

YK180XC

Clean type: Extra small type

Note. Built-to-order product. Contact us for the delivery period.

- Arm length 180mm
- Maximum payload 1kg

Ordering method

YK180XC - 100

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
	100: 100mm	3L: 3.5m 5L: 5m 10L: 10m								

Specify various controller setting items. RCX340 ▶ **P.636**

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		+/-120	+/-140	-	+/-360
AC servo motor output (W)		50	30	30	30
Repeatability ^{Note 1} (XYZ: mm) (R: °)		+/-0.01		+/-0.01	+/-0.004
Maximum speed (XYZ: m/sec) (R: °/sec)		3.3		0.7	1700
Maximum payload (kg)		1.0			
Standard cycle time: with 0.1kg payload ^{Note 2} (sec)		0.42			
R-axis tolerable moment of inertia ^{Note 3} (kgm ²)		0.01			
User wiring (sq x wires)		0.1 x 8			
User tubing (Outer diameter)		φ3 x 2			
Travel limit		1.Soft limit, 2.Mechanical limit (X, Y, Zaxis)			
Robot cable length (m)		Standard: 3.5 Option: 5, 10			
Weight (kg) (Excluding robot cable) ^{Note 4}		6.5			
Robot cable weight		1.5kg (3.5m) 2.1kg (5m) 4.2kg (10m)			
Degree of cleanliness		CLASS 10 (0.1 μm base)			
Intake air (Nℓ/min)		30			

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

Note 2. When moving 25mm in vertical direction and 100mm in horizontal direction reciprocally.

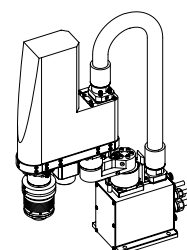
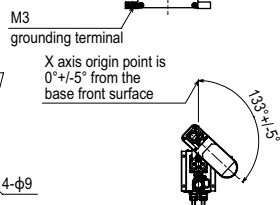
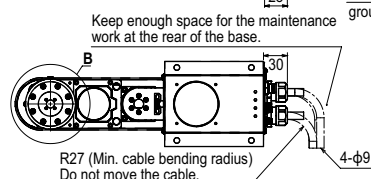
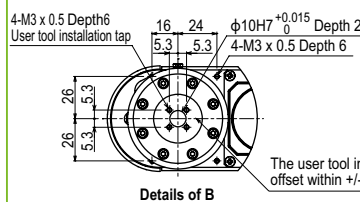
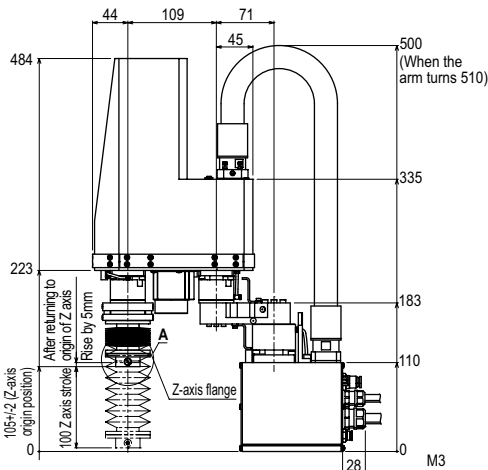
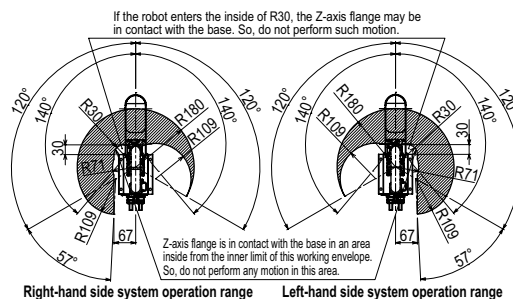
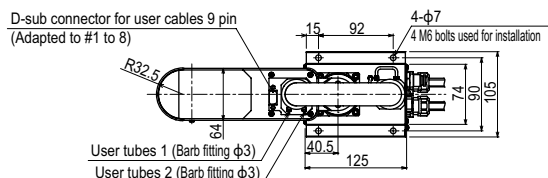
Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

Note 4. The total robot weight is the sum of the robot body weight and the cable weight.

Controller

Controller	Power capacity (VA)	Operation method
RCX340	500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

YK180XC



YK220XC

Clean type: Extra small type

Note. Built-to-order product. Contact us for the delivery period.

- Arm length 220mm
- Maximum payload 1kg

Ordering method

YK220XC - 100

Model	Z axis stroke	Cable length
	100: 100mm	3L: 3.5m
		5L: 5m
		10L: 10m

RCX340-4

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
Specify various controller setting items. RCX340 ▶ P.636							

Basic specifications

	X axis	Y axis	Z axis	R axis
Axis specifications				
Arm length (mm)	111	109	100	—
Rotation angle (°)	+/-120	+/-140	—	+/-360
AC servo motor output (W)	50	30	30	30
Repeatability ^{Note 1} (XYZ: mm) (R: °)	+/-0.01		+/-0.01	+/-0.004
Maximum speed (XYZ: m/sec) (R: °/sec)	3.4		0.7	1700
Maximum payload (kg)	1.0			
Standard cycle time: with 0.1kg payload ^{Note 2} (sec)	0.45			
R-axis tolerable moment of inertia ^{Note 3} (kgm ²)	0.01			
User wiring (sq x wires)	0.1 x 8			
User tubing (Outer diameter)	φ3 x 2			
Travel limit	1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
Robot cable length (m)	Standard: 3.5 Option: 5, 10			
Weight (kg) (Excluding robot cable) ^{Note 4}	6.5			
Robot cable weight	1.5kg (3.5m) 2.1kg (5m) 4.2kg (10m)			
Degree of cleanliness	CLASS 10 (0.1μm base)			
Intake air (Nℓ/min)	30			

Note 1. This is the value at a constant ambient temperature.

Note 2. When reciprocating 100mm in horizontal and 25mm in vertical directions.

