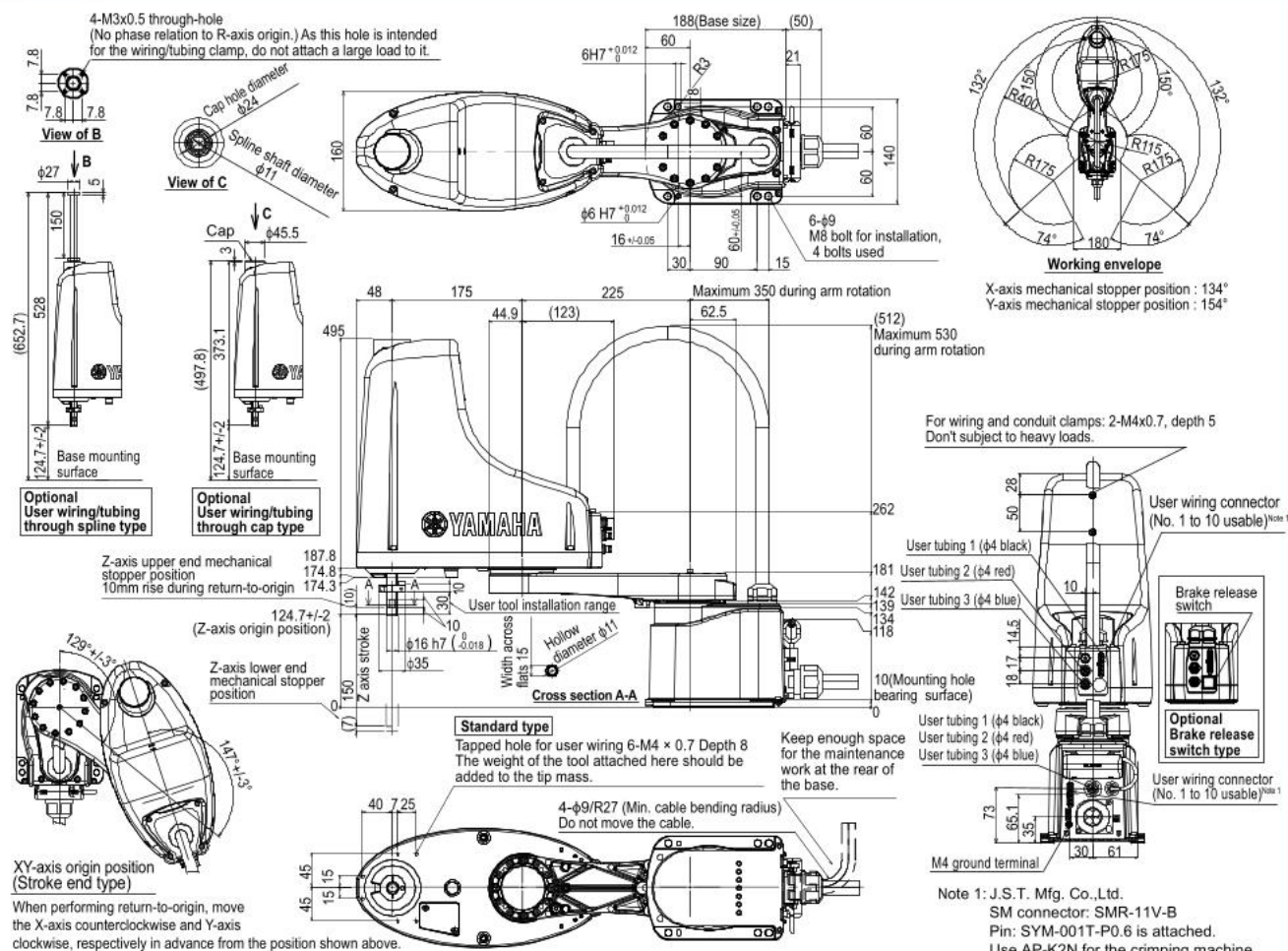




Standard type: Medium type

● **LOW COST HIGH PERFORMANCE MODEL**



- Arm length 510mm
- Maximum payload 10kg

Ordering method

YE 10 - 51 Z20- A

Model	Maximum payload	Arm length	Z axis stroke	Version	Return-to- origin method	Tool flange	Hollow shaft/ Hollow cap	Brake release switch	Cable	Controller / Number of controllable axe	Safety standard	Option A to E (OP.A to E)
					S : Sensor T : Stroke end	No entry: None F: With tool flange	No entry: None S : With hollow shaft C : With hollow cap	No entry: None B : With brake release switch	3L : 3.5m 5L : 5m 10L : 10m			

