

YK250XG

Standard type: Small type

- Arm length 250mm
- Maximum payload 5kg

Ordering method

YK250XG - 150

Model	Z axis stroke 150: 150mm	Tool flange No entry: None F: With tool flange	Hollow shaft No entry: None S: With hollow shaft	Cable 3L: 3.5m 5L: 5m 10L: 10m
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RCX340-4

Controller / Number of controllable axes	Safety standard	Option A (OP.A)	Option B (OP.B)	Option C (OP.C)	Option D (OP.D)	Option E (OP.E)	Absolute battery
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Specify various controller setting items. RCX340 ▶ **P.508**

RCX240S

Controller	CE Marking	Expansion I/O	Network option	IVY System	Gripper	Battery
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Specify various controller setting items. RCX240/RCX240S ▶ **P.495**

Specifications

	X-axis	Y-axis	Z-axis	R-axis
Axis specifications				
Arm length	100 mm	150 mm	150 mm	-
Rotation angle	+/-140 °	+/-144 °	-	+/-360 °
AC servo motor output	200 W	150 W	50 W	100 W
Deceleration mechanism	Speed reducer	Harmonic drive	Harmonic drive	Ball screw
	Transmission method	Direct-coupled		
	Motor to speed reducer	Direct-coupled		
Speed reducer to output	Direct-coupled			
Repeatability ^{Note 1}	+/-0.01 mm		+/-0.01 mm	+/-0.004 °
Maximum speed	4.5 m/sec		1.1 m/sec	1020 °/sec
Maximum payload	5 kg (Standard specification), 4 kg (Option specifications ^{Note 4})			
Standard cycle time: with 2kg payload ^{Note 2}	0.49 sec			
R-axis tolerable moment of inertia ^{Note 3}	0.05 kgm ² (0.5 kgfcm ²)			
User wiring	0.2 sq × 10 wires			
User tubing (Outer diameter)	φ 4 × 3			
Travel limit	1. Soft limit 2. Mechanical stopper (X,Y,Z axis)			
Robot cable length	Standard: 3.5 m Option: 5 m, 10 m			
Weight	18.5 kg			

Note 1. This is the value at a constant ambient temperature. (X,Y axes)
 Note 2. When reciprocating 300mm in horizontal and 25mm in vertical directions.
 Note 3. There are limits to acceleration coefficient settings. See P.537.
 Note 4. Maximum payload of option specifications (with tool flange attached or with user wiring and tubing routed through spline shaft) is 4kg.

