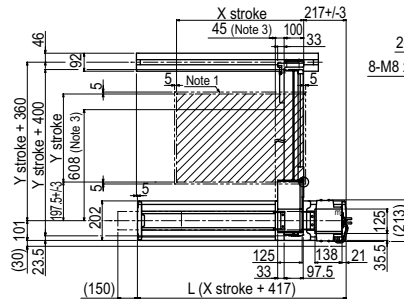
Detail of section C



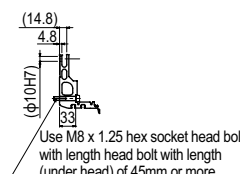
Cross-section of cable carrier



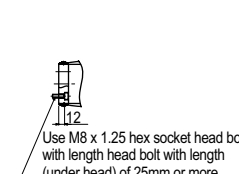
HXYx 2 axes **G4**



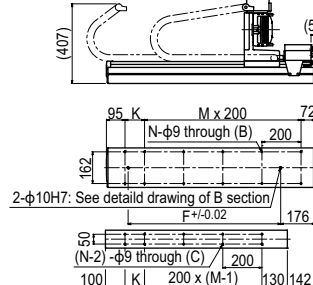
Detail of section A



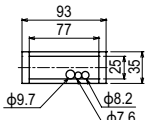
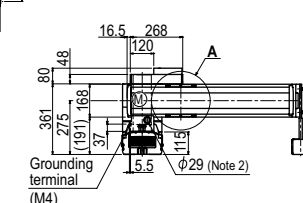
Detail of section B



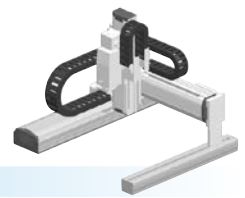
Detail of section C



Cross-section of cable carrier



Cross-section of cable carrier



- Gantry type
- Cable carrier
- Z-axis: clamped base / moving table type (200W)+R-axis

Ordering method

HXYx - C [] [] [] **ZRL** [] [] [] **RCX340-4** [] [] [] [] [] [] [] [] [] []

Model **Cable** **Combination** **X-axis stroke** **Y-axis stroke** **ZR-axis** **Z-axis stroke** **Cable**

Model: G1, G2, G3, G4
 Cable: 3L: 3.5m, 5L: 5m, 10L: 10m
 X-axis stroke: 25 to 125cm
 Y-axis stroke: 25 to 105cm
 ZR-axis: [] [] []
 Z-axis stroke: 25 to 55cm
 Cable: 3L: 3.5m, 5L: 5m, 10L: 10m

RCX340-4 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

RCX240 Controller, CE Marking, Regenerative unit, Expansion I/O, Network option, iVY System, Gripper, Battery

R

Specify various controller setting items. RCX340 ▶ **P.544**
 Specify various controller setting items. RCX240/RCX240S ▶ **P.534**

Specification

	X-axis	Y-axis	Z-axis	R-axis
Axis construction ^{Note 1}	F20	F17	F14H-BK	R20
AC servo motor output (W)	600	400	200	200
Repeatability ^{Note 2} (XYZ: mm) (R: °)	+/-0.01	+/-0.01	+/-0.01	+/-0.0083
Drive system	Ball screw	Ball screw	Ball screw	Harmonic gear
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20	10	(1/50)
Maximum speed ^{Note 4} (XYZ: mm/sec) (R: °/sec)	1200	1200	600	360
Moving range (XYZ: mm) (R: °)	250 to 1250	250 to 1050	250 to 550	360
Robot cable length (m)	Standard: 3.5 Option: 5, 10			

- Note 1. Use caution that the flange 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/Y-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.

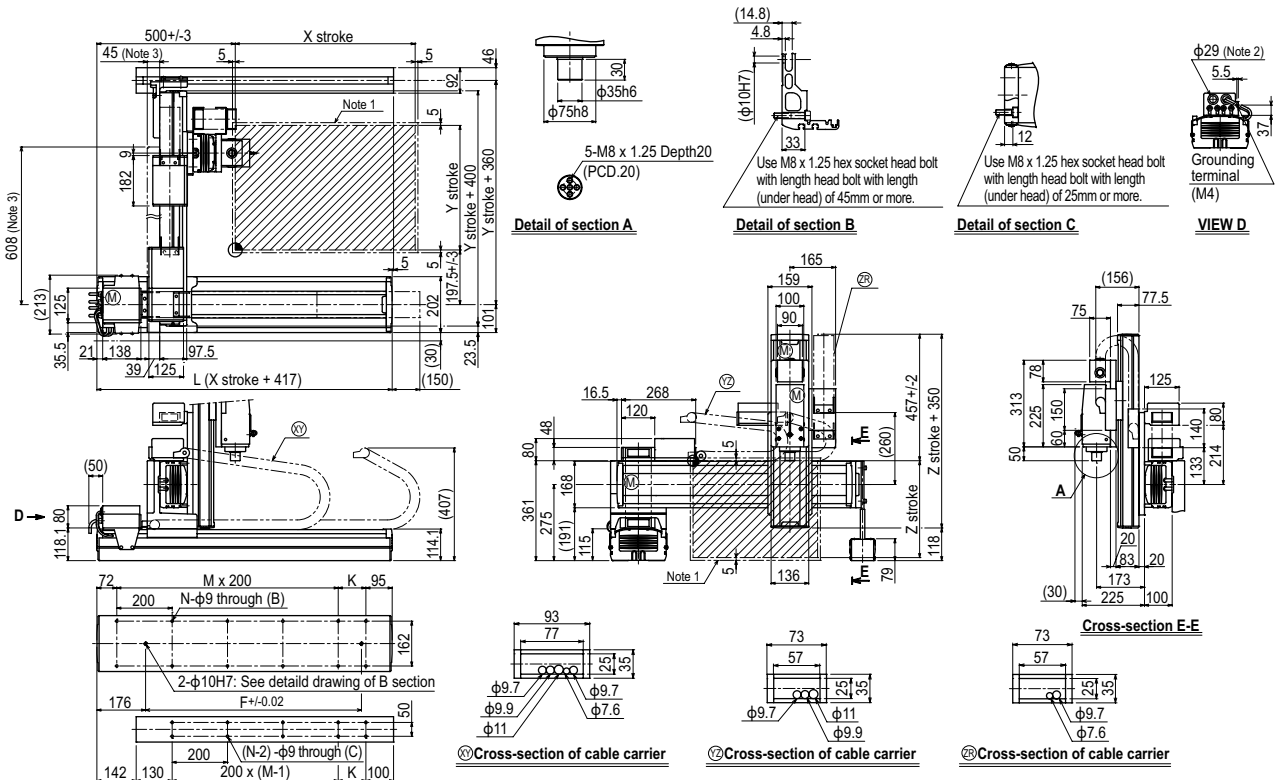
Maximum payload (kg)

Y stroke (mm)	Z stroke (mm)
250 to 1050	250 to 550
	12

Controller

Controller	Operation method
RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
RCX240-R	

HXYx 4 axes / ZRL (G1)

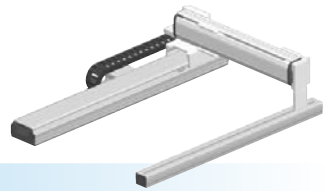


X stroke	250	350	450	550	650	750	850	950	1050	1150	1250			
L	667	767	867	967	1067	1167	1267	1367	1467	1567	1667			
K	100	200	100	200	100	200	100	200	100	200	100			
F	420	420	600	600	780	780	960	960	1140	1320	1320			
M	2	2	3	3	4	4	5	5	6	6	7			
N	8	8	10	10	12	12	14	14	16	16	18			
Y stroke	250	350	450	550	650	750	850	950	1050					
Z stroke	250	350	450	550										
Maximum speed for each stroke (mm/sec) ^{Note 4}	X-axis		1200		960		840		720		600		480	
	Y-axis		1200		960		840		720					
	Speed setting		-		80%		70%		60%		50%		40%	

- 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.
 Note 3. Dimension of reinforced bracket (To be installed when the Y stroke is 750mm or longer)

- Note 4. When the X-axis/Y-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.

HXYLx 2 axes



- Gantry type
- Cable carrier

Ordering method

HXYLx - C					RCX222HP		R			
Model	Cable	Combination	X-axis stroke	Y-axis stroke	Cable	Controller	Usable for CE	Regenerative unit	Input/Output selection 1	Input/Output selection 2
G1			115 to 205cm	25 to 105cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222HP	No entry: Standard E: CE marking	R: RG2	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet TM PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None N1: OPDIO24/16 (NPN) ^{Note 1} P1: OPDIO24/17 (PNP) EN: Ethernet ^{Note 3}

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	F20N	F17
AC servo motor output (W)	400	400
Repeatability ^{Note 2} (mm)	+/-0.04	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20
Maximum speed ^{Note 4} (mm/sec)	1200	1200
Moving range (mm)	1150 to 2050	250 to 1050
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 Y-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.

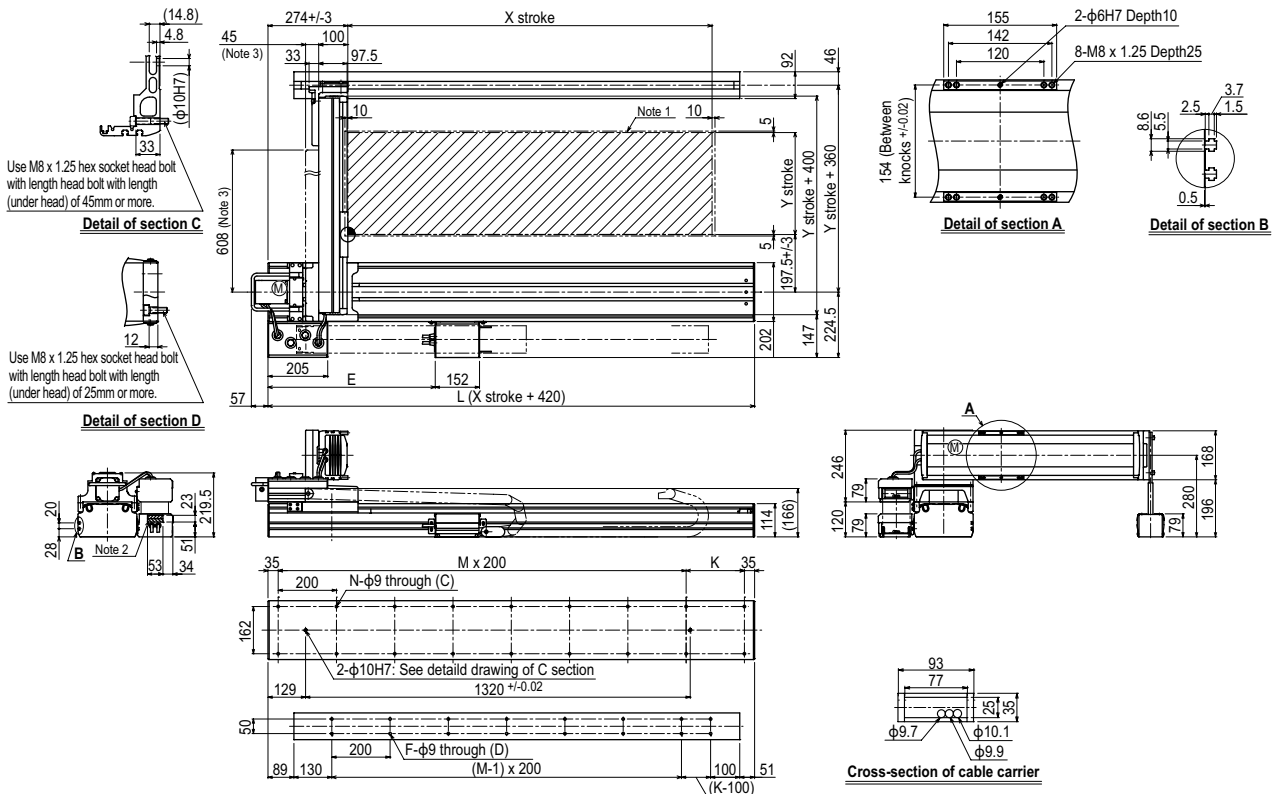
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
250 to 1050	50

Controller

Controller	Operation method
RCX222HP-R	Programming / I/O point trace / Remote command / Operation using RS-232C communication

HXYLx 2 axes G1

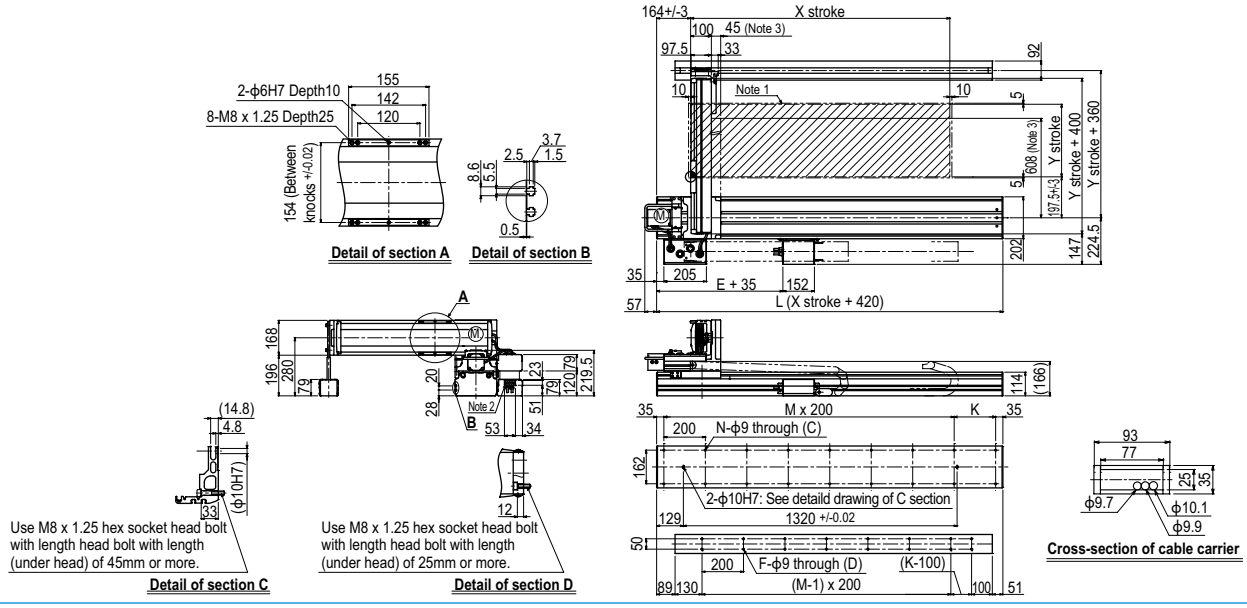


X stroke	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	
L	1570	1670	1770	1870	1970	2070	2170	2270	2370	2470	
E	528	574	620	666	712	758	804	850	896	942	
K	100	200	100	200	100	200	100	200	100	200	
M	7	7	8	8	9	9	10	10	11	11	
N	18	18	20	20	22	22	24	24	26	26	
F	14	16	16	18	18	20	20	22	22	24	
Y stroke	250	350	450	550	650	750	850	950	1050		
Maximum speed for each stroke (mm/sec) ^{Note 4}	Y-axis		1200				960		840		720
Speed setting			-				80%		70%		60%

