

Standard type: Large type

● Arm length 700mm

● **Maximum payload 10kg**

Note. This model is a special order product. Please consult us for delivery time.

Ordering method

YK700XGL

RCX340-4

Model

Z axis stroke

200: 200mm

300: 300mm

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

Specify various controller setting items. RCX340 ▶ P.636

Specifications

			X-axis	Y-axis	Z-axis	R-axis
Axis specifications	Arm length		400 mm	300 mm	200 mm	300 mm
	Rotation angle		+/-130 °	+/-145 °	-	+/-360 °
AC servo motor output			400 W	200 W	200 W	200 W
Deceleration mechanism	Transmission method	Motor to speed reducer	Direct-coupled			
		Speed reducer to output	Direct-coupled			
Repeatability ^{Note 1}			+/-0.01 mm		+/-0.01 mm	+/-0.005 °
Maximum speed			9.2 m/sec		2.3 m/sec	1.7 m/sec
Maximum payload			10 kg (Standard type), 9 kg (Tool flange mount type)			
Standard cycle time: with 2kg payload ^{Note 2}			0.50 sec			
R-axis tolerable moment of inertia ^{Note 3}			0.30 kgm ²			
User wiring			0.2 sq × 20 wires			
User tubing (Outer diameter)			φ6 × 3			
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)			
Robot cable length			Standard: 3.5 m Option: 5, 10 m			
Weight			32 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.

Controller

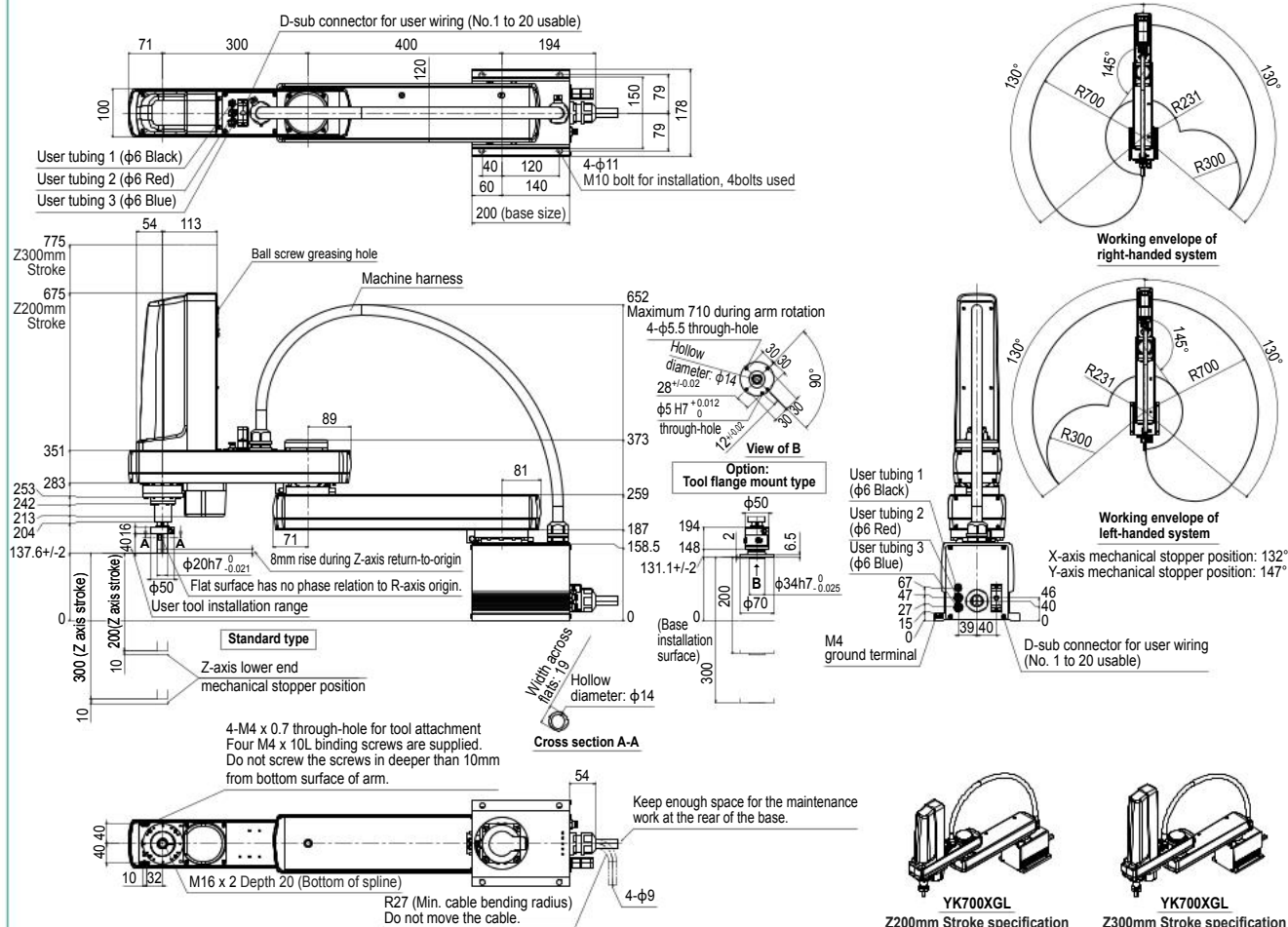
Controller	Power capacity (VA)	Operation method
RCX340	1700	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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:
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YK700XGL



