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SCARA ROBOTS

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Wall mou

& drip-proo type

YK-X SPECIFICATION SHEET

Tvp	Arm length (mm) and XY axis r			is res	sultant maximum speed (m/s)							Standard Maximum cycle time payload	moment of heltle	Completely beltless	Detailed							
			120	150	180	220	250	300	350	400	500	600	700	800	900	1000	1200	(sec) Note 1	(kg)	inertia (kgm²)	structure Note 2	info page
Orbit	2	YK350TW				5.6												0.32	5.0	0.005 (Rated) 0.05 (Maximum)		P.72
04	2	YK500TW					6.8											0.29	5.0	0.005 (Rated) 0.05 (Maximum)		P.74
Extra small type	<u>و</u>	YK120XG	3.3															0.33	1.0	0.01	•	P.76
	<u></u>	YK150XG		3.4														0.33	1.0	0.01	•	P.77
		YK180XG		3.3														0.33	1.0	0.01	•	P.78
	ix [YK180X		3.3														0.39	1.0	0.01	•	P.79
		YK220X		:	3.4													0.42	1.0	0.01	•	P.80
	a	YK250XG			4.5													0.43	5.0	0.05	•	P.81
	l type	YK350XG				5.6												0.44	5.0	0.05	•	P.83
	Small	YK400XE-4				6	6.0											0.41	4.0	0.05		P.86
	• /	YK400XG				(5.1											0.45	5.0	0.05	•	P.88
		YK500XGL					5.1											0.48	5.0	0.05	•	P.90
		YK500XG					7.6											0.42	10.0	0.30	•	P.92
Standard	21	YK510XE-10					7.8											0.38	10.0	0.30		P.93
Stan		YK600XGL					4	.9										0.54	5.0	0.05	•	P.94
	Med	YK600XG					8	.4										0.43	10.0	0.30	•	P.96
	Г	YK610XE-10					8	.6										0.39	10.0	0.30		P.97
		YK600XGH					7	7.7										0.47	20.0	1.0	•	P.98
		YK700XGL						9.2										0.50	10.0	0.30	•	P.99
	•	YK710XE-10						9.5										0.42	10.0	0.30		P.100
	Ī	YK700XG		8.4														0.42	20.0	1.0	•	P.101
	type	YK800XG						9	.2									0.48	20.0	1.0	•	P.102
	arge.	YK900XG		9.9														0.49	20.0	1.0	•	P.103
	- 1	YK1000XG	10.6															0.49	20.0	1.0	•	P.104
	ŀ	YK1200X								7.4								0.91	50.0	2.45		P.105
	ŀ	YK1200XG								7.7								0.61	50.0	2.45	•	P.106
	1	YK300XGS			4	.4												0.49	5.0	0.05	•	P.107
e e	H	YK400XGS					6.1		-									0.49	5.0	0.05	•	P.109
e typ	;	YK500XGS					7.6											0.45	10.0	0.3	•	P.111
Wall mount / inverse type	ŀ	YK600XGS		8.4														0.46	10.0	0.3	•	P.112
nt / ir	-	YK700XGS						8.4										0.42	20.0	1.0	•	P.113
mom	ŀ	YK800XGS				-			2									0.48	20.0	1.0	•	P.114
Nall	ŀ	YK900XGS		9.2														0.49	20.0	1.0		P.115
	H	YK1000XGS							10	0.6								0.49	20.0	1.0	•	P.116
	\dashv	YK250XGP	_		4.5													0.50	4.0	0.05	•	P.117
	H	YK350XGP				5.6												0.52	4.0	0.05	•	P.119
	H	YK400XGP					6.1											0.50	4.0	0.05	•	P.121
be D		YK500XGLP					5.1											0.66	4.0	0.05	•	P.123
of ty	` -	YK500XGP	\succeq				7.6											0.55	10.0	0.3	•	P.125
o-pro	.	YK600XGLP						0										0.71	4.0	0.05	•	P.126
& drij	-	YK600XGP		4.9 8.4											0.71	10.0	0.03	•	P.128			
Joo.															0.57			•	P.120			
Dust-proof & drip-proof type	.	YK600XGHP		7.7												20.0	1.0	-				
DO	г	YK700XGP						8.4	2									0.52	20.0	1.0	•	P.130
	H	YK800XGP						9	.2									0.58	20.0	1.0	•	P.131
	H	YK900XGP							9.9									0.59	20.0	1.0	•	P.132
		YK1000XGP The standard								0.6								0.59	20.0	1.0	•	P.133

- Note 1. The standard cycle time is measured under the following conditions.

 During back and forth movement 25mm vertically and 100mm horizontally (extra small type)

 During back and forth movement 25mm vertically and 300mm horizontally (small type / medium type / large type)

 Note 2. Maintains high accuracy over long periods because the beltless structure drastically cuts down on wasted motion.

 Operation is also nearly maintenance-free for long periods with no worries about belt breakage, stretching or deterioration over time.

Robot ordering method description

In the order format for the YAMAHA SCARA robots YK-X series, the notation (letters/numbers) for the mechanical section is shown linked to the controller section notation.

[Example]

■ Mechanical ► YK250XG

- Z-axis stroke ▷ 150mm
- Hollow shaft ▷ With hollow shaft
- Cable length ≥ 3.5m

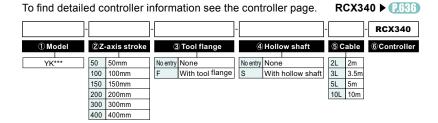
Ordering method

K250XG-150-F-S-3L-RCX340

Mechanical section

Controller section

■ Controller ► RCX340



Note 1. Available only for the master.

Robot ordering method terminology Note. The selection items available for ordering method may vary depending on the model. Note. The selection items available for ordering method m

① Model	Enter the robot unit model.
② Return-to-origin method (YK400XE-4 only)	Select the return-to-origin method. S: Sensor T: Stroke end
③ Z-axis stroke	Select the Z axis stroke. The stroke varies with the model you select so see that model's page to confirm the specifications.
(A) Tool floores	Tool flange option for easy mounting of a tool to the tip.
④ Tool flange	No entry: None F: With tool flange
⑤ Hollow shaft	Hollow shaft option for easy routing of air tubes and harness wires.
3 Hollow Stiatt	No entry: None S: With hollow shaft C: With hollow cap
© Brake release switch	Select whether a brake release switch is present.
6 Brake release switch	No entry: None BS: With tool flange
⑦ Cable	Select the length of the robot cable connecting the robot and controller. 2L : 2m (Note 1) 3L : 3.5m 5L : 5m 10L : 10m Note 1. Only selectable for YK120XG, YK150XG, YK150XG.
® Controller	Select the RCX340.

YK350TV

Orbit type

Arm length 350mm
Maximum payload 5kg

■ Ordering method

YK350TW- 130

Tool flange - Hollow shaft No entry: None
F: With tool flange
S: With hollow shaft

RCX340-4

Safety - Option A - Option B - Option C - Option D - Option E - Absorbandard (OP.A) (OP.B) (OP.C) (OP.D) (OP.E) batt

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

■ Specifications							
			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		175 mm	175 mm	130 mm	-	
specifications	Rotation ang	le	+/-225 °	+/-225 °	-	+/-720 °	
AC servo motor output			750 W	400 W	200 W	105 W	
Deceleration	Transmission	Motor to speed reducer	Timing belt	Direct-coupled	Timing belt	Timing belt	
mechanism	method	Speed reducer to output		Direct-coupled		Tilling ben	
Repeatability	Note 1		+/-0.0)1 mm	+/-0.01 mm	+/-0.01 °	
Maximum spe	ed		5.6 r	n/sec	1.5 m/sec	3000 °/sec	
Maximum pay	load Note 2		5 kg				
Standard cycle	e time: with 1k	g payload ^{Note 3}	0.32 sec				
R-axis tolerab	le moment of	Rated	0.005 kgm ²				
inertia Note 4		Maximum					
User wiring			0.15 sq × 8 wires				
User tubing (C	Outer diameter	r)	φ6×2				
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)				
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m				
Weight			26 kg				

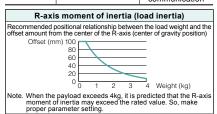
Note 1. This is the value at a constant ambient temperature

Note 2. Tool flange specifications (option) are 4 kg.

Note 3. When moving a 1 kg load back and forth 300mm horizontally and 25mm vertically (rough positioning arch motion).

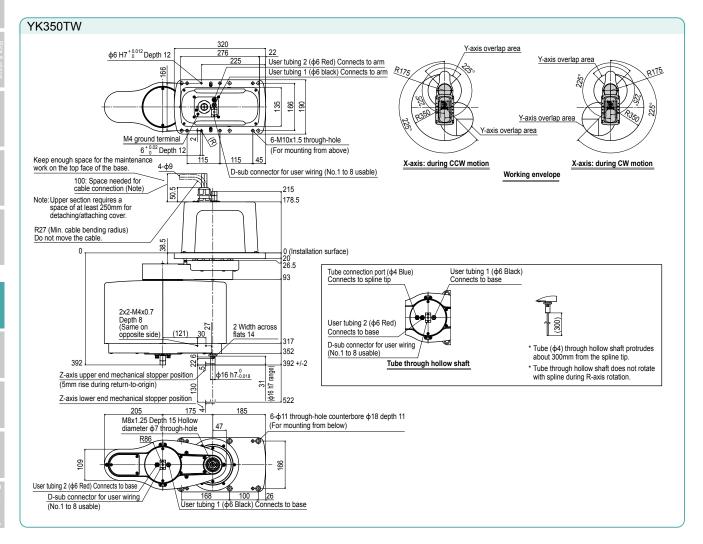
Note 4. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

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

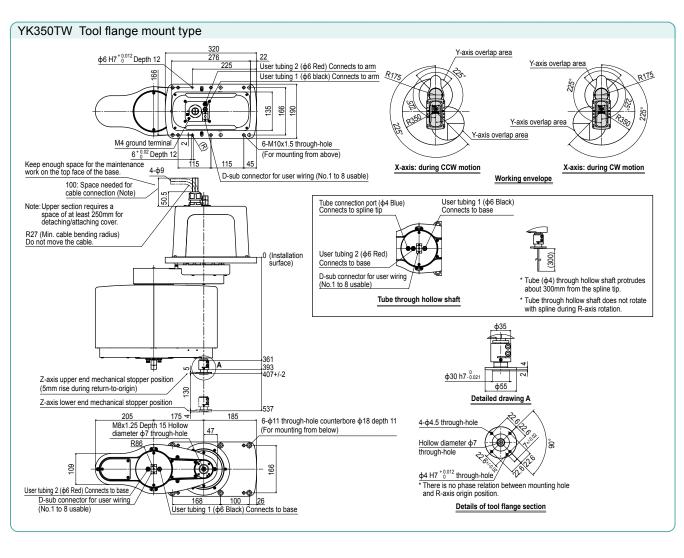


To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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



Controller

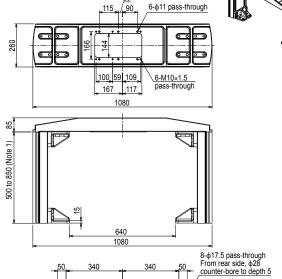


■ Dedicated mounting bracket for the YK-TW <BASE POST ASSY.>

The YK-TW can be easily installed on top of a customer-provided stand.

Y-axis overlap area

External diagram for the YK350TW



The mounting bracket is assembled by the customer. Refer to the included assembly diagram for assembly.

Note 1. Identical to the height of the robot mounting surface The height of the stand can be selected at a 50 mm pitch.

Height (mm)	Model	Unit weight (kg)
500	KDU-M6100-P0	46
550	KDU-M6100-50	48
600	KDU-M6100-R0	50
650	KDU-M6100-60	51
700	KDU-M6100-S0	54
750	KDU-M6100-70	55
800	KDU-M6100-T0	57
850	KDU-M6100-80	59

Note, YK350TW and YK500TW are parts in common.

Note. The top plate by itself weighs 19 kg.

Bolts supplied with the controller

1	M16 x Pitch 2.0 x Length 45 [Hexagonal socket head bolt]	8 pcs. (For securing the installation base)
2	Washer for M16 bolt [Plate thickness 3 mm, Outside diameter φ26, Inside diameter φ16]	8 pcs.
3	M10 × Pitch 1.5 × Length 30	6 pcs. (Bolts used to secure the SCARA main body from the bottom surface.)
4	M10 × Pitch 1.5 × Length 40	6 pcs. (Bolts used to secure the SCARA main body from the top surface.)

Note. Only either 3 or 4 is used.