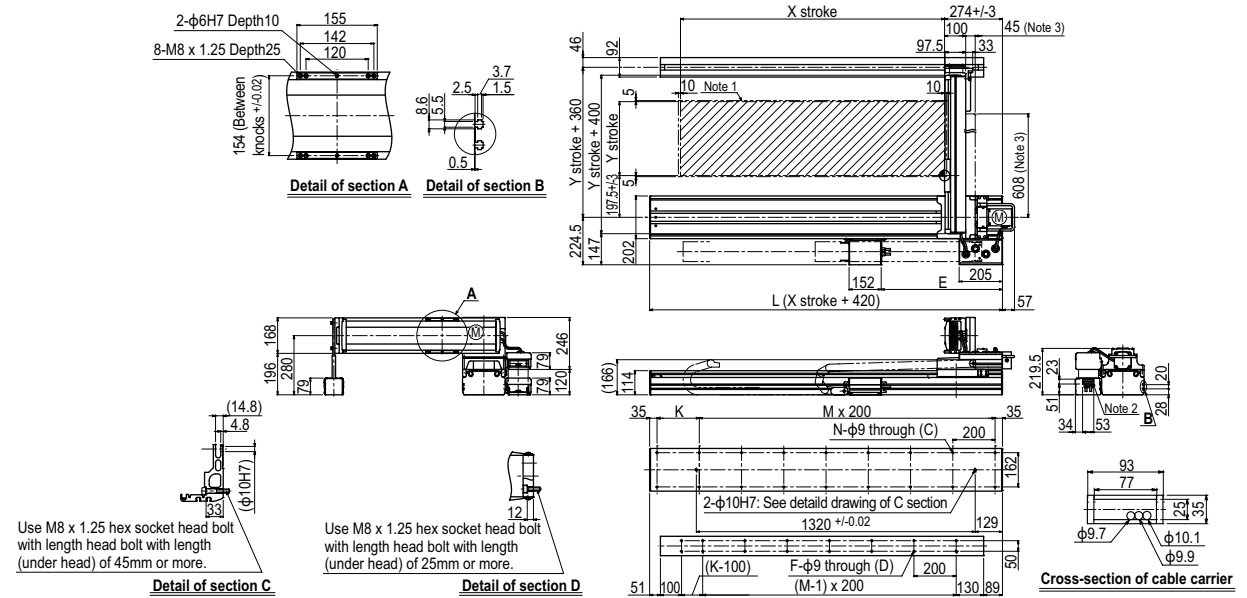
Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
 Note 2. User cable extraction port.
 Note 3. Dimension of reinforced bracket (To be installed when the Y stroke is 750mm or longer)

Note 4. When the Y-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.

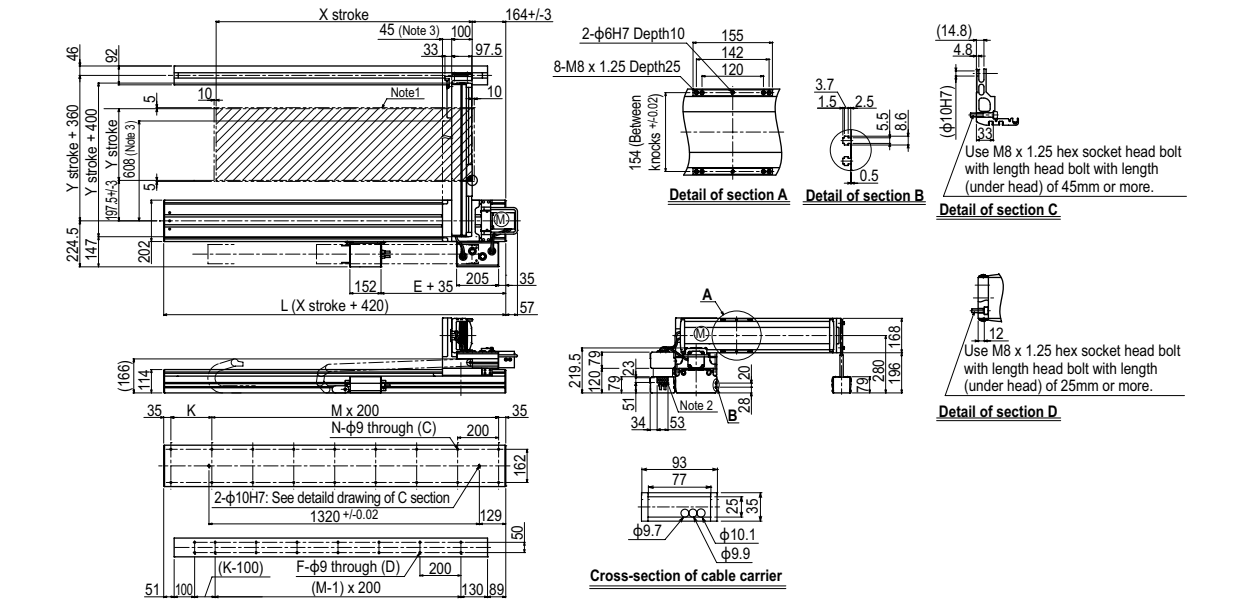
HXYLx 2 axes **G2**



HXYLx 2 axes **G3**



HXYLx 2 axes **G4**



Articulated robots
 YA
 Linear conveyor modules
 LCM100
 Compact single-axis robots
 TRANSEVO
 Single-axis robots
 FLIP-X
 Linear motor single-axis robots
 PHASER
 Cartesian robots
 XX-X
 SCARA robots
 YK-X
 Pick & place robots
 YP-X
 CLEAN
 INFORMATION
 INFORMATION
 Arm type
 Gantry type
 Moving arm type
 Pole type
 XZ type

SXYx 2 axes

● Moving arm type ● Whipover



Ordering method

SXYx - S					RCX222				
Model	Cable	Combination	X-axis stroke ^{Note 1}	Y-axis stroke ^{Note 1}	Cable	Controller	Usable for CE	Input/Output selection 1	Input/Output selection 2
M1		M1	15 to 85cm	15 to 35cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	N: NPN ^{Note 2} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 3}	No entry: None N1: OP.DIO24/16 (NPN) ^{Note 2} P1: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 4}

Note 1. The total of the X and Y strokes should be 1000mm or less.
 Note 2. NPN cannot be selected if using CE marking.
 Note 3. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	F14H	F14
AC servo motor output (W)	200	100
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20
Maximum speed ^{Note 4} (mm/sec)	1200	1200
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 flange 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.

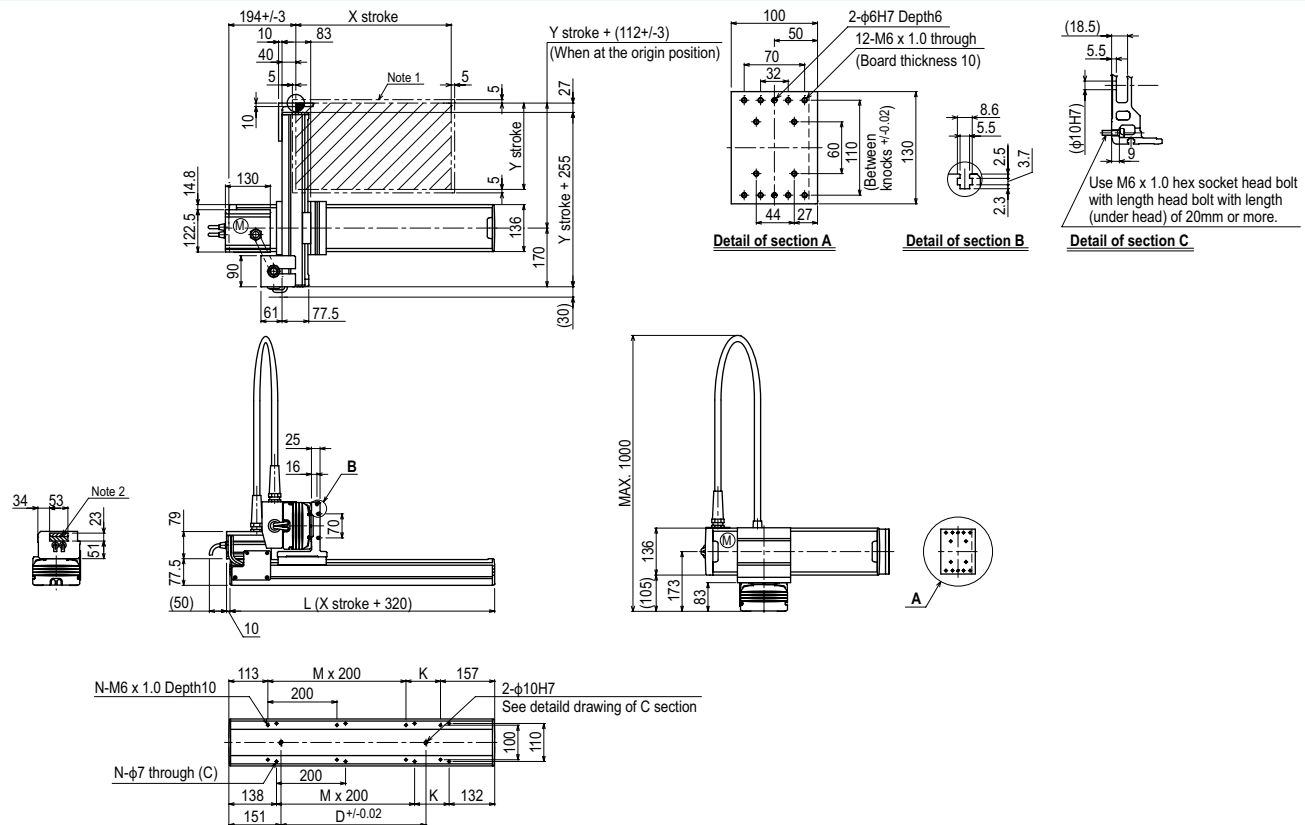
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150	15
250	14
350	13

Controller

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

SXYx 2 axes M1

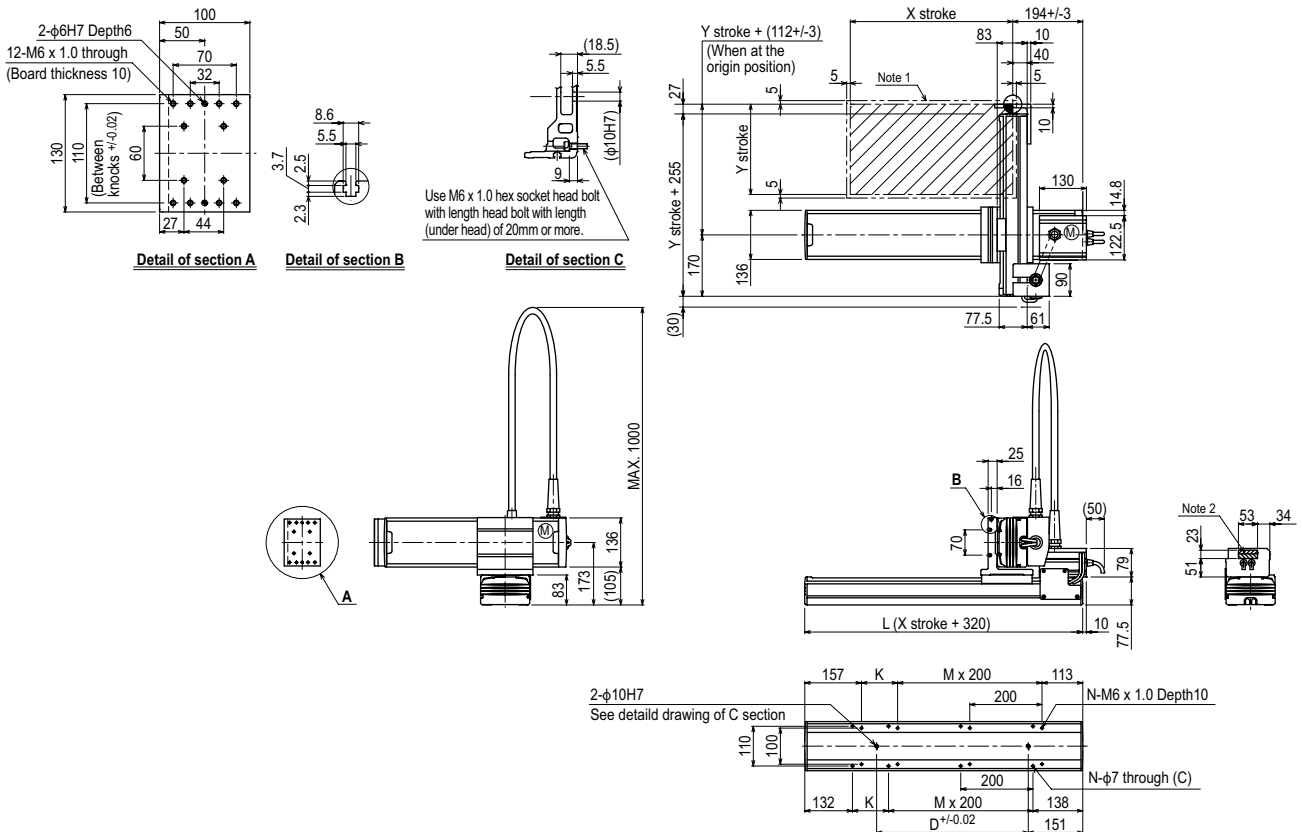


X stroke ^{Note 3}	150	250	350	450	550	650	750	850
	L	470	570	670	770	870	970	1070
K	200	100	200	100	200	100	200	100
D	240	240	420	420	600	600	780	960
M	0	1	1	2	2	3	3	4
N	4	6	6	8	8	10	10	12
Y stroke ^{Note 3}	150	250	350					
Maximum speed for each stroke (mm/sec) ^{Note 4}	X-axis		1200		960		780	
Speed 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 a user cable extraction port.

Note 3. The total of the X and Y strokes should be 1000mm or less.
 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 at the left.

SXYx 2 axes M3



X stroke ^{Note 3}	150	250	350	450	550	650	750	850
L	470	570	670	770	870	970	1070	1170
K	200	100	200	100	200	100	200	100
D	240	240	420	420	600	600	780	960
M	0	1	1	2	2	3	3	4
N	4	6	6	8	8	10	10	12
Y stroke ^{Note 3}	150	250	350					
Maximum speed for each stroke (mm/sec) ^{Note 4}	X-axis		1200			960		780
Speed setting			-			80%		65%

Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.

