

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 ▶ **P.678**

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.

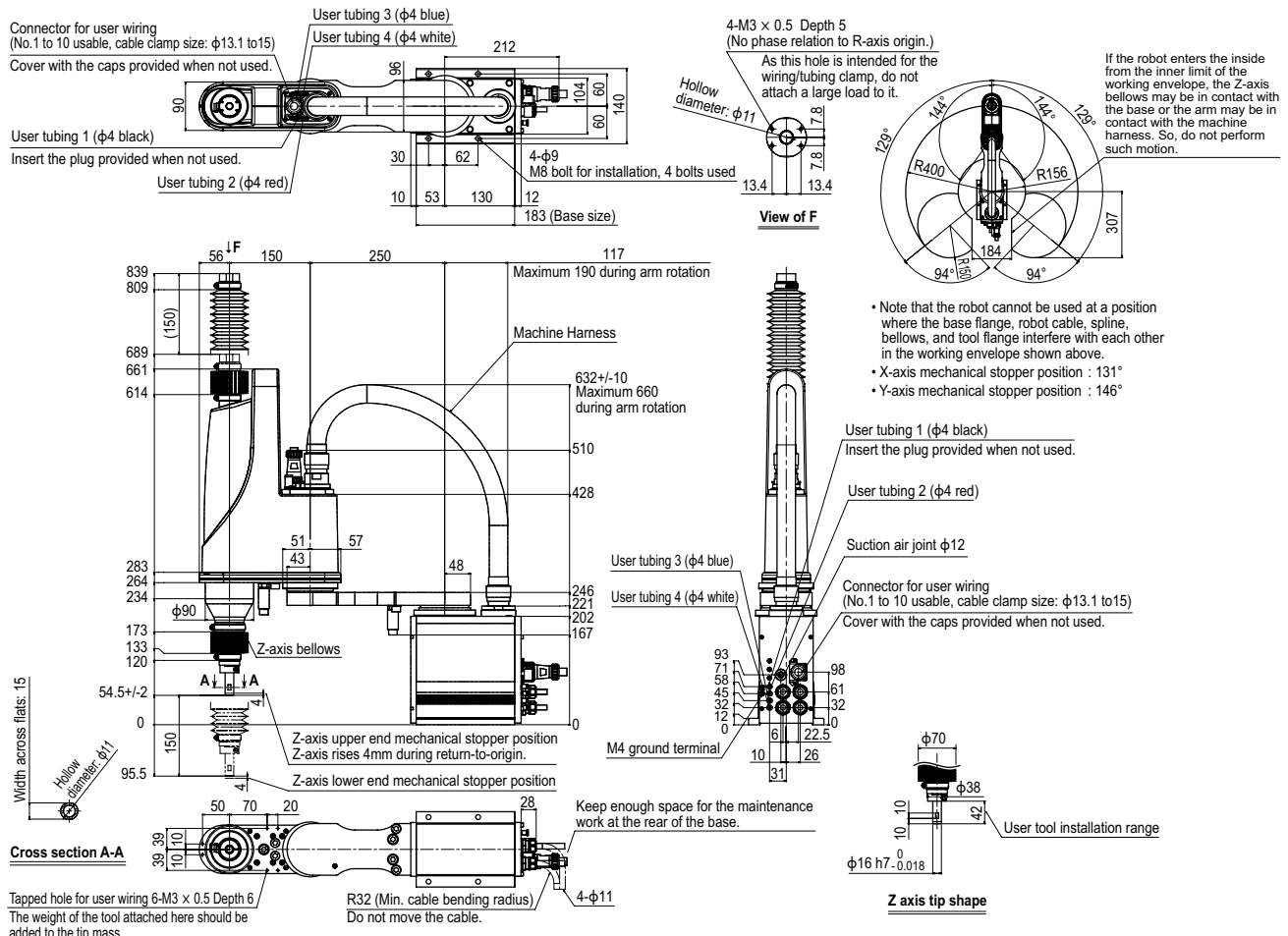
Controller

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

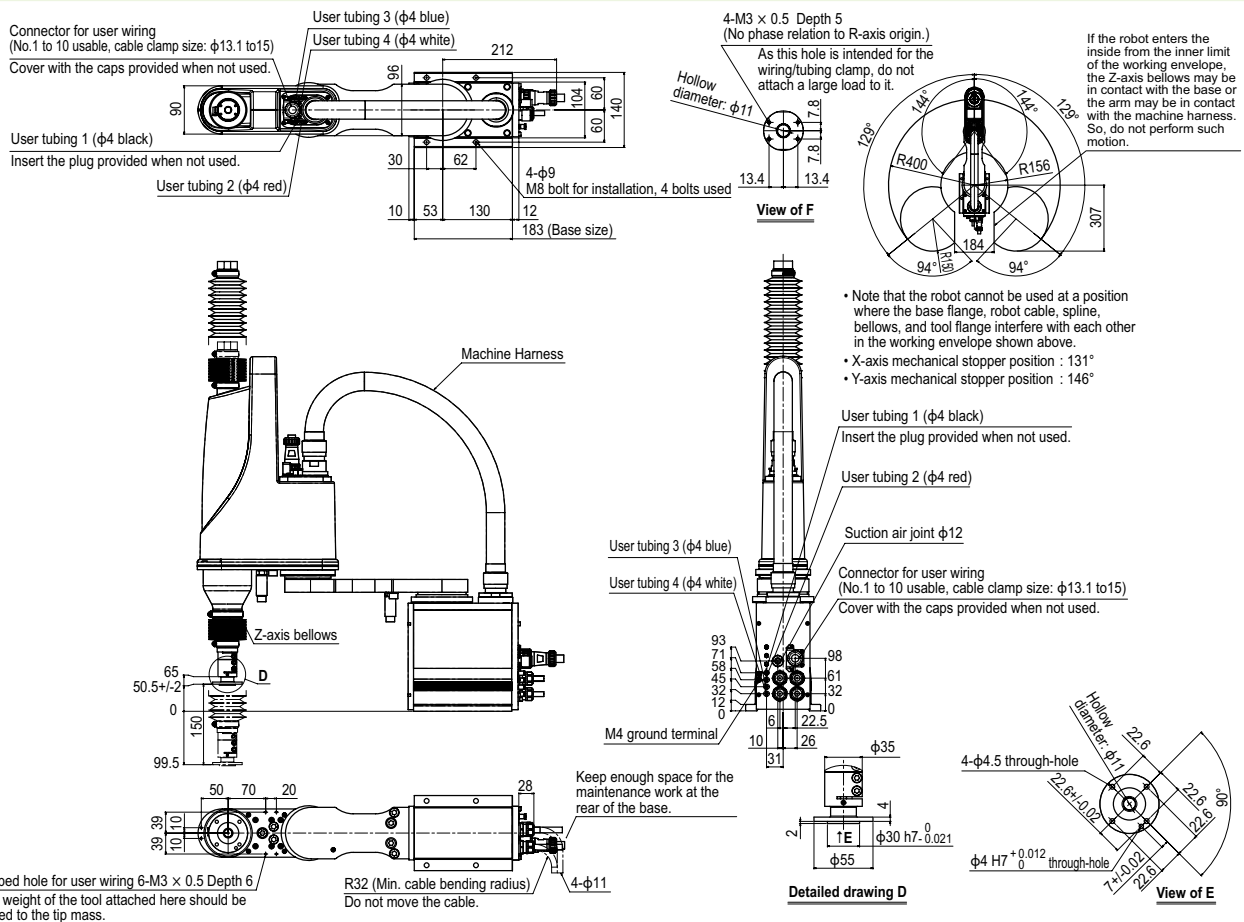
- Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)
 See our robot manuals (installation manuals) for detailed information.
 Note. To set the standard coordinates with high accuracy,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

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YK400XGC



YK400XGC Tool flange mount type



YK500XC

Clean type: Medium type



- Arm length 500mm
- Maximum payload 10kg

Ordering method

YK500XC			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
	200: 200mm 300: 300mm	3L: 3.5m 5L: 5m 10L: 10m								

Specify various controller setting items. RCX340 ▶ **P.678**

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		+/-120	+/-142	-	+/-180
AC servo motor output (W)		400	200	200	100
Repeatability ^{Note 1} (XYZ: mm) (R: °)		+/-0.02		+/-0.01	+/-0.005
Maximum speed (XYZ: m/sec) (R: °/sec)		4.9		1.7	876
Maximum payload (kg)		10			
Standard cycle time: with 2kg payload (sec)		0.53			
R-axis tolerable moment of inertia ^{Note 2} (kgm ²)		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)		31			
Degree of cleanliness		CLASS 10 ^{Note 3}			
Intake air (Nl/min)		60 ^{Note 4}			

Note 1. This is the value at a constant ambient temperature. (X,Y axes)
 Note 2. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia 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.

