YK250XG

Standard type: Small type

Arm length 250mm　Maximum payload 5kg

Ordering method

YK250XG - 150 - [ ] - [ ] - [ ] - RCX240S - [ ] - [ ] - [ ] - [ ] - [ ] - BB

Model	Z axis stroke	Tool flange	Hollow shaft	Cable	Controller	Usable for CE	Expansion I/O Note 1	Network option	iVY System	Battery
	150: 150mm	No entry: None F: With tool flange	No entry: None S: With hollow shaft	3L: 3.5m 5L: 5m 10L: 10m		No entry: Standard E: CE marking	N, P: Standard I/O 16/8 N1, P1: 40/24 N2, P2: 64/40 N3, P3: 88/56 N4, P4: 112/72	No entry: None CC: CC-Link DN: DeviceNet PB: Profibus EN: Ethernet YC: YC-Link Note 2	No entry: None VY: iVY (Vision) TR: iVY+Light +Tracking LC: iVY+Light	BB: 4 pcs

Note 1. Use N to N4 when NPN is selected on the I/O board, and P to P4 when PNP is selected.
Note 2. Available only for the master. See P.39 for details on YC-Link system.

Specifications

			X-axis	Y-axis	Z-axis	R-axis
Axis specifications	Arm length (mm)		100	150	150	-
	Rotation angle (°)		+/-140	+/-144	-	+/-360
AC servo motor output (W)			200	150	50	100
Deceleration mechanism	Speed reducer		Harmonic drive	Harmonic drive	Ball screw	Harmonic drive
	Transmission method	Motor to speed reducer	Direct-coupled			
		Speed reducer to output	Direct-coupled			
Repeatability Note 1 (XYZ: mm) (R: °)			+/-0.01		+/-0.01	+/-0.004
Maximum speed (XYZ: m/sec) (R: °/sec)			4.5		1.1	1020
Maximum payload (kg)			5 (Standard specification), 4 (Option specifications Note 4)			
Standard cycle time: with 2kg payload Note 2 (sec)			0.49			
R-axis tolerable moment of inertia Note 3 (kgm^2)			0.05kgm^2 (0.5$kgfcms^2$)			
User wiring (sq × wires)			0.2 × 10			
User tubing (Outer diameter)			φ4 × 3			
Travel limit			1.Soft limit　2.Mechanical stopper (X,Y,Z axis)			
Robot cable length (m)			Standard: 3.5　Option: 5,10			
Weight (kg)			18.5			

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.
Note 4. Maximum payload of option specifications (with tool flange attached or with user wiring and tubing routed through spline shaft) is 4kg.

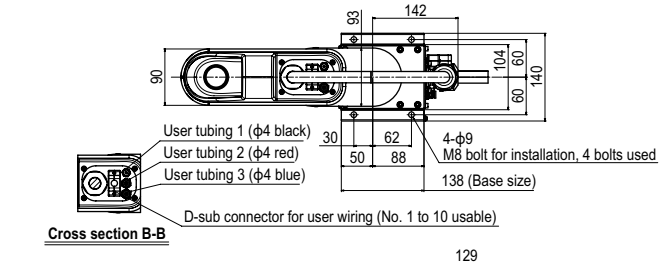
Controller

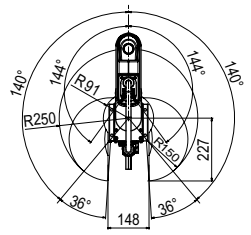
Controller	Power capacity (VA)	Operation method
RCX240S	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

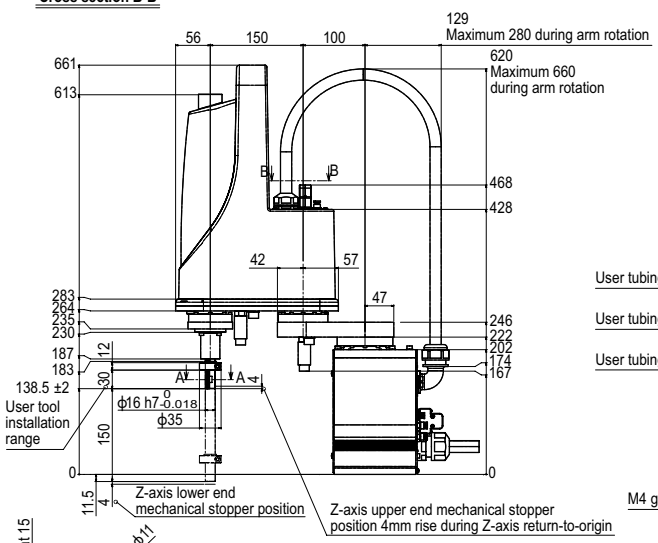
Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)
See our robot manuals (installation manuals) for detailed information.

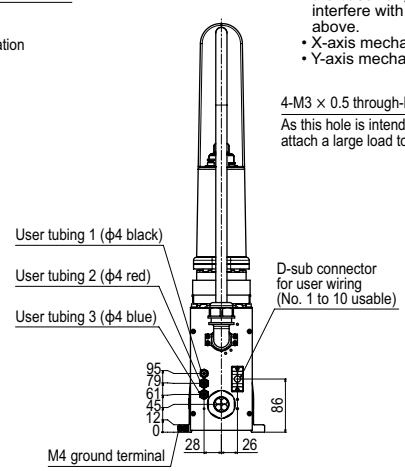
Our robot manuals (installation manuals) can be downloaded from our website at the address below:
http://www.yamaha-motor.co.jp/global/industrial/robot/

YK250XG

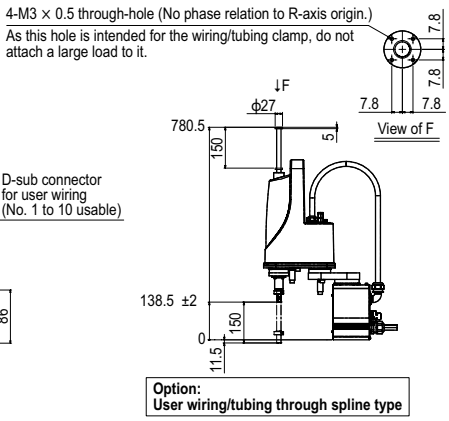


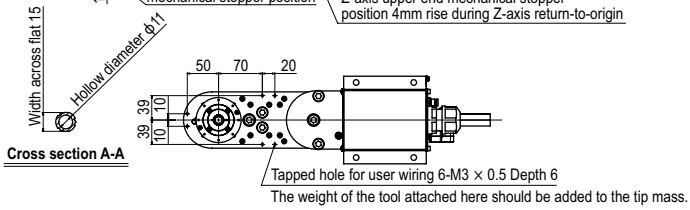






- Note that the robot cannot be used at a position where the base flange, robot cable, spline, and tool flange interfere with each other in the working envelope shown above.
- X-axis mechanical stopper position : 142°
- Y-axis mechanical stopper position : 146°





YK250XG Tool flange mount type