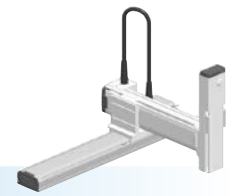
Note 2. The shaded position indicates an user cable extraction port.

Note 3. The total of the X and Y strokes should be 1000mm or less.

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 at the left.

SXYx 3 axes / ZF

- Moving arm type
- Whipover
- Z-axis: clamped base / moving table type (100W)



Ordering method

SXYx - S [] [] [] **ZF** [] [] [] **RCX340-3** [] [] [] [] [] [] [] [] [] []

Model - **Cable** - **Combination** - **X-axis stroke** Note 1 - **Y-axis stroke** Note 1 - **ZR-axis** - **Z-axis stroke** - **Cable**

Model: M1, M3
 X-axis stroke: 15 to 85cm, 15 to 35cm
 Y-axis stroke: 15 to 35cm
 ZR-axis: 15 to 35cm
 Z-axis stroke: 15 to 35cm
 Cable: 3L: 3.5m, 5L: 5m, 10L: 10m

RCX340-3 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

Specify various controller setting items. RCX340 ▶ **P.544**

RCX240S Controller - CE Marking - Expansion I/O - Network option - iVY System - Gripper - Battery

Specify various controller setting items. RCX240/RCX240S ▶ **P.534**

Note 1. The total of the X and Y strokes should be 1000mm or less.

Specification

	X-axis	Y-axis	Z-axis
Axis construction Note 1	F14H	F14	F10-BK
AC servo motor output (W)	200	100	100
Repeatability Note 2 (mm)	+/-0.01	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw	Ball screw
Ball screw lead Note 3 (Deceleration ratio) (mm)	20	20	10
Maximum speed Note 4 (mm/sec)	1200	1200	600
Moving range (mm)	150 to 850	150 to 350	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.

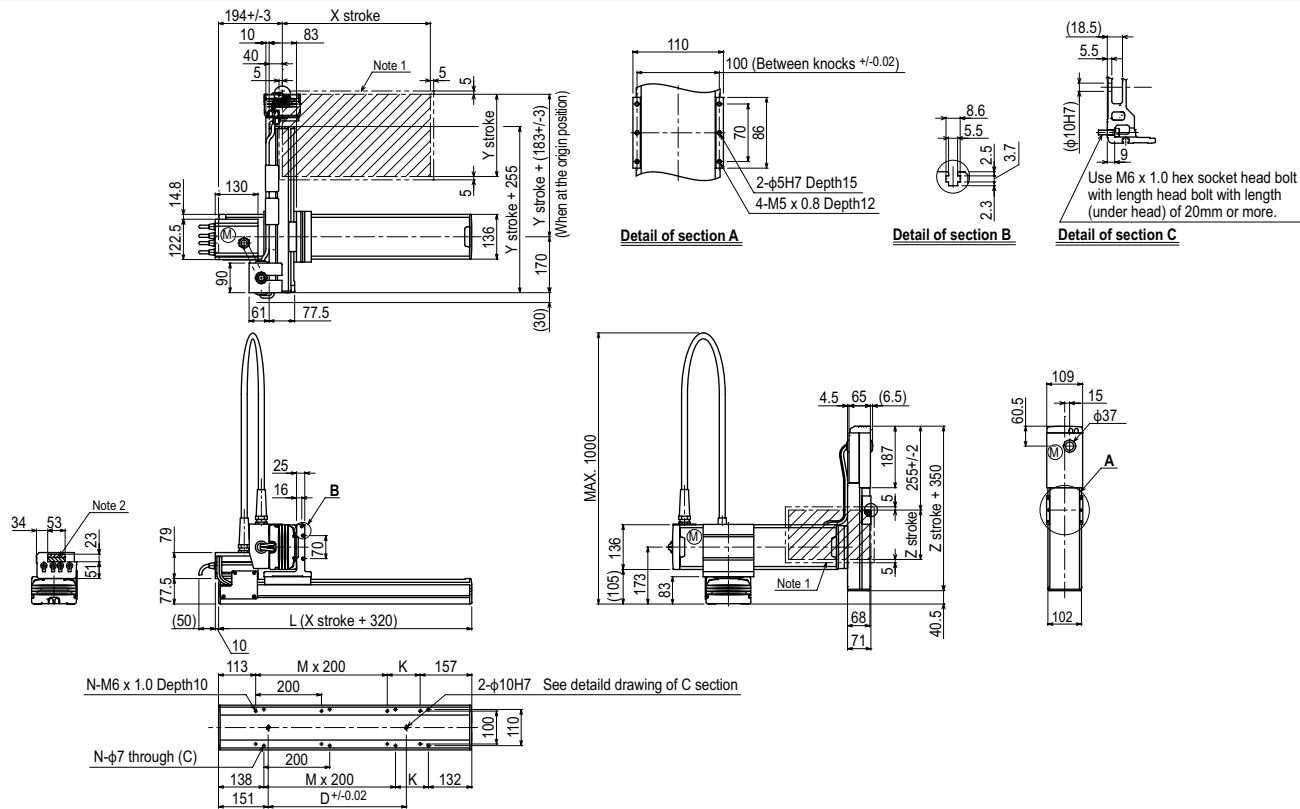
Maximum payload (kg)

Y stroke (mm)	Z stroke (mm)		
	150	250	350
150	9	8	7
250	8	7	6
350	7	6	5

Controller

Controller	Operation method
RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
RCX240S	

SXYx 3 axes / ZF M1

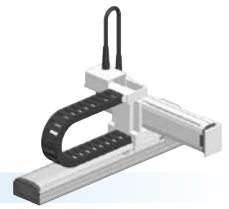


X stroke	Note 3							
	150	250	350	450	550	650	750	850
L	470	570	670	770	870	970	1070	1170
K	200	100	200	100	200	100	200	100
D	240	240	420	420	600	600	780	960
M	0	1	1	2	2	3	3	4
N	4	6	6	8	8	10	10	12
Y stroke	Note 3							
	150	250	350					
Z stroke								
	150	250	350					
Maximum speed for each stroke (mm/sec)	X-axis		1200		960		780	
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 a user cable extraction port.

- Note 3. The total of the X and Y strokes should be 1000mm or less.
 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 at the left.

MXYx 2 axes



- Moving arm type
- Cable carrier

Ordering method

MXYx - C					RCX222		R			
Model	Cable	Combination	X-axis stroke	Y-axis stroke	Cable	Controller	Usable for CE	Regenerative unit	Input/Output selection 1	Input/Output selection 2
M1		M1	25 to 125cm	15 to 55cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	R: RG2	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None N1: OP.DIO24/16 (PNP) ^{Note 1} P1: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 3}
M3		M3								

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	F17	F14H
AC servo motor output (W)	400	200
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20
Maximum speed ^{Note 4} (mm/sec)	1200	1200
Moving range (mm)	250 to 1250	150 to 550
Robot cable length (m)	Standard: 3.5 Option: 5,10	

Note 1. Use caution that the flange 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 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.

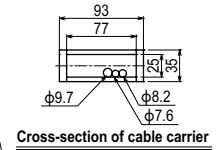
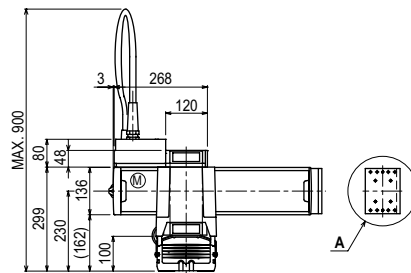
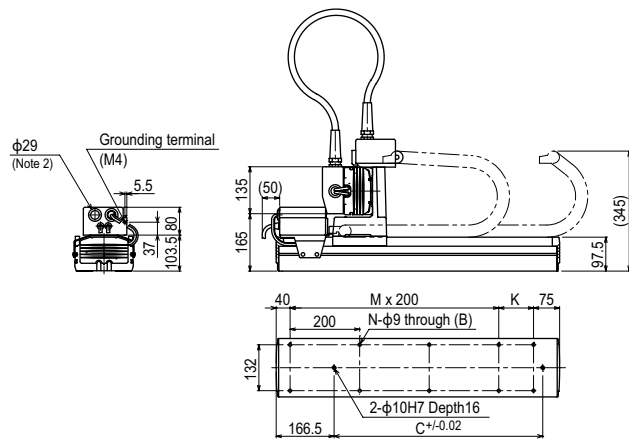
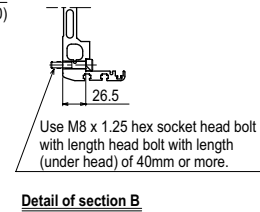
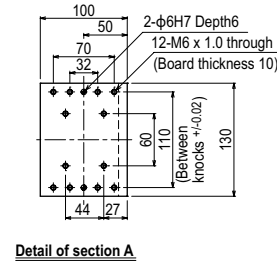
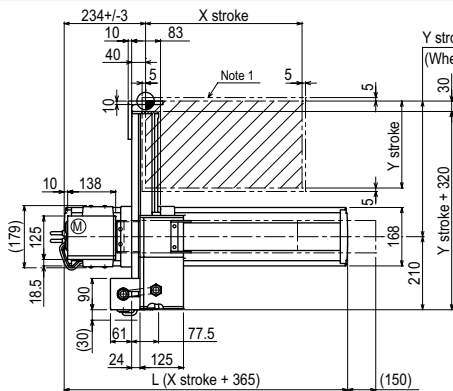
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150 to 550	20

Controller

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

MXYx 2 axes M1

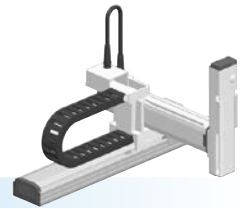


X stroke	250	350	450	550	650	750	850	950	1050	1150	1250
L	615	715	815	915	1015	1115	1215	1315	1415	1515	1615
K	100	200	100	200	100	200	100	200	100	200	100
D	240	420	600	600	780	780	960	960	1140	1140	1320
M	2	2	3	3	4	4	5	5	6	6	7
N	8	8	10	10	12	12	14	14	16	16	18
Y stroke	150	250	350	450	550						
Maximum speed for each stroke (mm/sec)	X-axis		1200				960	840	720	600	480
Speed setting	X-axis		-				80%	70%	60%	50%	40%

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.

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.

- Moving arm type
- Cable carrier
- Z-axis: clamped base / moving table type (200W)



Ordering method

MXy_x - C

Model	Cable	Combination	X-axis stroke	Y-axis stroke	ZR-axis	Z-axis stroke	Cable
		M1 M3	25 to 125cm	15 to 55cm	ZFL20 ZFL10	15 to 35cm	3L: 3.5m 5L: 5m 10L: 10m

RCX340-3

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

Specify various controller setting items. RCX340 ▶ **P.544**

RCX240

Controller	CE Marking	Regenerative unit	Expansion I/O	Network option	IVY System	Gripper	Battery

Specify various controller setting items. RCX240/RCX240S ▶ **P.534**

Specification

	X-axis	Y-axis	Z-axis: ZFL20	Z-axis: ZFL10
Axis construction <small>Note 1</small>	F17	F14H	F10-BK equivalent guide-reinforced model	
AC servo motor output (W)	400	200	200	
Repeatability <small>Note 2</small> (mm)	+/-0.01	+/-0.01	+/-0.01	
Drive system	Ball screw	Ball screw	Ball screw	
Ball screw lead <small>Note 3</small> (Deceleration ratio) (mm)	20	20	20	10
Maximum speed <small>Note 4</small> (mm/sec)	1200	1200	1200	600
Moving range (mm)	250 to 1250	150 to 550	150 to 350	
Robot cable length (m)	Standard: 3.5 Option: 5,10			

Note. The standard types are ZFL with higher rigidity as compared with ZF types which are conventional standard types. When you need the ZF type, please consult YAMAHA.

Note 1. Use caution that the flange 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 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.

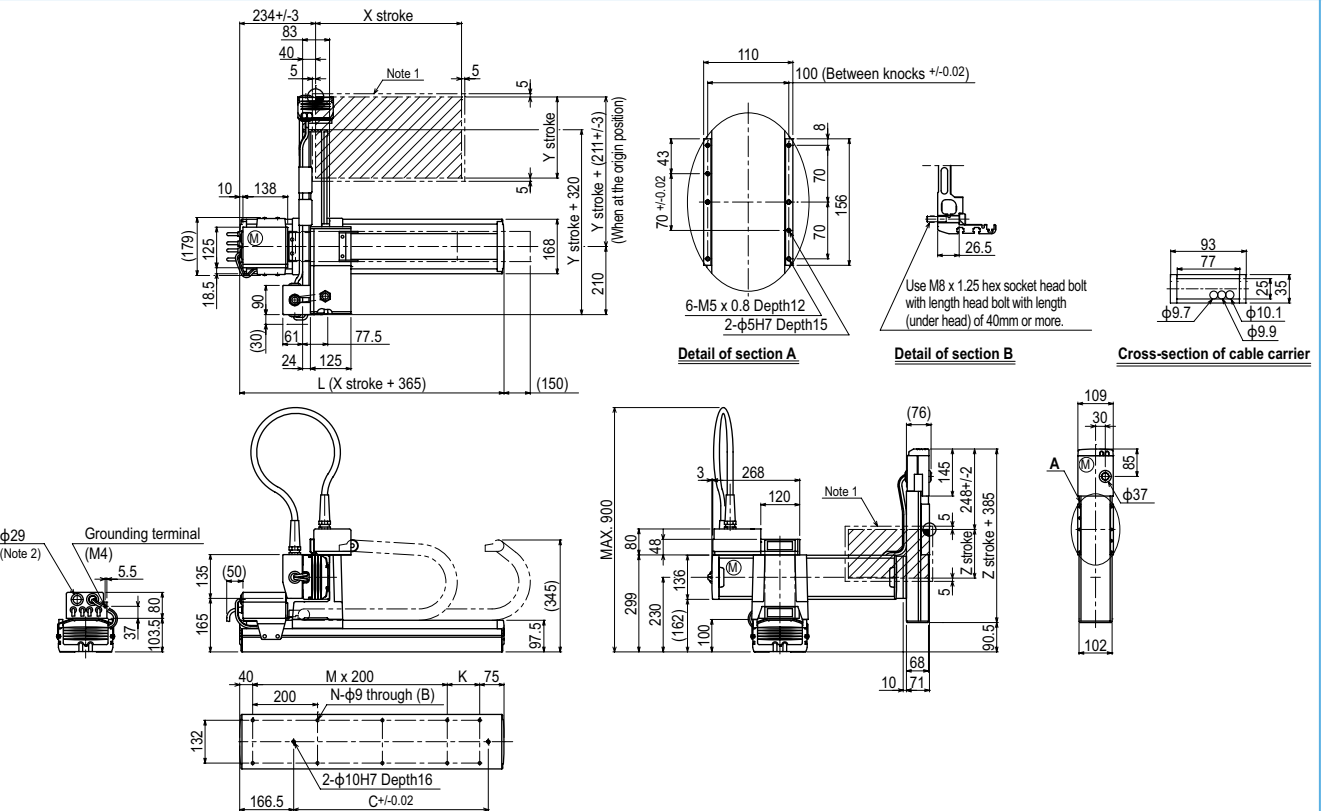
Maximum payload (kg)

Y stroke (mm)	Z stroke (mm)					
	ZFL20			ZFL10		
150 to 550	8	8	8	12	11	10

Controller

Controller	Operation method
RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
RCX240-R	

MXy₃ axes / ZFL20/10 **M1**



	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
Y stroke		150	250	350	450	550						
Z stroke		150	250	350								
Maximum speed for each stroke (mm/sec) <small>Note 3</small>	X-axis	1200						960	840	720	600	480
	Speed setting	-						80%	70%	60%	50%	40%

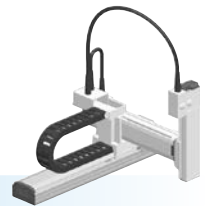
Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.

