Ordering method

HXYx - C - G1 - 125 - 105 - ZH - 55 - 3L - RCX142 - E - R - P1 - CC - S

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
		G1 to G4	25 to 125	25 to 105		25 to 55	3L, 5L, 10L						

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

Specification

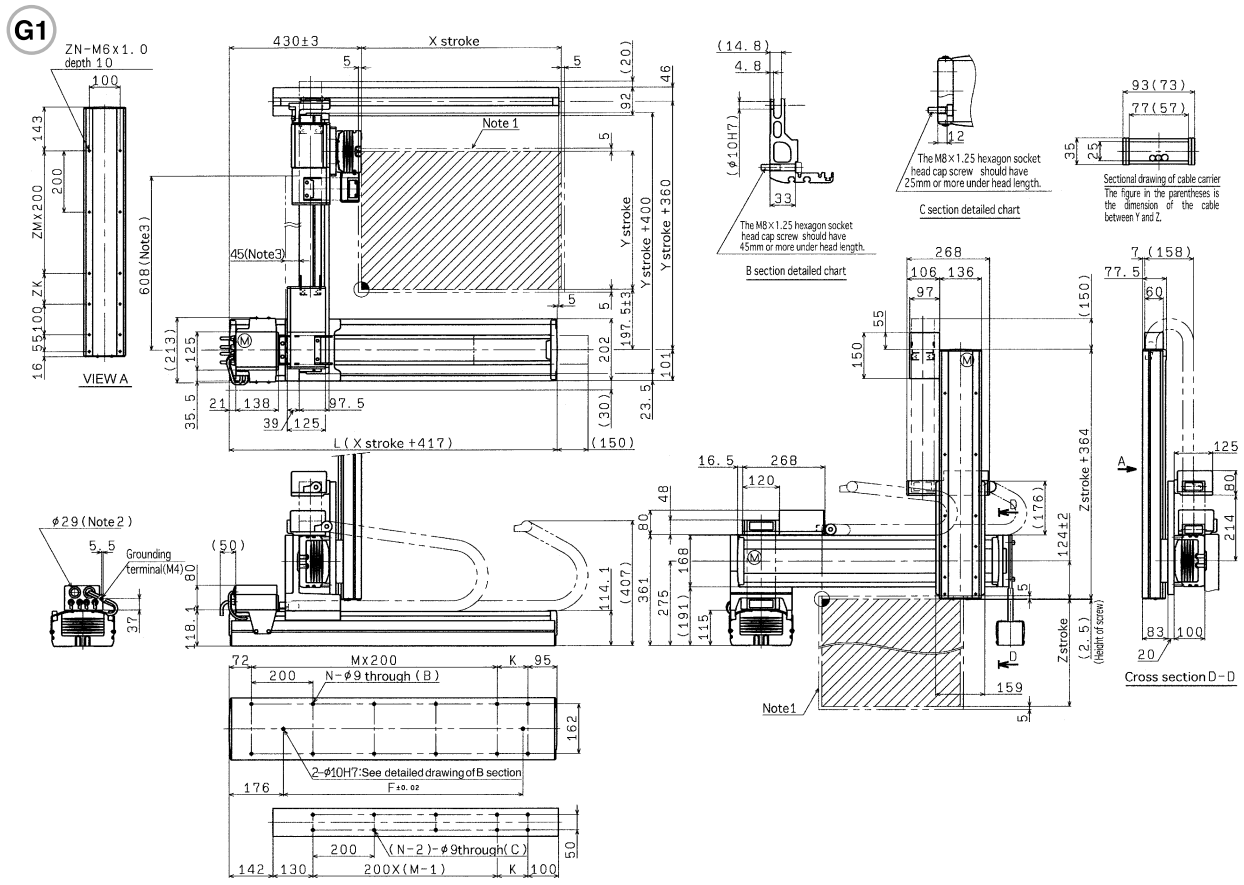
	X-axis	Y-axis	Z-axis
Motor output	600W	400W	200W
Repeatability Note 1	+/-0.01mm	+/-0.01mm	+/-0.01mm
Drive system	Ball screw (Class C7)	Ball screw (Class C7)	Ball screw (Class C7)
Ball screw lead (Deceleration ratio)	20mm	20mm	5mm
Maximum speed Note 2	1200mm/sec	1200mm/sec	300mm/sec
Moving range	250 to 1250mm	250 to 1050mm	250 to 550mm
Robot cable length	Standard : 3.5m Option : 5m, 10m		
Controller	RCX142-R		

Note 1 : Repeatability for single oscillation.
Note 2 : When the X-axis / Y-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					Y-axis		
Stroke (mm)	850	950	1050	1150	1250	850	950	1050
Maximum speed (mm/sec)	960	840	720	600	480	960	840	720
Speed setting	80%	70%	60%	50%	40%	80%	70%	60%

Maximum load capacity

	Z stroke
Y stroke	250mm to 550mm
250 to 1050mm	30kg



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
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 : The port is used when taking out the user cable.
Note 3 : Dimension of reinforced bracket (used for installation when the Y stroke is 750mm or longer)