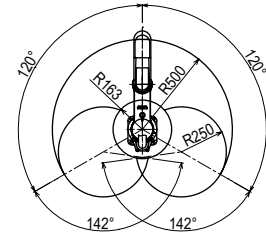
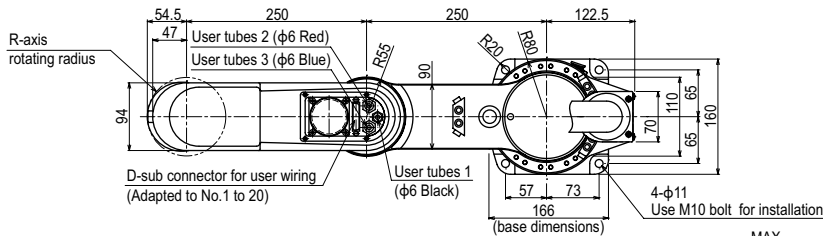
Controller

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

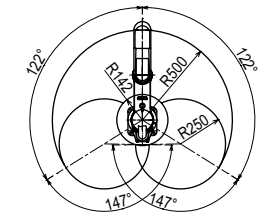
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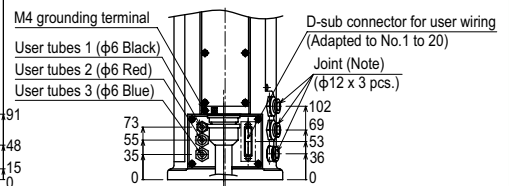
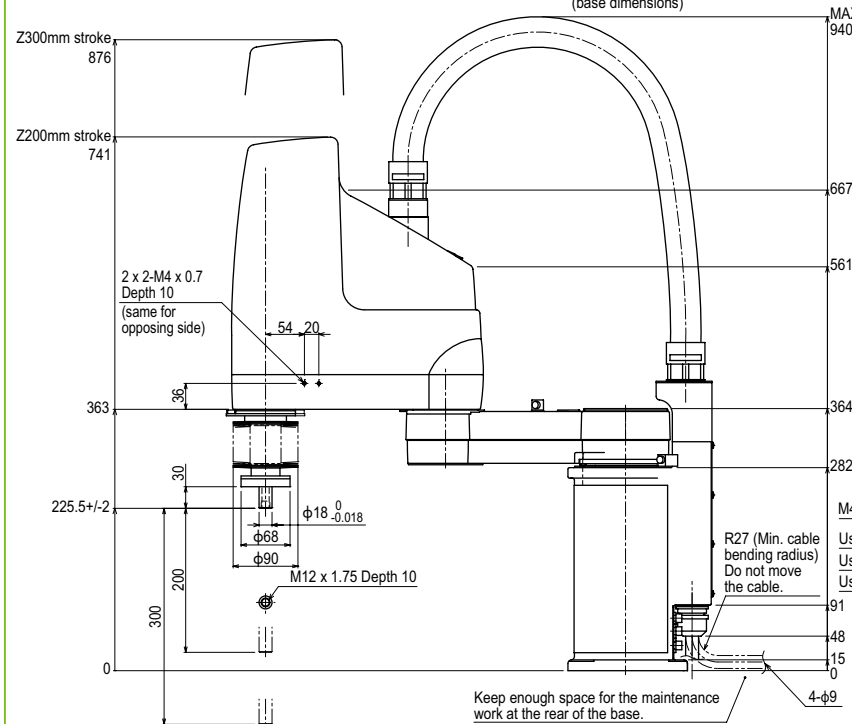
YK500XC



Working envelope



X,Y axis mechanical stopper position



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

YK600XGLC

Clean type: Medium type

- Arm length 600mm
- Maximum payload 4kg

Ordering method

YK600XGLC - 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 ▶ **P.678**

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
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)		4.9		1.1	1020
Maximum payload (kg)		4			
Standard cycle time: with 2kg payload (sec) ^{Note 2}		0.71			
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)		26			
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.)
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YK600XGLC

Connector for user wiring (No.1 to 10 usable, cable clamp size: φ13.1 to 15)
 Cover with the caps provided when not used.