YK500TV

Orbit type

Arm length 500mm
Maximum payload 5kg

■ Ordering method YK500TW-130

Tool flange - Hollow shaft

Cable

RCX340-4

Safety Option A Option B Option C Option D Option E Absorbandard (OP.A) (OP.B) OPTION C OP.D) OPTION D OPTION D

No entry: None
F: With tool flange
S: With hollow shaft

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

■ Specifications							
Specific	Cations						
			X-axis	Y-axis	Z-axis	R-axis	
Axis Arm length		250 mm	250 mm	130 mm	-		
specifications	Rotation ang	le	+/-225 °	+/-225 °	-	+/-720 °	
AC servo mot	or output		750 W	400 W	200 W	105 W	
Deceleration	Transmission	Motor to speed reducer	Timing belt	Direct-coupled	Timing belt	Timing belt	
mechanism	method	Speed reducer to output		Direct-coupled		Tilling beit	
Repeatability	Note 1		+/-0.0	15 mm	+/-0.01 mm	+/-0.01 °	
Maximum spe	ed		6.8 r	n/sec	1.5 m/sec	3000 °/sec	
Maximum pay	rload Note 2		5 kg				
Standard cycl	e time: with 1k	g payload Note 3	0.29 sec				
	ole moment of	Rated	0.005 kgm²				
inertia Note 4		Maximum					
User wiring			0.15 sq × 8 wires				
User tubing (0	Duter diameter	r)	φ6×2				
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)				
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m				
Weight			27 kg				

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

Note 2. For the option specifications (tool flange mount type), the maximum payload becomes 4 kg.

Note 3. When moving a 1 kg load back and forth 300 mm horizontally and 25 mm vertically (rough positioning arch motion).

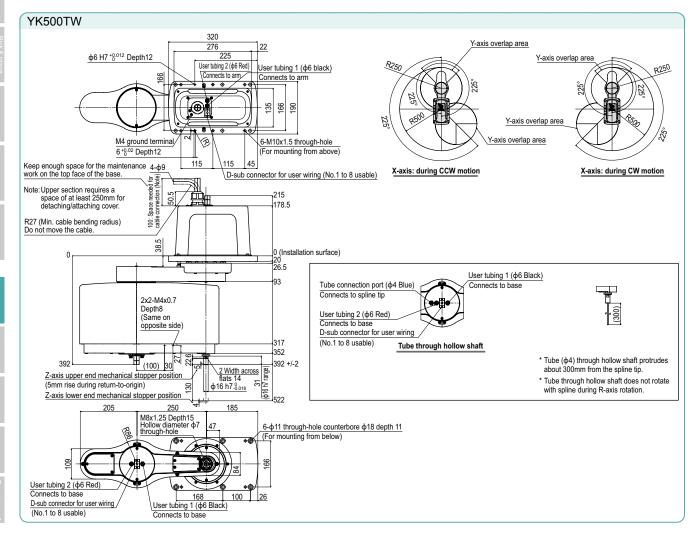
Note 4. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

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

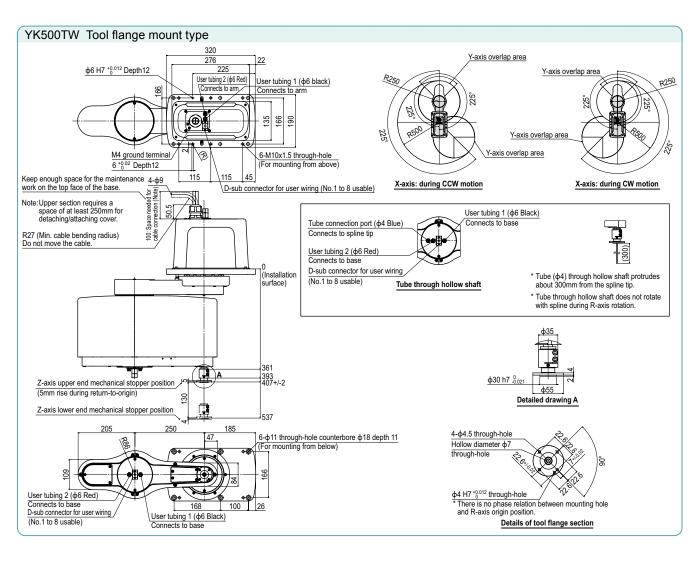
R-axis moment of inertia (load inertia) Recommended positional relationship between the load weight and the offset amount from the center of the R-axis (center of gravity position) Offset (mm) 100 60 40 Weight (kg)

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/



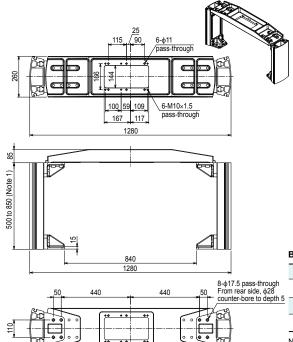
Dust-proof & drip-proof



■ Dedicated mounting bracket for the YK-TW <BASE POST ASSY.>

The YK-TW can be easily installed on top of a customer-provided stand.

External diagram for the YK500TW



The mounting bracket is assembled by the customer. Refer to the included assembly diagram for assembly.

Note 1. Identical to the height of the robot mounting surface.

The height of the stand can be selected at a 50 mm pitch.

Height (mm)	Model	Unit weight (kg)
500	KDU-M6100-P0	46
550	KDU-M6100-50	48
600	KDU-M6100-R0	50
650	KDU-M6100-60	51
700	KDU-M6100-S0	54
750	KDU-M6100-70	55
800	KDU-M6100-T0	57
850	KDU-M6100-80	59

Note. YK350TW and YK500TW are parts in common. Note. The top plate by itself weighs 19 kg.

Bolts supplied with the controller

	* * * * * * * * * * * * * * * * * * * *	
1	M16 x Pitch 2.0 x Length 45 [Hexagonal socket head bolt]	8 pcs. (For securing the installation base)
2	Washer for M16 bolt [Plate thickness 3 mm, Outside diameter φ26, Inside diameter φ16]	8 pcs.
3	M10 × Pitch 1.5 × Length 30	6 pcs. (Bolts used to secure the SCARA main body from the bottom surface.)
4	M10 × Pitch 1.5 × Length 40	6 pcs. (Bolts used to secure the SCARA main body from the top surface.)

Note. Only either 3 or 4 is used.

YK120XG

Standard type: Extra small type

Arm length 120mm
Maximum payload 1kg

■ Ordering method

YK120XG - 50

Cable

RCX340-4

Specify various controller setting items. RCX340 ▶ P.636

■ Specifications										
			X-axis	Y-axis	Z-axis	R-axis				
Axis	Arm length		45 mm	75 mm	50 mm	-				
specifications	Rotation ang	le	+/-125 °	+/-145 °	-	+/-360 °				
AC servo mot	or output		30 W	30 W	30 W	30 W				
Deceleration	Transmission	Motor to speed reducer		Direct-	coupled					
mechanism	method	Speed reducer to output		Direct-	coupled					
Repeatability	Note 1		+/-0.0)1 mm	+/-0.01 mm	+/-0.004 °				
Maximum spe	ed		3.3 n	n/sec	0.9 m/sec	1700 °/sec				
Maximum pay	load		1.0 kg							
Standard cycl	e time: with 0.1	lkg payload Note 2	0.33 sec							
R-axis tolerab	le moment of	inertia Note 3	0.01 kgm ²							
User wiring			0.1 sq × 8 wires							
User tubing (C	Outer diameter	r)	φ 4 × 2							
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)							
Robot cable le	ength		Standard: 2 m Option: 3.5 m, 5 m, 10 m							
Weight (Exclu	ding robot cal	ble) Note 4	3.9 kg							
Robot cable w	reight		0.9 kg (2 m) 1.5 kg (3.5 m) 2.1 kg (5 m) 4.2 kg (10 m)							
Note 1. This is the	value at a constar	at ambient temperature (V.V.	(avaa)	John 1. This is the value at a constant ambient temperature. (V V aves)						

■ Controller Controller | Power capacity (VA) | Operation method Programming / I/O point trace Remote command / RCX340 300 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.

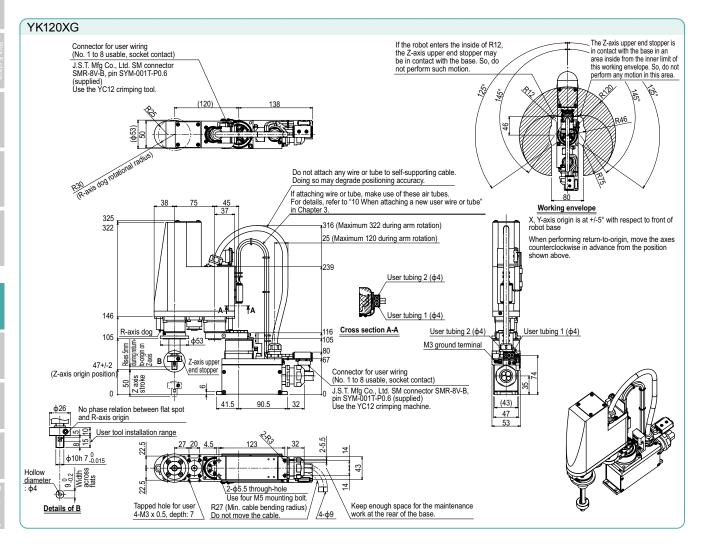
Our robot manuals (installation manuals) can be downloaded from our website at the address below https://global.yamaha-motor.com/business/robot/

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.



YK150XG

Arm length 150mm
Maximum payload 1kg

■ Ordering method

YK150XG - 50

Cable

RCX340-4

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

Standard type: Extra small type

Specifi	cations					
			X-axis	Y-axis	Z-axis	R-axis
Axis	Arm length		75 mm	75 mm	50 mm	_
specifications	Rotation ang	le	+/-125 °	+/-145 °	_	+/-360 °
AC servo mot	or output		30 W	30 W	30 W	30 W
Deceleration	Transmission	Motor to speed reducer		Direct-	coupled	•
mechanism method		Speed reducer to output		Direct-	coupled	
Repeatability Note 1			+/-0.0	+/-0.01 mm +		+/-0.004 °
Maximum spe	laximum speed		3.4 m/sec 0.9 m/sec		1700 °/sec	
Maximum pay	load		1.0 kg			
Standard cycle	e time: with 0.1	lkg payload Note 2		0.33	sec	
	le moment of			0.01	kgm²	
User wiring				0.1 sq ×	8 wires	
User tubing (C	Outer diameter	r)		ф 4	× 2	
Travel limit			1.Soft	limit 2.Mechani	cal stopper (X,Y,	Z axis)
Robot cable le	ength		Standard: 2 m Option: 3.5 m, 5 m, 10 m		0 m	
Weight (Exclu	ding robot cal	ble) Note 4	ote 4 4.0 kg			
Robot cable w	reight		0.9 kg (2 m) 1.5 kg (3.5 m) 2.1 kg (5 m) 4.2 kg (10 m)			

Contr	oller	
Controller	Power capacity (VA)	Operation method
RCX340	300	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.

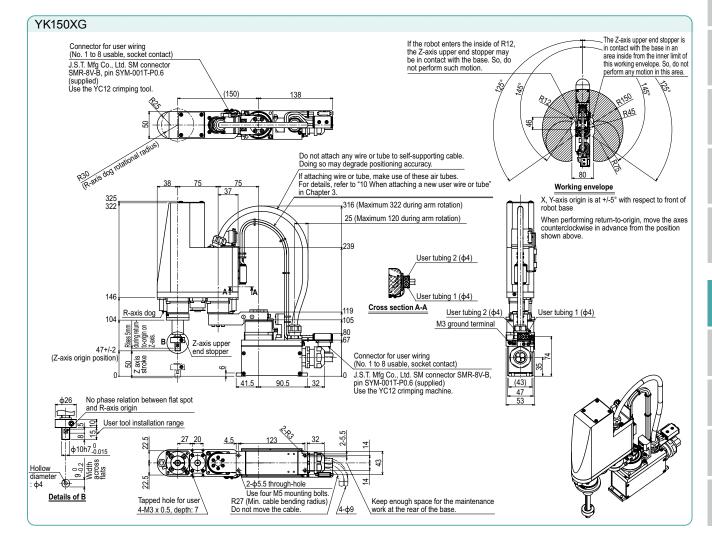
> Our robot manuals (installation manuals) can be downloaded from our website at the address below https://global.yamaha-motor.com/business/robot/

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.