Controller

RCX340 ► 636

YK700XG

Standard type: Large type



- Arm length 700mm
- Maximum payload 20kg

Ordering method

YK700XG

Model	Z axis stroke	Tool flange
	200: 200mm 400: 400mm	No entry: None F: With tool flange

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**

Specifications

Axis specifications	Arm length	X-axis	Y-axis	Z-axis	R-axis
	Rotation angle	300 mm	400 mm	200 mm	400 mm
		+/-130 °	+/-150 °	-	+/-360 °
AC servo motor output		750 W	400 W	400 W	200 W
Deceleration mechanism	Transmission method	Direct-coupled			
	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	920 °/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 x 20 wires			
User tubing (Outer diameter)		φ 6 x 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

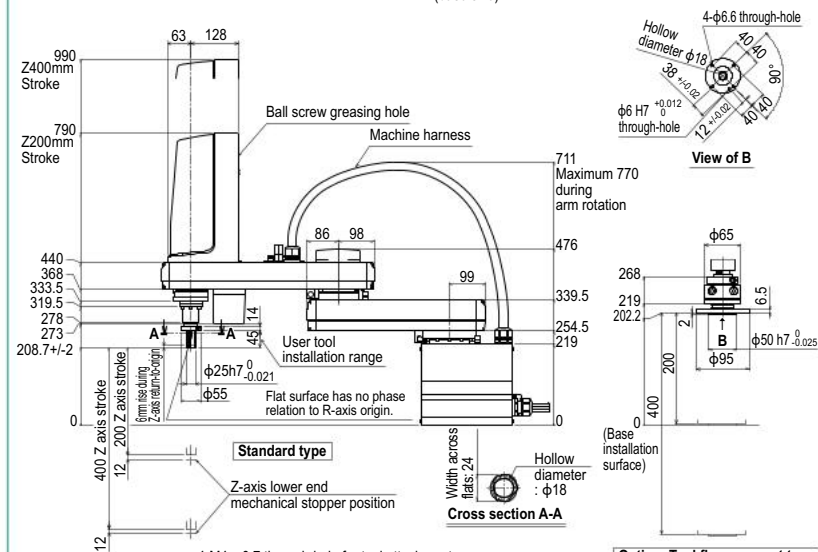
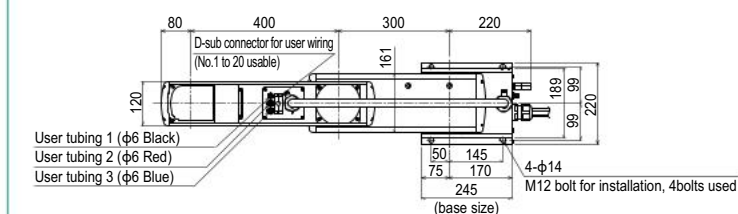
Controller	Power capacity (VA)	Operation method
RCX340	2500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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.

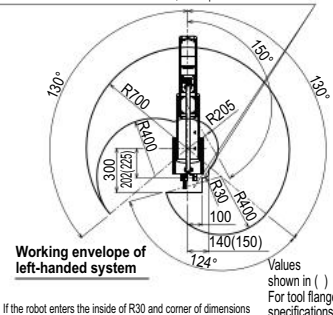
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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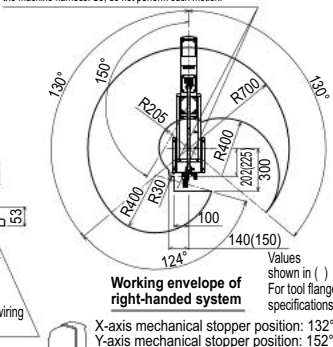
YK700XG



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.