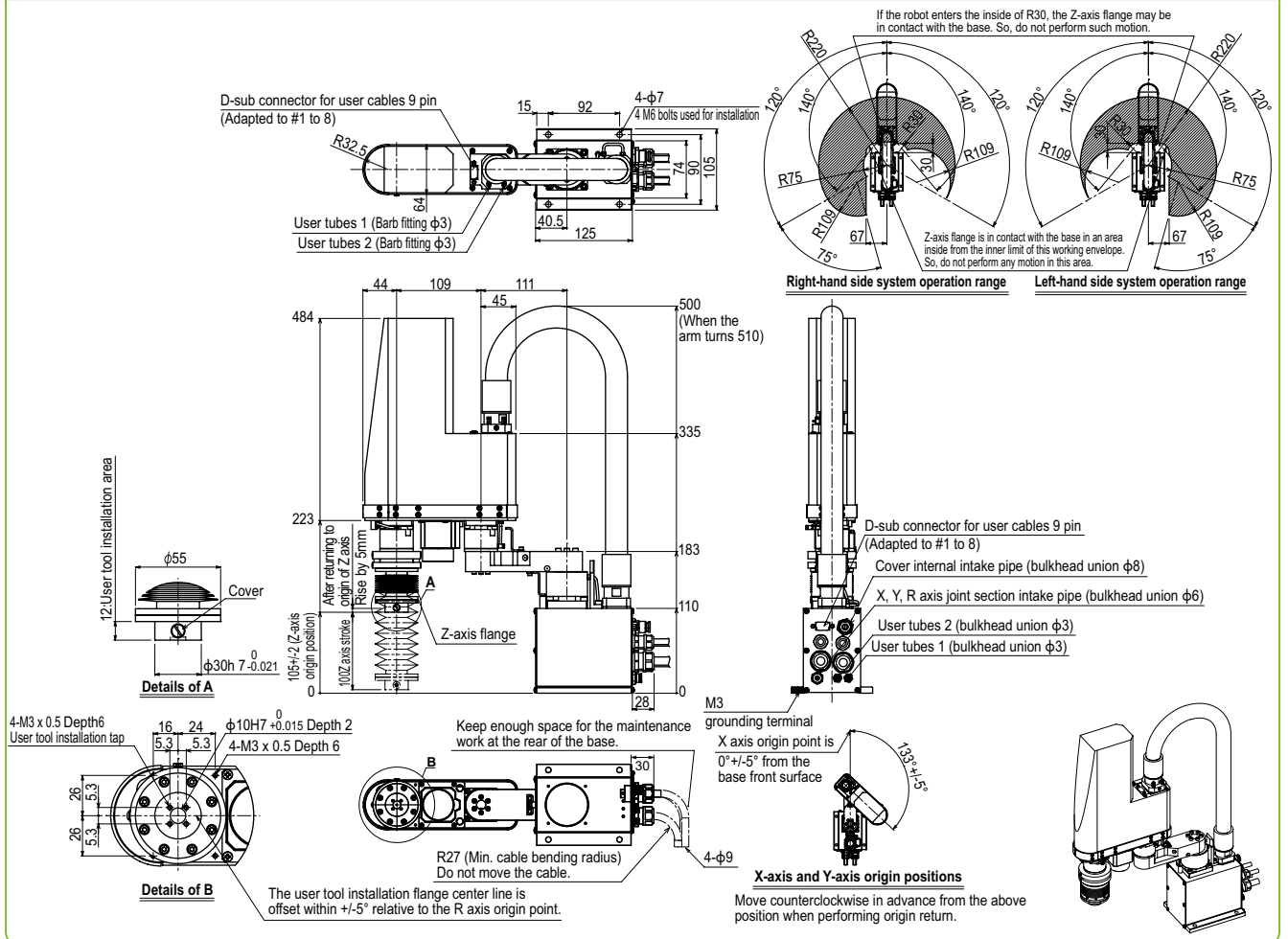
Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

Note 4. The total robot weight is the sum of the robot body weight and the cable weight.

Controller

Controller	Power capacity (VA)	Operation method
RCX340	500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

YK220XC



YK250XGC

Clean type: Small type

- Arm length 250mm
- Maximum payload 4kg



Ordering method

YK250XGC - 150		S		RCX340-4								
Model	Z axis stroke 150: 150mm	Tool flange No entry: None F: With tool flange	Hollow shaft S: With hollow shaft	Cable length 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

Specify various controller setting items. RCX340 ▶ **P.636**

Basic specifications

	X axis	Y axis	Z axis	R axis
Axis specifications				
Arm length (mm)	100	150	150	—
Rotation angle (°)	+/-129	+/-134	—	+/-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)	4.5		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 × wires)	0.2×10			
User tubing (Outer diameter)	φ4×4			
Travel limit	1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
Robot cable length (m)	Standard: 3.5 Option: 5, 10			
Weight (kg)	21.5			
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. ESD (ElectroStatic discharge) specifications are custom-ordered. Please contact our distributor.

Note 5. The necessary intake amount varies depending on the use conditions and environment.

