Ordering method

MXYx - C - A1 - 125 - 65 - ZFL20 - 3L - RCX142 - E - R - P1 - CC - S

Model	Cable	Combination	X-axis stroke	Y-axis stroke	ZR-axis	Cable length	Controller	Usable for CE	Regenerative unit	Option I/O	Network	Battery
		A1 to A4	25 to 125	15 to 65	ZFL20, ZFL10	3L,5L, 10L						

Note : For the details of the controller, please refer to the catalog of Yamaha Controllers.

Specification

	X-axis	Y-axis	Y-axis : ZFL20	Y-axis : ZFL10
Motor output	400W	200W	200W	
Repeatability Note 1	+/-0.01mm	+/-0.01mm	+/-0.01mm	
Drive system	Ball screw (Class C7)	Ball screw (Class C7)	Ball screw (Class C7)	
Ball screw lead (Deceleration ratio)	20mm	20mm	20mm	10mm
Maximum speed Note 2	1200mm/sec	1200mm/sec	1200mm/sec	600mm/sec
Moving range	250 to 1250mm	150 to 650mm	150 to 350mm	
Robot cable length	Standard : 3.5m Option : 5m, 10m			
Controller	RCX142-R			

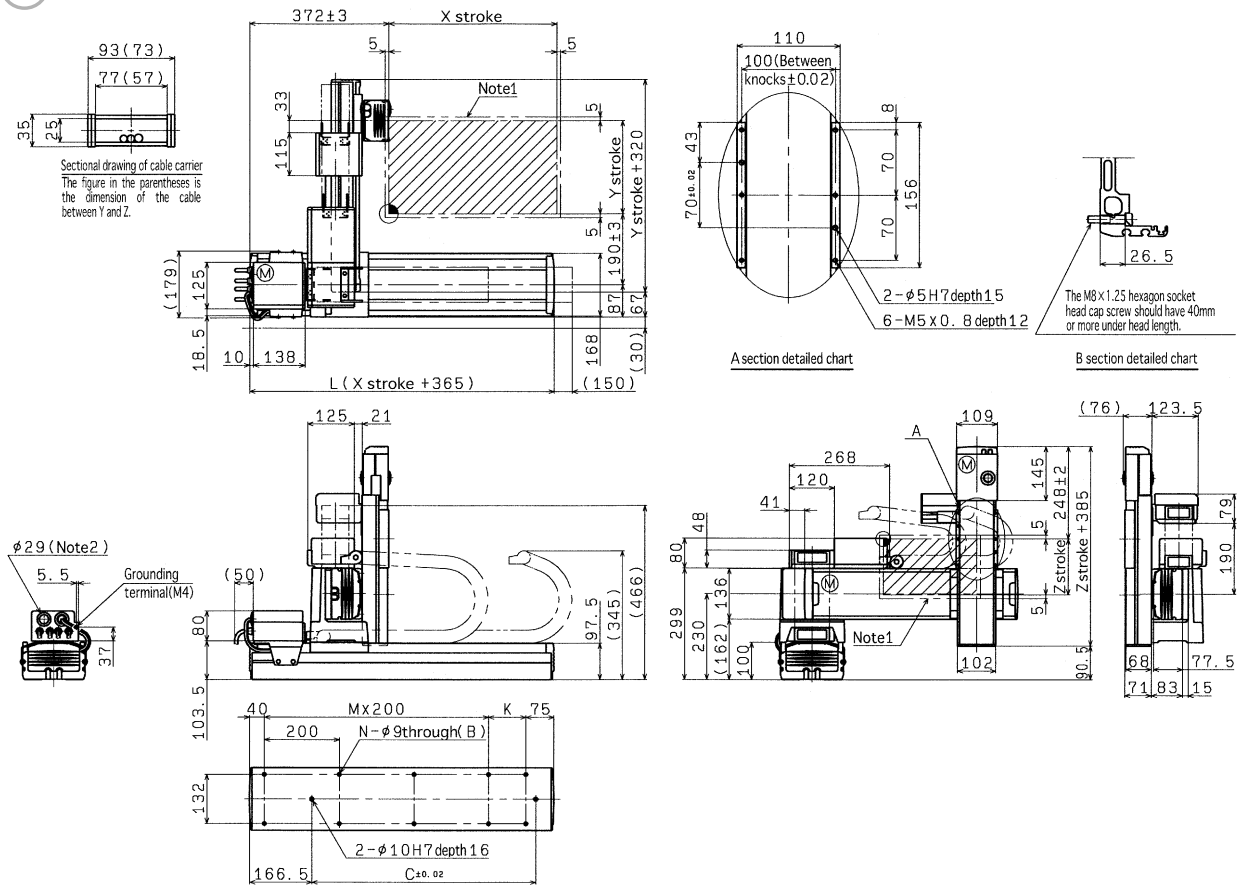
Note : The standard types are ZFL with higher rigidity as compared with ZF types which are conventional standard types. When you need the ZF type, please consult YAMAHA Motor Co., Ltd.
Note 1 : Repeatability for single oscillation.
Note 2 : When the X-axis stroke exceeds 850mm, resonance of a ball screw may occur depending on the operation range (dangerous speed). In such case, make an adjustment to reduce the speed using the corresponding parameter or program and referring to the table below for the maximum speed as a guide.

Axis	X-axis				
Stroke (mm)	850	950	1050	1150	1250
Maximum speed (mm/sec)	960	840	720	600	480
Speed setting	80%	70%	60%	50%	40%

Maximum load capacity

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

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

Note 1 : The moving range when returning to origin and the stop position when stopping by the mechanical stopper.
Note 2 : The port is used when taking out the user cable.