Note 2. User cable extraction port.

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.

MXYx 3 axes / ZFH

- Moving arm type
- Cable carrier
- Z-axis: clamped table / moving base type (200W)



Ordering method

MXYx - C [] [] [] **ZFH** [] [] []

Model - **Cable** - **Combination** - **X-axis stroke** - **Y-axis stroke** - **ZR-axis** - **Z-axis stroke** - **Cable**

M1
M3
25 to 125cm
15 to 55cm
15 to 35cm
3L: 3.5m
5L: 5m
10L: 10m

RCX340-3 [] [] [] [] [] [] [] []

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

Specify various controller setting items. RCX340 ▶ P.544

RCX240 [] [] [] [] [] [] [] []

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

Specify various controller setting items. RCX240/RCX240S ▶ P.534

Specification

	X-axis	Y-axis	Z-axis
Axis construction ^{Note 1}	F17	F14H	F10-BK equivalent guide-reinforced model
AC servo motor output (W)	400	200	200
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20	10
Maximum speed ^{Note 4} (mm/sec)	1200	1200	600
Moving range (mm)	250 to 1250	150 to 550	150 to 350
Robot cable length (m)	Standard: 3.5 Option: 5,10		

Note. The standard types are ZFH with higher rigidity as compared with ZF types which are conventional standard types. When you need the ZF type, please consult YAMAHA.

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 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.

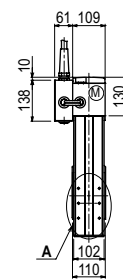
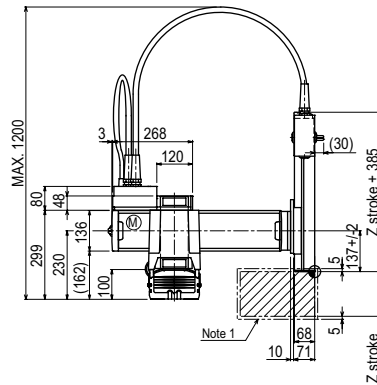
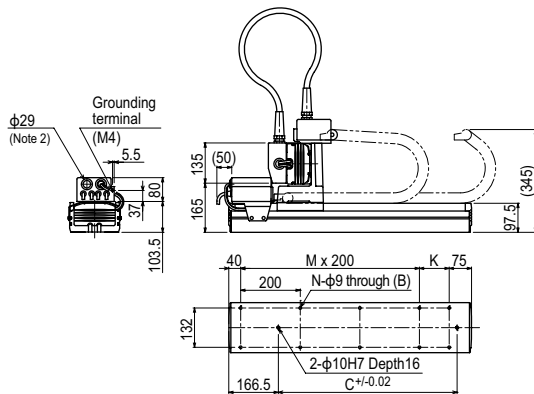
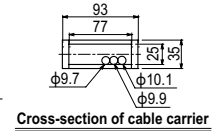
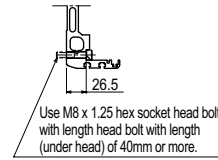
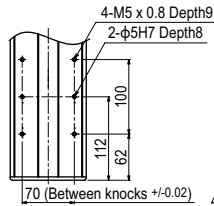
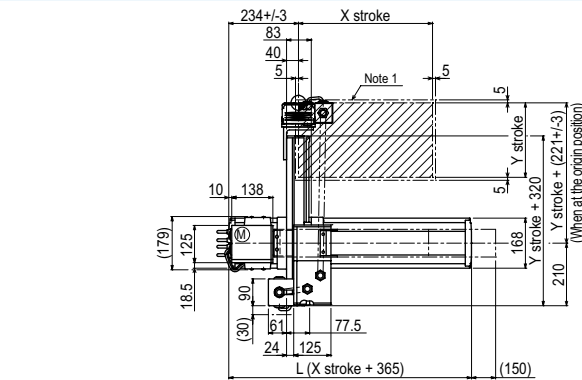
Maximum payload (kg)

Y stroke (mm)	Z stroke (mm)		
	150	250	350
150 to 550	12	11	10

Controller

Controller	Operation method
RCX340 RCX240-R	Programming / I/O point trace / Remote command / Operation using RS-232C communication

MXYx 3 axes / ZFH M1



X stroke ^{Note 3}	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	
D	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	
Y stroke ^{Note 3}	150 250 350 450 550											
	150 250 350											
Z stroke	150 250 350											
	150 250 350											
Maximum speed for each stroke (mm/sec) ^{Note 4}	X-axis	1200					960	840	720	600	480	
	Speed setting	-					80%	70%	60%	50%	40%	

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.

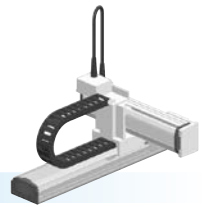
Note 3. The total of the Y and Z strokes should be 800mm or less.

Note 4. 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.

Articulated robots
YA
Linear conveyor modules
LCM100
Compact single-axis robots
TRANSEVO
Single-axis robots
FLIP-X
Linear motor single-axis robots
PHASER
Cartesian robots
XX-X
SCARA robots
YK-X
Pick & place robots
YP-X
CLEAN
CONTROLLER INFORMATION
Arm type
Gantry type
Moving arm type
Pole type
XZ type

HXYx 2 axes

● Moving arm type ● Cable carrier



Ordering method

HXYx - C					RCX222HP			R		
Model	Cable	Combination	X-axis stroke	Y-axis stroke	Cable	Controller	Usable for CE	Regenerative unit	Input/Output selection 1	Input/Output selection 2
M1		M1	25 to 125cm	25 to 65cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222HP	No entry: Standard E: CE marking	R: RG2	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet TM PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None N1: OP.DIO24/16 (NPN) ^{Note 1} P1: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 3}

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	F20	F17
AC servo motor output (W)	600	400
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20
Maximum speed ^{Note 4} (mm/sec)	1200	1200
Moving range (mm)	250 to 1250	250 to 650
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 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.

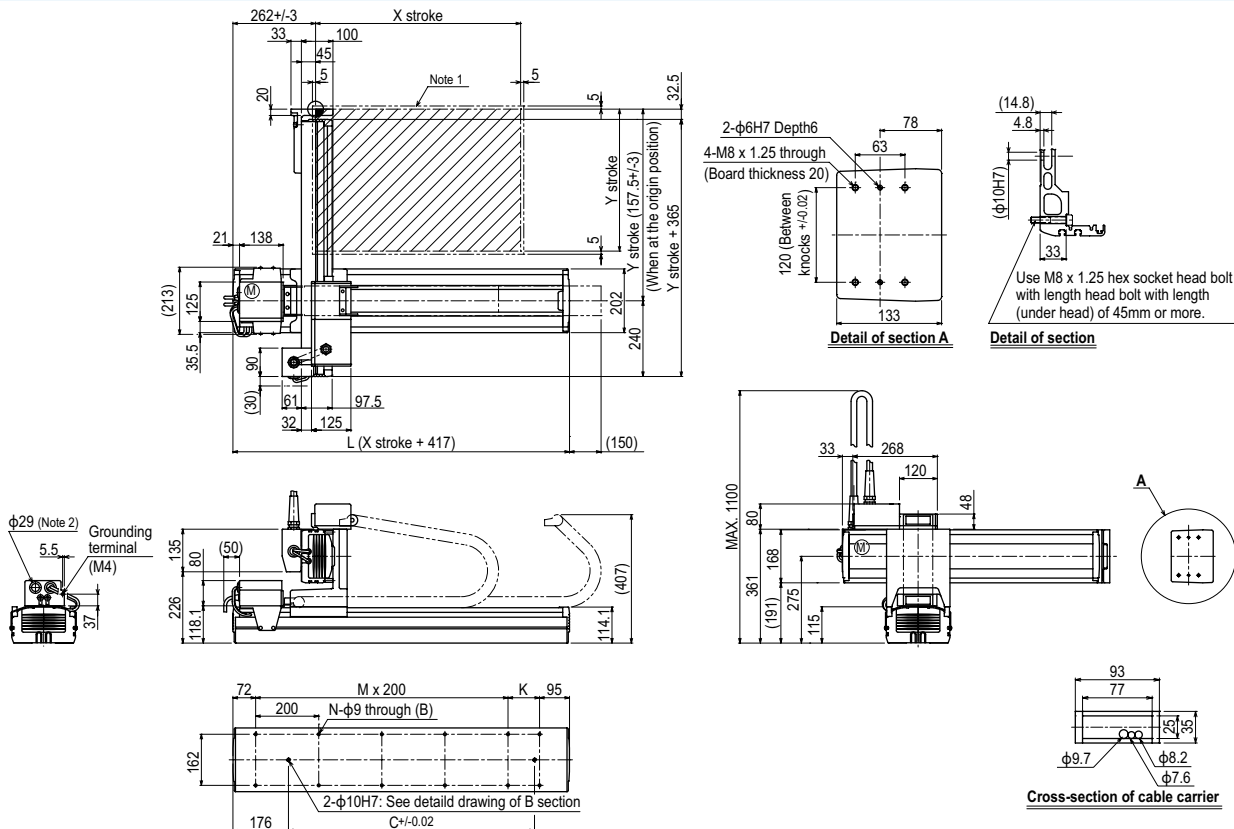
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
250 to 650	30

Controller

Controller	Operation method
RCX222HP-R	Programming / I/O point trace / Remote command / Operation using RS-232C communication

HXYx 2 axes M1

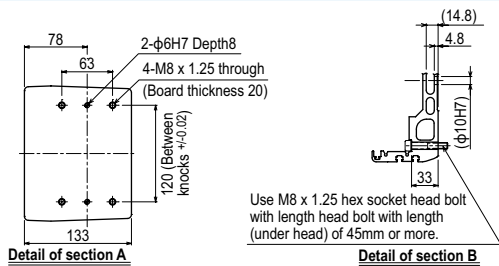


X stroke	250	350	450	550	650	750	850	950	1050	1150	1250
L	667	767	867	967	1067	1167	1267	1367	1467	1567	1667
K	100	200	100	200	100	200	100	200	100	200	100
C	420	420	600	600	780	780	960	960	1140	1320	1320
M	2	2	3	3	4	4	5	5	6	6	7
N	8	8	10	10	12	12	14	14	16	16	18
Y stroke	250	350	450	550	650						
Maximum speed for each stroke (mm/sec) ^{Note 3}	X-axis		1200				960	840	720	600	480
Speed setting			-				80%	70%	60%	50%	40%

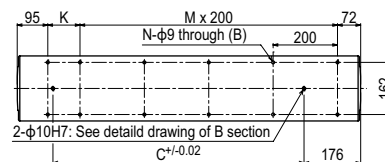
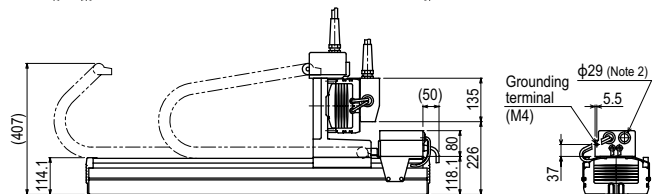
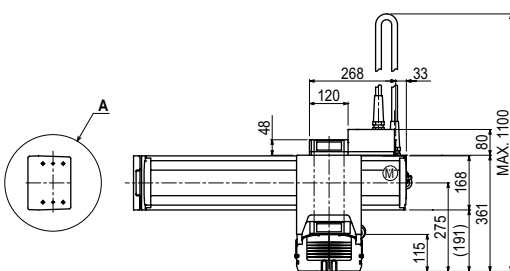
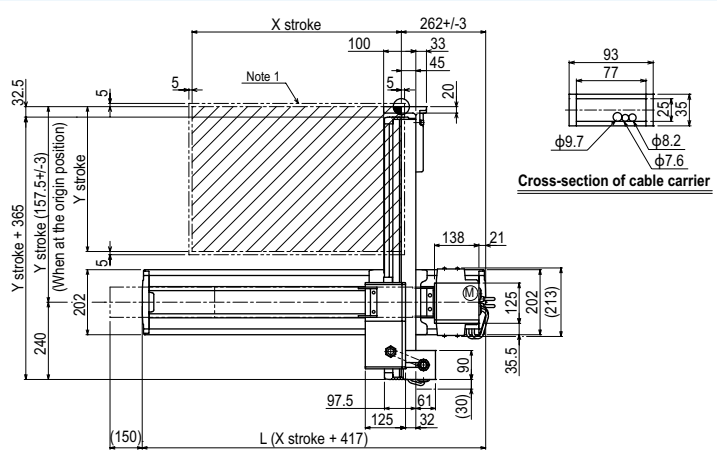
Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
 Note 2. User cable extraction port.

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.

HXYx 2 axes **M3**



Use M8 x 1.25 hex socket head bolt with length head bolt with length (under head) of 45mm or more.



X stroke	250	350	450	550	650	750	850	950	1050	1150	1250
L	667	767	867	967	1067	1167	1267	1367	1467	1567	1667
K	100	200	100	200	100	200	100	200	100	200	100
C	420	420	600	600	780	780	960	960	1140	1320	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
Y stroke	250	350	450	550	650						
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 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
Note 2. User cable extraction port.
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.