■ Specifications

			X-axis	Y-axis	Z-axis	R-axis
Axis specifications	Arm length		235 mm	275 mm	200 mm	-
	Rotation angle		+/-134 °	+/-152 °	-	+/-360 °
AC servo motor output			400 W	200 W	200 W	200 W
Deceleration mechanism	Transmission method	Motor to speed reducer	Direct-coupled		Timing belt	
		Speed reducer to output	Direct-coupled			Timing belt
Repeatability ^{Note 1}			+/-0.01 mm		+/-0.01 mm	+/-0.01 °
Maximum speed			7.8 m/sec		2 m/sec	2600 °/sec
Maximum payload			10 kg (Standard specification, Option specifications ^{Note 4}), 9 kg (Option specifications ^{Note 5})			
Standard cycle time: with 2kg payload ^{Note 2}			0.36 sec			
R-axis tolerable moment of inertia ^{Note 3}			0.3 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			23 ka			

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

Note 2. When reciprocating 300mm horizontally and 25mm vertically while conveying 2 kg with rough positioning in an arch motion

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

Note 4. Standard specification and optional specifications (brake release switch specification and user wiring/piping through-cap specification).

Note 5. Optional specification (tool flange and user wiring/piping through-shaft specification)

■ **Controller**

Controller	Power capacity (VA)	Operation method
RCX440	1700	Programming / I/O point trace / Remote command / Operation using RS-232C communication

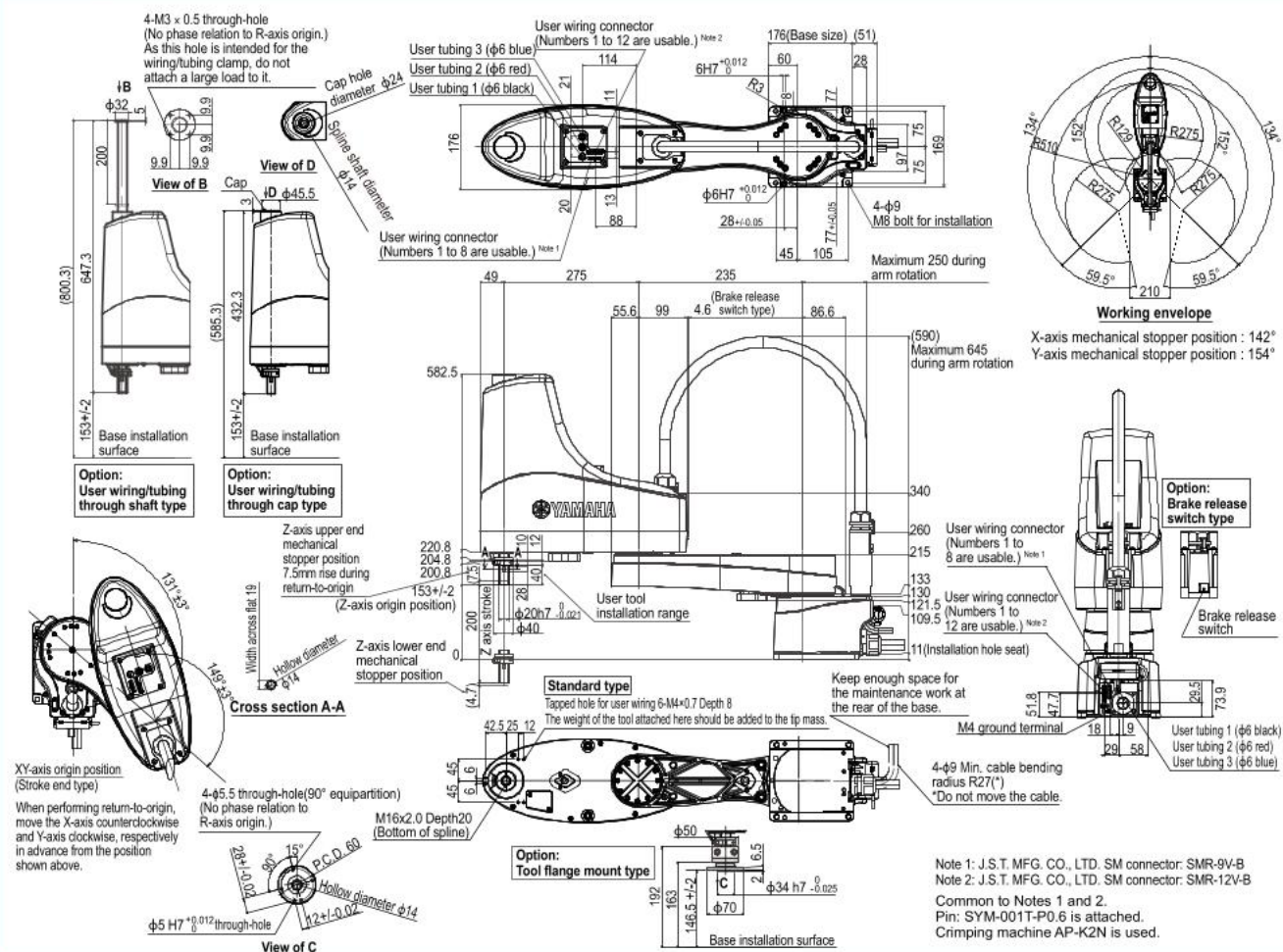
Note. The movement range can be restricted by adding the X- and Y-axis mechanical stoppers. (The maximum movement range was set at shipment.)