YK180XG

Standard type: Extra small type

Arm length 180mm
Maximum payload 1kg

■ Ordering method

YK180XG - 50

Cable

RCX340-4

Specify various controller setting items. RCX340 ▶ P.636

■ Specifi	cations					
			X-axis	Y-axis	Z-axis	R-axis
	Arm length		105 mm	75 mm	50 mm	-
specifications	Rotation angl	е	+/-125 °	+/-145 °	-	+/-360 °
AC servo moto	or output		30 W	30 W	30 W	30 W
Deceleration	Transmission	Motor to speed reducer		Direct-	coupled	
mechanism method		Speed reducer to output	Direct-coupled			
Repeatability	Note 1		+/-0.0	1 mm	+/-0.01 mm	+/-0.004 °
Maximum spe	ed		3.3 m/sec 0.9 m/sec 1700		1700 °/sec	
Maximum pay	load		1.0 kg			
Standard cycle	e time: with 0.1	kg payload Note 2	0.33 sec			
R-axis tolerab	le moment of	inertia ^{Note 3}	0.01 kgm ²			
User wiring			0.1 sq × 8 wires			
User tubing (C	uter diameter)		ф 4	× 2	
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)			
Robot cable length			Standard: 2 m Option: 3.5 m, 5 m, 10 m			
Weight (Exclu	ding robot cal	ole) Note 4	4.1 kg			
Robot cable w	eight		0.9 kg (2 m) 1.5 kg (3.5 m)	2.1 kg (5 m) 4	2 kg (10 m)

■ Controller Controller | Power capacity (VA) | Operation method Programming / I/O point trace Remote command / RCX340 500 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.

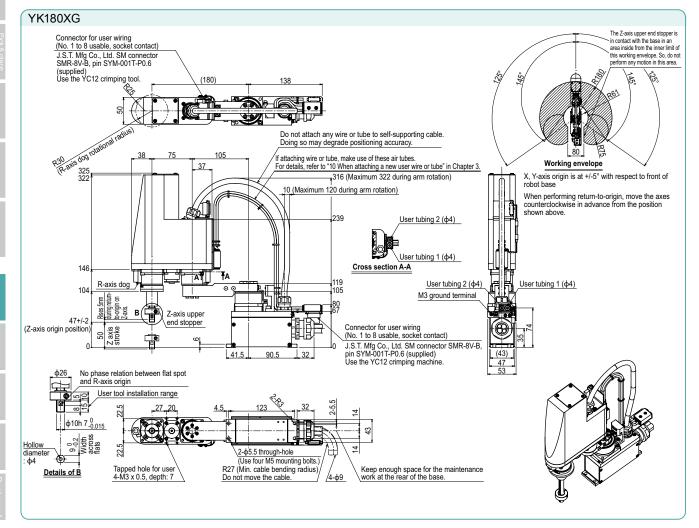
> Our robot manuals (installation manuals) can be downloaded from our website at the address below https://global.yamaha-motor.com/business/robot/

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.



Standard type: Extra small type

Arm length 180mm
Maximum payload 1kg

 Z axis stroke 100: 100mm

Cable 3L: 3.5m 5L: 5m 10L: 10m

Option B – (OP.B)

Controller

Programming /

□ Ordering method			
YK180X - 100 -	- RCX340-4 -	-	Ì

Specify various controller setting items. RCX340 ▶ P.636

			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		71 mm	109 mm	100 mm	1	
specifications Rotation ar	Rotation angl	е	+/-120 °	+/-140 °	-	+/-360 °	
AC servo moto	or output		50 W	30 W	30 W	30 W	
Deceleration Transmission		Motor to speed reducer		Direct-	coupled		
	method	Speed reducer to output	Direct-cou		oupled		
Repeatability	Note 1		+/-0.01 mm		+/-0.01 mm	+/-0.004 °	
Maximum spe	Maximum speed		3.3 m/sec 0.7 m/sec 1		1700 °/sec		
Maximum pay	load		1.0 kg				
Standard cycle	e time: with 0.1	kg payload Note 2	0.39 sec				
R-axis tolerab	le moment of	inertia Note 3		0.01	kgm²		
User wiring				0.1 sq ×	6 wires		
User tubing (C	uter diameter)		ф 3	× 2		
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)				
Robot cable le	ength		S	tandard: 3.5 m	Option: 5 m, 10 r	n	
Weight (Exclu	ding robot cal	ole) Note 4	5.5 kg				
Robot cable w	eight	Robot cable weight			1.5 kg (3.5 m) 2.1 kg (5 m) 4.2 kg (10 m)		

I/O point trace / Remote command / RCX340 500 Operation using RS-232C communication

Controller Power capacity (VA) Operation method

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

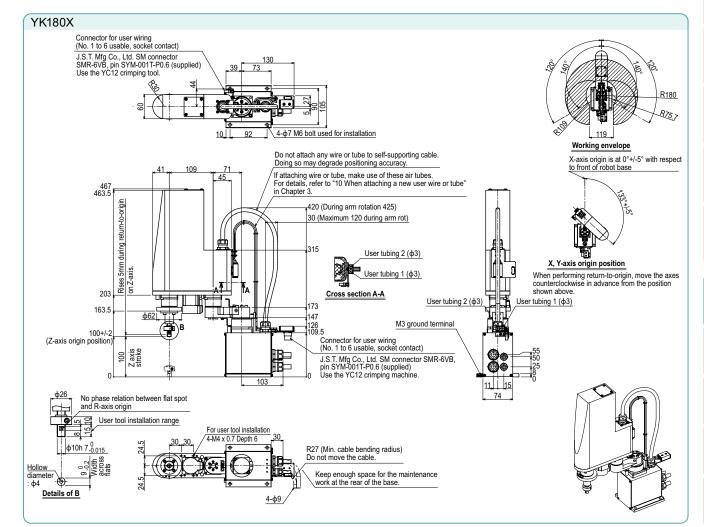
> Our robot manuals (installation manuals) can be downloaded from our website at the address below https://global.yamaha-motor.com/business/robot/

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.



YK220X

Standard type: Extra small type

Arm length 220mm
Maximum payload 1kg

■ Ordering method

YK220X-100

RCX340-4

■ Controller

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

■ Specifi	cations						
			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		111 mm	109 mm	100 mm	-	
specifications	Rotation ang	le	+/-120 °	+/-140 °	-	+/-360 °	
AC servo mot	or output		50 W	30 W	30 W	30 W	
Deceleration	Transmission	Motor to speed reducer		Direct-	coupled		
mechanism method		Speed reducer to output		Direct-	coupled		
Repeatability	Note 1		+/-0.0	1 mm	+/-0.01 mm	+/-0.004 °	
Maximum spe	ed		3.4 m/sec 0.7 m/sec 170		1700 °/sec		
Maximum pay	load		1.0 kg				
Standard cycl	e time: with 0.1	lkg payload ^{Note 2}	0.42 sec				
R-axis tolerab	le moment of	inertia ^{Note 3}	0.01 kgm²				
User wiring				0.1 sq ×	6 wires		
User tubing (C	Outer diameter	r)		ф 3	× 2		
Travel limit			1.Soft	limit 2.Mechani	cal stopper (X,Y,	Z axis)	
Robot cable le	Robot cable length			Standard: 3.5 m Option: 5 m, 10 m			
Weight (Excluding robot cable) Note 4			5.5 kg				
Robot cable w	eight .		1.5 kg (3.5 m) 2.1 kg (5 m) 4.2 kg (10 m)				
Robot cable w	eight		1.5 l	(g (3.5 m) 2.1 kg	(5 m) 4.2 kg (1	0 m)	

Controller	Power capacity (VA)	Operation method
RCX340	500	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.

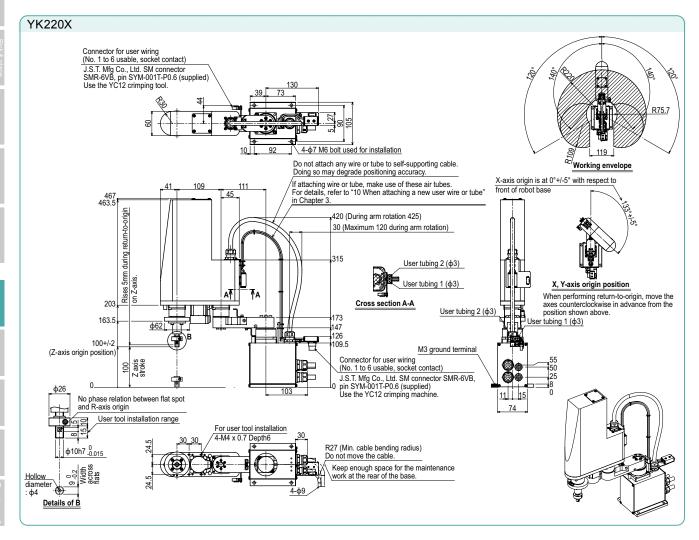
> Our robot manuals (installation manuals) can be downloaded from our website at the address below https://global.yamaha-motor.com/business/robot/

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



YK250XG Standard type: Small type

Arm length 250mm Maximum payload 5kg

■ Ordering method

YK250XG - 150

Tool flange - Hollow shaft No entry: None
F: With tool flange

No entry: None
S: With hollow shaft

Cable

RCX340-4

18.5 kg

Specify various controller setting items. RCX340 ▶ P.636

■ Specifi	cations					
			X-axis	Y-axis	Z-axis	R-axis
Axis	Arm length		100 mm	150 mm	150 mm	-
specifications Rotation a	Rotation ang	le	+/-140 °	+/-144 °	-	+/-360 °
AC servo motor output		200 W	150 W	50 W	100 W	
	Transmission	Motor to speed reducer	Direct-coupled			
	method	Speed reducer to output	Direct-coupled			
Repeatability	Note 1		+/-0.01 mm		+/-0.01 mm	+/-0.004 °
Maximum spe	ed		4.5 m/sec		1.1 m/sec	1020 °/sec
Maximum pay	load		5 kg (Standard	d specification), 4	kg (Option spec	cifications Note 4)
Standard cycl	e time: with 2k	g payload Note 2		0.43	sec	
R-axis tolerab	ole moment of	inertia Note 3		0.05 kgm² ((0.5 kgfcms²)	
User wiring			0.2 sq × 10 wires			
User tubing (0	Outer diameter	r)	φ 4 × 3			
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)			
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m			

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

Weight

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

Note 4. Maximum payload of option specifications (with tool flange attached or with user wiring and tubing routed through spline shaft) is 4kg.

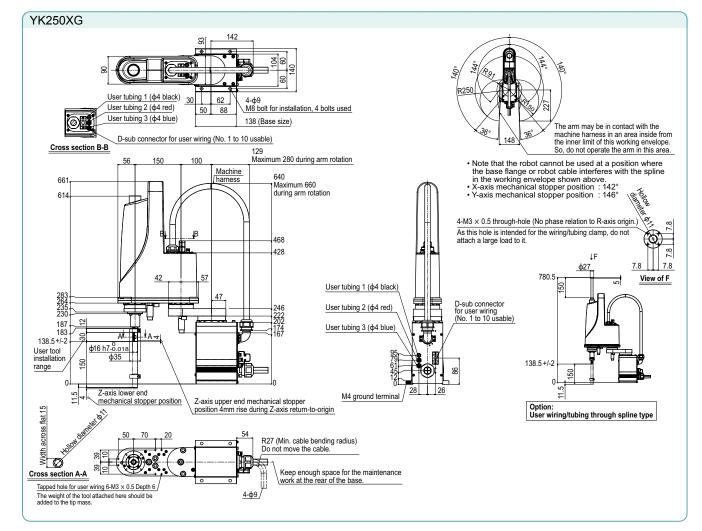
When reciprocating 300mm in horizontal and 25mm in vertical directions

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

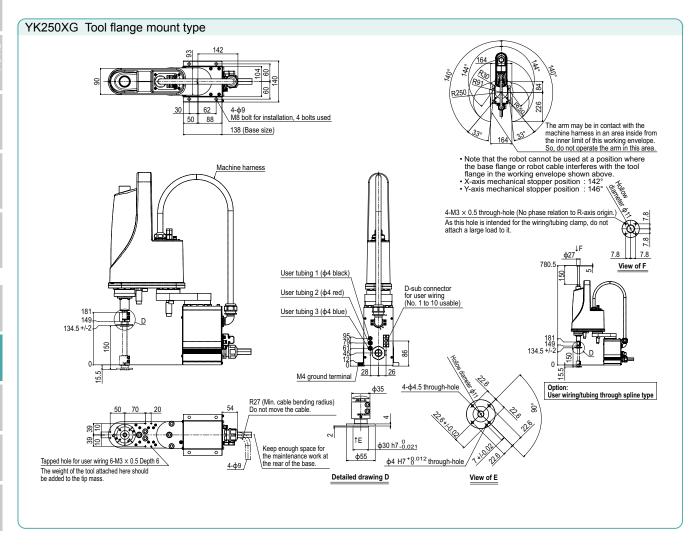
Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)
See our robot manuals (installation manuals) for detailed information.

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/



Dust-proof
t/ & drip-proof



YK350XG

Arm length 350mm Maximum payload 5kg

■ Ordering method

YK350XG - 150

Tool flange - Hollow shaft No entry: None
F: With tool flange

No entry: None
S: With hollow shaft

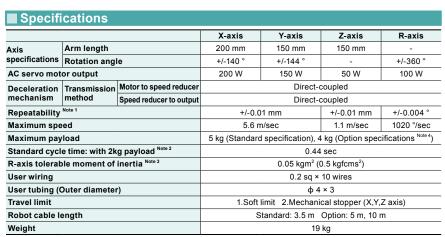
Cable

RCX340-4

Standard type: Small type

Specify various controller setting items. RCX340 ▶ P.636

RCX340 ► **636**



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. Maximum payload of option specifications (with tool flange attached or with user wiring and tubing routed through spline shaft) is 4kg.

