

Ordering method

HXY_x - S - P1 - 65 - 45 - ZPHL - 65 - 3L - RCX142 - E - R - P1 - CC - S

Model	Cable	Combination P1	X-axis stroke 25 to 85	Y-axis stroke 25 to 85	ZR-axis ZPHL, ZPHR	Z-axis stroke 25 to 65	Cable length 3L, 5L, 10L	Controller	Usable for CE	Regenerative unit	Option I/O	Network	Battery
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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	600W	600W	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
Maximum speed ^{Note 2}	1200mm/sec	600mm/sec	1200mm/sec
Moving range	250 to 850mm	250 to 850mm	250 to 650mm
Robot cable length	Standard : 3.5m Option : 5m, 10m		
Controller	RCX142-R		

Note 1 : Repeatability for single oscillation.

Note 2 : The total of the X and Y strokes should be 1100mm or less and that of the Y and Z strokes should be 1200mm or less.

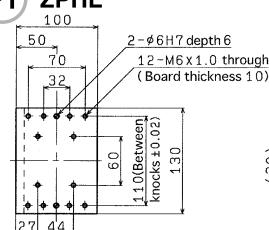
Note 3 : When the X-axis / Y-axis stroke exceeds 850mm, resonance of a ball screw may occur depending on the operation range (dangerous speed). In such case, make an adjustment to reduce the speed using the corresponding parameter or program and referring to the table below for the maximum speed as a guide.

Axis	X-axis	
Stroke (mm)	850	850
Maximum speed (mm/sec)	960	960
Speed setting	80%	80%

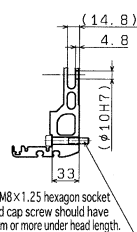
Maximum load capacity

	Z stroke
Y stroke	250mm to 650mm
250 to 850mm	15kg

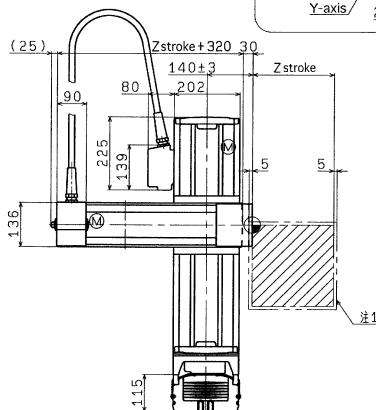
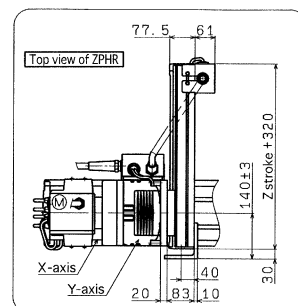
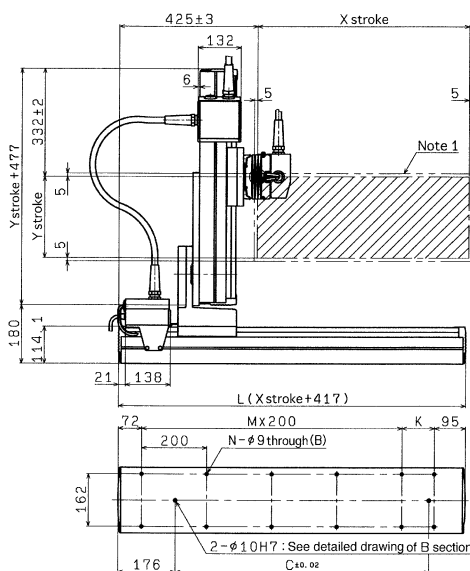
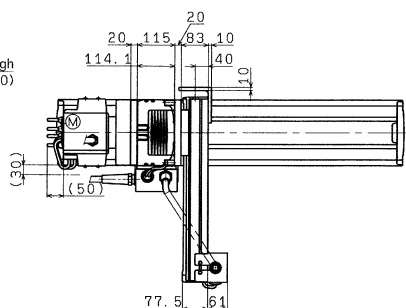
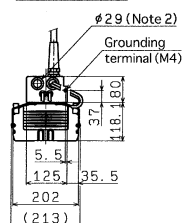
P1 ZPHL



A section detailed chart



B section detailed chart



X stroke	250	350	450	550	650	750	850
L	667	767	867	967	1067	1167	1267
K	100	200	100	200	100	200	100
C	420	420	600	600	780	780	960
M	2	2	3	3	4	4	5
N	8	8	10	10	12	12	14

Y stroke	250	350	450	550	650	750	850
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Z stroke	250	350	450	550	650	
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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 ZPHL. For the combination for ZPHR, see the top view in the figure.

Note : The total of the X and Y strokes should be 1100mm or less and that of the Y and Z strokes should be 1200mm or less.