Articulated robots
YA

Linear conveyor
modules
LCMT100

Compact
single-axis robots
TRANSERVO

Single-axis robots
FLIP-X

Linear motor
single-axis robots
PHASER

Cartesian
robots
XY-X

SCARA
robots
YK-X

Pick & place
robots
YP-X

CLEAN

CONTROLLER

INFORMATION

Arm type

Gantry type

Moving arm
type

Pole type

XZ type

SXYx 2 axes

● Pole type ● Whipover



Ordering method

SXYx - S - P1				RCX222			
Model	Cable	Combination	X-axis stroke^{Note 1}	Y-axis stroke^{Note 1}	Cable	Controller	Usable for CE
			15 to 85cm	15 to 55cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking
							Input/Output selection 1
							N: NPN ^{Note 2} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 3}
							Input/Output selection 2
							No entry: None N1: OP.DIO24/16 (NPN) ^{Note 2} P1: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 4}

Note 1. The total of the X and Y strokes should be 1100mm or less.
 Note 2. NPN cannot be selected if using CE marking.
 Note 3. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction^{Note 1}	F14H	F14-BK
AC servo motor output (W)	200	100
Repeatability^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
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 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. 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.

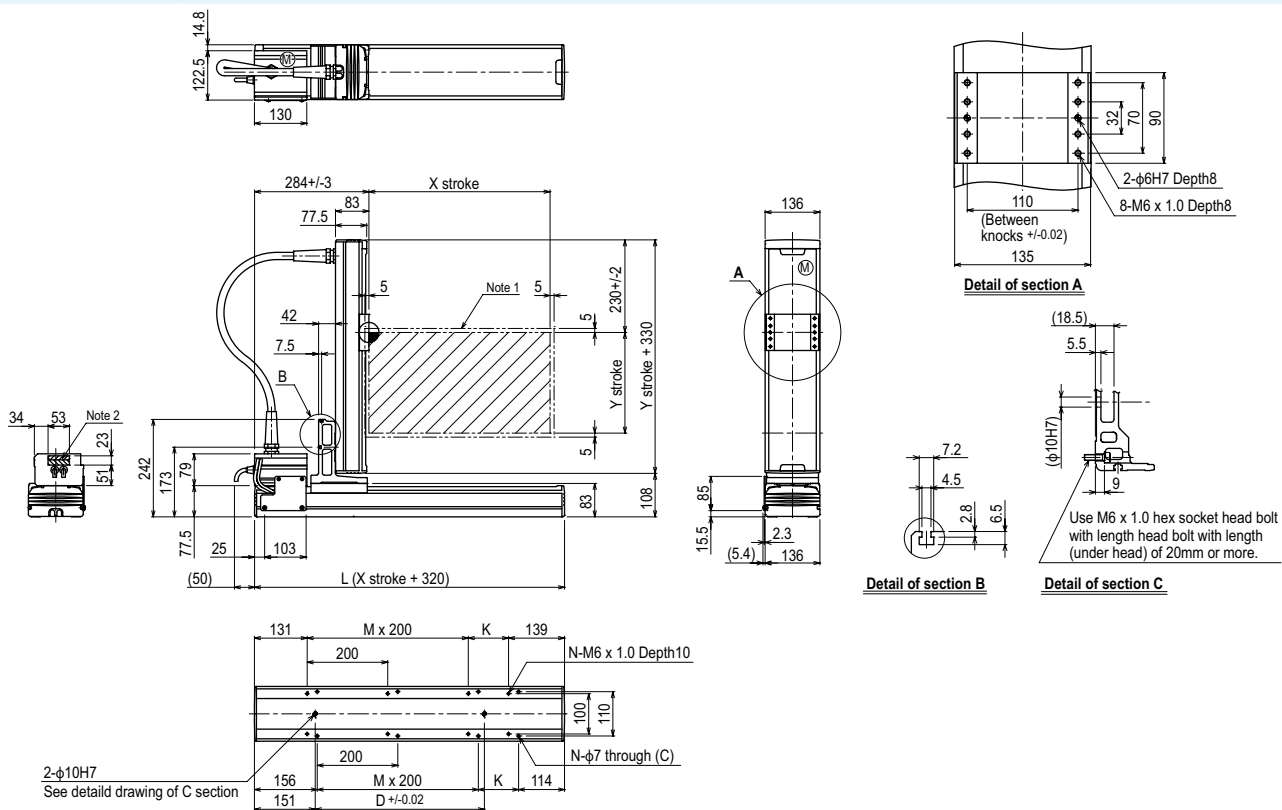
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150 to 550	8

Controller

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

SXYx 2 axes P1



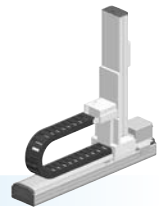
X stroke ^{Note 3}	150	250	350	450	550	650	750	850
L	470	570	670	770	870	970	1070	1170
K	200	100	200	100	200	100	200	100
D	240	240	420	420	600	600	780	780
M	0	1	1	2	2	3	3	4
N	4	6	6	8	8	10	10	12
Y stroke ^{Note 3}	150	250	350	450	550			
Maximum speed for each stroke (mm/sec)^{Note 4}	1200				960		780	
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 a user cable extraction port.

Note 3. The total of the X and Y strokes should be 1100mm or less.
 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 at the left.

MXYx 2 axes

Pole type Cable carrier



Ordering method

MXYx - C - P2				RCX222		R				
Model	Cable	Combination	X-axis stroke 25 to 125cm	Y-axis stroke 15 to 65cm	Cable 3L: 3.5m 5L: 5m 10L: 10m	Controller RCX222	Usable for CE No entry: Standard E: CE marking	Regenerative unit R: RG2	Input/Output selection 1 N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	Input/Output selection 2 No entry: None NT: OP.DIO24/16 (NPN) ^{Note 1} PT: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 3}

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-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	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	10
Maximum speed ^{Note 4} (mm/sec)	1200	600
Moving range (mm)	250 to 1250	150 to 650
Robot cable length (m)	Standard: 3.5 Option: 5,10	

Note 1. Use caution that the flange 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 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.

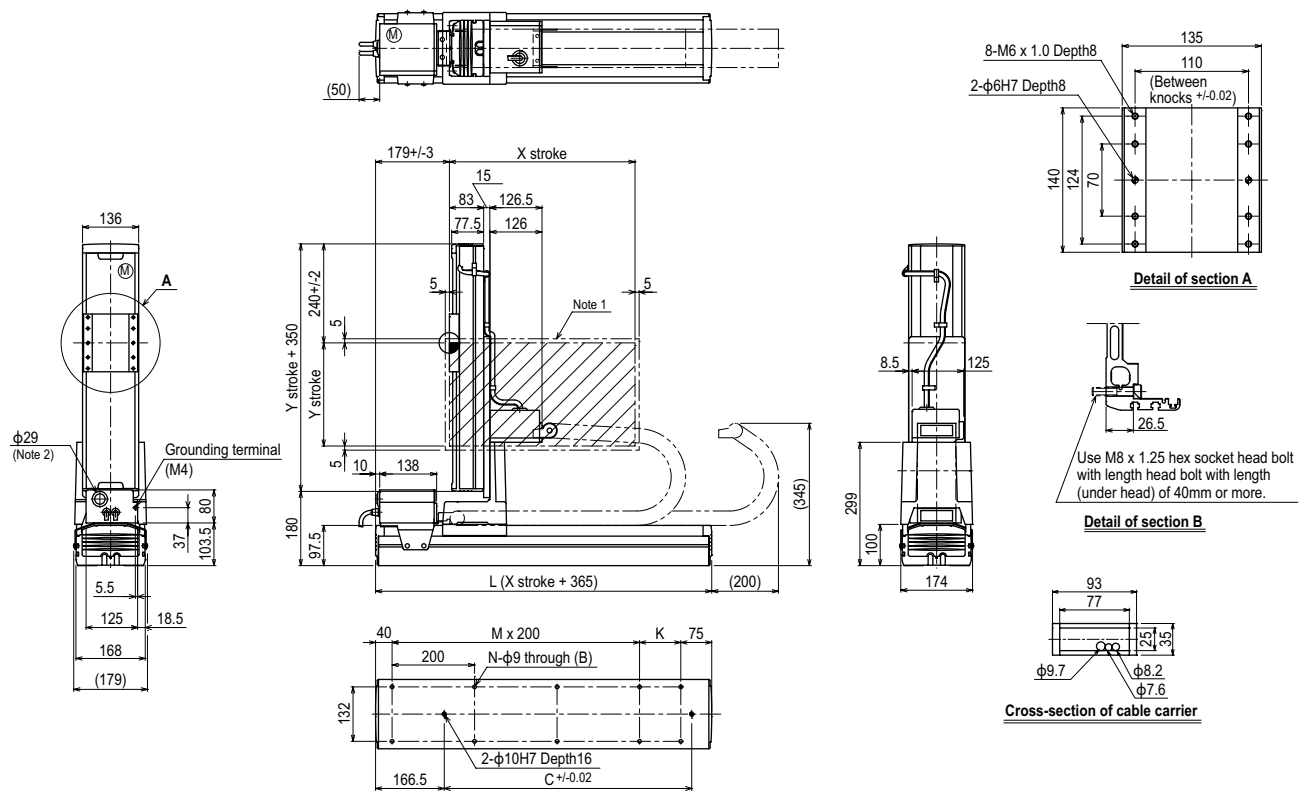
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150 to 650	20

Controller

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

MXYx 2 axes P2



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
Y stroke	150	250	350	450	550	650					
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 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
 Note 2. User cable extraction port.

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.

Articulated robots
YA

Linear conveyor modules
LCM100

Compact single-axis robots
TRANSEVO

Single-axis robots
FLIP-X

Linear motor single-axis robots
PHASER

Cartesian robots
XX-X

SCARA robots
YK-X

Pick & place robots
YP-X

CLEAN

CONTROLLER INFORMATION

Arm type

Gantry type

Moving arm type

Pole type

XZ type

MXYx 2 axes

● Pole type ● Whipover



Ordering method

MXYx - S - P1				RCX222		R				
Model	Cable	Combination	X-axis stroke ^{Note 1}	Y-axis stroke ^{Note 1}	Cable	Controller	Usable for CE	Regenerative unit	Input/Output selection 1	Input/Output selection 2
			25 to 95cm	15 to 65cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	R: RG2	N: NPN ^{Note 2} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 3}	No entry: None N1: OPDIO24/16 (NPN) ^{Note 2} P1: OPDIO24/17 (PNP) EN: Ethernet ^{Note 4}

Note 1. The total of the X and Y strokes should be 1100mm or less.
 Note 2. NPN cannot be selected if using CE marking.
 Note 3. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-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	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	10
Maximum speed ^{Note 4} (mm/sec)	1200	600
Moving range (mm)	250 to 950	150 to 650
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 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.

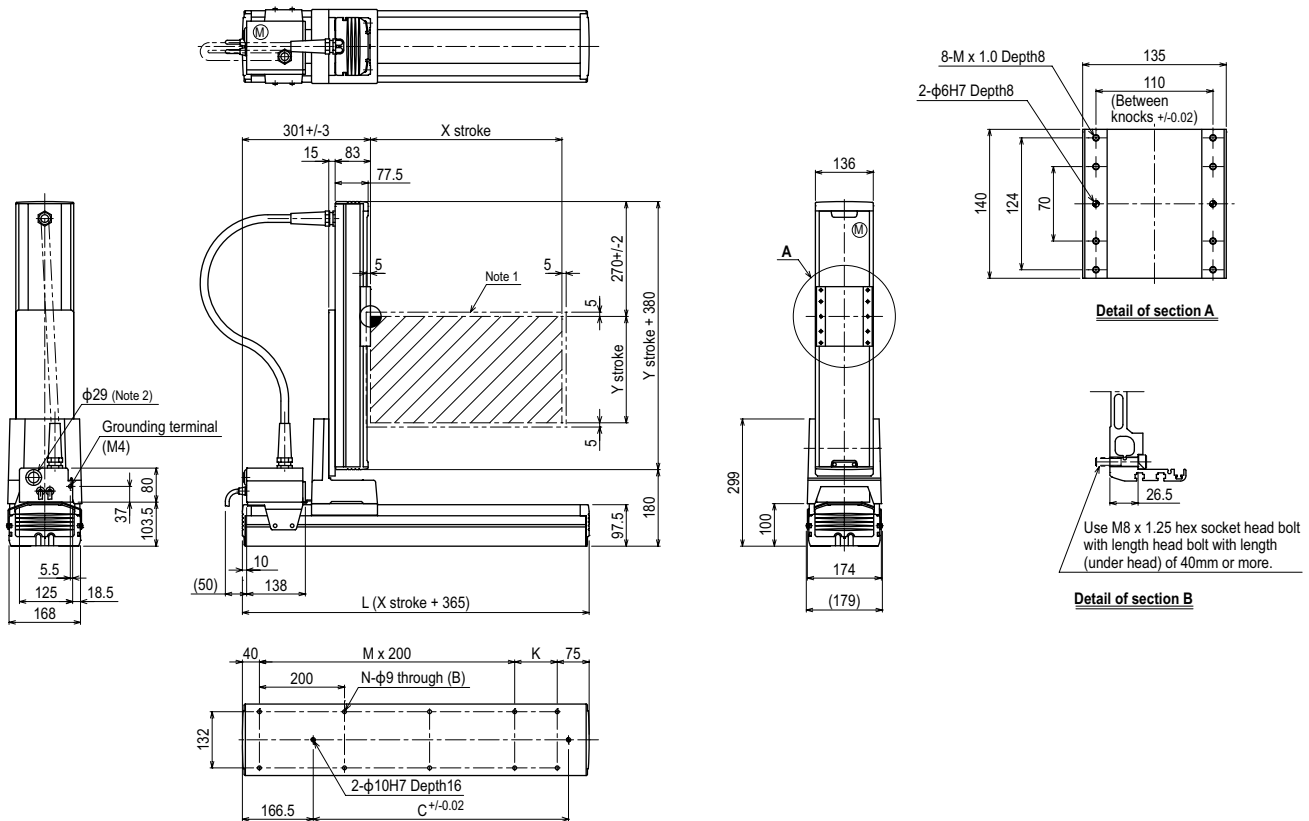
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150 to 650	20

Controller

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

MXYx 2 axes P1

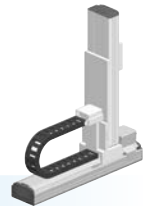


X stroke ^{Note 3}	250	350	450	550	650	750	850	950
L	615	715	815	915	1015	1115	1215	1315
K	100	200	100	200	100	200	100	200
C	240	420	600	600	780	780	960	960
M	2	2	3	3	4	4	5	5
N	8	8	10	10	12	12	14	14
Y stroke ^{Note 3}	150	250	350	450	550	650		
Maximum speed for each stroke (mm/sec) ^{Note 4}	X-axis		1200				960	840
Speed setting			-				80%	70%

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.

Note 3. The total of the X and Y strokes should be 1100mm or less.
 Note 4. 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.