User tubing 1 (φ4 black)
 Insert the plug provided when not used.

User tubing 2 (φ4 red)

User tubing 3 (φ4 blue)

User tubing 4 (φ4 white)

4-M3 x 0.5 Depth 5 (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.

Hollow diameter: φ11

View of F

The arm may be in contact with the machine harness in an area inside from the inner limit of this working envelope. So, do not operate the arm in this area.

Machine Harness

Z-axis bellows

Z-axis upper end mechanical stopper position
 Z-axis rises 4mm during return-to-origin.

Z-axis lower end mechanical stopper position

Cross section A-A

Tapped hole for user wiring 6-M3 x 0.5 Depth 6
 The weight of the tool attached here should be added to the tip mass.

R32 (Min. cable bending radius)
 Do not move the cable.

4-φ11

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

User tubing 1 (φ4 black)

User tubing 2 (φ4 red)
 Insert the plug provided when not used.

Suction air joint φ12

Connector for user wiring (No.1 to 10 usable, cable clamp size: φ13.1 to 15)
 Cover with the caps provided when not used.

M4 ground terminal

φ70

φ38

User tool installation range

φ16 h7-0.018

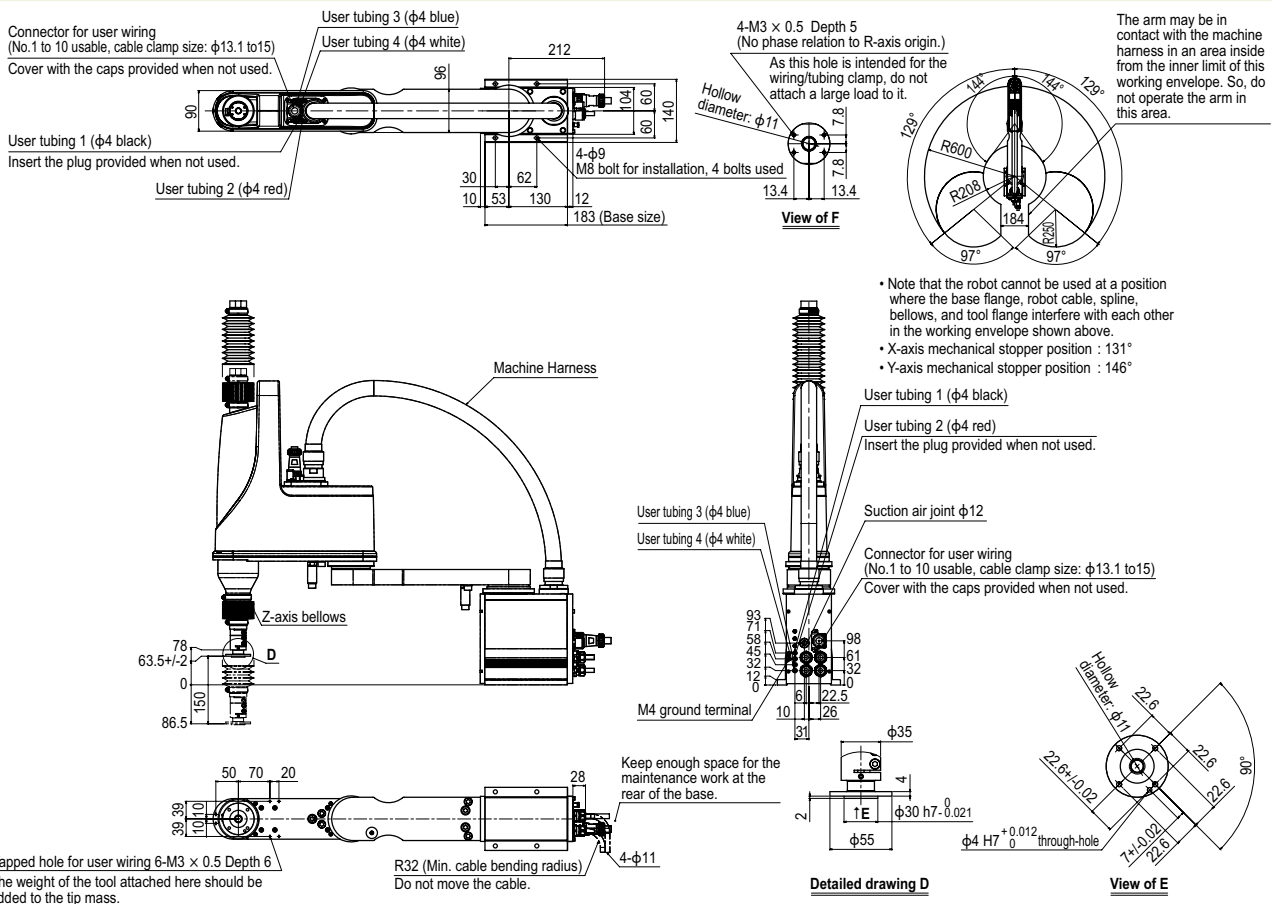
Z axis tip shape

Note that the robot cannot be used at a position where the base flange, robot cable, spline, bellows, and tool flange interfere with each other in the working envelope shown above.