Controller

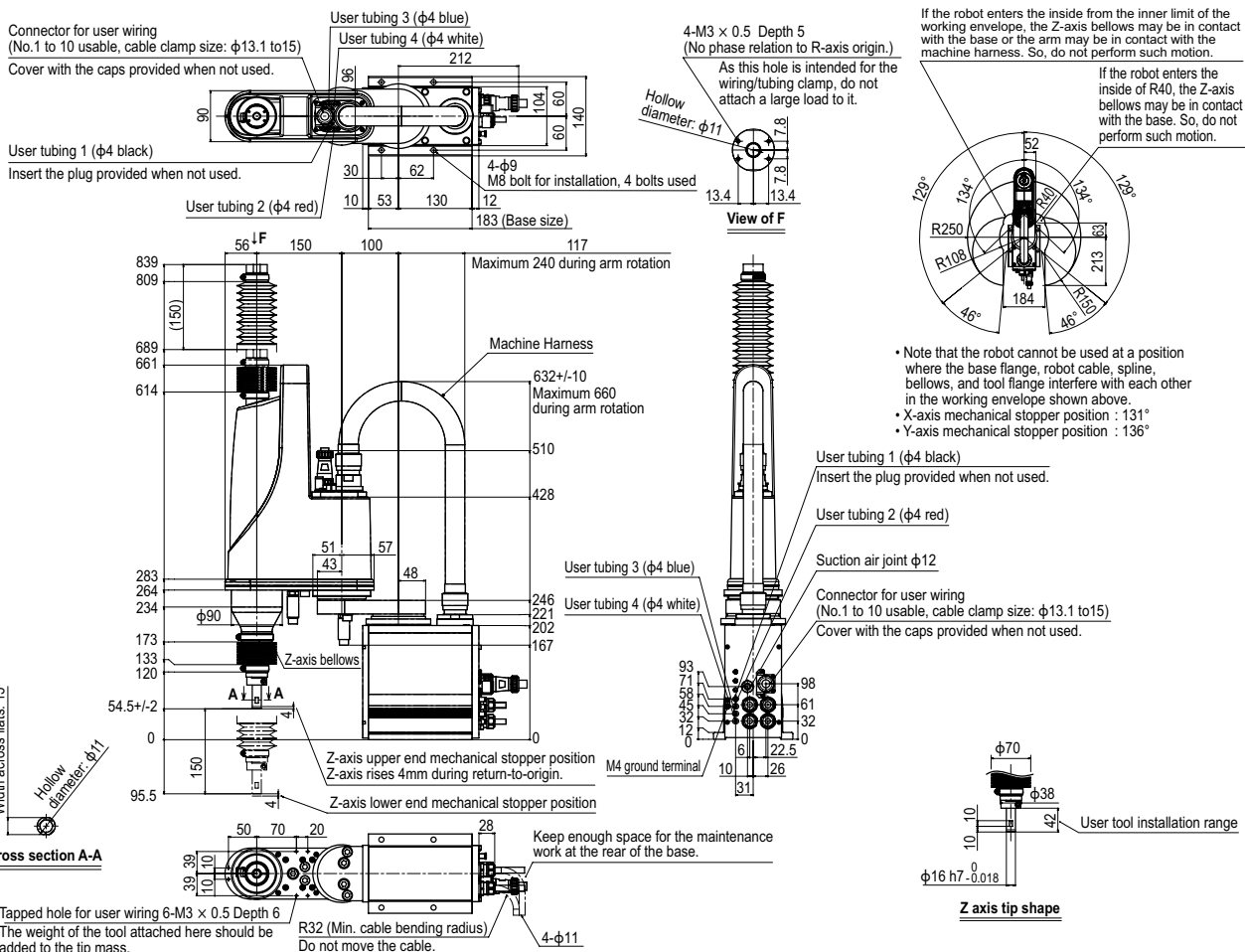
Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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.

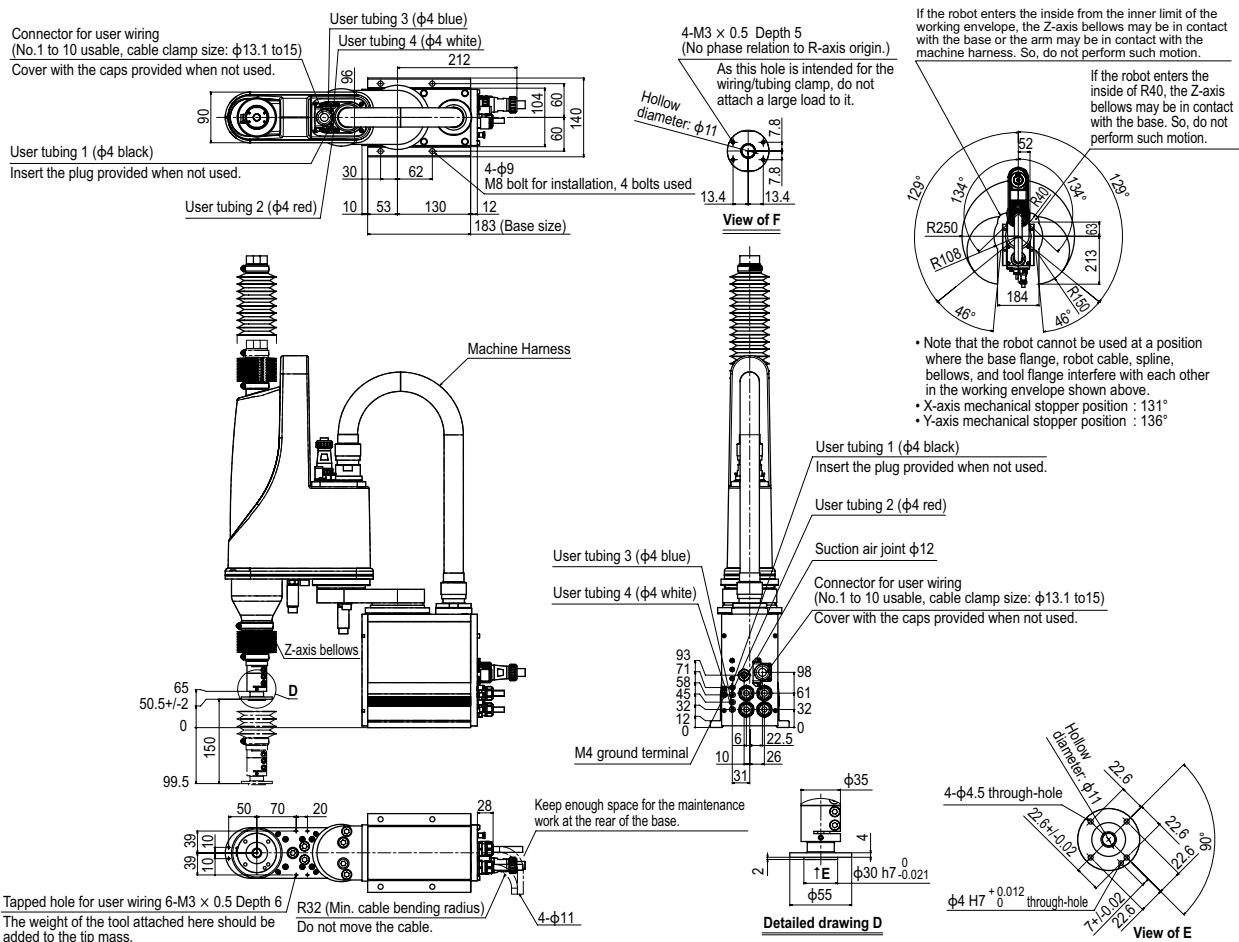
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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