HXYx 2 axes



● Pole type ● Cable carrier

Ordering method

HXYx	C	P2				RCX222HP		R		
Model	Cable	Combination	X-axis stroke 25 to 125cm	Y-axis stroke 25 to 105cm	Cable 3L: 3.5m 5L: 5m 10L: 10m	Controller RCX222HP	Usable for CE No entry: Standard E: CE marking	Regenerative unit R: RG2	Input/Output selection 1 N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	Input/Output selection 2 No entry: None N1: OPDIO24/16 (NPN) ^{Note 1} P1: OPDIO24/17 (PNP) EN: Ethernet ^{Note 3}

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Y-axis
Axis construction ^{Note 1}	F20	F20-BK
AC servo motor output (W)	600	600
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	10
Maximum speed ^{Note 4} (mm/sec)	1200	600
Moving range (mm)	250 to 1250	250 to 1050
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/Y-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.

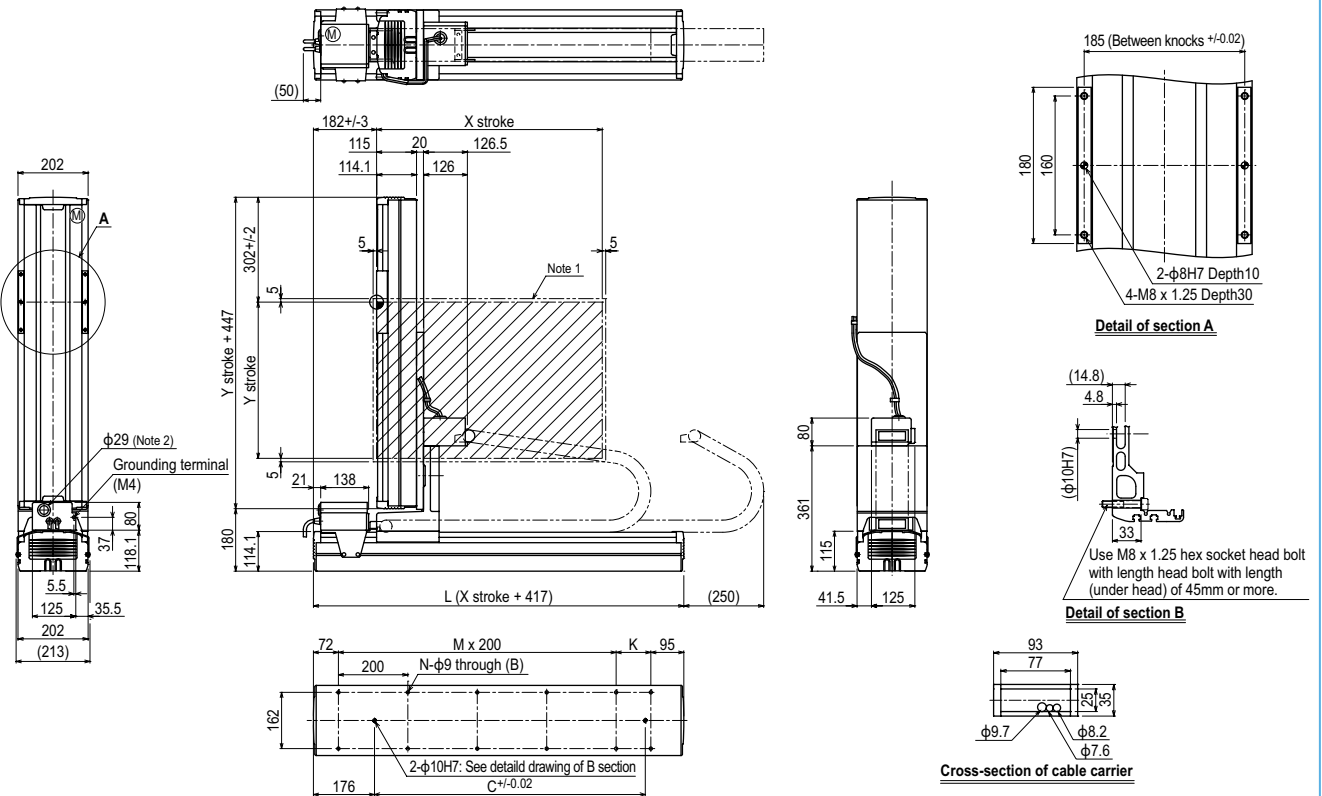
Maximum payload (kg)

Y stroke (mm)	XY 2 axes
250 to 1050	30

Controller

Controller	Operation method
RCX222HP-R	Programming / I/O point trace / Remote command / Operation using RS-232C communication

HXYx 2 axes P2



X stroke	250	350	450	550	650	750	850	950	1050	1150	1250
	L	667	767	867	967	1067	1167	1267	1367	1467	1567
K	100	200	100	200	100	200	100	200	100	200	100
C	420	420	600	600	780	708	960	1140	1320	1320	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
Y stroke	250	350	450	550	650	750	850	950	1050		
Maximum speed for each stroke (mm/sec) ^{Note 3}	X-axis		1200		960		840	720	600	480	
	Y-axis		600		480		420	360			
	Speed setting		-		80%		70%	60%	50%	40%	

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.

Note 3. When the X-axis/Y-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.

SXYx 2 axes / ZF

● XZ type ● Cable carrier ● Z-axis: clamped base / moving table type (100W)



Ordering method

SXYx - C				ZF				RCX222			
Model	Cable	Combination	X-axis stroke	ZR-axis	Z-axis stroke	Cable	Controller	Usable for CE	Input/Output selection 1	Input/Output selection 2	
	F1 F3		15 to 105cm		15 to 35cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None N1: OP.DIO24/16 (NPN) ^{Note 1} P1: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 3}	

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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}	F14	F10-BK
AC servo motor output (W)	100	100
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	10
Maximum speed ^{Note 4} (mm/sec)	1200	600
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 flange 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.

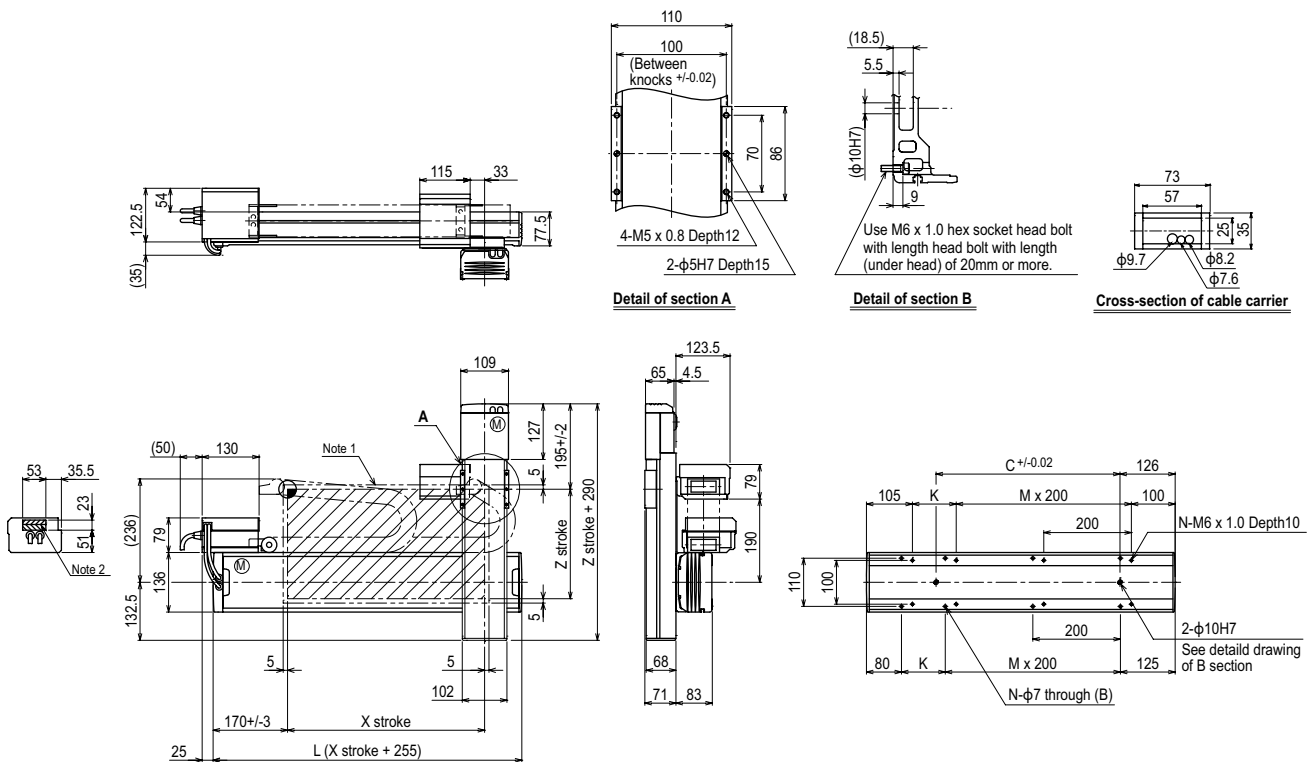
Maximum payload (kg)

X stroke (mm)	Z stroke (mm)
150 to 1050	150 to 350
	10

Controller

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

SXYx 2 axes / ZF (F1)



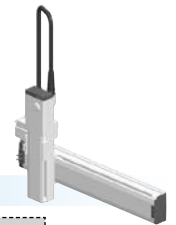
X stroke	150	250	350	450	550	650	750	850	950	1050			
L	405	505	605	705	805	905	1005	1105	1205	1305			
K	200	100	200	100	200	100	200	100	200	100			
C	240	240	420	420	600	600	780	780	960	960			
M	0	1	1	2	2	3	3	4	4	5			
N	4	6	6	8	8	10	10	12	12	14			
Z stroke	150	250	350										
Maximum speed for each stroke (mm/sec) ^{Note 3}	X-axis		1200			960		780		600		540	
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 a 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.

SXYx 2 axes / ZF

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



Ordering method

SXYx - S			ZF			RCX222				
Model	Cable	Combination	X-axis stroke	ZR-axis	Z-axis stroke	Cable	Controller	Usable for CE	Input/Output selection 1	Input/Output selection 2
	F1 F3		15 to 85cm		15 to 35cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None Nt: OPDIO24/16 (NPN) ^{Note 1} Pt: OPDIO24/17 (PNP) EN: Ethernet ^{Note 3}

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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}	F14	F10-BK
AC servo motor output (W)	100	100
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
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 flange 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.

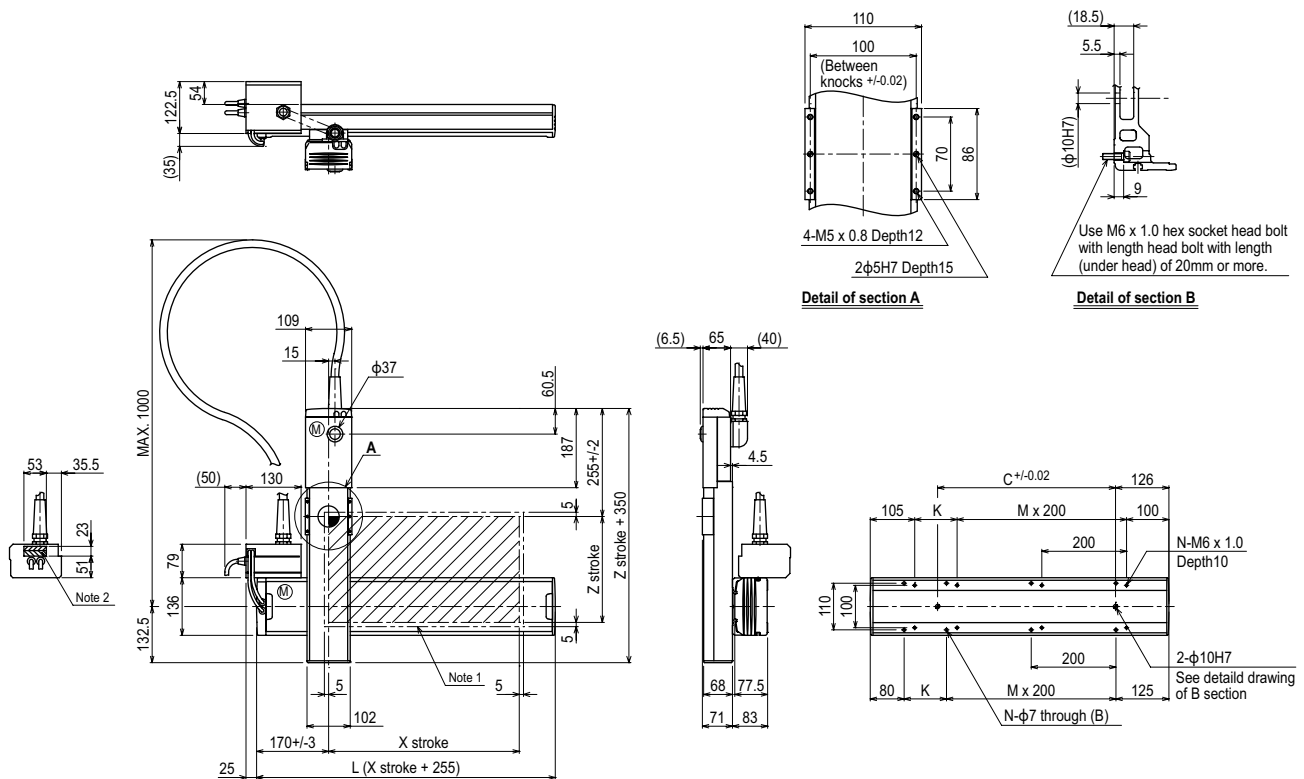
Maximum payload (kg)

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

Controller

Controller	Operation method
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
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 a 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.

Articulated robots
YA

Linear conveyor modules
LCM100

Compact single-axis robots
TRANSEVO

Single-axis robots
FLIP-X

Linear motor single-axis robots
PHASER

Cartesian robots
XX-X

SCARA robots
YK-X

Pick & place robots
YP-X

CLEAN

CONTROLLER INFORMATION

Arm type

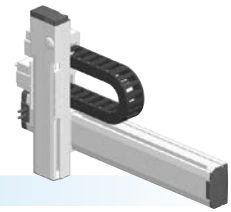
Gantry type

Moving arm type

Pole type

XZ type

SXYx 2 axes / ZFL20



● XZ type ● Cable carrier ● Z-axis: clamped base / moving table type (200W)

Ordering method

SXYx - C			ZFL20			RCX222		R			
Model	Cable	Combination	X-axis stroke	ZR-axis	Z-axis stroke	Cable	Controller	Usable for CE	Regenerative unit <small>Note 1</small>	Input/Output selection 1	Input/Output selection 2
F1			15 to 105cm		15 to 35cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	R: RG2	N: NPN <small>Note 2</small> P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link <small>Note 3</small>	No entry: None Nt: OPDIO24/16 (NPN) <small>Note 2</small> Pt: OPDIO24/17 (PNP) EN: Ethernet <small>Note 4</small>
F3											

Note 1. DRCX0510 uses the RGU-2 regenerative unit. The RCX222 uses the RG2.
 Note 2. NPN cannot be selected if using CE marking.
 Note 3. Available only for the master. See P.68 for details on YC-Link system.
 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 <small>Note 1</small>	F14	F10-BK equivalent guide-reinforced model
AC servo motor output (W)	100	200
Repeatability <small>Note 2</small> (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead <small>Note 3</small> (Deceleration ratio) (mm)	20	20
Maximum speed <small>Note 4</small> (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. 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.