- X-axis mechanical stopper position : 131°
- Y-axis mechanical stopper position : 146°

- Articulated robots YA
- Linear conveyor modules LCM
- Single-axis robots CX
- Motor-less single axis actuator Robonty
- Compact single-axis robots TRANSERO
- Single-axis robots FLIP-X
- Linear motor single-axis robots PHASER
- Cartesian robots XY-X
- SCARA robots YK-X
- Pick & place robots YP-X
- CLEAN
- CONTROLLER INFORMATION
- Single-axis Cartesian SCARA

YK600XGLC Tool flange mount type



YK600XC

Clean type: Medium type



- 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
	200: 200mm 300: 300mm	3L: 3.5m 5L: 5m 10L: 10m								

Specify various controller setting items. RCX340 ▶ **P.678**

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
		350	250	200 300	-
	Rotation angle (°)	+/-120	+/-145	-	+/-180
AC servo motor output (W)		400	200	200	100
Repeatability^{Note 1} (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^{Note 2} (kgm²)		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 ^{Note 3}			
Intake air (Nl/min)		60 ^{Note 4}			

Note 1. This is the value at a constant ambient temperature. (X,Y axes)
 Note 2. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia 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.

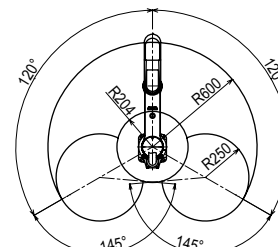
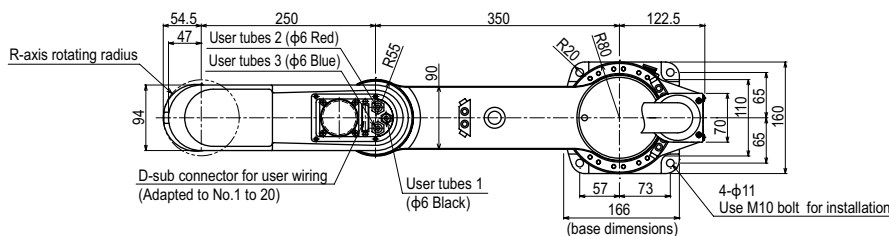
Controller