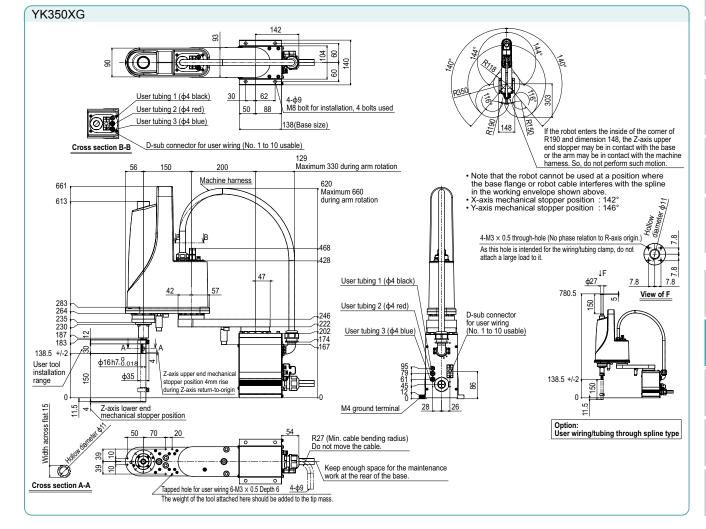
Conti	Ollei	
Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

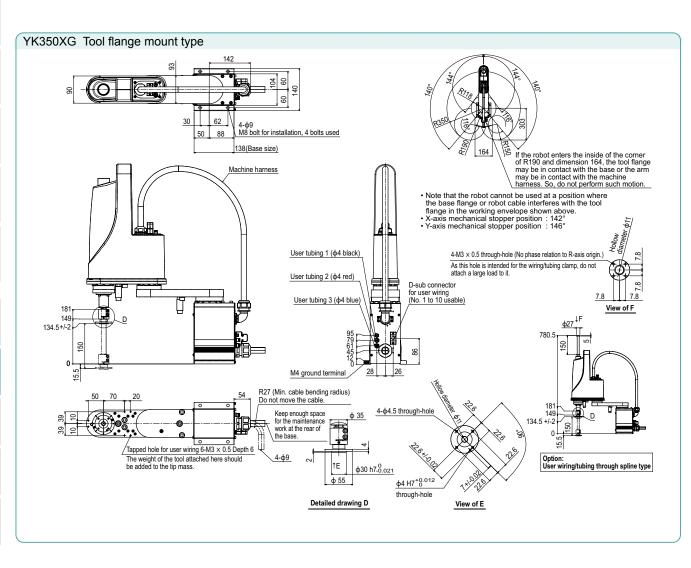
Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.) See our robot manuals (installation manuals) for detailed information.

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/







YK400XE-4

Arm length 400mm
Maximum payload 4kg

Standard type: Small type

■ LOW COST HIGH PERFORMANCE MODEL



Ordering method

YK400XE- 4

150

RCX340-4

■ Controller

RCX340

Controller Power capacity (VA) Operation method

1000

Programming / I/O point trace / Remote command /

Operation using RS-232C communication

31: 3.5m 51: 5m 101: 10m

RCX340 ▶ P.636 Specify various controller setting items.

Specific	ications						
	,		X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		225 mm	175 mm	150 mm	-	
specifications	Rotation ang	le	+/-132 °	+/-150 °	-	+/-360 °	
AC servo mot	or output		200 W	100 W	100 W	100 W	
	Transmission	Motor to speed reducer	Direct-o	coupled	Timin	ng belt	
	method	Speed reducer to output		Direct-coupled		Timing belt	
Repeatability	Repeatability Note 1		+/-0.01 mm		+/-0.01 mm	+/-0.01 °	
Maximum spe	Maximum speed		6 m.	/sec	1.1 m/sec	2600 °/sec	
Maximum pay	load		4 kg (Standard specification, Option specifications Note 4), 3 kg (Option specifications Note 5)				
Standard cycl	e time: with 2k	g payload Note 2		0.41	sec		
R-axis tolerat	ole moment of	inertia Note 3	0.05 kgm ²				
User wiring			0.2 sq × 10 wires				
User tubing (0	ser tubing (Outer diameter)			φ 4 × 3			
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)				
Robot cable le	ength		S	tandard: 3.5 m	Option: 5 m, 10	m	
Weight				17	ka		

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.

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/

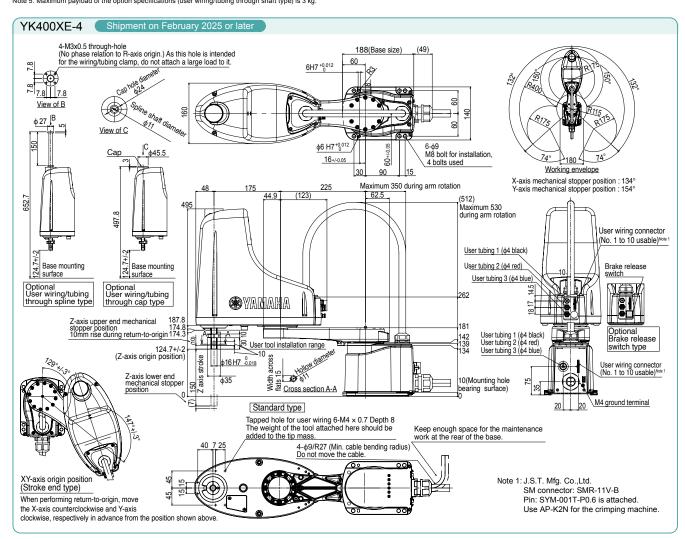
Note 1. This is the value at a constant ambient temperature. (X,Y axes)

Note 2. When reciprocating 300mm in horizontal and 25mm in vertical directions and performing the coarse positioning arch operation.

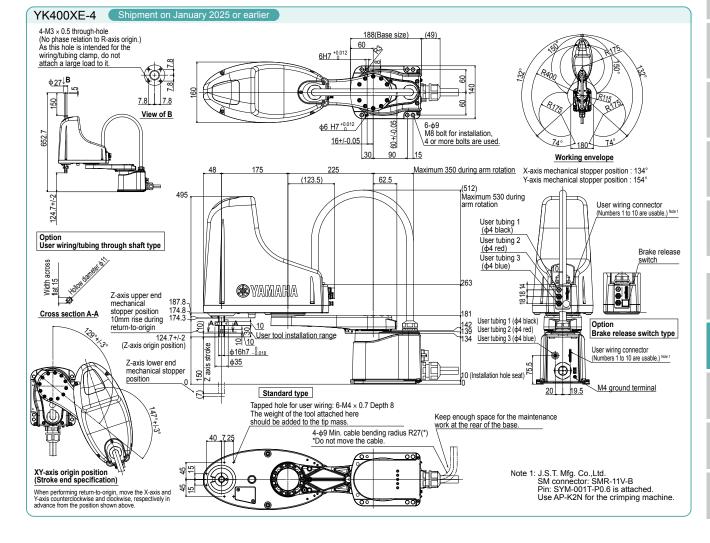
Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and offset amount for R-axis moment of inertia settings.

Note 4. Maximum payload of the standard or option specifications (brake release switch type) is 4 kg.

Note 5. Maximum payload of the option specifications (user wiring/tubing through shaft type) is 3 kg



Dust-proof & drip-proof



YK400XG

Standard type: Small type

Arm length 400mm
Maximum payload 5kg

■ Ordering method

YK400XG - 150

Tool flange - Hollow shaft No entry: None
F: With tool flange
S: With hollow shaft

RCX340-4

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

■ Specifi	cations					
			X-axis	Y-axis	Z-axis	R-axis
Axis	Arm length		250 mm	150 mm	150 mm	-
specifications	Rotation angl	е	+/-140 °	+/-144 °	-	+/-360 °
AC servo motor output			200 W	150 W	50 W	100 W
mechanism me	Transmission	Motor to speed reducer		Direct-coupled		
	method	Speed reducer to output	Direct-co		oupled	
Repeatability Note 1			+/-0.01 mm		+/-0.01 mm	+/-0.004 °
Maximum spe	ed		6.1 m/sec 1.1 m/sec		1.1 m/sec	1020 °/sec
Maximum pay	load		5 kg (Standard	specification), 4	kg (Option spec	cifications Note 4)
Standard cycl	e time: with 2k	g payload ^{Note 2}	0.45 sec			
R-axis tolerab	le moment of	inertia Note 3		0.05 kgm² (0	0.5 kgfcms ²)	
User wiring			0.2 sq × 10 wires			
User tubing (C	Outer diameter	.)		ф 4	× 3	
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)			
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m			
Weight				19.5	5 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.

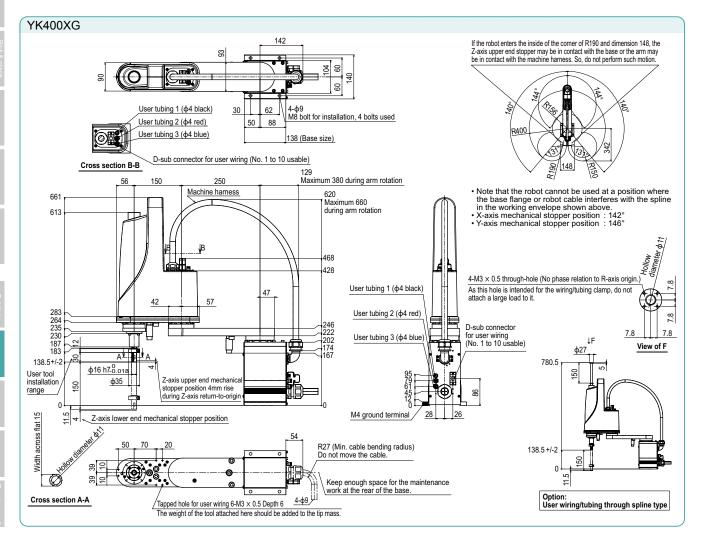
Note 4. Maximum payload of option specifications (with tool flange attached or with user wiring and tubing routed through spline shaft) is 4kg.

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

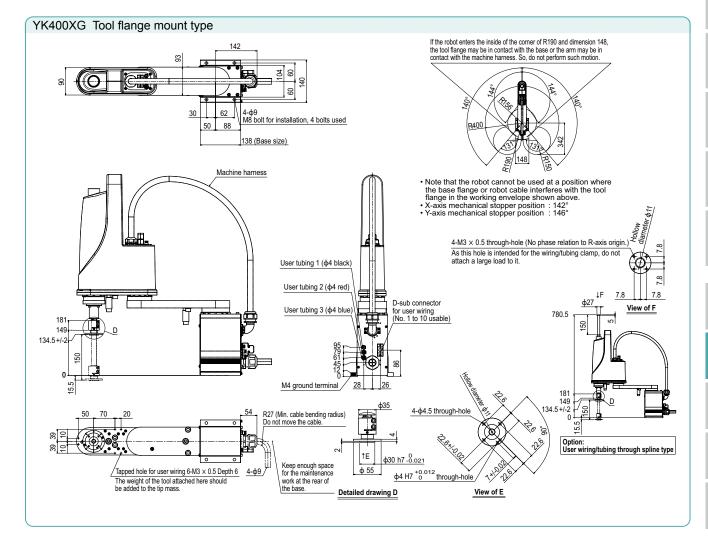
Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)
See our robot manuals (installation manuals) for detailed information.

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/



& drip-proof



YK500XG

Arm length 500mm
Maximum payload 5kg

■ Ordering method

YK500XGL-150

Tool flange - Hollow shaft No entry: None
F: With tool flange
S: With hollow shaft

RCX340-4 Cable

Standard type: Medium type

■ Controller

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

■ Specifi	cations						
			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		250 mm	250 mm	150 mm	-	
specifications	Rotation angl	е	+/-140 °	+/-144 °	-	+/-360 °	
AC servo moto	or output		200 W	150 W	50 W	100 W	
Deceleration	Transmission	Motor to speed reducer		Direct-o	coupled		
mechanism	method	Speed reducer to output	Direct-coupled				
Repeatability	Note 1		+/-0.01 mm +/-0.01 mm		+/-0.004 °		
Maximum spe	ed		5.1 m/sec 1.1 m/sec 1020 °/se			1020 °/sec	
Maximum pay	load		5 kg (Standard specification), 4 kg (Option specifications Note 4)				
Standard cycle	e time: with 2k	g payload ^{Note 2}	0.48 sec				
R-axis tolerab	le moment of	inertia ^{Note 3}	0.05 kgm² (0.5 kgfcms²)				
User wiring			0.2 sq × 10 wires				
User tubing (C	Outer diameter)	ф 4 × 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				21	kg		

Programming / I/O point trace Remote command / RCX340 1000 Operation using RS-232C communication

Controller Power capacity (VA) Operation method

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.