YK250XGC



YK250XGC Tool flange mount type



YK350XGC

Clean type: Small type

- Arm length 350mm
- Maximum payload 4kg

Ordering method

YK350XGC - 150			S		RCX340-4							
Model	Z axis stroke 150: 150mm	Tool flange No entry: None F: With tool flange	Hollow shaft S: With hollow shaft	Cable length 3L: 3.5m 5L: 5m 10L: 10m	Controller / Number of controllable axes	Safety standard	Option A (O.P.A)	Option B (O.P.B)	Option C (O.P.C)	Option D (O.P.D)	Option E (O.P.E)	Absolute battery

Specify various controller setting items. RCX340 ▶ **P.636**

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		200	150	150	—
AC servo motor output (W)		+/-129	+/-134	—	+/-360
Repeatability ^{Note 1} (XYZ: mm) (R: °)		200	150	50	100
Maximum speed (XYZ: m/sec) (R: °/sec)				+/-0.01	+/-0.004
Maximum payload (kg)		5.6		1.1	1020
Standard cycle time: with 2kg payload (sec) ^{Note 2}				4	
R-axis tolerable moment of inertia ^{Note 3} (kgm ²)				0.52	
User wiring (sq x wires)				0.05	
User tubing (Outer diameter)				0.2×10	
Travel limit				φ4×4	
Robot cable length (m)				1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)	
Weight (kg)				Standard: 3.5 Option: 5, 10	
Degree of cleanliness				22	
Intake air (Nl/min)				ISO CLASS 3 (ISO 14644-1) ^{Note 4} +ESD ^{Note 5}	
				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. ESD (ElectroStatic discharge) specifications are custom-ordered. Please contact our distributor.
 Note 5. The necessary intake amount varies depending on the use conditions and environment.

Controller

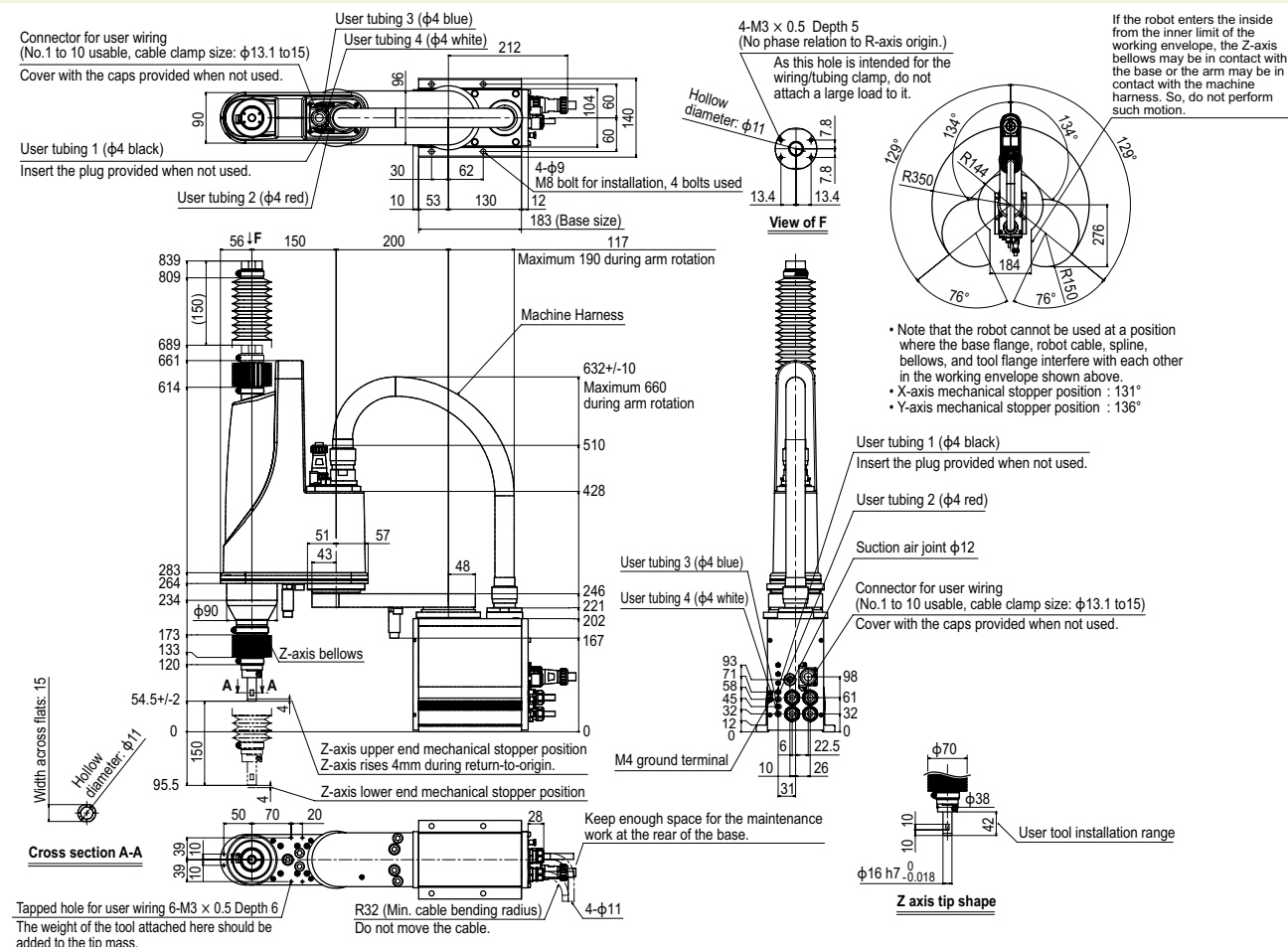
Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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.