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

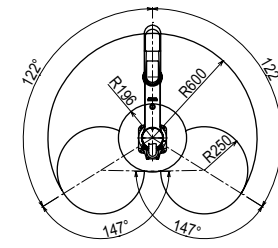
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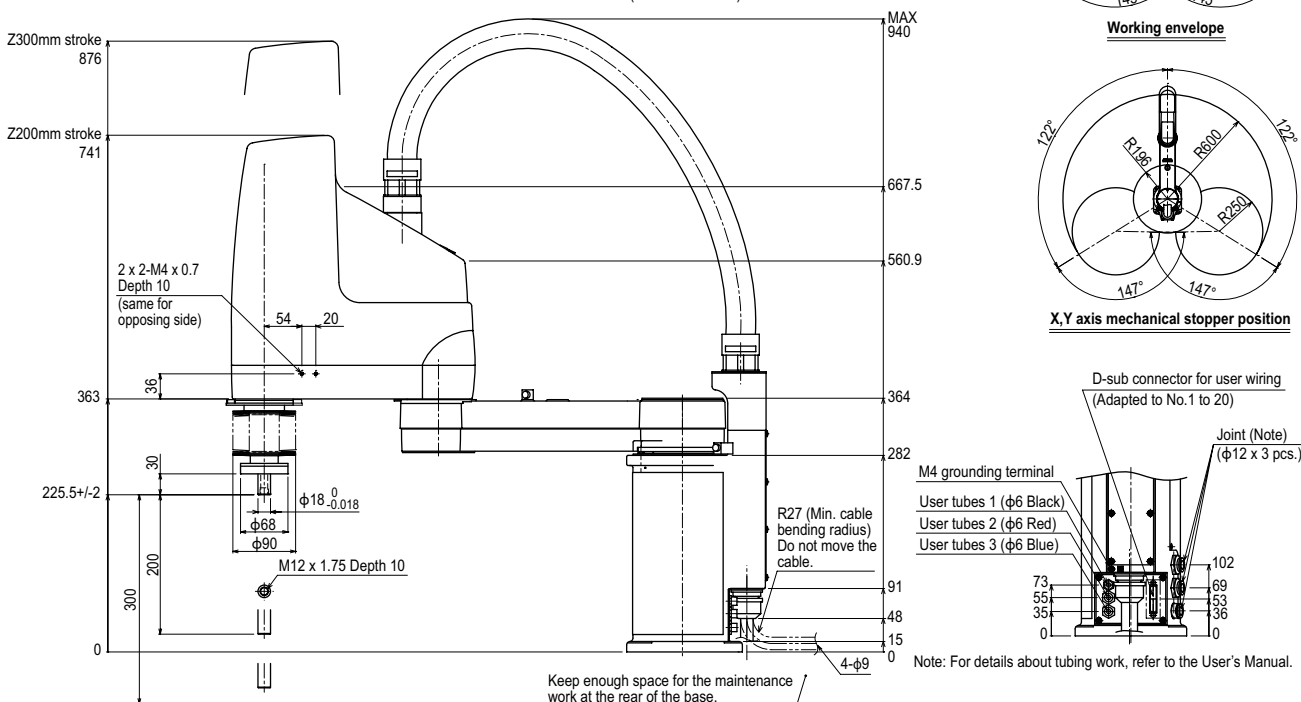
YK600XC



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.

YK700XC

Clean type: Large type



- Arm length 700mm
- Maximum payload 20kg

Ordering method

YK700XC			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	
	200: 200mm 400: 400mm	3L: 3.5m 5L: 5m 10L: 10m									

Specify various controller setting items. RCX340 ▶ **P.678**

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)	800	400	400	200
	Repeatability ^{Note 1} (XYZ: mm) (R: °)	+/-0.02		+/-0.01	+/-0.005
	Maximum speed (XYZ: m/sec) (R: °/sec)	6.7		1.7	600
	Maximum payload (kg)	20			
	Standard cycle time: with 2kg payload (sec)	0.57			
	R-axis tolerable moment of inertia ^{Note 2} (kgm ²)	0.32			
	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)	57			
	Degree of cleanliness	CLASS 10 ^{Note 3}			
	Intake air (Nl/min)	60 ^{Note 4}			

Note 1. This is the value at a constant ambient temperature. (X,Y axes)
 Note 2. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia 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.