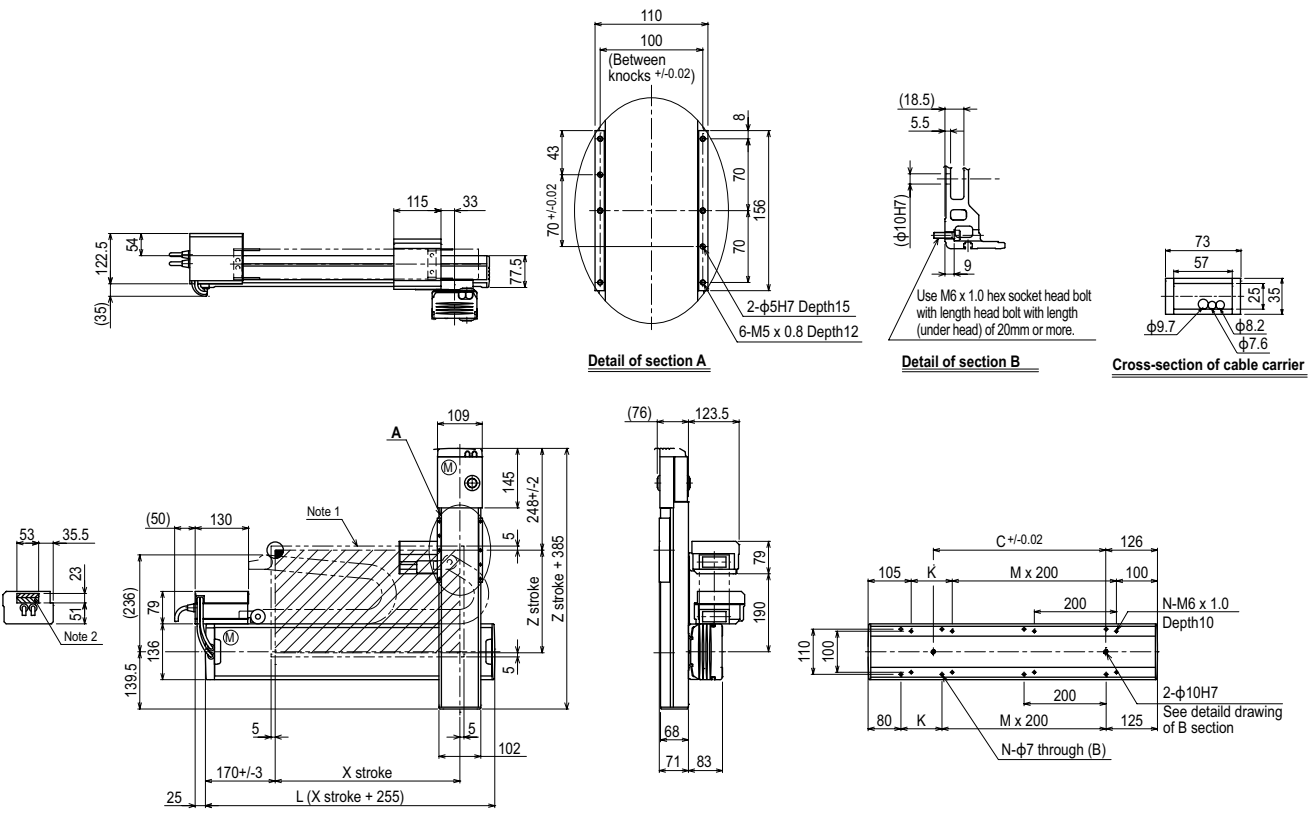
Maximum payload (kg)

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

Controller

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

SXYx 2 axes / ZFL20 (F1)



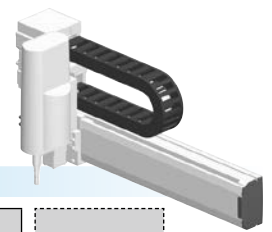
X stroke	150	250	350	450	550	650	750	850	950	1050
L	405	505	605	705	805	905	1005	1105	1205	1305
K	200	100	200	100	200	100	200	100	200	100
C	240	240	420	420	600	600	780	780	960	960
M	0	1	1	2	2	3	3	4	4	5
N	4	6	6	8	8	10	10	12	12	14
Z stroke	150	250	350							
Maximum speed for each stroke (mm/sec) <small>Note 3</small>	X-axis		1200				960	780	600	540
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 a 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.

SXYx 2 axes / ZS

- XZ type
- Cable carrier
- Z-axis shaft vertical type



Ordering method

SXYx - C				15		RCX222				
Model	Cable	Combination	X-axis stroke	ZR-axis	Z-axis stroke	Cable	Controller	Usable for CE	Input/Output selection 1	Input/Output selection 2
	F1 F3		15 to 105cm	ZS12 ZS6		3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link	No entry: None Nt: OP.DIO24/16 (NPN) Pt: OP.DIO24/17 (PNP) EN: Ethernet

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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: ZS12	Z-axis: ZS6
Axis construction ^{Note 1}	F14		
AC servo motor output (W)	100	60	
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.02	
Drive system	Ball screw	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	12	6
Maximum speed ^{Note 4} (mm/sec)	During RCX240 use	1200	1000
	During DRCX use	1200	900
Moving range (mm)	150 to 1050		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.
 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.

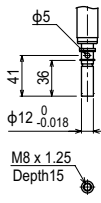
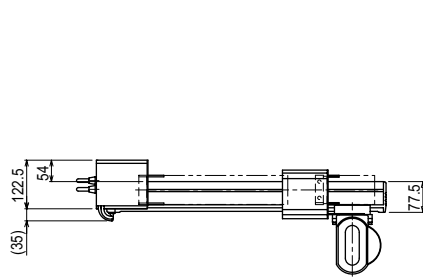
Maximum payload (kg)

Y stroke (mm)	ZS12	ZS6
150 to 1050	3	5

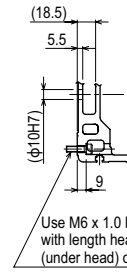
Controller

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

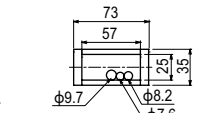
SXYx 2 axes / ZS (F1)



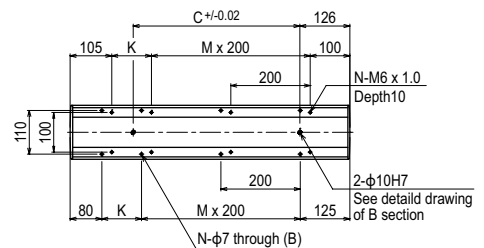
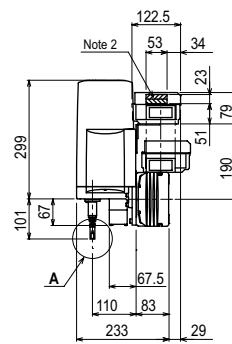
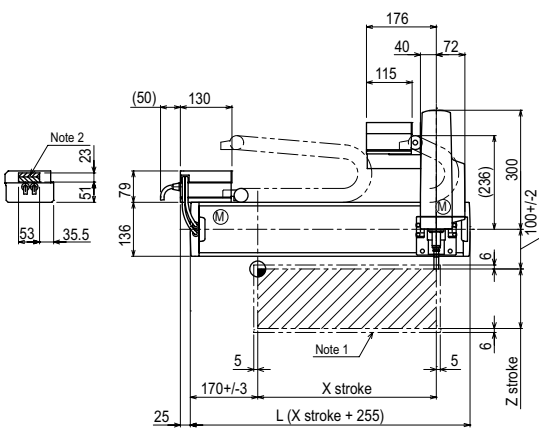
Detail of section A



Detail of section B



Cross-section of cable carrier



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										
Maximum speed for each stroke (mm/sec) ^{Note 3}	X-axis	1200					960	780	600	540	
	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.

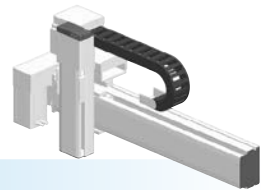
Note 3. When the X-axis stroke is longer than 750mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

- Articulated robots YA
- Linear conveyor modules LCM100
- Compact single-axis robots TRANSEVO
- Single-axis robots FLIP-X
- Linear motor single-axis robots PHASER
- Cartesian robots XX-X
- SCARA robots YK-X
- Pick & place robots YP-X
- CLEAN
- CONTROLLER INFORMATION
- Arm type
- Gantry type
- Moving arm type
- Pole type
- XZ type

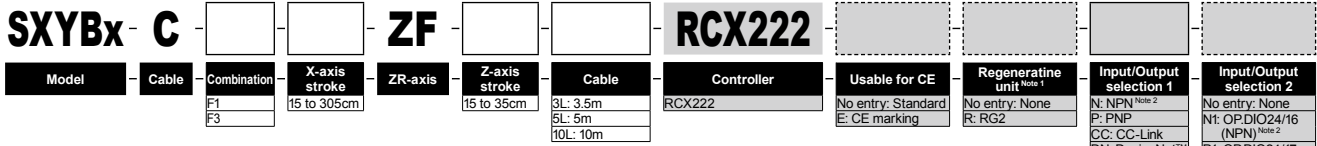
SXYBx

2 axes / ZF

- XZ type
- Cable carrier
- Z-axis: clamped base / moving table type (100W)



Ordering method



Note 1. Regenerative unit RG2 is required when the maximum speed on the RCX222 exceeds 1250mm/sec.
 Note 2. NPN cannot be selected if using CE marking.
 Note 3. Available only for the master. See P.68 for details on YC-Link system.
 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	B14H	F10-BK
AC servo motor output (W)	200	100
Repeatability (mm)	+/-0.04	+/-0.01
Drive system	Timing belt	Ball screw
Ball screw lead (Deceleration ratio) (mm)	Equivalent to lead 25	10
Maximum speed (mm/sec)	1875	600
Moving range (mm)	150 to 3050	150 to 350
Robot cable length (m)	Standard: 3.5 Option: 5,10	

Note 1. Use caution that the flange 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.

Maximum payload (kg)

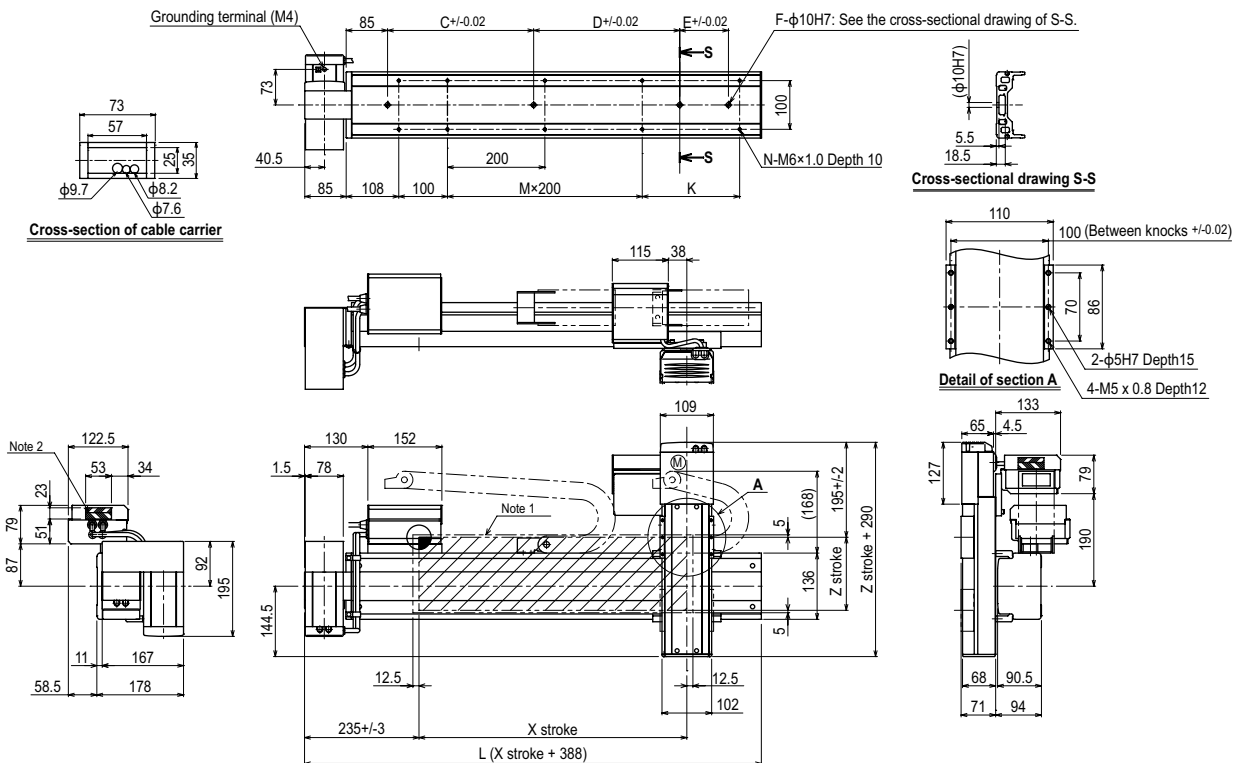
X stroke (mm)	Z stroke (mm)
150 to 3050	150 to 350
	10

Controller

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

Note. A regenerative unit is required when the maximum speed exceeds 1250mm/sec.

SXYBx 2 axes / ZF (F1)



Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.

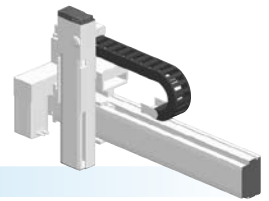
Note 2. The shaded position indicates an user cable extraction port.

Note 3. LU specification should be used for installation of the X axis motor.

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	538	638	738	838	938	1038	1138	1238	1338	1438	1538	1638	1738	1838	1938	2038	2138	2238	2338	2438	2538	2638	2738	2838	2938	3038	3138	3238	3338	3438	
K	-	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	200
C	240	420	420	600	600	780	780	960	1140	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	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	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	
M	1	1	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	
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	
Z stroke	150	250	350																												

SXYBx 2 axes / ZFL20

XZ type Cable carrier Z-axis: clamped base / moving table type (200W)



Ordering method

SXYBx - C			ZFL20			RCX222		R			
Model	Cable	Combination	X-axis stroke	ZR-axis	Z-axis stroke	Cable	Controller	Usable for CE	Regenerative unit	Input/Output selection 1	Input/Output selection 2
F1		F1	15 to 305cm		15 to 35cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	R: RG2	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 3}	No entry: None Nt: OP.DIO24/16 (NPN) ^{Note 1} Pt: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 3}

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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}	B14H	F10-BK equivalent guide-reinforced model
AC servo motor output (W)	200	200
Repeatability ^{Note 2} (mm)	+/-0.04	+/-0.01
Drive system	Timing belt	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	Equivalent to lead 25	20
Maximum speed (mm/sec)	1875	1200
Moving range (mm)	150 to 3050	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.

