Ordering method

SXYx - C - A1 - 105 - 65 - ZS12 - 15 - 3L - RCX142 - E - P1 - CC - S

Model – Cable – Combination – X-axis stroke – Y-axis stroke – ZR-axis – Z-axis stroke – Cable length – Controller – Usable for CE – Option I/O – Network – Battery

- Combination: A1 to A4
- X-axis stroke: 15 to 105
- Y-axis stroke: 15 to 65
- ZR-axis: ZS12,ZS6
- 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:ZS12	Z-axis:ZS6
Motor output	200W	100W	60W	
Repeatability Note 1	+/-0.01mm	+/-0.01mm	+/-0.02mm	
Drive system	Ball screw(Class C7)	Ball screw(Class C7)	Ball screw(Class C10)	
Ball screw lead (Deceleration ratio)	20mm	20mm	12mm	6mm
Maximum speed Note 2	1200mm/sec	1200mm/sec	1000mm/sec	500mm/sec
Moving range	150 to 1050mm	150 to 650mm	150mm	
Robot cable length	Standard : 3.5m Option : 5m, 10m			
Controller	RCX142			

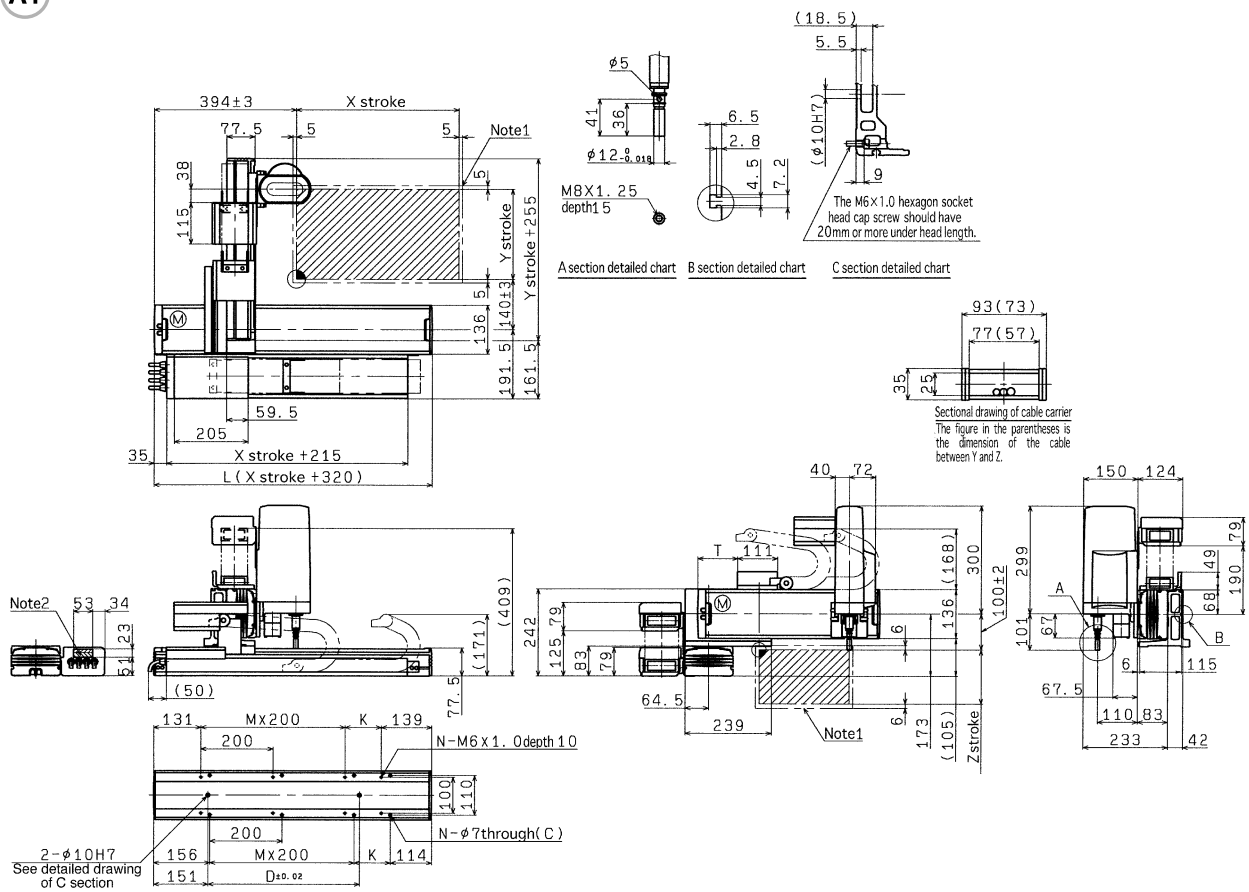
Note 1 : Repeatability for single oscillation.
Note 2 : When the X-axis stroke exceeds 750mm, resonance of a ball screw may occur depending on the operation range (dangerous speed). In such case, make an adjustment to reduce the speed using the corresponding parameter or program and referring to the table below for the maximum speed as a guide.

Axis	X-axis			
Stroke (mm)	750	850	950	1050
Maximum speed (mm/sec)	960	780	600	540
Speed setting	80%	65%	50%	45%

Maximum load capacity

Y stroke	ZS12	ZS6
150 to 650mm	3kg	5kg

A1



X stroke	150	250	350	450	550	650	750	850	950	1050
L	470	570	670	770	870	970	1070	1170	1270	1370
K	200	100	200	100	200	100	200	100	200	100
D	240	240	420	420	600	600	780	960	960	1140
M	0	1	1	2	2	3	3	4	4	5
N	4	6	6	8	8	10	10	12	12	14

Y stroke	150	250	350	450	550	650	
T	55	110	165	215	270	325	

Z stroke	150	

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