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.



User tubing 1 (φ6 Black)
User tubing 2 (φ6 Red)
User tubing 3 (φ6 Blue)

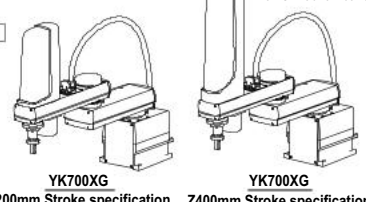
74 54 47 34 19 0

21 25 46

M4 ground terminal

D-sub connector for user wiring (No.1 to 20 usable)

X-axis mechanical stopper position: 132°
Y-axis mechanical stopper position: 152°



Controller

RCX340 ▶ 636

YK800XG

Standard type: Large type

- Arm length 800mm
- Maximum payload 20kg



Ordering method

YK800XG

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

RCX340-4

Controller / Number of controllable axes	Safety standard	Option A (OPA)	Option B (OPB)	Option C (OPC)	Option D (OPD)	Option E (OPE)	Absolute battery
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Specify various controller setting items. RCX340 ▶ P.636

■ Specifications

			X-axis	Y-axis	Z-axis	R-axis
Axis specifications	Arm length		400 mm	400 mm	200 mm	400 mm
	Rotation angle		+/-130 °	+/-150 °	—	+/-360 °
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			9.2 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}			0.48 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: 52 kg Z axis 400 mm: 54 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

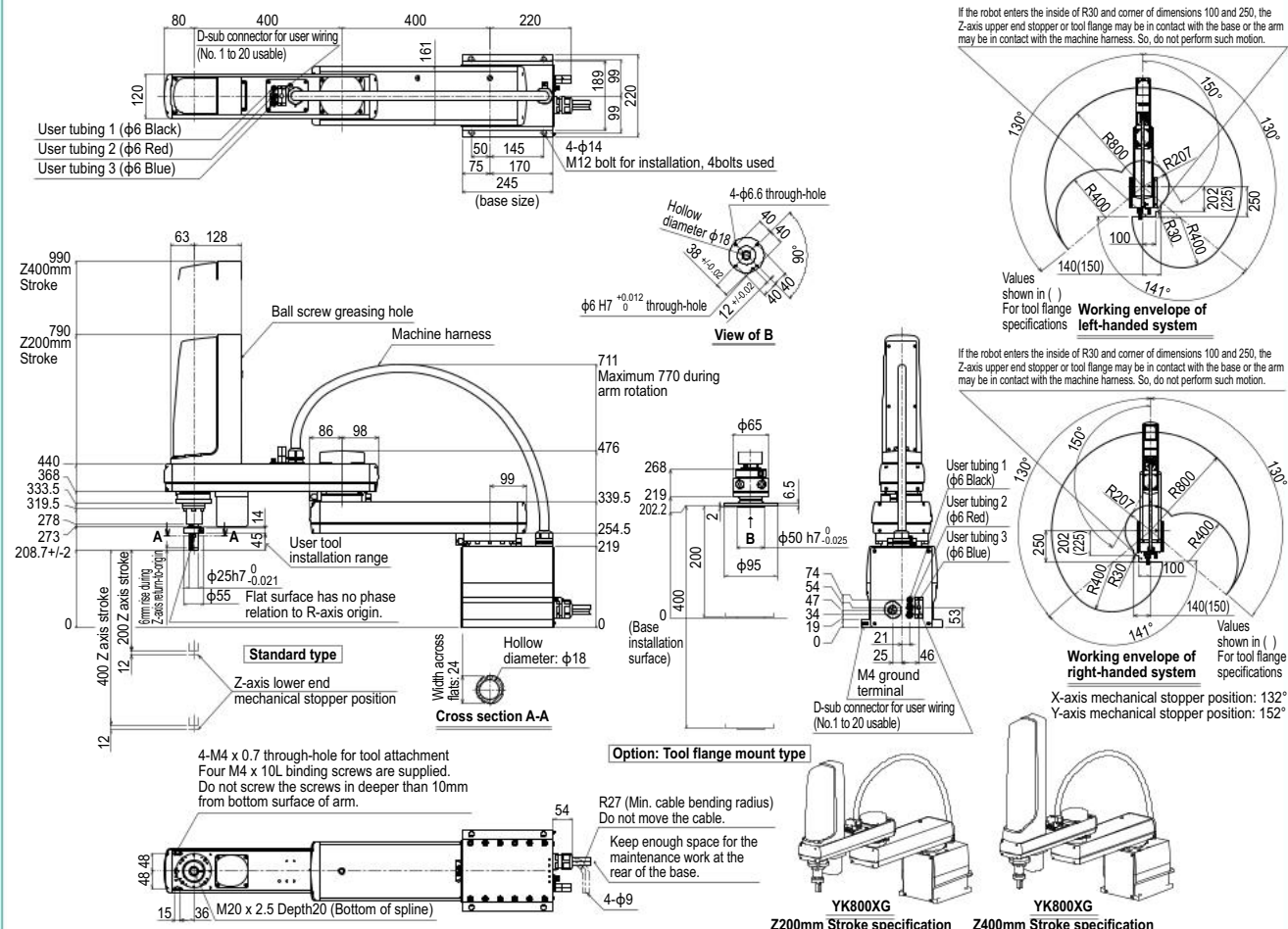
Controller	Power capacity (VA)	Operation method
RCX340	2500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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.