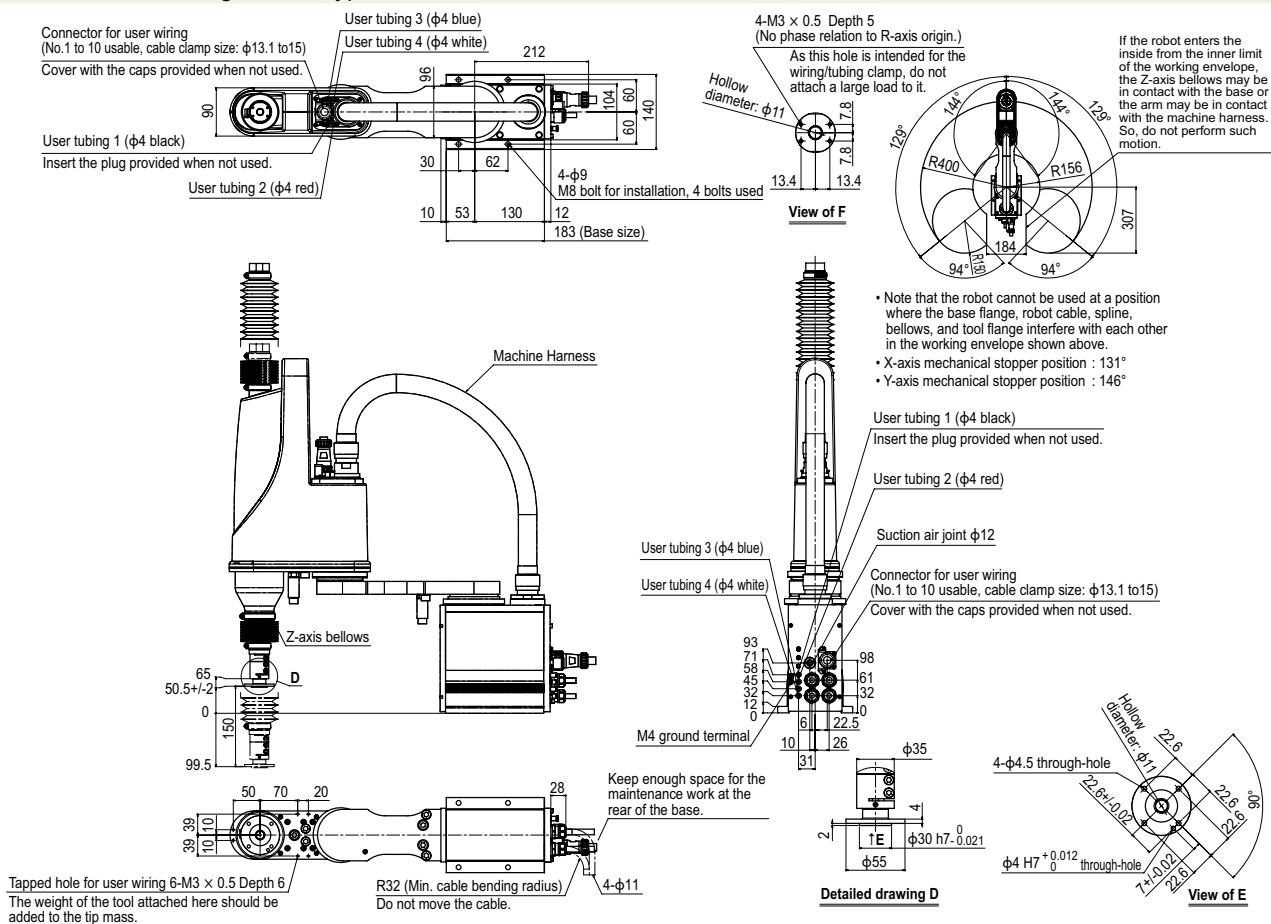
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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YK350XGC



YK400XGC Tool flange mount type



YK500XGLC

Clean type: Medium type

- Arm length 500mm
- Maximum payload 4kg

Ordering method

YK500XGLC - 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.636**

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
		250	250	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)		5.1		1.1	1020
Maximum payload (kg)				4	
Standard cycle time: with 2kg payload (sec) ^{Note 2}				0.66	
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)		25			
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. ESD (ElectroStatic discharge) specifications are custom-ordered. Please contact our distributor.

Note 5. The necessary intake amount varies depending on the use conditions and environment.

