

Ordering method

Model	Cable	Combination	X-axis stroke	Y-axis stroke	ZR-axis	Z-axis stroke	Cable length	Controller	Usable for CE	Regenerative unit	Option I/O	Network	Battery
Model	Cable	Combination	X-axis stroke	Y-axis stroke	ZR-axis	Z-axis stroke	Cable length	Controller	Usable for CE	Regenerative unit	Option I/O	Network	Battery
		P2	25 to 125	15 to 65	ZPMHL, ZPMHR	15 to 35	3L, 5L, 10L						

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

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Specification

	X-axis	Y-axis	Z-axis
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	10mm	20mm
Maximum speed ^{Note 2}	1200mm/sec	600mm/sec	1200mm/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 ZPMH with higher rigidity as compared with ZPM types which are conventional standard types. When you need the ZPM type, please consult YAMAHA Motor Co., Ltd.

Note 1 : Repeatability for single oscillation.

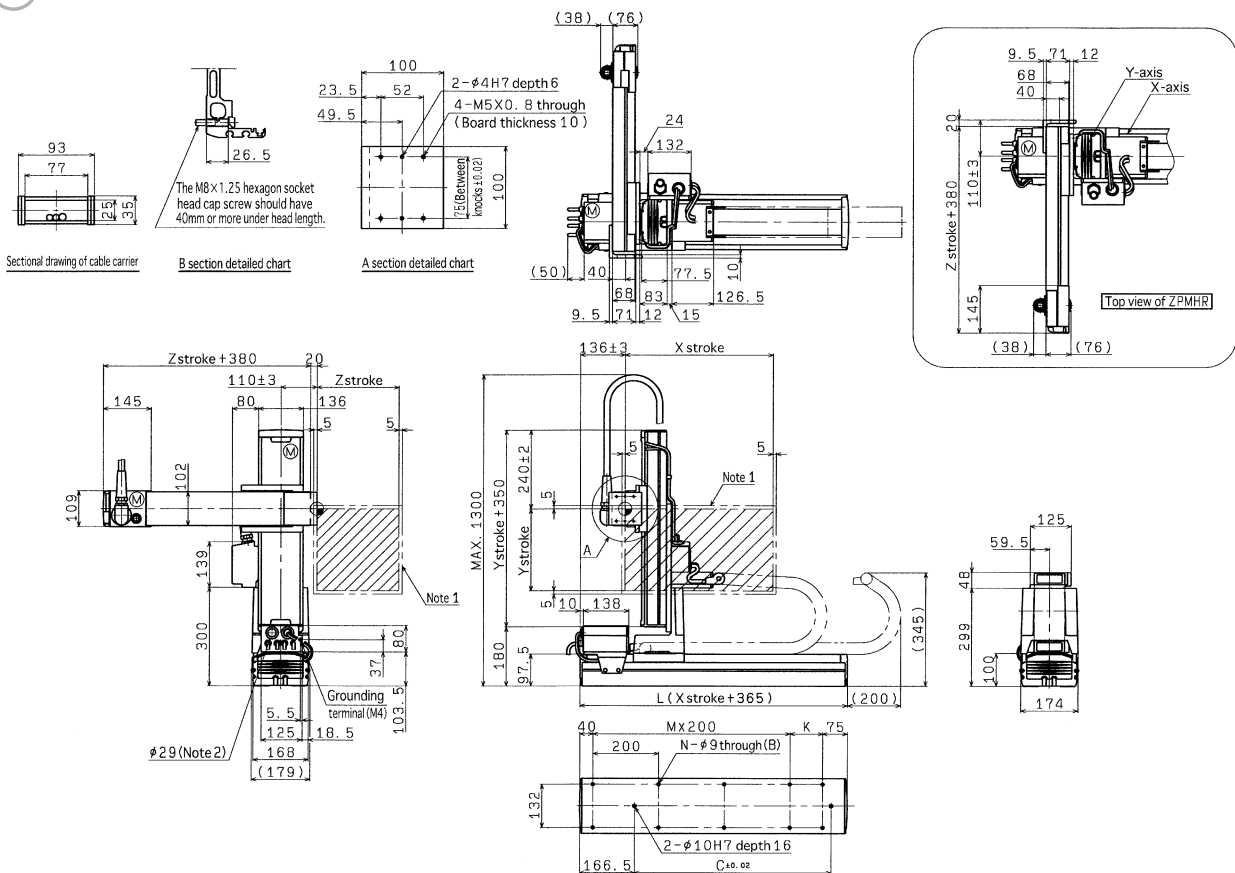
Note 2 : When the X-axis stroke exceeds 850mm, resonance of a ball screw may occur depending on the operation range (dangerous speed). In such case, make an adjustment to reduce the speed using the corresponding parameter or program and referring to the table below for the maximum speed as a guide.

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		
Y stroke	150mm	250mm	350mm
150 to 650mm	10kg	9kg	8kg

(P2) ZPMHL



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.

Note 3 : This figure shows the combination for ZPMHL. For the combination for ZPMHR, see the top view in the figure.