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YK800XG



YK900XG

Standard type: Large type

- Arm length 900mm
- Maximum payload 20kg



Ordering method

YK900XG

RCX340-4

Model	Z axis stroke	Tool flange	Cable	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	No entry: None F: With tool flange	3L: 3.5m 5L: 5m 10L: 10m								

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

Specifications

Axis specifications	Arm length	X-axis	Y-axis	Z-axis	R-axis
	Rotation angle	500 mm	400 mm	200 mm 400 mm	—
		+/-130 °	+/-150 °	—	+/-360 °
AC servo motor output		750 W	400 W	400 W	200 W
Deceleration mechanism	Transmission method	Direct-coupled			
	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		9.9 m/sec	2.3 m/sec 1.7 m/sec	920 °/sec	
Maximum payload		20 kg (Standard type), 19 kg (Tool flange mount type)			
Standard cycle time: with 2kg payload	Note 2	0.49 sec			
R-axis tolerable moment of inertia	Note 3	1.0 kgm ²			
User wiring		0.2 sq x 20 wires			
User tubing (Outer diameter)		φ 6 x 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: 54 kg Z axis 400 mm: 56 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

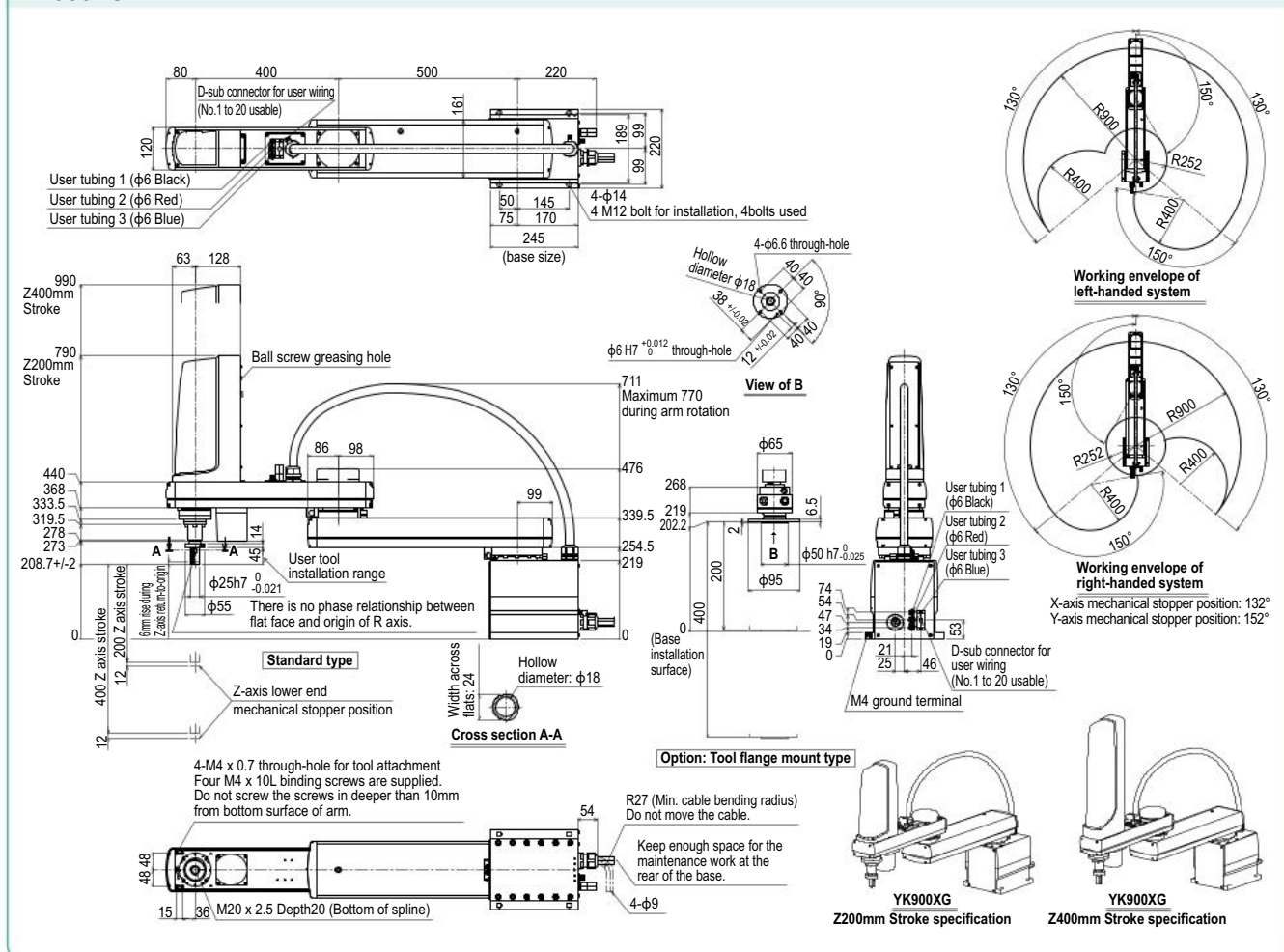
Controller	Power capacity (VA)	Operation method
RCX340	2500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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.

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YK900XG



RCX340 ► 636

Standard type: Large type

- Arm length 1200mm
- Maximum payload 50kg



Ordering method

YK1200X - 400

RCX340-4

Model	Z axis stroke	Cable	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
		3L : 3.5m 5L : 5m 9L : 9m 10L : 10m	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		600 mm	600 mm	400 mm	—
	Rotation angle		+/-125 °	+/-150 °	—	+/-180 °
AC servo motor output			900 W	800 W	600 W	400 W
Deceleration mechanism	Transmission method	Motor to speed reducer	Direct-coupled		Timing belt transmission	Timing belt transmission
		Speed reducer to output	Direct-coupled		Direct-coupled	Direct-coupled
Repeatability ^{Note 1}			+/-0.05 mm		+/-0.02 mm	+/-0.005 °
Maximum speed			7.4 m/sec		0.75 m/sec	600 °/sec
Maximum payload			50 kg			
Standard cycle time: with 2kg payload ^{Note 2}			0.91 sec			
R-axis tolerable moment of inertia ^{Note 3}			2.45 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			124 ka			

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.