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/>

YE10-51



Standard type: Medium type

● **LOW COST HIGH PERFORMANCE MODEL**

- Arm length 610mm
- Maximum payload 10kg



Ordering method

YE 10 - 61 Z20- A

Model	Maximum payload	Arm length	Z axis stroke	Version	Return-to- origin method S : Sensor T : Stroke end	Tool flange No entry: None F: With tool flange	Hollow shaft/ Hollow cap No entry: None S: With hollow shaft C: With hollow cap	Brake release switch No entry: None B: With brake release switch	Cable 3L: 3.5m 5L: 5m 10L: 10m	Controller / Number of controllable axe	Safety standard	Option A to E (OP.A to E)
--------------	----------------------------	-----------------------	--------------------------	----------------	---	---	---	---	--	--	----------------------------	--------------------------------------

■ Specifications

			X-axis	Y-axis	Z-axis	R-axis
Axis specifications	Arm length		335 mm	275 mm	200 mm	-
	Rotation angle		+/-134 °	+/-152 °	-	+/-360 °
AC servo motor output			400 W	200 W	200 W	200 W
Deceleration mechanism	Transmission method	Motor to speed reducer	Direct-coupled		Timing belt	
		Speed reducer to output	Direct-coupled		Timing belt	
Repeatability ^{Note 1}			+/-0.01 mm		+/-0.01 mm	+/-0.01 °
Maximum speed			8.6 m/sec		2 m/sec	2600 °/sec
Maximum payload			10 kg (Standard specification, Option specifications ^{Note 4}), 9 kg (Option specifications ^{Note 5})			
Standard cycle time: with 2kg payload ^{Note 2}			0.38 sec			
R-axis tolerable moment of inertia ^{Note 3}			0.3 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			23 ka			

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

Note 2. When reciprocating 300mm horizontally and 25mm vertically while conveying 2 kg with rough positioning in an arch motion.

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

Note 4. Standard specification and optional specifications (brake release switch specification and user wiring/piping through-cap specification).

Note 5. Optional specification (tool flange and user wiring/piping through-shaft specification).

Controller

Controller	Power capacity (VA)	Operation method
RCX440	1700	Programming / I/O point trace / Remote command / Operation using RS-232C communication