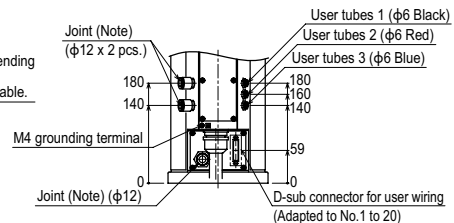
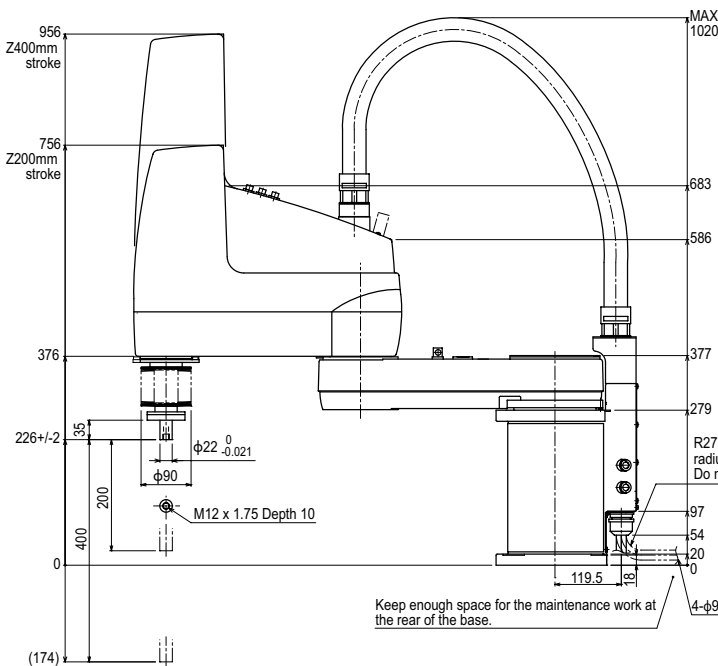
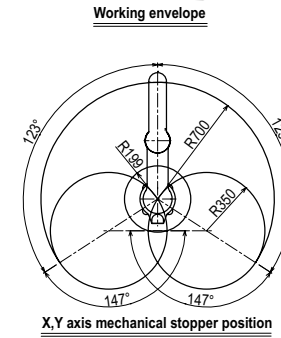
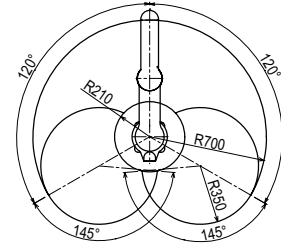
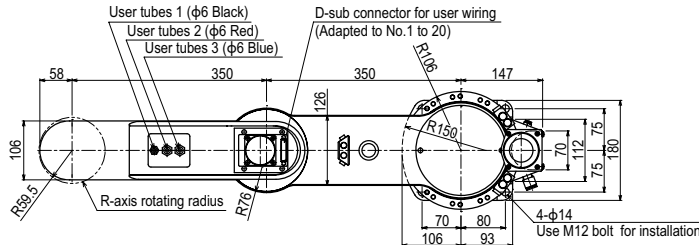
Controller

Controller	Power capacity (VA)	Operation method
RCX340	2000	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.)
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YK700XC



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

YK800XC

Clean type: Large type

- Arm length 800mm
- Maximum payload 20kg



Ordering method

YK800XC			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
	200: 200mm 400: 400mm	3L: 3.5m 5L: 5m 10L: 10m								

Specify various controller setting items. RCX340 ▶ **P.678**

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)		800	400	400	200
Repeatability ^{Note 1} (XYZ: mm) (R: °)		+/-0.02		+/-0.01	+/-0.005
Maximum speed (XYZ: m/sec) (R: °/sec)		7.3		1.7	600
Maximum payload (kg)		20			
Standard cycle time: with 2kg payload (sec)		0.57			
R-axis tolerable moment of inertia ^{Note 2} (kgm ²)		0.32			
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)		58			
Degree of cleanliness		CLASS 10 ^{Note 3}			
Intake air (Nl/min)		60 ^{Note 4}			