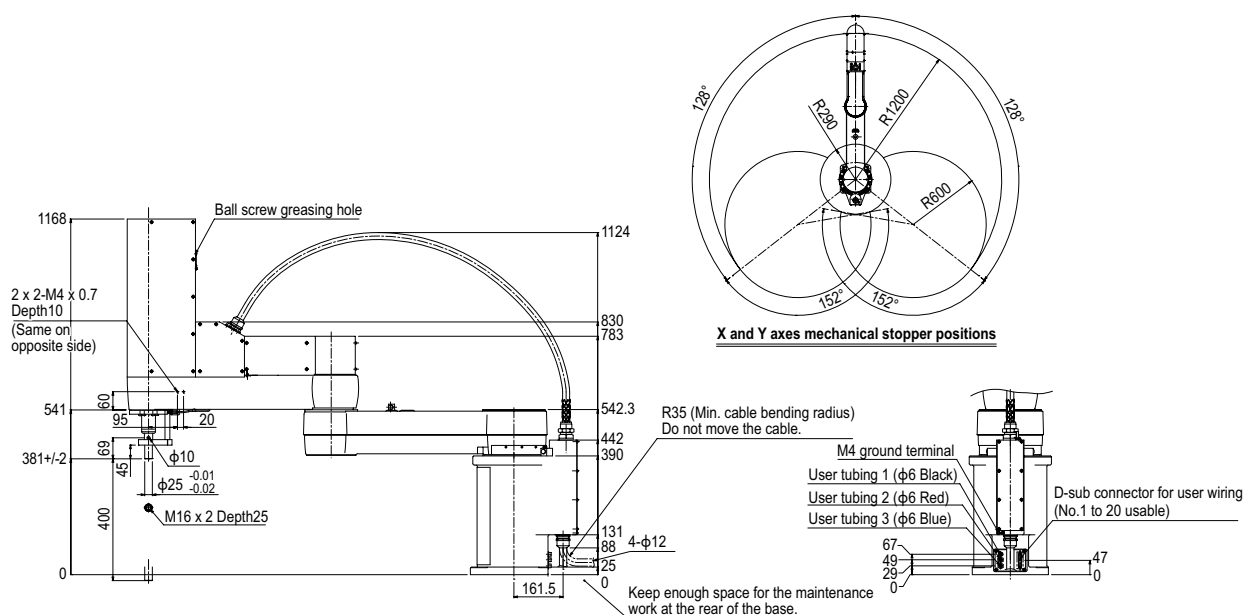
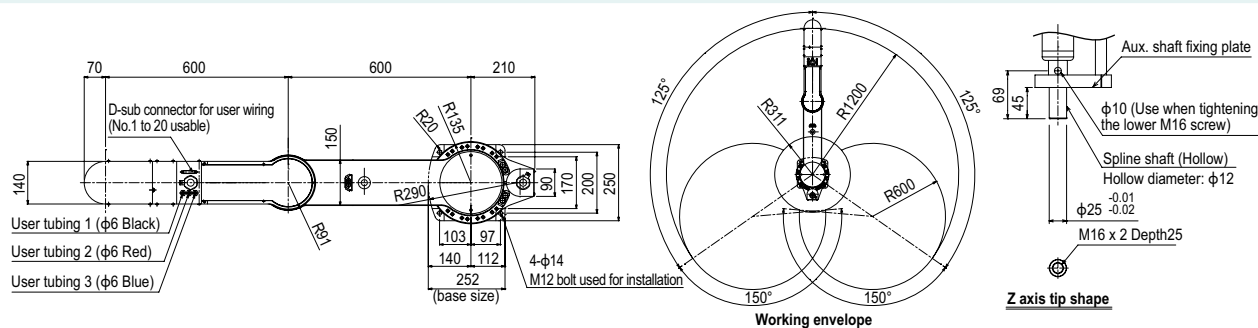
Controller

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.

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YK1200X



Controller

RCX340 ► 636

YK1200XG

Standard type: Large type



- Arm length 1200mm
- Maximum payload 50kg

Ordering method

YK1200XG - 400

Model	Z axis stroke	Tool flange	User Wiring	Cable
		No entry: None F: With tool flange	No entry: None UW: User Wiring ^{Note 4}	3L: 3.5m 5L: 5m 10L: 10m

RCX341-4

Controller / Number of controllable axes

R

Regenerative unit

Option A (OPA)

Option B (OPB)

Option C (OPC)

Option D (OPD)

Option E (OPE)

Absolute battery

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

Specifications

Axis specifications	Arm length	X-axis	Y-axis	Z-axis	R-axis
	Rotation angle	600 mm	600 mm	400 mm	—
		+/-130 °	+/-150 °	+/-360 °	+/-360 °
AC servo motor output		950 W	400 W	750 W	400 W
Deceleration mechanism	Transmission method	Direct-coupled			
	Motor to speed reducer	Direct-coupled			
	Speed reducer to output	Direct-coupled			
Repeatability ^{Note 1}		+/-0.05 mm	+/-0.02 mm	+/-0.005 °	
Maximum speed		7.7 m/sec	1.6 m/sec	600 °/sec	
Maximum payload		50 kg			
Standard cycle time: with 5kg payload ^{Note 2}		0.61 sec			
R-axis tolerable moment of inertia ^{Note 3}		2.45 kgm ²			
User wiring		0.2 sq × 12 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		96 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 4. User wiring stays (optional) are parts required for additional installation of user wiring. Installation on the robot must be performed by the customer.

Controller

Controller	Power capacity (VA)	Operation method
RCX341	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.)
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YK1200XG