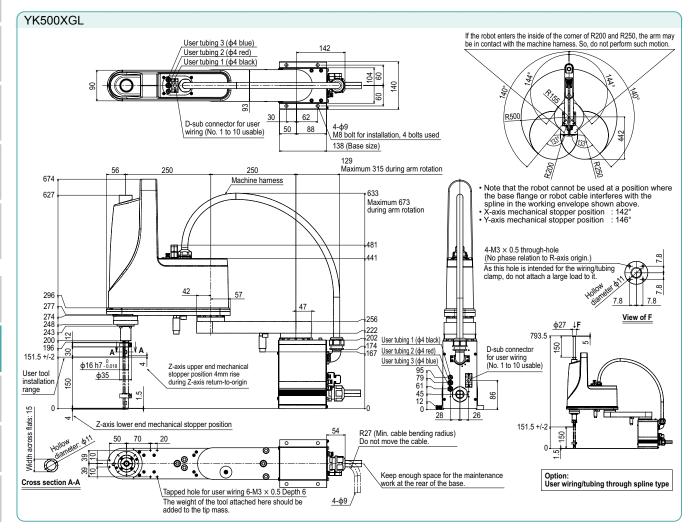
Our robot manuals (installation manuals) can be downloaded from our website at the address below: https://global.yamaha-motor.com/business/robot/

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

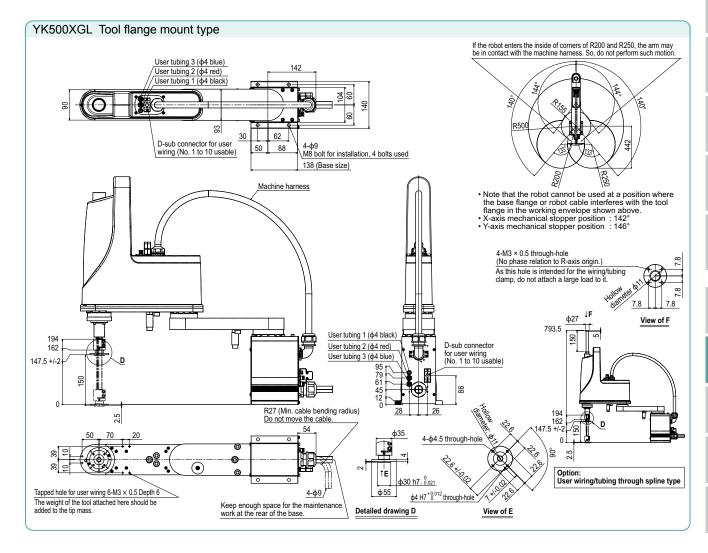
Note 2. When reciprocating 300mm in horizontal and 25mm in vertical directions

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

Note 4. Maximum payload of option specifications (with tool flange attached or with user wiring and tubing routed through spline shaft) is 4kg.



Dust-proof & drip-proof



YK500XG

Arm length 500mm
Maximum payload 10kg

Ordering method

YK500XG

Z axis stroke - Tool flange 200: 200mm No entry: None S: With tool flange

Cable 3L: 3.5m

RCX340-4

Standard type: Medium type

■ Controller

RCX340

Programming / I/O point trace Remote command /

Operation using RS-232C communication

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

■ Specifi	■ Specifications					
			X-axis	Y-axis	Z-axis	R-axis
Axis Arm length specifications Rotation angle			200 mm	300 mm	200 mm 300 mm	-
		+/-130 °	+/-145 °	-	+/-360 °	
AC servo motor output			400 W	200 W	200 W	200 W
Deceleration Transmission Motor to speed reducer			Direct-	coupled		
	ism method Speed reducer to output		Direct-	t-coupled		
Repeatability Note 1			+/-0.01 mm		+/-0.01 mm	+/-0.004 °
Maximum spe	ed		7.6 m/sec 2.3 m/sec 1.7 m/sec 1700		1700 °/sec	
Maximum pay	load		10 kg (Standard type), 9 kg (Tool flange mount type)			
Standard cycle	e time: with 2k	g payload ^{Note 2}	0.42 sec			
R-axis tolerab	le moment of	inertia ^{Note 3}	0.30 kgm ²			
User wiring			0.2 sq × 20 wires			
User tubing (C	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 m, 10 m			
Weight			30 kg			

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

Controller | Power capacity (VA) | Operation method

1700

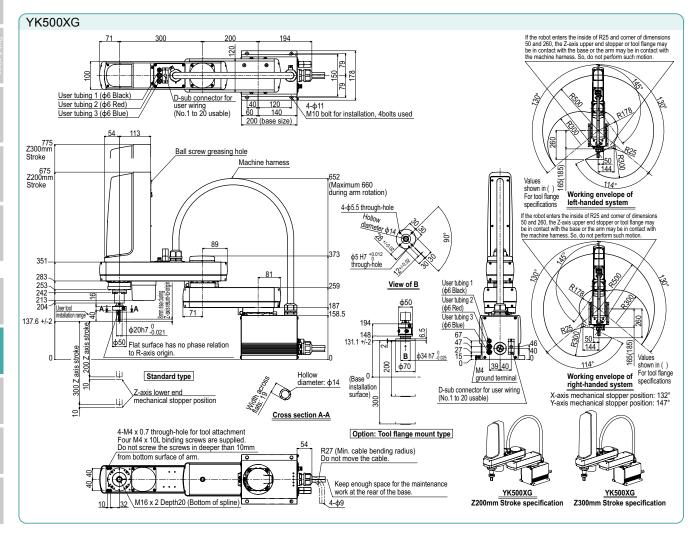
information. Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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

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



YK510XE- 10 -200

Maximum Z axis payload stroke

YK510XE-10

No entry: None
F: With tool flange
No entry: None
S: With hollow shaft
C: With hollow cap

No entry: None BS: With brake release switch

RCX340-4 Cable

Specify various controller setting items. RCX340 ▶ P.636

	Power capacity (VA)	Operation metho
RCX340	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 with high accuracy.

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/

Specific	ications					
			X-axis	Y-axis	Z-axis	R-axis
Axis Arm length			235 mm	275 mm	200 mm	-
specifications	Rotation angl	le	+/-134 °	+/-152 °	-	+/-360°
AC servo motor output		400 W	200 W	200 W	200 W	
2000.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.		Motor to speed reducer	Direct-o	coupled	Timin	g 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 pay	load		10 kg (Standard specification, Option specifications Note 4), 9 kg (Option specifications Note 5)			
Standard cycl	e time: with 2k	g payload Note 2	0.38 sec			
R-axis tolerat	le moment of	inertia Note 3	0.3 kgm ²			
User wiring			0.2 sq × 20 wires			
User tubing (0	Duter diameter	r)	ф 6 × 3			
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)			
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m			
Weight			25 kg			

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

Note 2. When reciprocating 300mm in horizontal and 25mm in vertical directions and performing the coarse positioning arch operation.

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. Maximum payload of the standard or option specifications (brake release switch type, user wiring/tubing through cap type) is 10 kg.

Note 5. Maximum payload of the option specifications (tool flange mount type, user wiring/tubing through shaft type) is 9 kg.

YK510XE-10
A-4.6 x of through-hole wiring tubing annual to a large load to it. A-4.6 x of through-hole wiring tubing annual to it.
4-69 Min. cable bending radius R27(*) To Raxis origin. Hollow diameter of the base. A2.5 25 12 A2.5 25 12 Work at the rear of the base. Note 1: J.S.T. MFG. CO., LTD. SM connector: SMR-9V-B Note 2: J.S.T. MFG. CO., LTD. SM connector: SMR-12V-B Common to Notes 1 and 2.
Option: Tool flange mount type Wiew of C View of C

RCX340 ► **636**

93

YK600XG

Standard type: Medium type

Arm length 600mm
Maximum payload 5kg

■ Ordering method

YK600XGL-150

Z axis stroke - Tool flange - Hollow shaft - Cable No entry: None
F: With tool flange
S: With hollow shaft

RCX340-4

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

■ Specifi	■ Specifications						
			X-axis	Y-axis	Z-axis	R-axis	
Axis Arm length		350 mm	250 mm	150 mm	-		
specifications	specifications Rotation angle		+/-140 °	+/-144 °	-	+/-360 °	
AC servo motor output			200 W	150 W	50 W	100 W	
Deceleration Transmission Motor to speed reducer			Direct-o	coupled			
mechanism	mechanism method Speed reducer to output			Direct-o	coupled		
Repeatability Note 1			+/-0.01 mm		+/-0.01 mm	+/-0.004 °	
Maximum spe	ed		4.9 m/sec 1.1 m/sec 1020 °/se			1020 °/sec	
Maximum pay	load		5 kg (Standard specification), 4 kg (Option specifications Note 4)				
Standard cycle	e time: with 2k	g payload Note 2	0.54 sec				
R-axis tolerab	le moment of	inertia ^{Note 3}	0.05 kgm² (0.5 kgfcms²)				
User wiring			0.2 sq × 10 wires				
User tubing (C	Outer diameter	r)	φ 4 × 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			22 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. Maximum payload of option specifications (with tool flange attached or with user wiring and tubing routed through spline shaft) is 4kg

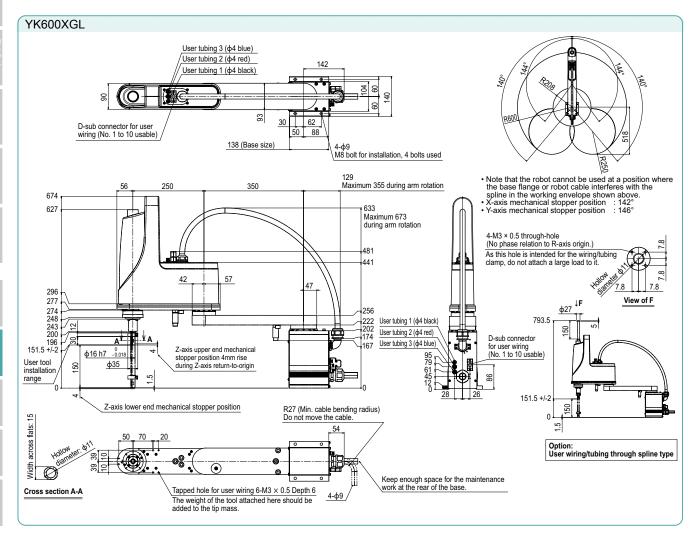
■ Control	oller	
Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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.)

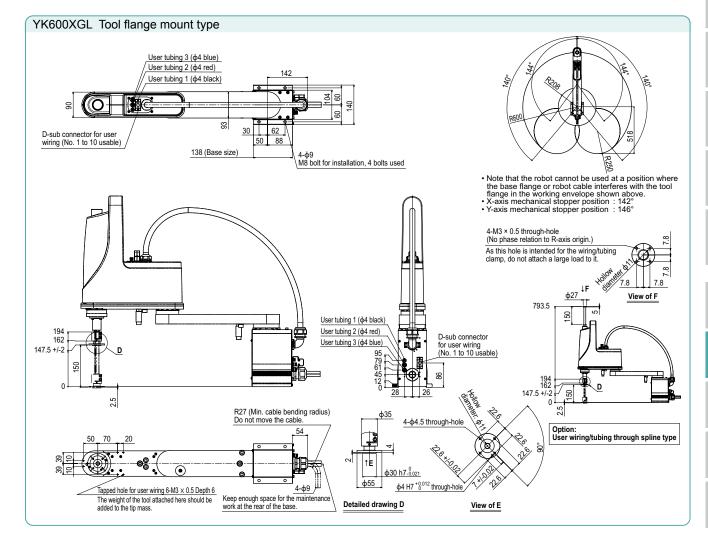
See our robot manuals (installation manuals) for detailed information.

