

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

Ordering method

MXYx - C - [] - [] - [] - **ZRFH** - [] - [] - **RCX340-4** - [] - [] - [] - [] - [] - [] - []

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

Specify various controller setting items. RCX340 ▶ **P.566**

Specification

	X-axis	Y-axis	Z-axis	R-axis
Axis construction ^{Note 1}	F17	F14H	F10H-BK	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 φ20	Ball screw φ15	Ball screw φ15	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	150 to 850	150 to 350	360
Robot cable length (m)	Standard: 3.5 Option: 5, 10			

Note. The standard types are ZRFH 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.

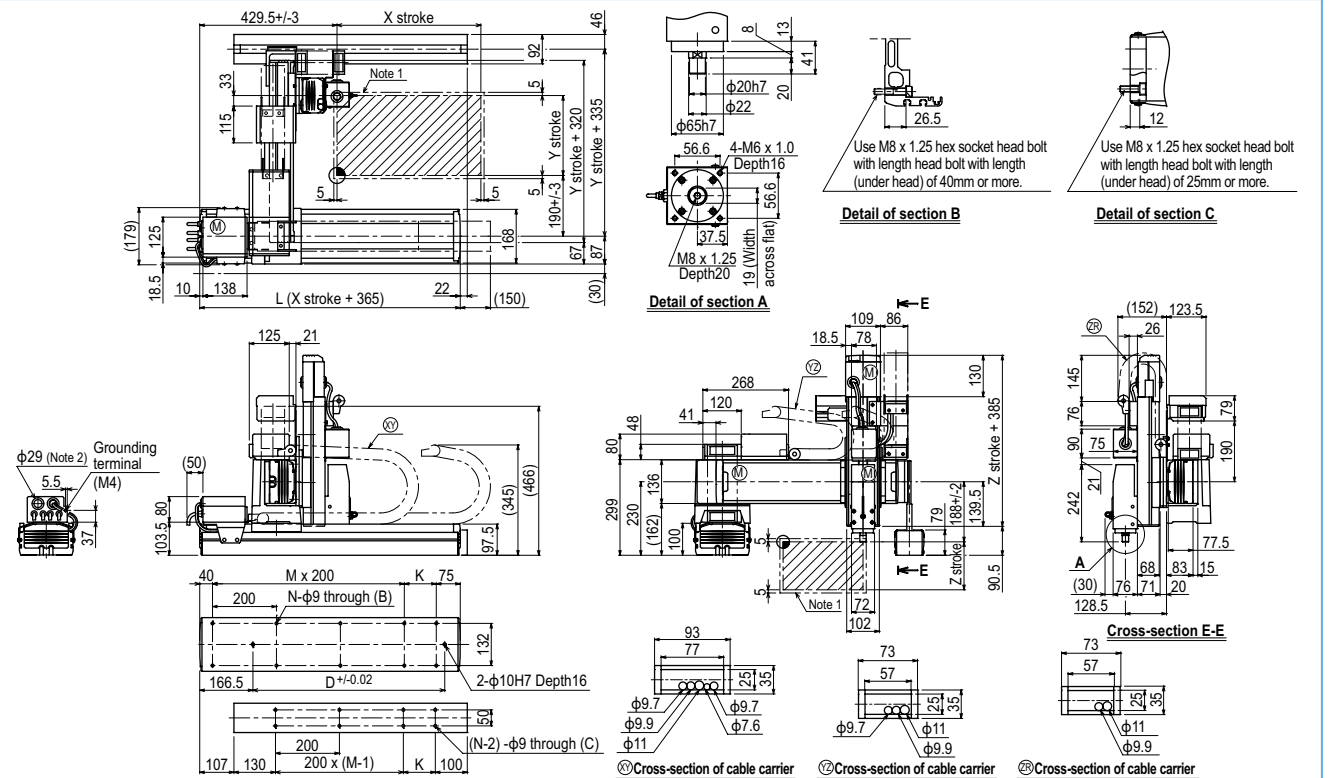
Maximum payload (kg)

Y stroke (mm)	Z stroke (mm)		
	150	250	350
150	10	9	8
250	10	9	8
350	10	9	8
450	10	9	8
550	10	9	8
650	10	9	8
750	10	9	8
850	8	7	6

Controller

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

MXYx 4 axes / ZRFH 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. Use 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.