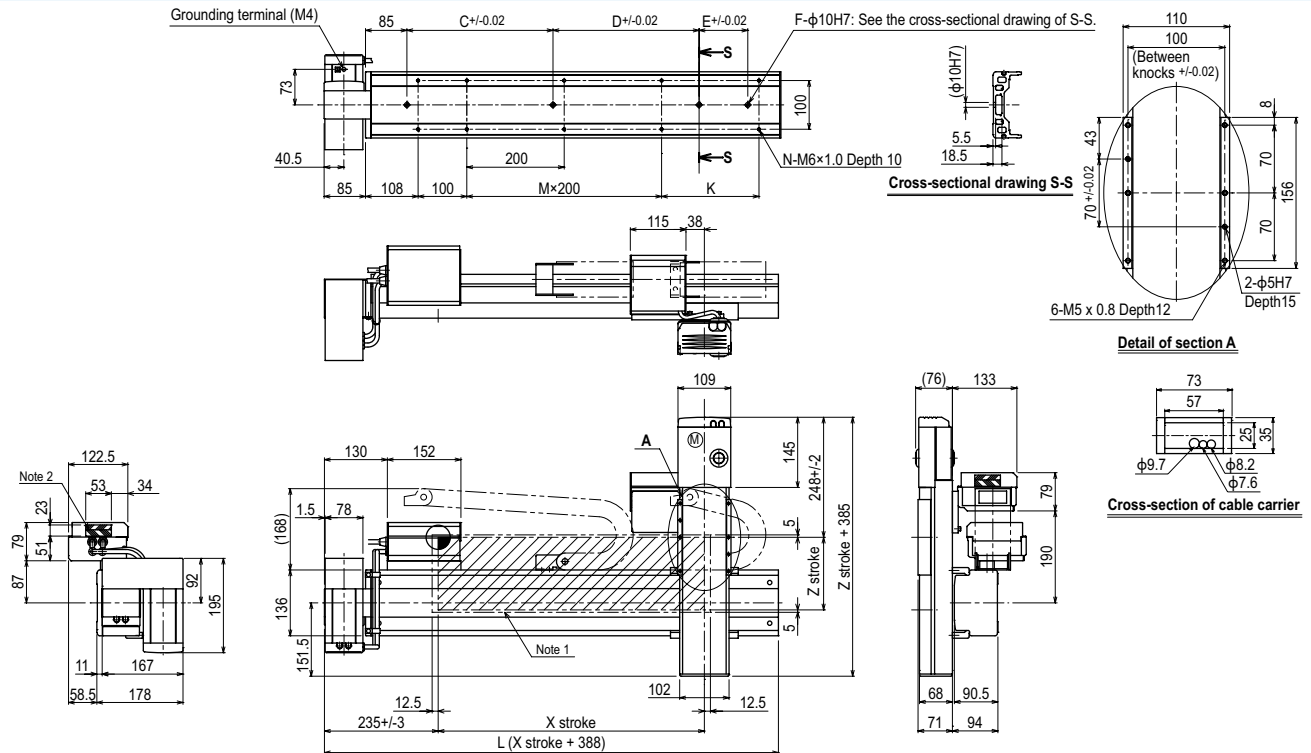
Maximum payload (kg)

X stroke (mm)	Z stroke (mm)
150 to 3050	150 to 350
	8

Controller

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

SXYBx 2 axes / ZFL20 F1



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. LU specification should be used for installation of the X axis motor.

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	538	638	738	838	938	1038	1138	1238	1338	1438	1538	1638	1738	1838	1938	2038	2138	2238	2338	2438	2538	2638	2738	2838	2938	3038	3138	3238	3338	3438	
K	-	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	200
C	240	420	420	600	600	780	780	960	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F	2	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	1	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	
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	
Z stroke	150	250	350																												

Articulated robots
YA

Linear conveyor modules
LCM100

Compact single-axis robots
TRANSEVO

Single-axis robots
FLIP-X

Linear motor single-axis robots
PHASER

Cartesian robots
XX-X

SCARA robots
YK-X

Pick & place robots
YP-X

CLEAN

CONTROLLER INFORMATION

Arm type

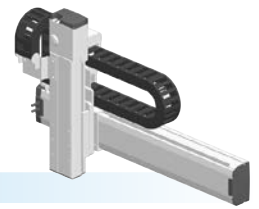
Gantry type

Moving arm type

Pole type

XZ type

- XZ type
- Cable carrier
- Z-axis: clamped table / moving base type (200W)



Ordering method

MXYx - C			ZFH			RCX222		R			
Model	Cable	Combination	X-axis stroke	ZR-axis	Z-axis stroke	Cable	Controller	Usable for CE	Regenerative unit	Input/Output selection 1	Input/Output selection 2
F1		F1	15 to 105cm		15 to 35cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	R: RG2	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None N1: OP.DIO24/16 (NPN) ^{Note 1} P1: OP.DIO24/17 (PNP) EN: Ethernet ^{Note 3}

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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}	F14H	F10-BK equivalent guide-reinforced model
AC servo motor output (W)	200	200
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	10
Maximum speed ^{Note 4} (mm/sec)	1200	600
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. 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)

X stroke (mm)	Z stroke (mm)		
	150	250	350
150 to 1050	14	13	12

Controller

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

MXYx 2 axes / ZFH (F1)

Detail of section A

Detail of section B

② Cross-section of cable carrier

② Cross-section of cable carrier

Use M6 x 1.0 hex socket head bolt with length head bolt with length (under head) of 20mm or more.

See detail drawing of B section

X stroke	150	250	350	450	550	650	750	850	950	1050
L	470	570	670	770	870	970	1070	1170	1270	1370
K	200	100	200	100	200	100	200	100	200	100
C	240	240	420	420	600	600	780	960	960	1140
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	
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 a 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.

Articulated robots
YA

Linear conveyor modules
LCM100

Compact single-axis robots
TRANSEVO

Single-axis robots
FLIP-X

Linear motor single-axis robots
PHASER

Cartesian robots
XX-X

SCARA robots
YK-X

Pick & place robots
YP-X

CLEAN

CONTROLLER INFORMATION

Arm type

Gantry type

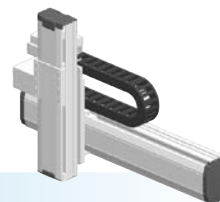
Moving arm type

Pole type

XZ type

HXYx 2 axes / ZL

● XZ type ● Cable carrier ● Z-axis: clamped base / moving table type (200W)



Ordering method

HXYx - C			ZL			RCX222		R			
Model	Cable	Combination	X-axis stroke	ZR-axis	Z-axis stroke	Cable	Controller	Usable for CE	Regenerative unit	Input/Output selection 1	Input/Output selection 2
F1			25 to 125cm		25 to 55cm	3L: 3.5m 5L: 5m 10L: 10m	RCX222	No entry: Standard E: CE marking	R: RG2	N: NPN ^{Note 1} P: PNP CC: CC-Link DN: DeviceNet TM PB: PROFIBUS EN: Ethernet YC: YC-Link ^{Note 2}	No entry: None N1: OPDIO24/16 (NPN) ^{Note 1} P1: OPDIO24/17 (PNP) EN: Ethernet ^{Note 3}
F3											

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	10
Maximum speed ^{Note 4} (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 flange 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 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.

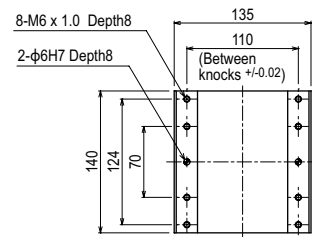
Maximum payload (kg)

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

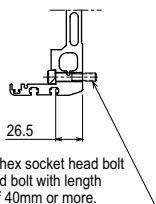
Controller

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

HXYx 2 axes / ZL (F1)

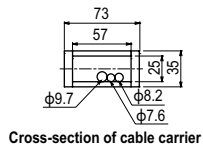
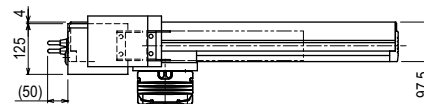


Detail of section A

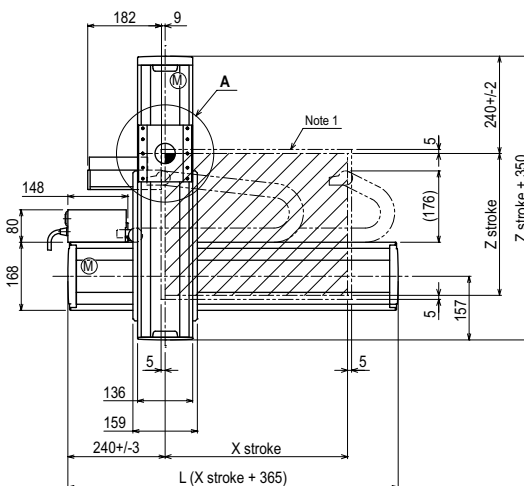
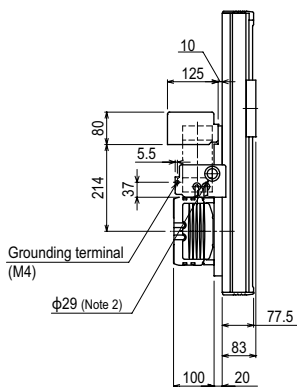
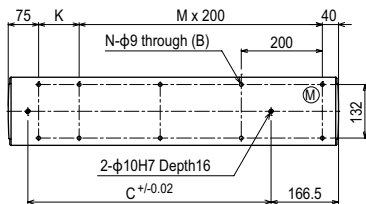


Detail of section B

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



Cross-section of cable carrier



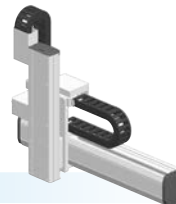
X stroke	250	350	450	550	650	750	850	950	1050	1150	1250
L	615	715	815	915	1015	1115	1215	1315	1415	1515	1615
K	100	200	100	200	100	200	100	200	100	200	100
C	240	420	600	600	780	780	960	960	1140	1140	1320
M	2	2	3	3	4	4	5	5	6	6	7
N	8	8	10	10	12	12	14	14	16	16	18
Z stroke	250	350	450	550							
Maximum speed for each stroke (mm/sec) ^{Note 3}	X-axis		1200				960	840	720	600	480
Speed setting			-				80%	70%	60%	50%	40%

Note 1. The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
 Note 2. User cable extraction port.

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.

HXYx 2 axes / ZH

● XZ type ● Cable carrier ● Z-axis: clamped table / moving base type (200W)



Ordering method

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

Note 1. NPN cannot be selected if using CE marking.
 Note 2. Available only for the master. See P.68 for details on YC-Link system.
 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	Ball screw
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	5
Maximum speed ^{Note 4} (mm/sec)	1200	300
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 flange 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 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.

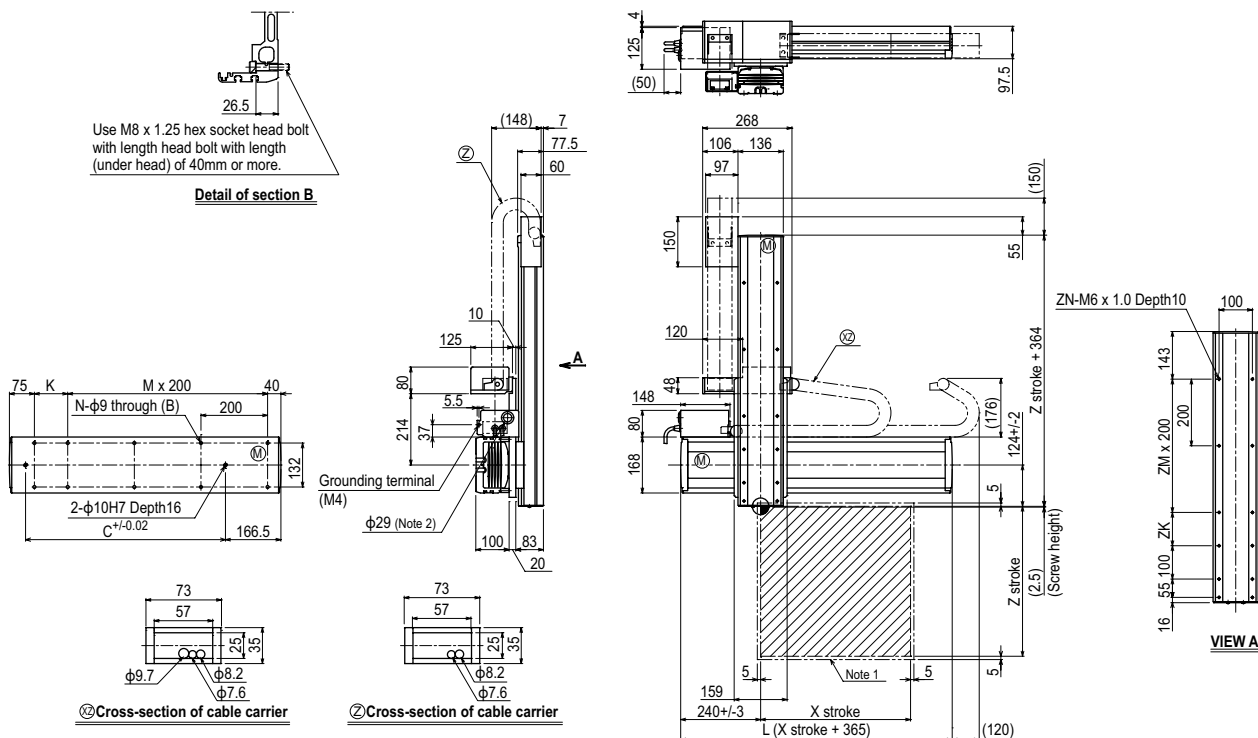
Maximum payload (kg)

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

Controller

Controller	Operation method
RCX222-R	Programming / I/O point trace / 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
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							
ZK	100	200	100	200							
ZM	1	1	2	2							
ZN	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)	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.

MEMO

Articulated robots
YA

Linear conveyor
modules
LCM100

Compact
single-axis robots
TRANSERVO

Single-axis robots
FLIP-X

Linear motor
single-axis robots
PHASER

Cartesian
robots
XY-X

SCARA
robots
YK-X

Pick & place
robots
YP-X

CLEAN

CONTROLLER

INFORMATION

Arm type

Gantry type

Moving arm
type

Pole type

XZ type