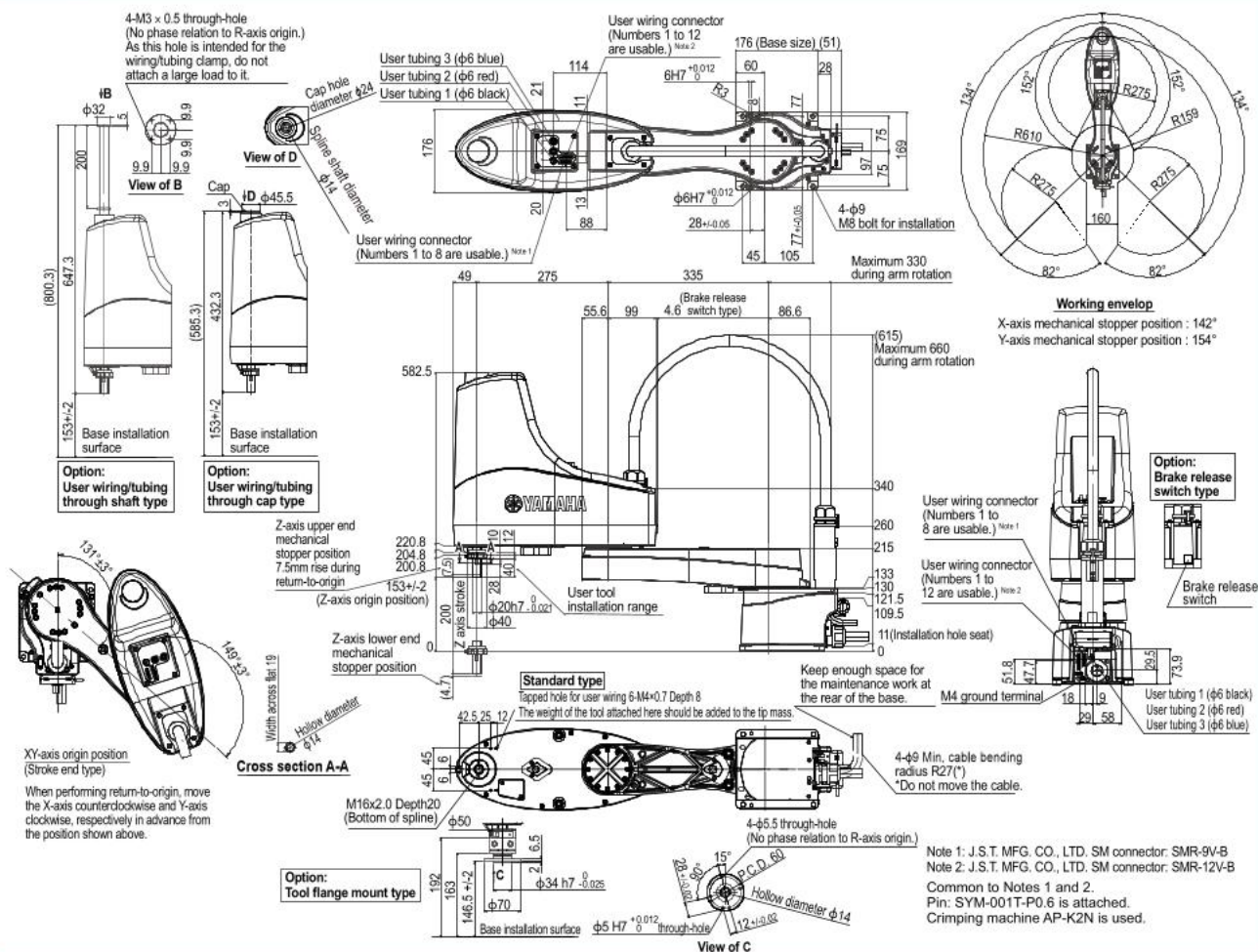
Note. The movement range can be restricted by adding the X- and Y-axis mechanical stoppers. (The maximum movement range was set at shipment.)

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/>

YE10-61



YE10-71

Standard type: Medium type

● LOW COST HIGH PERFORMANCE MODEL

● Arm length 710mm ● Maximum payload 10kg



Ordering method

YE 10 - 71 Z20 - A

Model	Maximum payload	Arm length	Z axis stroke	Version	Return-to-origin method	Tool flange	Hollow shaft/Hollow cap	Brake release switch	Cable	Controller / Number of controllable axis	Safety standard	Option A to E (O.P.A to E)
					S : Sensor T : Stroke end	No entry: None F : With tool flange	No entry: None S : With hollow shaft C : With hollow cap	No entry: None B : With brake release switch	3L : 3.5m 5L : 5m 10L : 10m	RCX440-4	N	

Specifications

Axis specifications	Arm length	X-axis	Y-axis	Z-axis	R-axis
	Rotation angle	435 mm	275 mm	200 mm	-
		+/-134 °	+/-152 °	-	+/-360 °
AC servo motor output		400 W	200 W	200 W	200 W
Deceleration mechanism	Transmission method	Direct-coupled		Timing belt	
	Motor to speed reducer	Direct-coupled		Timing belt	
	Speed reducer to output	Direct-coupled		Timing belt	
Repeatability	Note 1	+/-0.02 mm		+/-0.01 mm	+/-0.01 °
Maximum speed		9.5 m/sec		2 m/sec	2600 °/sec
Maximum payload		10 kg (Standard specification, Option specifications Note 4), 9 kg (Option specifications Note 5)			
Standard cycle time: with 2kg payload	Note 2	0.42 sec			
R-axis tolerable moment of inertia	Note 3	0.3 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		24 kg			

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

Note 2. When reciprocating 300mm horizontally and 25mm vertically while conveying 2 kg with rough positioning in an arch motion.

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

Note 4. Standard specification and optional specifications (brake release switch specification and user wiring/piping through-cap specification).

Note 5. Optional specification (tool flange and user wiring/piping through-shaft specification).

Controller

Controller	Power capacity (VA)	Operation method
RCX440	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:

<https://global.yamaha-motor.com/business/robot/>

YE10-71