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/



95 |



YK600XG

Standard type: Medium type

Arm length 600mm
Maximum payload 10kg

■ Ordering method

YK600XG

Z axis stroke - Tool flange 200: 200mm No entry: None S: With tool flange

Cable 3L: 3.5m

RCX340-4

Option B (OP.B)

■ Controller

RCX340

Programming / I/O point trace Remote command /

Operation using RS-232C communication

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

Specifi	cations						
			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		300 mm	300 mm	200 mm 300 mm	-	
specifications	Rotation angl	е	+/-130 °	+/-145 °	_	+/-360 °	
AC servo motor output		400 W	200 W	200 W	200 W		
Deceleration Transmission Motor to speed reducer			Direct-	coupled			
mechanism method Speed reducer to output		Direct-coupled					
Repeatability Note 1		+/-0.01 mm +/-0.01 mm		+/-0.01 mm	+/-0.004 °		
Maximum speed			8.4 m/sec 2.3 m/sec 1.7 m/sec 1700 °/se			1700 °/sec	
Maximum pay	load		10 kg (Standard type), 9 kg (Tool flange mount type)				
Standard cycle	e time: with 2k	g payload ^{Note 2}	0.43 sec				
R-axis tolerab	le moment of	inertia ^{Note 3}	0.30 kgm ²				
User wiring			0.2 sq × 20 wires				
User tubing (C	Outer diameter	·)	ф 6 × 3				
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)				
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m				
Weight				31	kg	·	

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

Controller | Power capacity (VA) | Operation method

1700

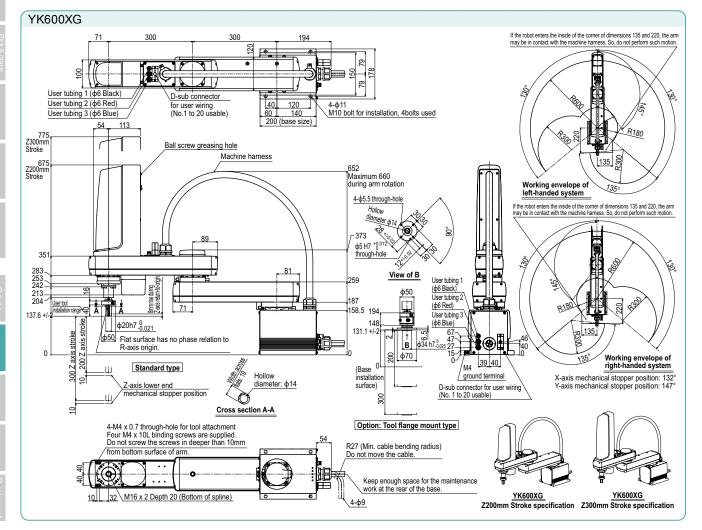
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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

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



Arm length 610mm
Maximum payload 10kg

■ Ordering method

YK610XE - 10 -200

YK610XE-10

No entry: None
F: With tool flange
No entry: None
S: With hollow shaft
C: With hollow cap

No entry: None BS: With brake release switch

RCX340-4

Specify various controller setting items. RCX340 ▶ P.636

Cont	Controller						
Controller Power capacity (VA) Operation meth							
RCX340	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 with high accuracy.

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/

■ Specif	ications					
			X-axis	Y-axis	Z-axis	R-axis
Axis Arm length			335 mm	275 mm	200 mm	-
specifications	ecifications Rotation angle		+/-134 °	+/-152 °	-	+/-360 °
AC servo motor output		400 W	200 W	200 W	200 W	
Deceleration Transmission Motor to speed reducer		Direct-	coupled	Timin	ng belt	
mechanism	mechanism method Speed reduc			Direct-coupled		
Repeatability Note 1		+/-0.01 mm		+/-0.01 mm	+/-0.01 °	
Maximum spe	ed		8.6 m/sec		2 m/sec	2600 °/sec
Maximum pay	load		10 kg (Standard specification, Option specifications Note 4), 9 kg (Option specifications Note 5)			
Standard cycl	e time: with 2k	g payload Note 2	0.39 sec			
R-axis toleral	ole moment of	inertia Note 3	0.3 kgm ²			
User wiring			0.2 sq × 20 wires			
User tubing (0	Outer diamete	r)	ф 6 × 3			
Travel limit		1.Soft limit 2.Mechanical stopper (X,Y,Z axis)				
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m			
Weight			25 kg			

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

Note 2. When reciprocating 300mm in horizontal and 25mm in vertical directions and performing the coarse positioning arch operation.

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. Maximum payload of the standard or option specifications (brake release switch type, user wiring/tubing through cap type) is 10 kg.

Note 5. Maximum payload of the option specifications (tool flange mount type, user wiring/tubing through shaft type) is 9 kg.

RCX340 ► **636**

YK600XG

Standard type: Medium type

Arm length 600mm
Maximum payload 20kg

■ Ordering method

YK600XGH

Tool flange No entry: None F: With tool flange

Cable : 3.5m

RCX340-4

■ Controller

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

■ Specifi	cations						
			X-axis	Y-axis	Z-axis	R-axis	
Axis	Axis Arm length specifications Rotation angle		200 mm	400 mm	200 mm 400 mm	-	
specifications Rotation angle		+/-130 °	+/-150 °	-	+/-360 °		
AC servo motor output			750 W	400 W	400 W	200 W	
Deceleration Transmission Motor to speed reducer			Direct-	coupled			
mechanism method Speed reducer to output			Direct-coupled				
Repeatability Note 1			+/-0.02 mm		+/-0.01 mm	+/-0.004 °	
Maximum spe	ed		7.7 m/sec 2.3 m/sec 1.7 m/sec 920 °/se			920 °/sec	
Maximum pay	load		20 kg (Standard type), 19 kg (Tool flange mount type)				
Standard cycl	e time: with 2k	g payload Note 2	0.47 sec				
R-axis tolerab	le moment of	inertia ^{Note 3}	1.0 kgm ²				
User wiring			0.2 sq × 20 wires				
User tubing (C	Outer diameter	.)	φ6×3				
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)				
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m				
Weight			Z axis 200 mm: 48 kg Z axis 400 mm: 50 kg				

Controller | Power capacity (VA) | Operation method Programming / I/O point trace Remote command / RCX340 2500 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

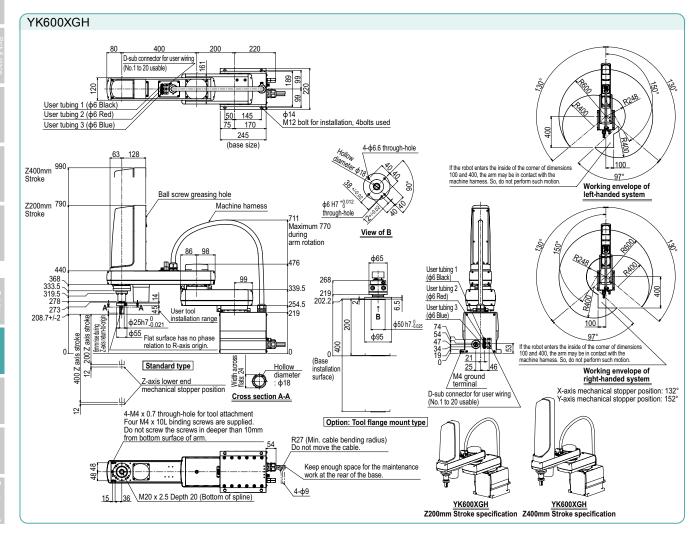
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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

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.



YK700XG

Arm length 700mm Maximum payload 10kg

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

Standard type: Large type

Ordering method

RCX340-4 YK700XGL Tool flange Cable No entry: None F: With tool flange 5L: 5m 10L: 10m Specify various controller setting items. RCX340 ▶ **P.636**

Specifi	cations					
			X-axis	Y-axis	Z-axis	R-axis
Axis	Arm length		400 mm	300 mm	200 mm 300 mm	-
specifications	Rotation angl	е	+/-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 spe	ed		9.2 n	n/sec	2.3 m/sec 1.7 m/sec	1700 °/sec
Maximum pay	load		10 kg (Standard type), 9 kg (Tool flange mount type)			
Standard cycl	e time: with 2k	g payload ^{Note 2}	0.50 sec			
R-axis tolerab	le moment of	inertia ^{Note 3}	0.30 kgm²			
User wiring			0.2 sq × 20 wires			
User tubing (C	Outer diameter	.)	ф6 × 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.

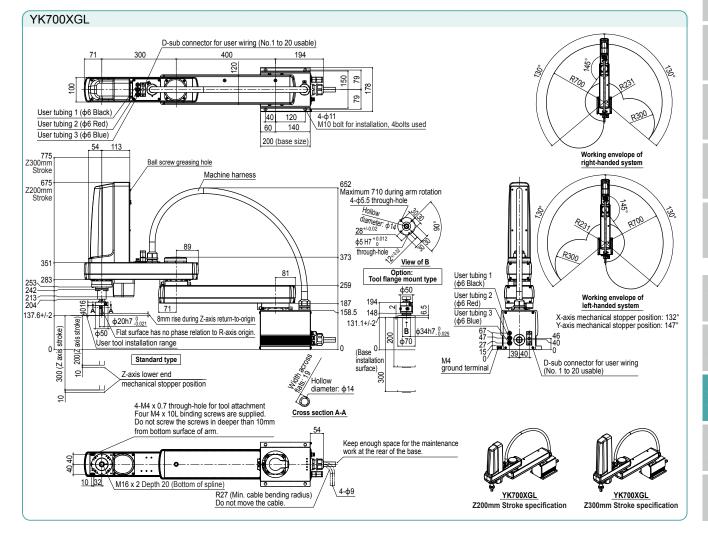
Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings

	■ Controller							
ĺ	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 https://global.yamaha-motor.com/business/robot/



Standard type: Large type LOW COST HIGH PERFORMANCE MODEL

Arm length 710mm
Maximum payload 10kg

Ordering method

YK710XE - 10 - 200

No entry: None F: With tool flange

entry: None

No entry: None BS: With brake release switch

RCX340-4

■ Controller

Specify various controller setting items. RCX340 ▶ P.636

■ Specifi	cations						
			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		435 mm	275 mm	200 mm	-	
specifications	Rotation angl	е	+/-134 °	+/-152 °	-	+/-360 °	
AC servo mot	or output		400 W	200 W	200 W	200 W	
Deceleration	Transmission	Motor to speed reducer	Direct-o	coupled	Timin	ng belt	
mechanism	method	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		2 m/sec	2600 °/sec	
Maximum payload		10 kg (Standard specification, Option specifications Note 4), 9 kg (Option specifications Note 5)					
Standard cycl	e time: with 2k	g payload ^{Note 2}	0.42 sec				
R-axis tolerab	le moment of	inertia ^{Note 3}	0.3 kgm ²				
User wiring			0.2 sq × 20 wires				
User tubing (C	Outer diameter	•)	ф 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			26 kg				

Programming / I/O point trace Remote command / RCX340 1700 Operation using RS-232C communication

Controller Power capacity (VA) Operation method

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/

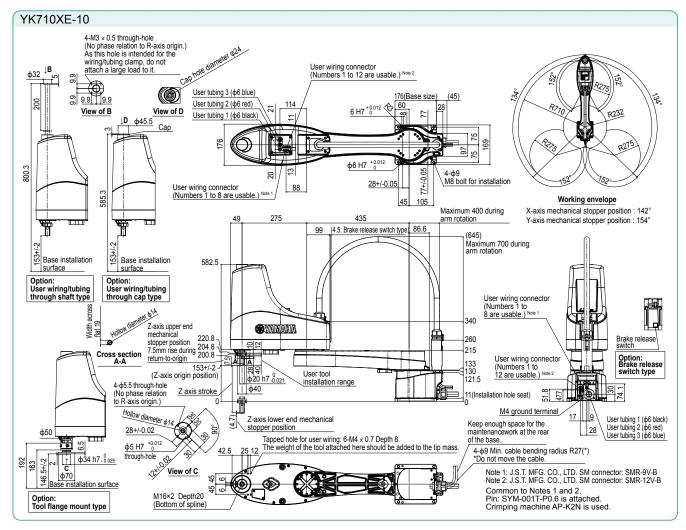
Note 1. This is the value at a constant ambient temperature. (X,Y axes)

Note 2. When reciprocating 300mm in horizontal and 25mm in vertical directions and performing the coarse positioning arch operation.

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. Maximum payload of the standard or option specifications (brake release switch type, user wiring/tubing through cap type) is 10 kg.

Note 5. Maximum payload of the option specifications (tool flange mount type, user wiring/tubing through shaft type) is 9 kg.



YK700XC

Arm length 700mm Maximum payload 20kg

Ordering method

YK700XG

Robot cable length

Weight

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

RCX340-4

Specify various controller setting items. RCX340 ▶ P.636

Standard: 3.5 m Option: 5 m, 10 m

Z axis 200 mm: 50 kg $\,$ Z axis 400 mm: 52 kg

Specifi	cations					
_ орссии	Cations		X-axis	Y-axis	Z-axis	R-axis
			A-axis	1-axis	Z-axis	K-axis
Axis	Arm length		300 mm	400 mm	200 mm 400 mm	-
specifications	ons Rotation angle		+/-130 °	+/-150 °	-	+/-360 °
AC servo mot	servo motor output 750 W 400 W 400 W		200 W			
Deceleration	Transmission	Motor to speed reducer	Direct-coupled			
mechanism	method	Speed reducer to output	Direct-coupled			
Repeatability	Note 1		+/-0.0)2 mm	+/-0.01 mm +/-0.004 °	
Maximum spe	ed		8.4 m/sec 2.3		2.3 m/sec 1.7 m/sec	920 °/sec
Maximum pay	load		20 kg (Standard type), 19 kg (Tool flange mount type)			
Standard cycl	e time: with 2k	g payload Note 2	0.42 sec			
R-axis tolerable moment of inertia Note 3			1.0 kgm²			
User wiring			0.2 sq × 20 wires			
User tubing (Outer diameter)			ф 6 × 3			
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)			

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					

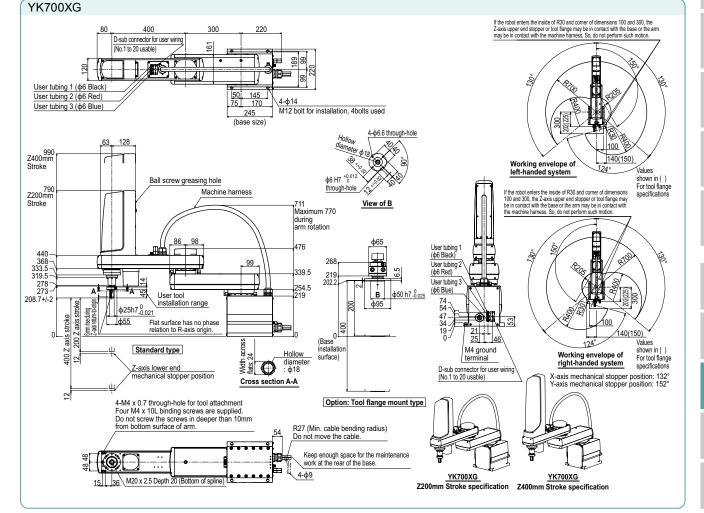
Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)

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.