Controller

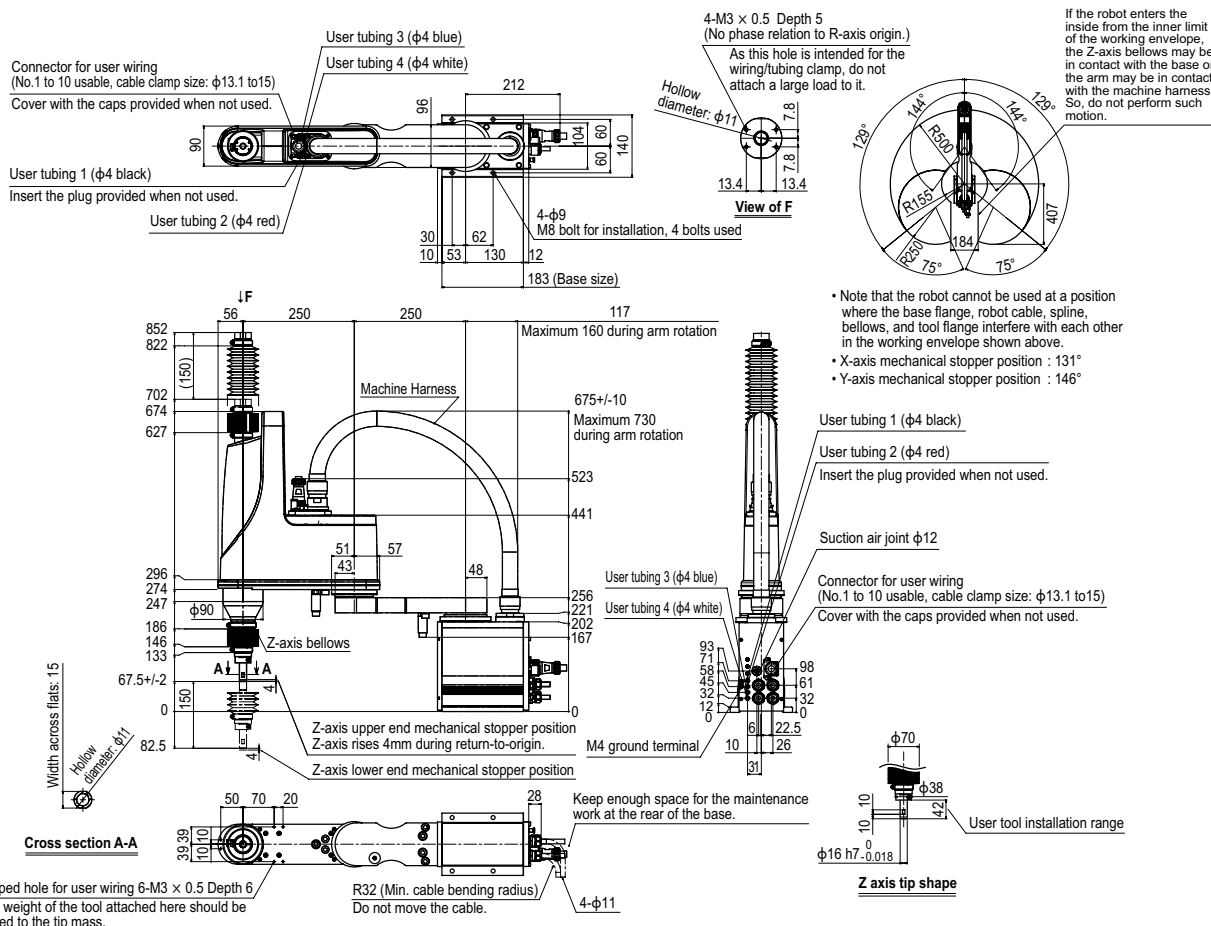
Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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.

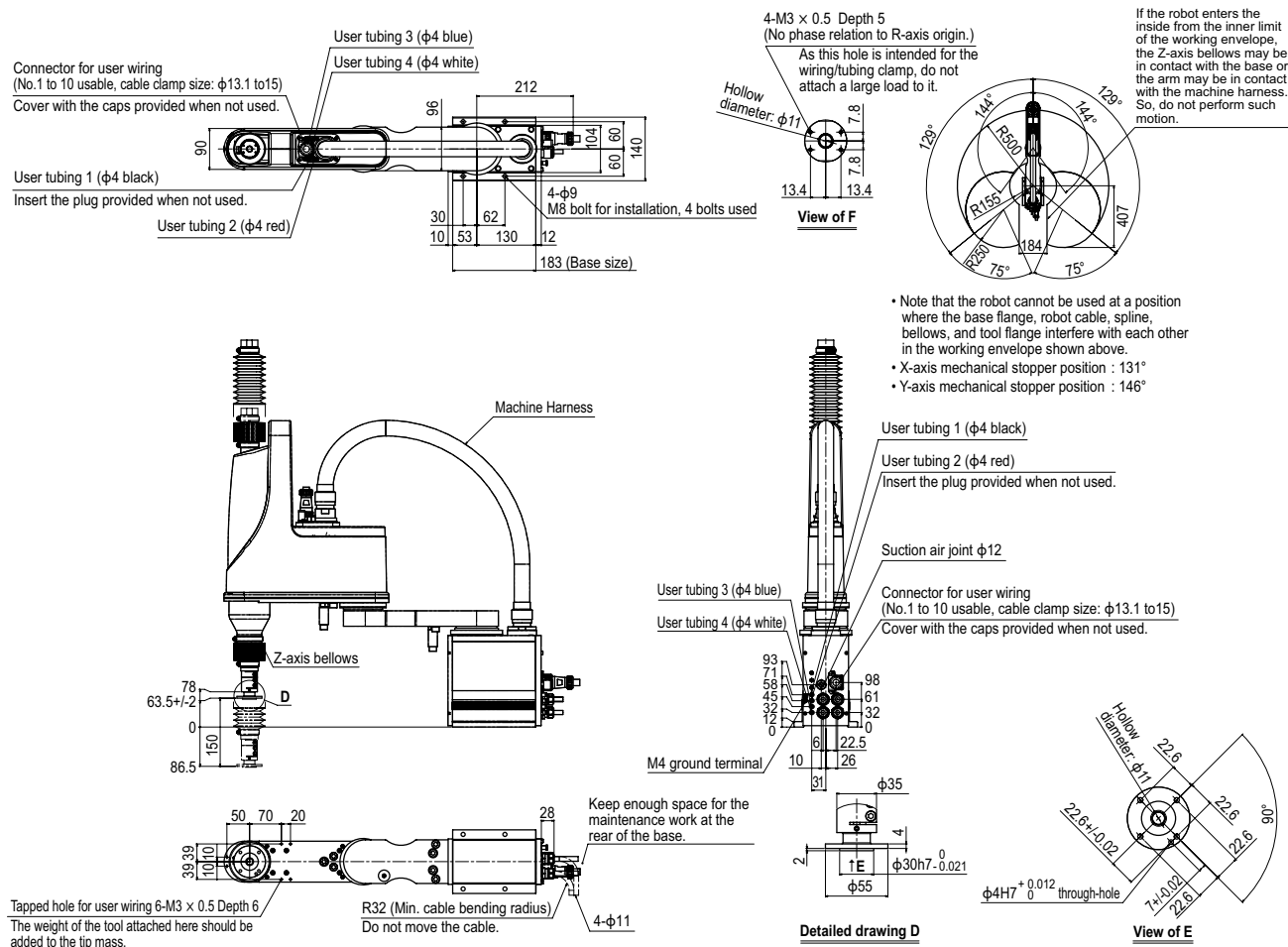
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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YK500XGLC



YK500XGLC Tool flange mount type



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 (O.P.A)	Option B (O.P.B)	Option C (O.P.C)	Option D (O.P.D)	Option E (O.P.E)	Absolute battery
	150: 150mm	No entry: None F: With tool flange	S: With hollow shaft	3L: 3.5m SL: 6m S: 10m	Specify various controller setting items. RCX340 ▶ P.636							

Basic specifications

		X axis	Y axis	Z axis	R axis
Axis specifications	Arm length (mm)	350	250	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)		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 × wires)		0.2×10			
User tubing (Outer diameter)		φ4×4			
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. ESD (ElectroStatic discharge) specifications are custom-ordered. Please contact our distributor.

