

Standard type: Large type

- Arm length 700mm
- Maximum payload 20kg



Ordering method

YK700XG

Model	Z axis stroke 200: 200mm 400: 400mm	Tool flange No entry: None F: With tool flange	Cable 3L: 3.5m 5L: 5m 10L: 10m	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 ▶ **P636**

Specify various controller setting items. RCX340 ▶ P.636

■ Specifications

			X-axis	Y-axis	Z-axis	R-axis
Axis specifications	Arm length		300 mm	400 mm	200 mm	400 mm
	Rotation angle		+/-130 °	+/-150 °	-	
AC servo motor output			750 W	400 W	400 W	200 W
Deceleration mechanism	Transmission method	Motor to speed reducer	Direct-coupled			
		Speed reducer to output	Direct-coupled			
Repeatability ^{Note 1}			+/-0.02 mm		+/-0.01 mm	+/-0.004 °
Maximum speed			8.4 m/sec		2.3 m/sec	1.7 m/sec
Maximum payload			20 kg (Standard type), 19 kg (Tool flange mount type)			
Standard cycle time: with 2kg payload ^{Note 2}			0.42 sec			
R-axis tolerable moment of inertia ^{Note 3}			1.0 kgm ²			
User wiring			0.2 sq × 20 wires			
User tubing (Outer diameter)			φ 6 × 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			Z axis 200 mm: 50 kg		Z axis 400 mm: 52 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. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

Note. Please consult YAMAHA when connecting other tubes and cables to the self-supporting machine harness.

Controller

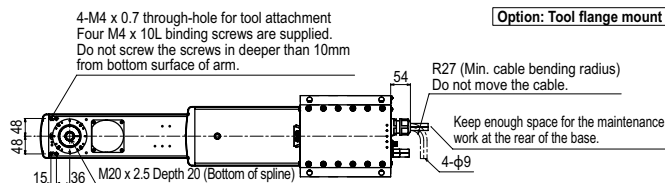
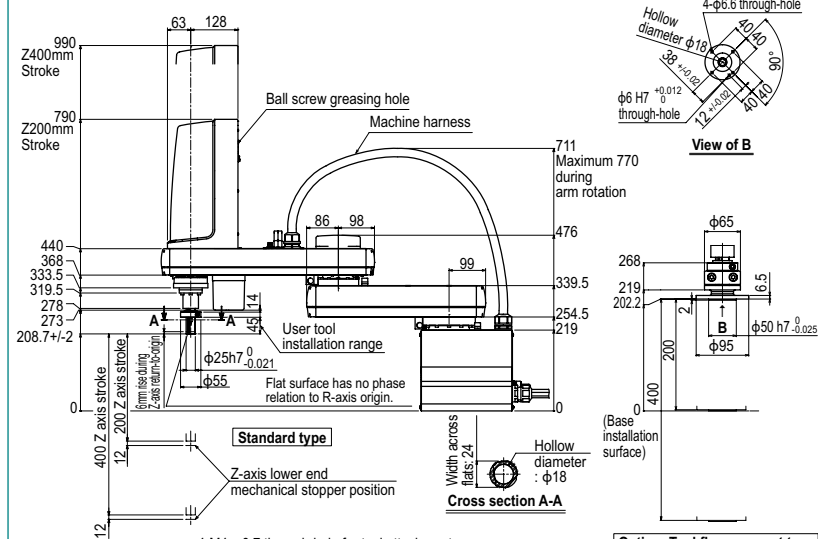
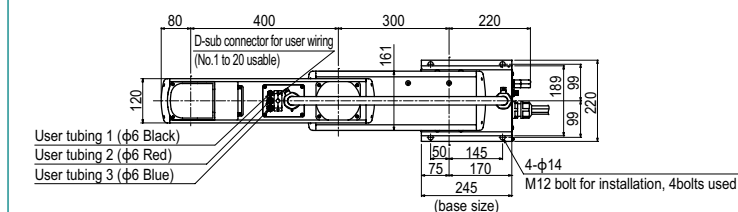
Controller	Power capacity (VA)	Operation method
RCX340	2500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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.

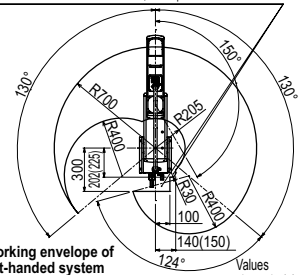
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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

YK700XG



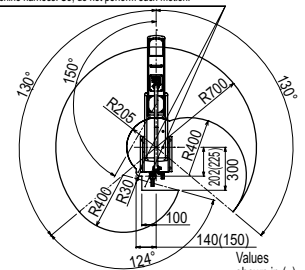
If the robot enters the inside of R30 and corner of dimensions 100 and 300, the Z-axis upper end stopper or tool flange may be in contact with the base or the arm may be in contact with the machine harness. So, do not perform such motion.



Working envelope of
left-handed system

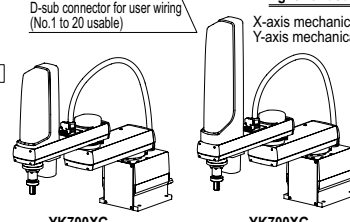
Values
shown in ()
For tool flange
specifications

If the robot enters the inside of R30 and corner of dimensions 100 and 300, the Z-axis upper end stopper or tool flange may be in contact with the base or the arm may be in contact with the machine harness. So, do not perform such motion.



Working envelope of right-handed system

position: 132°
position: 152°



Z200mm Stroke specification Z400mm Stroke specification