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



YK800XG

Standard type: Large type

Arm length 800mm
Maximum payload 20kg

■ Ordering method

YK800XG

Tool flange No entry: None F: With tool flange

RCX340-4 Cable

Safety – Option A – Option B – standard (OP.A) (OP.B)

3L: 3.5m Specify various controller setting items. RCX340 ▶ **P.636**

■ Specifications						
			X-axis	Y-axis	Z-axis	R-axis
Axis	Arm length		400 mm	400 mm	200 mm 400 mm	-
specifications	Rotation angl	е	+/-130 °	+/-150 °	_	+/-360 °
AC servo moto	or output		750 W	400 W	400 W	200 W
Deceleration	Transmission	Motor to speed reducer		Direct-o	coupled	
mechanism	method	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 920 °/			920 °/sec
Maximum pay	load		20 kg (Standard type), 19 kg (Tool flange mount type)			
Standard cycle	e time: with 2k	g payload ^{Note 2}		0.48	sec	
R-axis tolerab	le moment of	inertia ^{Note 3}		1.0 k	kgm²	
User wiring			0.2 sq × 20 wires			
User tubing (C	Outer diameter	.)	ф 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			

■ Controller Controller | Power capacity (VA) | Operation method Programming / I/O point trace Remote command / RCX340 2500 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

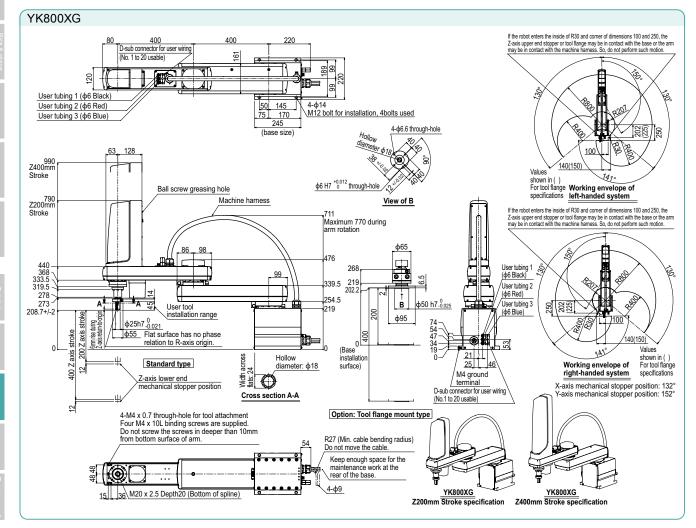
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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

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.



YK900XG

Arm length 900mm Maximum payload 20kg ■ Ordering method

YK900XG

200: 200mm No entry: None 400: 400mm F: With tool flange

Tool flange Cable 3L: 3.5m 5L: 5m 10L: 10m

RCX340-4

Specify various controller setting items. RCX340 ▶ P.636

■ Specifications						
			X-axis	Y-axis	Z-axis	R-axis
Axis	Arm length		500 mm	400 mm	200 mm 400 mm	-
specifications	Rotation angle		+/-130 °	+/-150 °	-	+/-360 °
AC servo mot	or output		750 W	400 W	400 W	200 W
Deceleration Transmissio		Motor to speed reducer		Direct-	coupled	
mechanism	method	Speed reducer to output		Direct-coupled		
Repeatability Note 1			+/-0.02 mm		+/-0.01 mm	+/-0.004 °
Maximum speed			9.9 n	n/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	e time: with 2k	g payload ^{Note 2}		0.49	sec	
R-axis tolerab	le moment of	inertia ^{Note 3}		1.0	kgm²	
User wiring			0.2 sq × 20 wires			
User tubing (C	Outer diameter)	ф 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: 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				

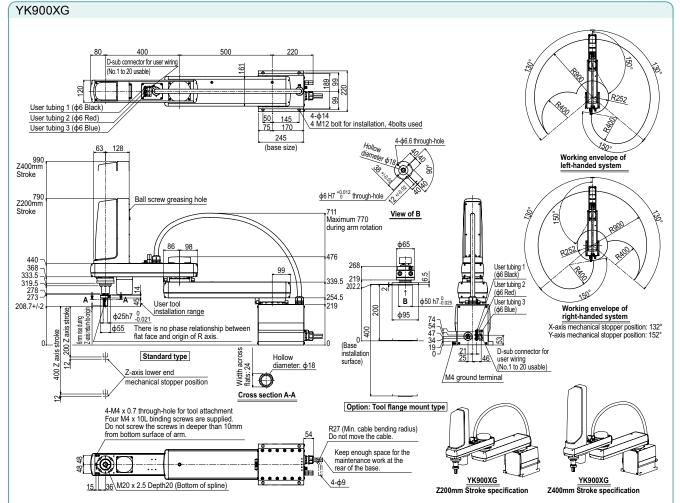
Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)

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.

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



YK1000XG

Standard type: Large type

Arm length 1000mm
Maximum payload 20kg

Ordering method

YK1000XG

Tool flange Cable No entry: None F: With tool flange 3L: 3.5m

RCX340-4

Safety - Option A - Option B - standard (OP.A) (OP.B)

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

■ Specifications						
			X-axis	Y-axis	Z-axis	R-axis
Axis	Arm length		600 mm	400 mm	200 mm 400 mm	-
specifications	Rotation angl	е	+/-130 °	+/-150 °	-	+/-360 °
AC servo moto	or output		750 W	400 W	400 W	200 W
Deceleration	Transmission	Motor to speed reducer		Direct-o	coupled	
mechanism	method	Speed reducer to output	Direct-coupled			
Repeatability Note 1			+/-0.02 mm		+/-0.01 mm	+/-0.004 °
Maximum speed			10.6 m/sec 2.3 m/sec 1.7 m/sec 920 °/			920 °/sec
Maximum pay	load		20 kg (Standard type), 19 kg (Tool flange mount type)			
Standard cycle	e time: with 2k	g payload ^{Note 2}		0.49	sec	
R-axis tolerab	le moment of	inertia ^{Note 3}		1.0 k	kgm²	
User wiring			0.2 sq × 20 wires			
User tubing (C	Outer diameter	.)	ф 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: 56 kg Z axis 400 mm: 58 kg			

■ Controller Controller | Power capacity (VA) | Operation method Programming / I/O point trace Remote command / RCX340 2500 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.

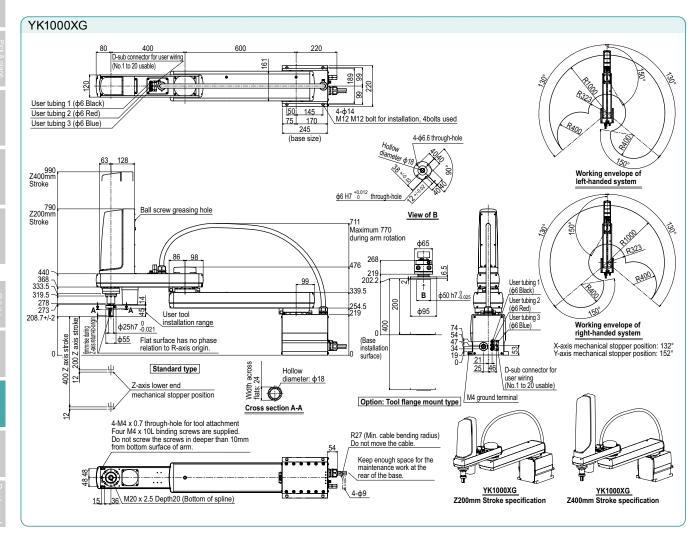
Our robot manuals (installation manuals) can be downloaded from our website at the address below: https://global.yamaha-motor.com/business/robot/

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.



YK1200X

Programming / I/O point trace / Remote command / Operation

using RS-232C communication

■ Ordering method

YK1200X - 400 Model – Z axis stroke

RCX340-4 Cable 3L: 3.5m 5L: 5m 10L: 10m

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

Specifi	cations						
			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		600 mm	600 mm	400 mm	-	
specifications	Rotation ang	le	+/-125 °	+/-150 °	-	+/-180 °	
AC servo mot	or output		900 W	800 W	600 W	400 W	
Deceleration mechanism			Direct-	Direct-coupled		Timing belt transmission	
mechanism	method	Speed reducer to output	Direct-	coupled	Direct-coupled	Direct-coupled	
Repeatability	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 tolerab	le moment of	inertia Note 3	2.45 kgm²				
User wiring			0.2 sq × 20 wires				
User tubing (Outer diameter)		ф 6 × 3					
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)				
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m				
Weight			124 kg				

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.

Controller Power capacity (VA) Operation method

2500

■ Controller

RCX340

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

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.

YK1200X	
User tubing 3 (\$\phi 6\$ Blue)	Aux. shaft fixing plate 40 (Use when tightening the lower M16 screw) Spline shaft (Hollow) Hollow diameter: \$\phi 12\$ \[\frac{0.01}{425} \frac{0.01}{0.02} \] M16 x 2 Depth25 Working envelope Working envelope
Ball screw greasing hole 2 x 2-M4 x 0.7 Depth 10 (Same on opposite side) 381+/-2 M16 x 2 Depth 25	X and Y axes mechanical stopper positions 542.3 R35 (Min. cable bending radius) Do not move the cable. M4 ground terminal User tubing 1 (\$\phi 6\$ Black) User tubing 2 (\$\phi 6\$ Red) User tubing 3 (\$\phi 6\$ Blue) User tubing 3 (\$\phi 6\$ Blue) No. 1 to 20 usable) Keep enough space for the maintenance work at the rear of the base.

YK1200XG

Arm length 1200mm
Maximum payload 50kg

■ Ordering method

YK1200XG-400

Z axis stroke

Tool flange User Wiring No entry: None F: With tool No entry: None UW: User

Cable

RCX341-4

Standard type: Large type

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

■ Specifications							
			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		600 mm	600 mm	400 mm	-	
specifications	Rotation angl	е	+/-130 °	+/-150 °	+/-360 °	+/-360 °	
AC servo motor output			950 W	400 W	750 W	400 W	
Deceleration	Transmission Motor to speed reducer			Direct-o	coupled		
mechanism	hanism method Speed reducer to output Direct			Direct-o	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 tolerab	le moment of	inertia Note 3	2.45 kgm ²				
User wiring			0.2 sq × 12 wires				
User tubing (Outer diameter)			ф 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		

■ Controller Controller | Power capacity (VA) | Operation method Programming / I/O point trace Remote command / RCX341 2500 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.

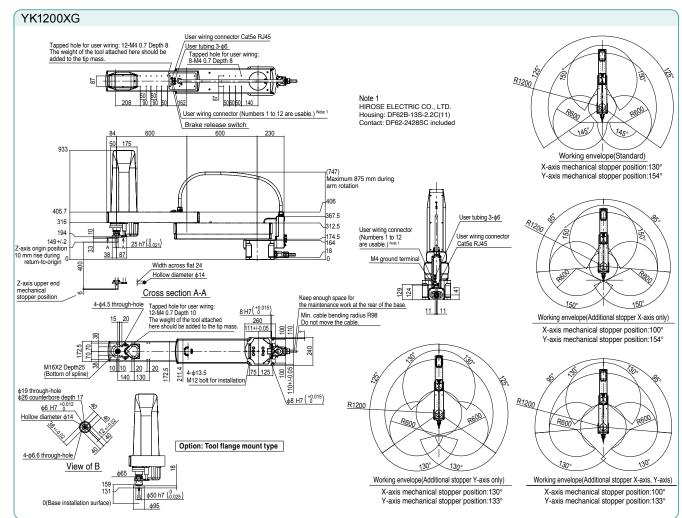
> Our robot manuals (installation manuals) can be downloaded from our website at the address below: https://global.yamaha-motor.com/business/robot/

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.