Note 5. The necessary intake amount varies depending on the use conditions and environment.

Controller

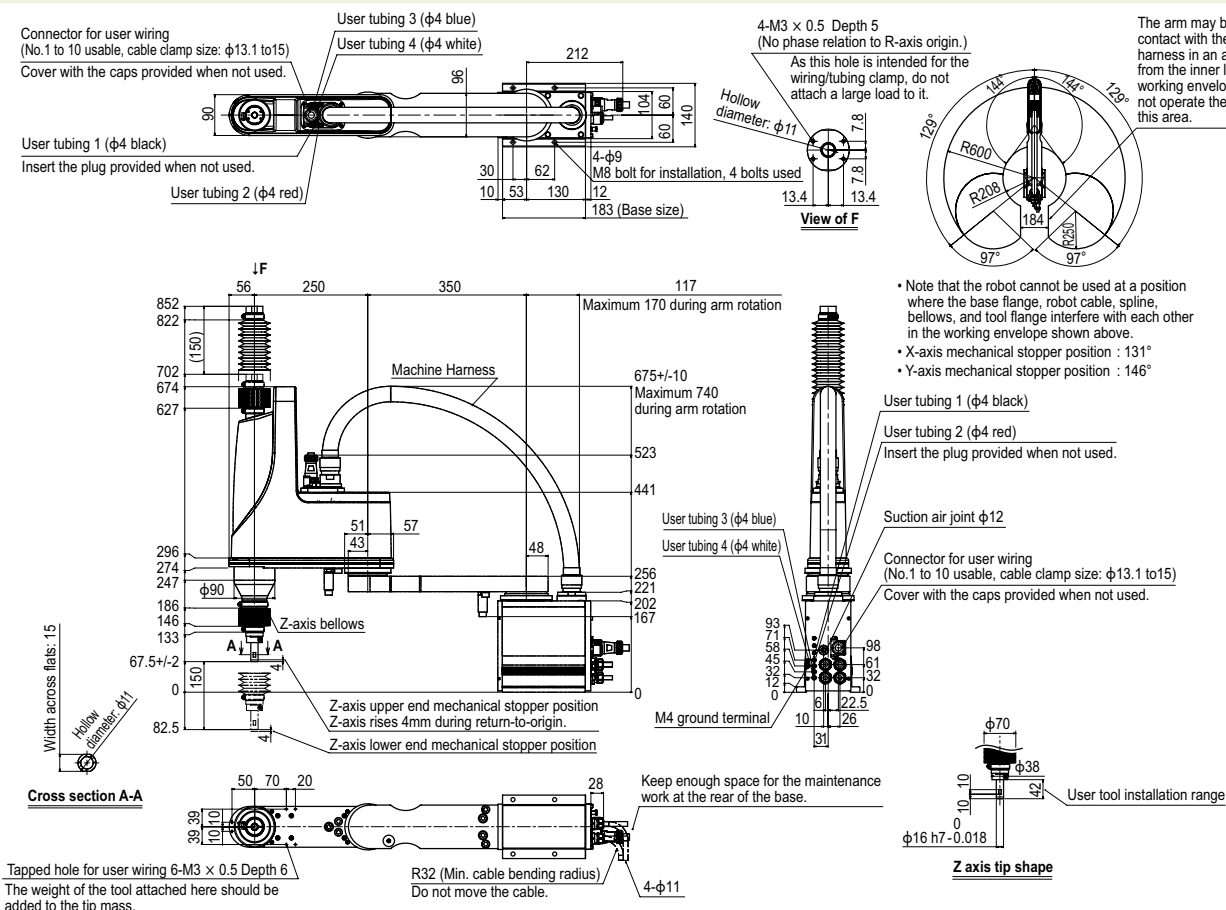
Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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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YK600XGLC



View of E

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.636**

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		350	350	200 / 400	—
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 × wires)		0.2 × 20			
User tubing (Outer diameter)		φ6 × 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.

