

Articulated robots
YALinear conveyor
modules
LCM100Motor-less single
axis actuator
RobotityCompact
single-axis robots
TRANSEVOSingle-axis robots
FLIP-XLinear motor
single-axis robots
PHASERCartesian
robots
XY-XSCARA
robots
YK-XPick & place
robots
YP-X

CLEAN

CONTROLLER
INFORMATION

Single-axis

Cartesian

SCARA

YK400XGC

Clean type: Small type

- Arm length 400mm
- Maximum payload 4kg



Ordering method

YK400XGC - 150**S****RCX340-4**

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

Specify various controller setting items. RCX340 ▶ **P566**

Basic specifications

	X axis	Y axis	Z axis	R axis
Axis specifications				
Arm length (mm)	250	150	150	—
Rotation angle (°)	+/-129	+/-144	—	+/-360
AC servo motor output (W)	200	150	50	100
Repeatability ^{Note 1} (XYZ: mm) (R: °)	+/-0.01		+/-0.01	+/-0.004
Maximum speed (XYZ: m/sec) (R: °/sec)	6.1		1.1	1020
Maximum payload (kg)	4			
Standard cycle time: with 2kg payload (sec) ^{Note 2}	0.50			
R-axis tolerable moment of inertia ^{Note 3} (kgm ²)	0.05			
User wiring (sq x wires)	0.2x10			
User tubing (Outer diameter)	φ4x4			
Travel limit	1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
Robot cable length (m)	Standard: 3.5 Option: 5, 10			
Weight (kg)	22.5			
Degree of cleanliness	ISO CLASS 3 (ISO 14644-1) ^{Note 4} +ESD ^{Note 5}			
Intake air (Nl/min)	30 ^{Note 6}			

Note 1. This is the value at a constant ambient temperature. (X,Y axes)

Note 2. When reciprocating 25mm in vertical direction and 300mm in horizontal direction (rough-positioning arch motion).

Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

Note 4. Class 10 (0.1μm) equivalent to FED-STD-209D

Note 5. ESD (ElectroStatic Discharge) prevention is an option. Please contact our distributor.

Note 6. The necessary intake amount varies depending on the use conditions and environment.

Controller

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

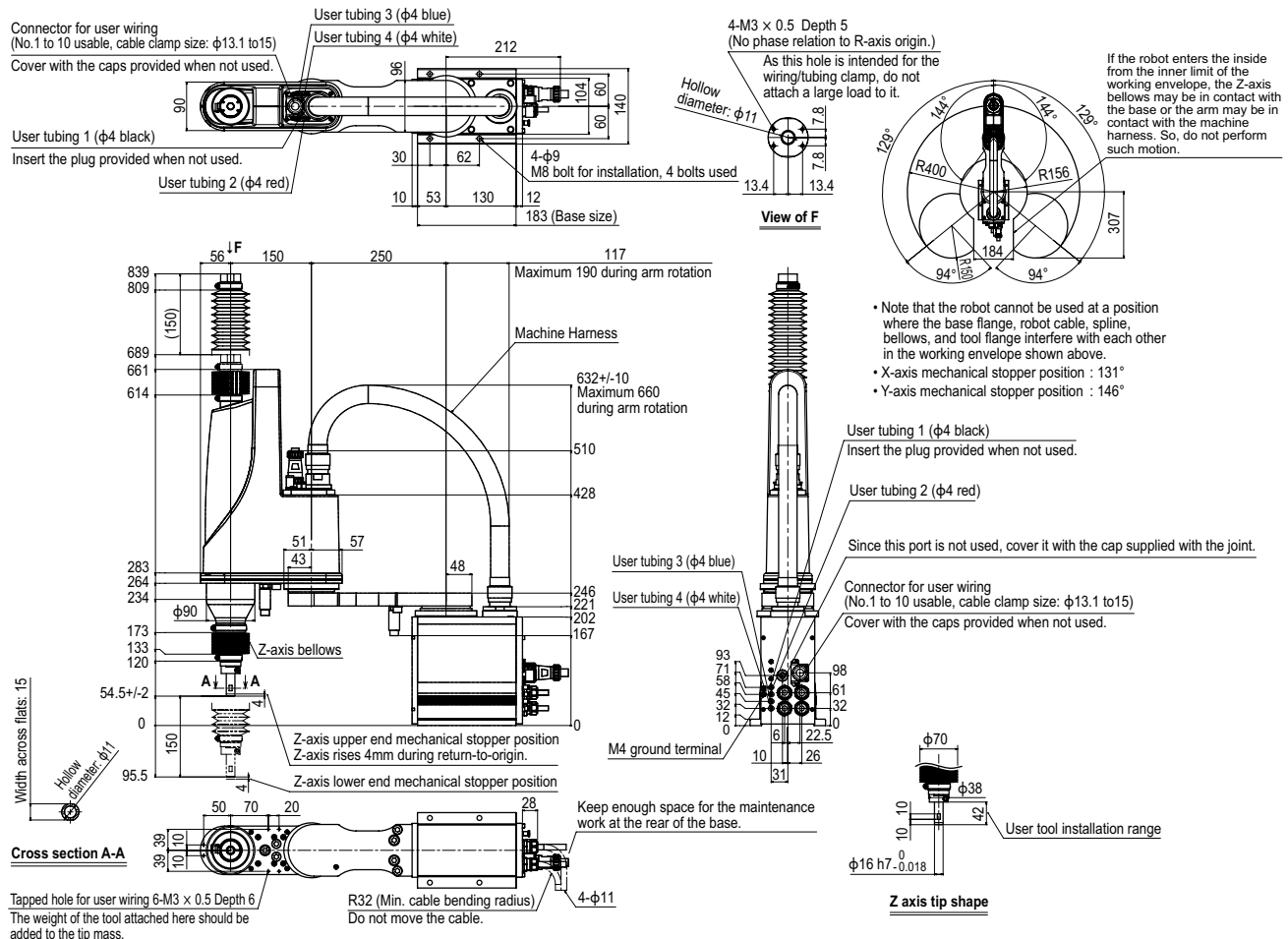
Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)

See our robot manuals (installation manuals) for detailed information.

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/>

YK400XGC



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