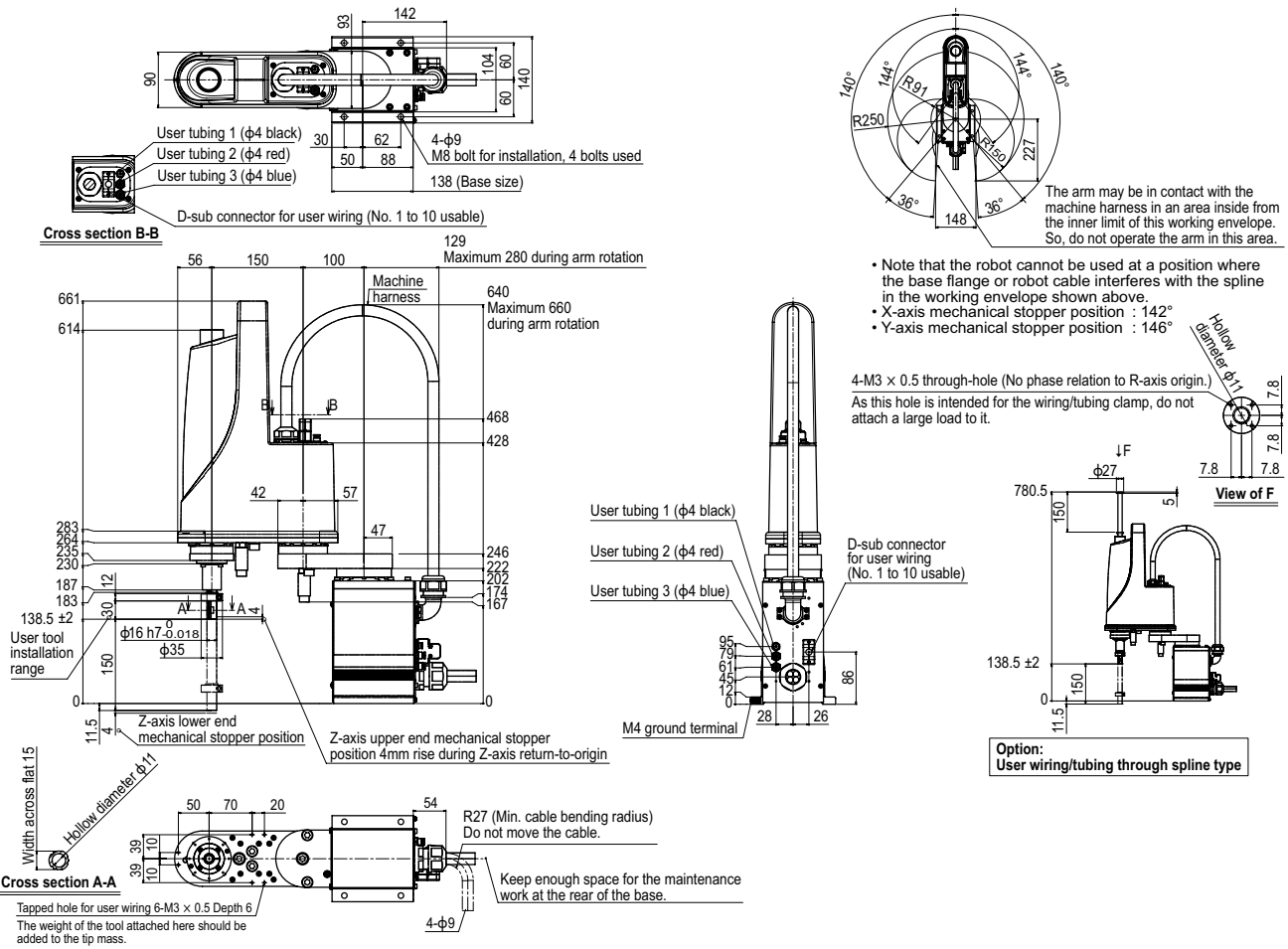
Controller

Controller	Power capacity (VA)	Operation method
RCX340 RCX240S	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

Note. "Harmonic" and "Harmonic drive" are the registered trademarks of Harmonic Drive Systems Inc.
 Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)
 See our robot manuals (installation manuals) for detailed information.
 Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

Our robot manuals (installation manuals) can be downloaded from our website at the address below:
<http://global.yamaha-motor.com/business/robot/>

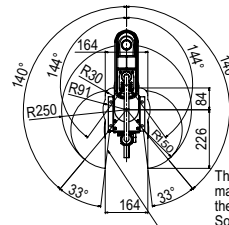
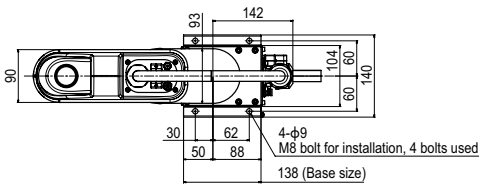
YK250XG



Width across flat 15
 Hollow diameter φ11
 Tapped hole for user wiring 6-M3 × 0.5 Depth 6
 The weight of the tool attached here should be added to the tip mass.
 R27 (Min. cable bending radius)
 Do not move the cable.
 Keep enough space for the maintenance work at the rear of the base.
 M4 ground terminal
 4-φ9
 4-M3 × 0.5 through-hole (No phase relation to R-axis origin.)
 As this hole is intended for the wiring/tubing clamp, do not attach a large load to it.
 Option:
 User wiring/tubing through spline type

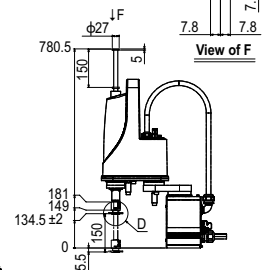
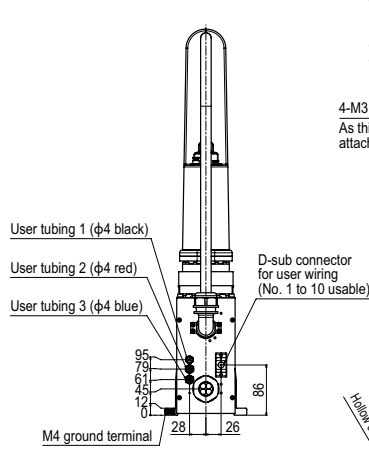
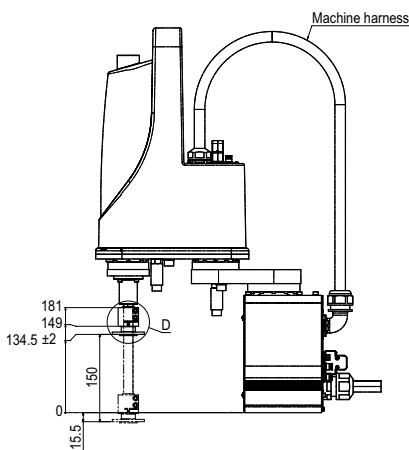
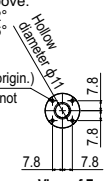
APPLICATION
 Linear conveyor modules
 LCM100
 Compact single-axis robots
 TRANSERVO
 Single-axis robots
 FLIP-X
 Linear motor single-axis robots
 PHASER
 Cartesian robots
 X-Y-X
 SCARA robots
 YK-X
 Pick & place robots
 YP-X
 CLEAN
 CONTROLLER INFORMATION
 Orbit / Triv type
 Small type
 Large type
 Inverse type
 Walk-mount / Inverse type
 Dust-proof & drip-proof type

YK250XG Tool flange mount type



- Note that the robot cannot be used at a position where the base flange or robot cable interferes with the tool flange in the working envelope shown above.
- X-axis mechanical stopper position : 142°
- Y-axis mechanical stopper position : 146°

4-M3 x 0.5 through-hole (No phase relation to R-axis origin.)
As this hole is intended for the wiring/tubing clamp, do not attach a large load to it.



Option:
User wiring/tubing through spline type

