

# YK600XC

● Arm length 600mm ● Maximum payload 10kg



## Ordering method

**YK600XC** [ ] [ ] **RCX340-4** [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

Model Z axis stroke Cable length 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

Z axis stroke: 200: 200mm, 300: 300mm  
Cable length: 3L: 3.5m, 5L: 5m, 10L: 10m

**Specify various controller setting items. RCX340 ▶ P.542**

**RCX240** [ ] **R** [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

Controller CE Marking Regenerative unit Expansion I/O Network option iVY System Gripper Battery

**Specify various controller setting items. RCX240/RCX240S ▶ P.532**

## Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		+/-120	+/-145	-	+/-180
AC servo motor output (W)		400	200	200	100
Repeatability <sup>Note 1</sup> (XYZ: mm) (R: °)		+/-0.02		+/-0.01	+/-0.005
Maximum speed (XYZ: m/sec) (R: °/sec)		5.6		1.7	876
Maximum payload (kg)		10			
Standard cycle time: with 2kg payload (sec)		0.56			
R-axis tolerable moment of inertia <sup>Note 2</sup> (kgm <sup>2</sup> )		0.12			
User wiring (sq x wires)		0.2 x 20			
User tubing (Outer diameter)		φ6 x 3			
Travel limit		1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
Robot cable length (m)		Standard: 3.5 Option: 5, 10			
Weight (kg)		33			
Degree of cleanliness		CLASS 10 <sup>Note 3</sup>			
Intake air (Nl/min)		60 <sup>Note 4</sup>			

Note 1. This is the value at a constant ambient temperature. (X, Y axes)  
 Note 2. There are limits to acceleration coefficient settings.  
 Note 3. Per 1cf (0.1μm base), when suction blower is used.  
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

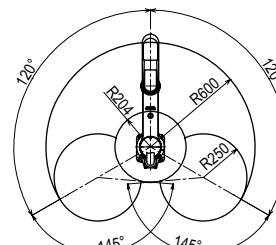
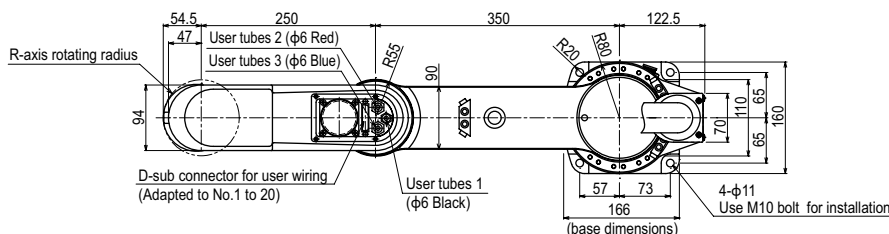
## Controller

Controller	Power capacity (VA)	Operation method
RCX340 RCX240-R	1500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

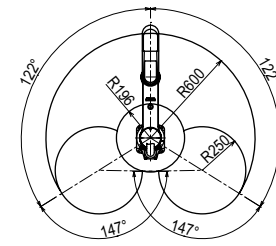
Note. "Harmonic" and "Harmonic drive" are the registered trademarks of Harmonic Drive Systems Inc.  
 Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)  
 See our robot manuals (installation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

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

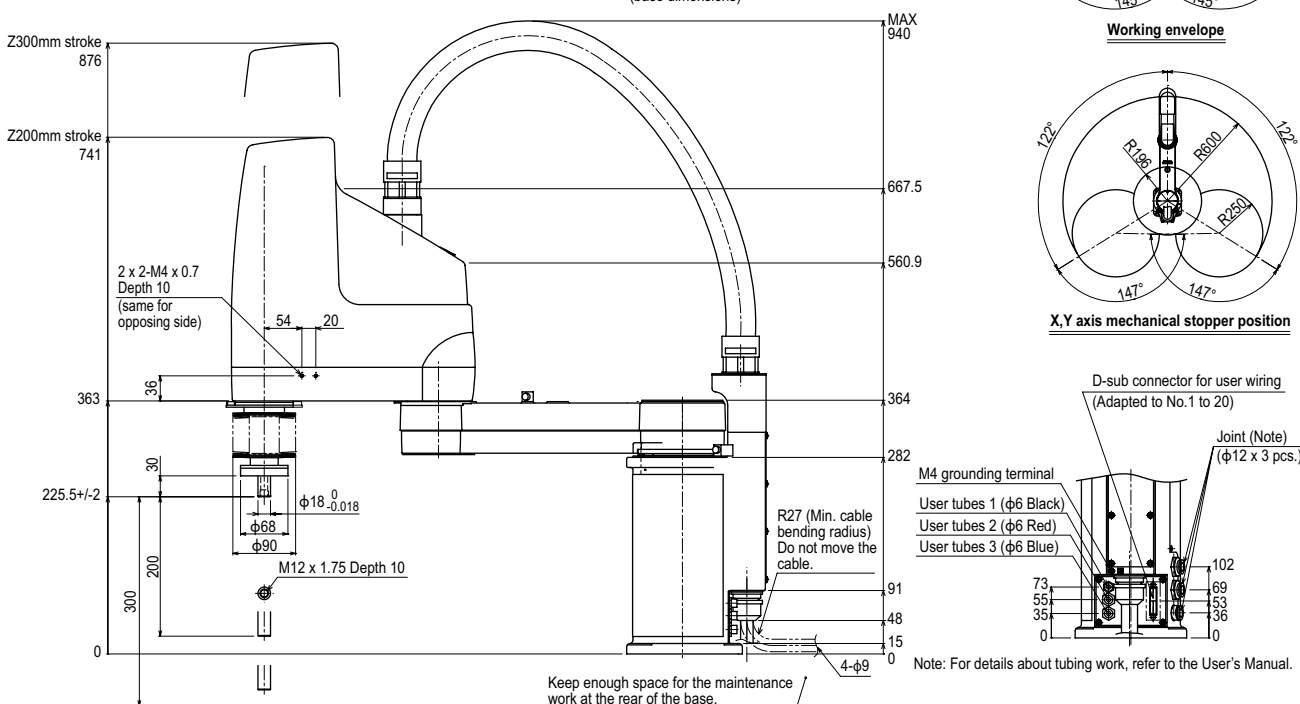
## YK600XC



Working envelope



X,Y axis mechanical stopper position



Keep enough space for the maintenance work at the rear of the base.

Note: For details about tubing work, refer to the User's Manual.

Articulated robots  
YA

Linear conveyor modules  
LCM100

Compact single-axis robots  
TRANSEVO

Single-axis robots  
FLIP-X

Linear motor single-axis robots  
PHASER

Cartesian robots  
XX-X

SCARA robots  
YK-X

Pick & place robots  
YP-X

CLEAN

CONTROLLER INFORMATION

Single-axis  
Cartesian

SCARA