Gantry type Cable carrier HXYx 4axes/ZRL

Ordering method

HXYx - C - G1 - 125 - 105 - ZRL - 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

- Combination: G1 to G4
- X-axis stroke: 25 to 125
- Y-axis stroke: 25 to 105
- Z-axis stroke: 25 to 55
- Cable length: 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	R-axis
Motor output	600W	400W	200W	200W
Repeatability Note 1	+/-0.01mm	+/-0.01mm	+/-0.01mm	+/-0.0083°
Drive system	Ball screw (Class C7)	Ball screw (Class C7)	Ball screw (Class C7)	Harmonic gear
Ball screw lead (Deceleration ratio)	20mm	20mm	10mm	(1/50)
Maximum speed Note 2	1200mm/sec	1200mm/sec	600mm/sec	360°/sec
Moving range	250 to 1250mm	250 to 1050mm	250 to 550mm	360°
Robot cable length	Standard : 3.5m Option : 5m, 10m			
Controller	RCX142-R			

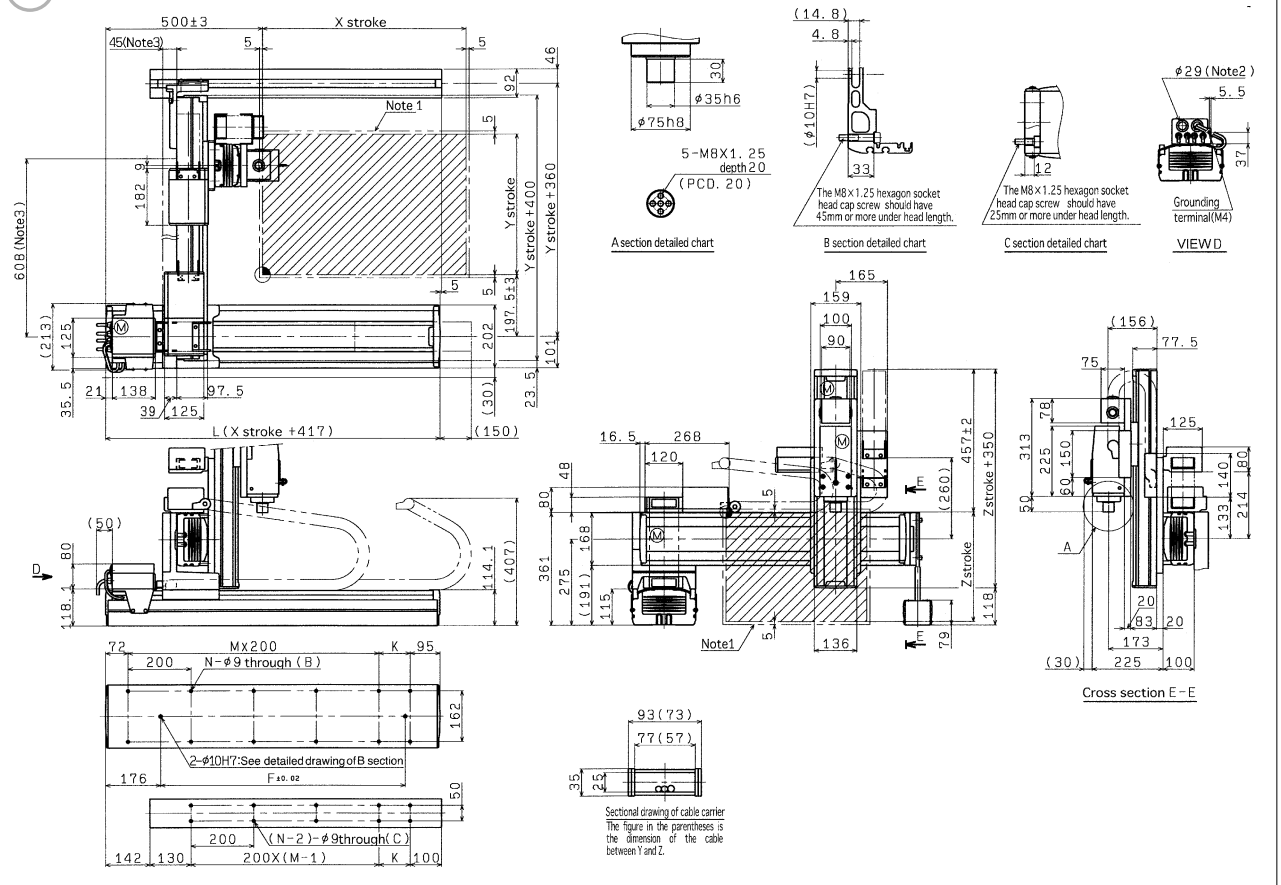
Note 1 : Repeatability for single oscillation.
Note 2 : When the X-axis / Y-axis stroke exceeds 850mm, resonance of a ball screw may occur depending on the operation range (dangerous speed). In such case, make an adjustment to reduce the speed using the corresponding parameter or program and referring 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	12kg

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

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)