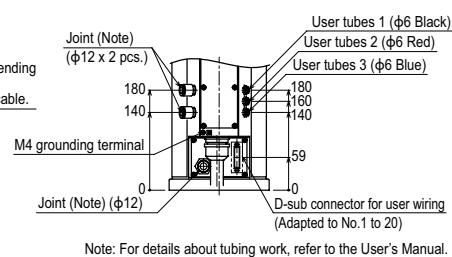
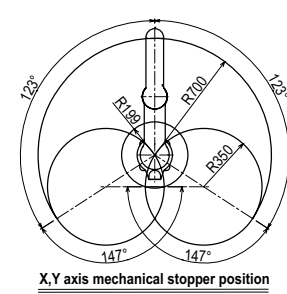
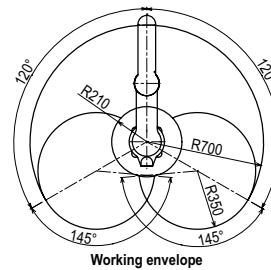
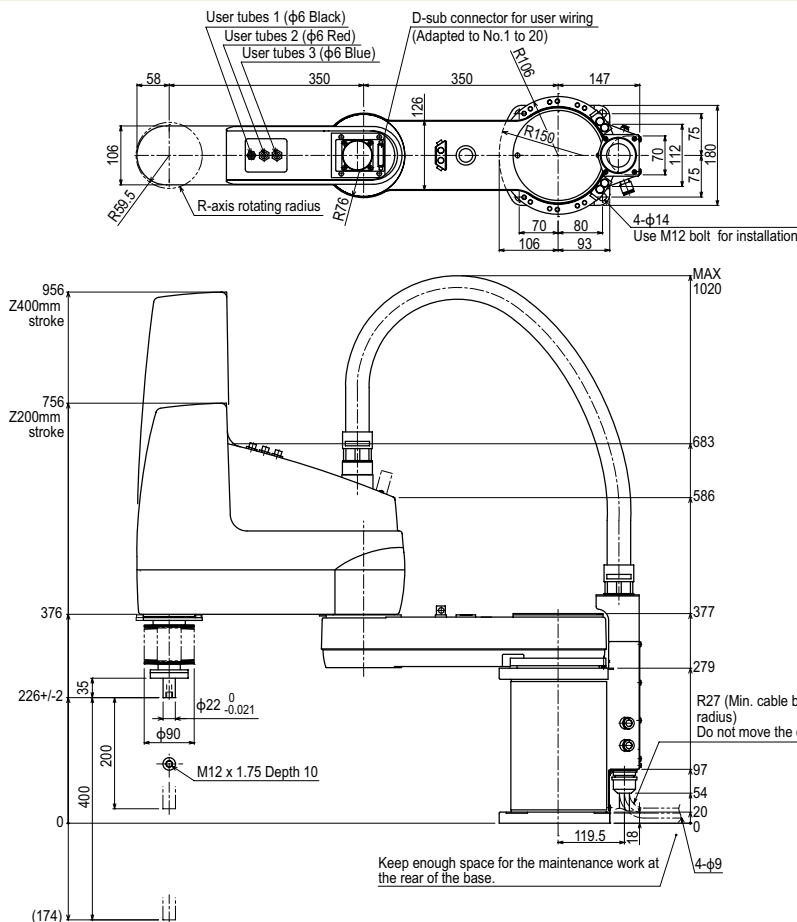
Controller

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

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YK700XC



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

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 (O.P.A)	Option B (O.P.B)	Option C (O.P.C)	Option D (O.P.D)	Option E (O.P.E)	Absolute battery
	200: 200mm 400: 400mm	3L: 3.5m 5L: 5m 9L: 9m								

Specify various controller setting items. RCX340 ▶ **P.636**

Basic specifications

		X axis	Y axis	Z axis		R axis
Axis specifications	Arm length (mm)	450	350	200	400	–
	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 × wires)		0.2 × 20				
User tubing (Outer diameter)		φ6 × 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.

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.

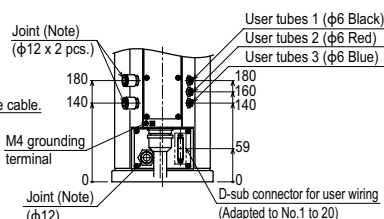
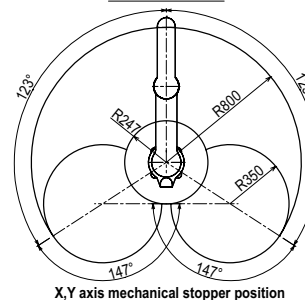
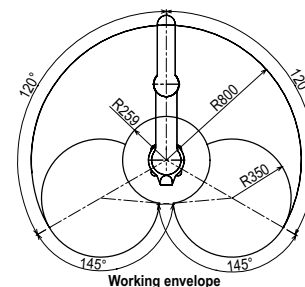
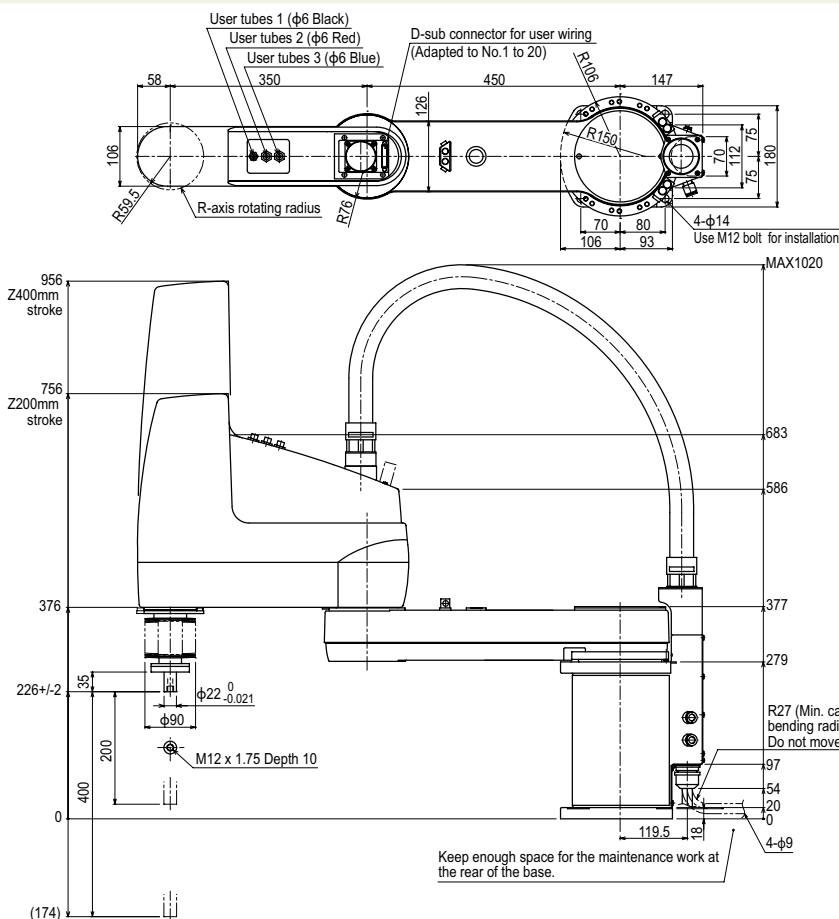
Controller

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

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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								
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.636**

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}	

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

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YK1000XC