Note 1. This is the value at a constant ambient temperature. (X,Y axes)
 Note 2. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.
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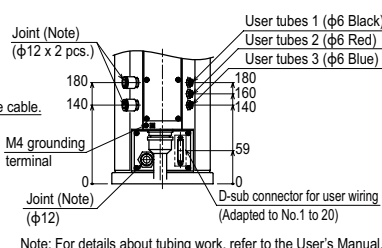
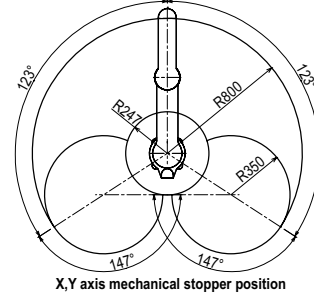
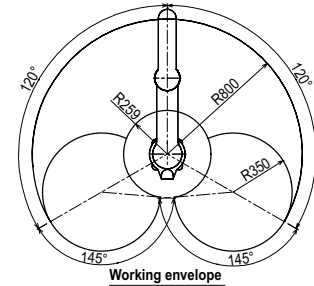
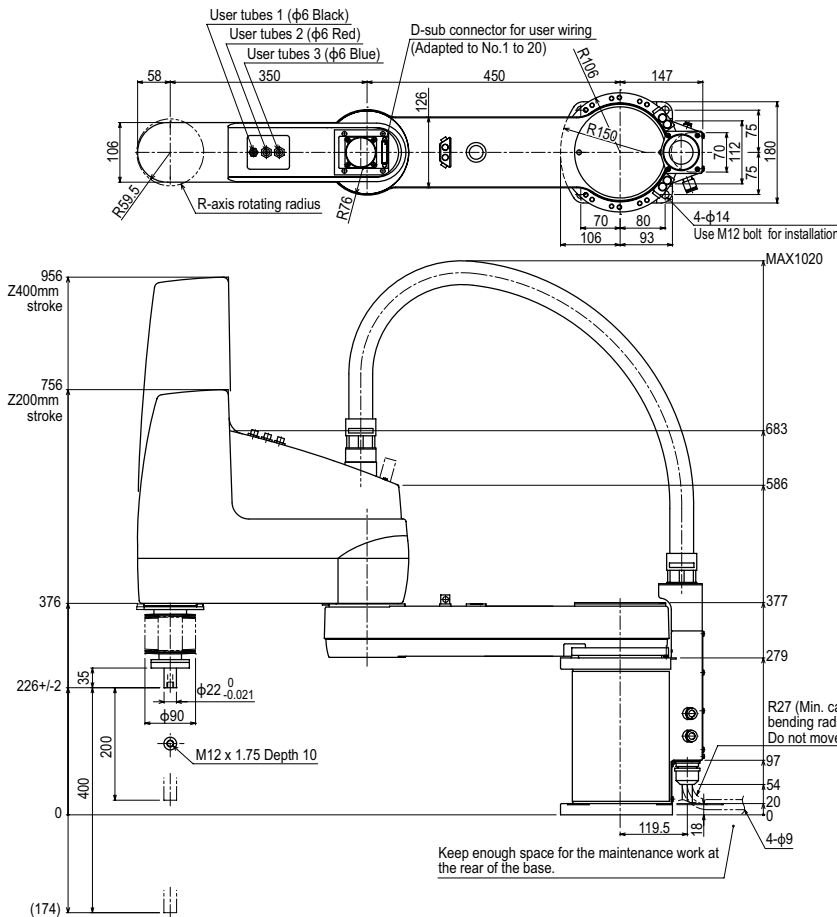
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YK800XC



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

YK1000XC

Clean type: Large type



- Arm length 1000mm
- Maximum payload 20kg

Ordering method

YK1000XC			RCX340-4								
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	200: 200mm 400: 400mm	3L: 3.5m 5L: 5m 10L: 10m									

Specify various controller setting items. RCX340 ▶ **P.678**

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)	800	400	400		200
	Repeatability ^{Note 1} (XYZ: mm) (R: °)	+/-0.02		+/-0.01		+/-0.005
	Maximum speed (XYZ: m/sec) (R: °/sec)	8.0		1.7		600
	Maximum payload (kg)	20				
	Standard cycle time: with 2kg payload (sec)	0.60				
	R-axis tolerable moment of inertia ^{Note 2} (kgm ²)	0.32				
	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)	59				
	Degree of cleanliness	CLASS 10 ^{Note 3}				
	Intake air (Nl/min)	60 ^{Note 4}				

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 Note 2. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.
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YK1000XC