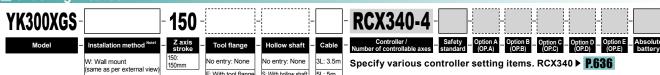
YK300XGS

U: Inverse wall mount (upside down)

Arm length 300mm
Maximum payload 5kg
Note. Built-to-order product. Contact us for the delivery period.

Wall mount / inverse type

Ordering method



5L: 5m 10L: 10m

Note 1. When installing the robot, always follow the specifications.

Do not install the ceiling-mount robot upside down or do not install the inverse type robot to a ceiling.

Incorrect installation can cause trouble or malfunction.

F: With tool flange S: With hollow shaft

			X-axis	Y-axis	Z-axis	R-axis
Axis	Axis Arm length Rotation angle		150 mm	150 mm	150 mm	-
specifications			+/-120 °	+/-130 °	-	+/-360 °
AC servo motor output			200 W	150 W	50 W	100 W
Deceleration	Transmission	Motor to speed reducer		Dir	ect-coupled	
mechanism	method	Speed reducer to output		Dir	ect-coupled	
Repeatability Note 1			+/-0.0	11 mm	+/-0.01 mm	+/-0.004 °
Maximum speed		4.4 m/sec		1.0 m/sec	1020 °/sec (wall mount) 720 °/sec (inverse wall mount	
Maximum payload			5 kg (Standard specification), 4 kg (Option specifications Note 4)			
Standard cycl	e time: with 2k	g payload Note 2	0.49 sec			
R-axis tolerab	le moment of	inertia Note 3	0.05 kgm ²			
User wiring			0.2 sq × 10 wires			
User tubing (0	Outer diameter	r)	ф 4 × 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			19.5 kg			

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

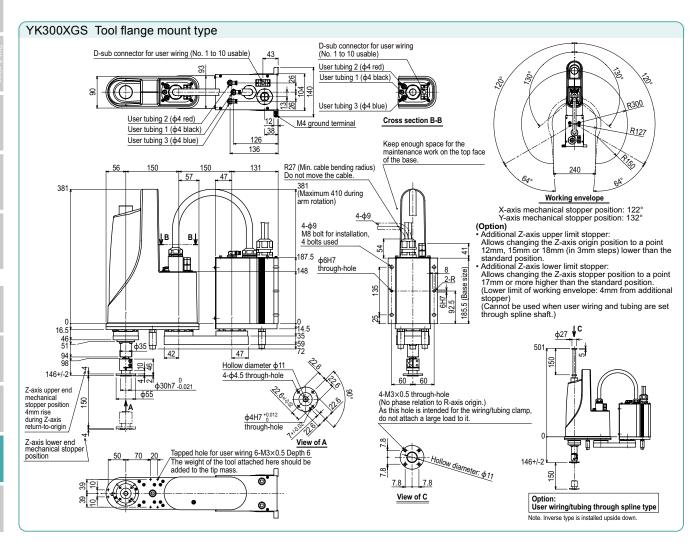
Note 2. When reciprocating 25mm horizontally and 300mm horizontally (with a 2kg payload in rough-positioning arch motion).

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

Note 4. Maximum payload of option specifications (with tool flange attached or with user wiring and tubing routed through spline shaft) is 4kg.

■ Controller				
Controller	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 position of Y axis mechanical stopper. (The movement range is set to the maximum at the time of shipment.) See our robot manuals (installation manuals) for detailed information.



YK400XGS

● Arm length 400mm ● Maximum payload 5kg Note. Built-to-order product. Contact us for the delivery period.

Wall mount / inverse type

■ Ordering method

YK400XGS 150 RCX340-4 W: Wall mount (same as per external view Specify various controller setting items. RCX340 ▶ **P.636** 150: 150mm No entry: None No entry: None 3L: 3.5m

5L: 5m 10L: 10m

S: With hollow shaft

U: Inverse wall mount

Note 1. When installing the robot, always follow the specifications.

Do not install the ceiling-mount robot upside down or do not install the inverse type robot to a ceiling. Incorrect installation can cause trouble or malfunction.

F: With tool flange

■ Specifications						
			X-axis	Y-axis	Z-axis	R-axis
Axis	Arm length ons Rotation angle		250 mm	150 mm	150 mm	_
specifications			+/-125 °	+/-144 °	-	+/-360 °
AC servo motor output			200 W	150 W	50 W	100 W
Deceleration	Deceleration Transmission Motor to speed reducer		Direct-coupled			
	method	Speed reducer to output		Dir	ect-coupled	
Repeatability Note 1			+/-0.0	11 mm	+/-0.01 mm	+/-0.004 °
Maximum speed		6.1 m/sec 1.1 m/sec		1020 °/sec (wall mount) 720 °/sec (inverse wall mount		
Maximum payload			5 kg (Standard specification), 4 kg (Option specifications Note 4)			
Standard cycl	e time: with 2k	g payload Note 2	0.49 sec			
R-axis tolerab	le moment of	inertia Note 3	0.05 kgm ²			
User wiring			0.2 sq × 10 wires			
User tubing (Outer diameter)			ф 4 × 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			20 kg			

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

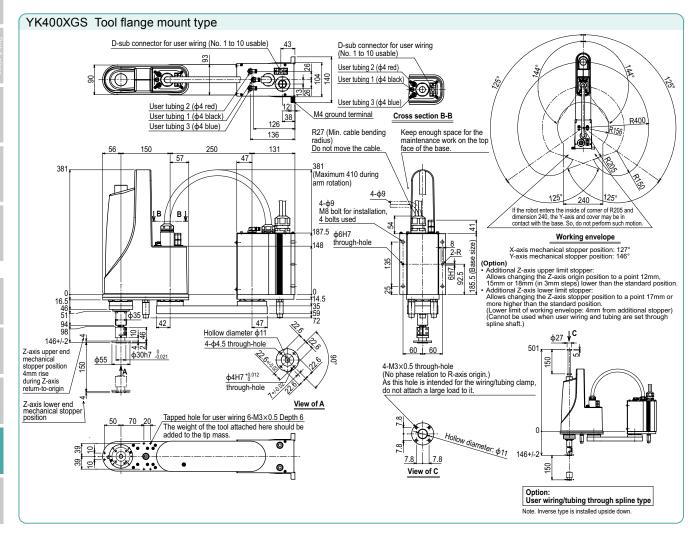
Note 2. When reciprocating 25mm horizontally and 300mm horizontally (with a 2kg payload in rough-positioning arch motion).

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

Note 4. Maximum payload of option specifications (with tool flange attached or with user wiring and tubing routed through spline shaft) is 4kg.

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

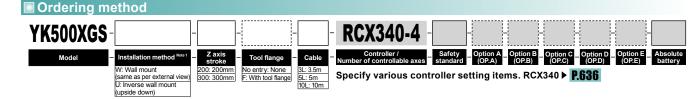
Note. The movement range can be limited by changing the position of Y axis mechanical stopper. (The movement range is set to the maximum at the time of shipment.) See our robot manuals (installation manuals) for detailed information.



YK500XGS Arm length 500mm
Maximum payload 10kg

10 32

M16 x 2 Depth20 (Bottom of spline)



Note 1. When installing the robot, always follow the specifications.

Do not install the ceiling-mount robot upside down or do not install the inverse type robot to a ceiling. Incorrect installation can cause trouble or malfunction.

			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		200 mm	300 mm	200 mm 300 mm	-	
specifications	Rotation angl	е	+/-105 °	+/-125 °	_	+/-360 °	
AC servo motor output			400 W	200 W	200 W	200 W	
Deceleration Transmission Motor to speed reducer			Di	rect-coupled			
mechanism	method	Speed reducer to output		Di	ect-coupled		
Repeatability	Note 1		+/-0.0	11 mm	+/-0.01 mm	+/-0.004 °	
Maximum speed		7.6 m/sec 2.3 1.7 1700 °/sec (wall mount m/sec m/sec 800 °/sec (inverse wall mount					
Maximum pay	load		10 kg (Standard type), 9 kg (Tool flange mount type)				
Standard cycle time: with 2kg payload Note 2			0.45 sec				
R-axis tolerab	le moment of	inertia Note 3	0.30 kgm ²				
User wiring			0.2 sq × 20 wires				
User tubing (C	Outer diameter	•)	ф 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			30 kg				

■ Controller				
Controller	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.

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

YK500XGS	other tubes and cables to the self-supporting machine harness.
User tubing 1 (\phi 6 Black) User tubing 2 (\phi 6 Red) User tubing 3 (\phi 6 Blue) 54 113 Z300mm 474 Sheka	D-sub connector for user wiring (No.1 to 20 usable) D-sub connector for user wiring (No.1 to 20 usable) D-sub connector for user wiring (No.1 to 20 usable) D-sub connector for user wiring (No.1 to 20 usable) Waser wiring (No.1 to 20 usable) User tubing 1 (\$\delta\$ Black) User tubing 2 (\$\delta\$ Red) User tubing 3 (\$\delta\$ Bled) User tubing 3 (\$\delta\$ Bled) Weep enough space for the maintenance work on the top face of the base.
Z200mm 374 Stroke	Ball screw greasing hole (406: Maximum during arm rotation) 89.5 R27 (Min. cable bending radius) Do not move the cable. 4-69 Working envelope of left-handed system (406: Maximum during arm rotation) 89.5 R27 (Min. cable bending radius) Do not move the cable. 107.5 107.5 107.5 107.5 107.5 107.5 108.3 Working envelope of right-handed system X-axis mechanical stopper position: 107° Y-axis mechanical stopper position: 127° Standard type
position 8mm rise puring Z-axis eturn-to-origin 8 Flat relat Z-axis mechan 4-M4 x Four M Do not from bo	Standard type Surface has no phase ion to R-axis origin. Ower end nical stopper position 1.7 through-hole for tool attachment 4 x 10L binding screws are supplied. screw the screws in deeper than 10mm tom surface of arm. Sign of fit tool attached here should be on the tip mass. Option: Tool flange mount type

YK500XGS

Z200mm Stroke specification Z300mm Stroke specification

YK500XGS

YK600XGS

Wall mount / inverse type

Arm length 600mm
Maximum payload 10kg

■ Ordering method

YK600XGS

W: Wall mount (same as per external view) U: Inverse wall mount U: Inverse wall (upside down)

200: 200mm No entry: None F: With tool flange

RCX340-4

Safety Option A Option B Option C Option D Option E Abso standard (OP.A) (OP.B) (OP.C) (OP.D) (OP.E) batte

Specify various controller setting items. RCX340 ▶ P.636

Note 1. When installing the robot, always follow the specifications.

Do not install the ceiling-mount robot upside down or do not install the inverse type robot to a ceiling. Incorrect installation can cause trouble or malfunction.

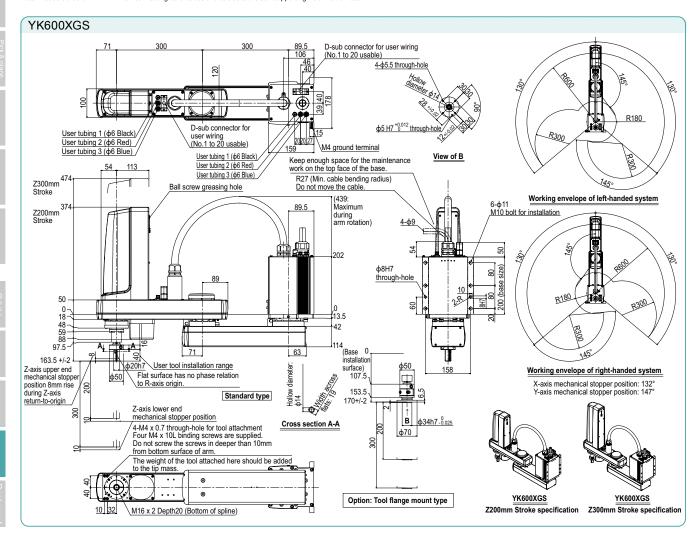
■ Specifications								
			X-axis	Y-axis	Z-axis	R-axis		
Axis	kis Arm length		300 mm	300 mm	200 mm 300 mm	-		
specifications	Rotation ang	le	+/-130 °	+/-145 °	_	+/-360 °		
AC servo mot	or output		400 W	200 W	200 W	200 W		
Deceleration	Transmission	Motor to speed reducer		Dir	ect-coupled			
mechanism method		Speed reducer to output	Direct-coupled					
Repeatability	Note 1		+/-0.0	11 mm	+/-0.01 mm	+/-0.004 °		
Maximum spe	ed		8.4 m/sec 2.3 1.7 1700 °/se m/sec m/sec 800 °/sec (i			1700 °/sec (wall mount) 800 °/sec (inverse wall mount)		
Maximum pay	load		10 kg (Standard type), 9 kg (Tool flange mount type)					
Standard cycl	e time: with 2k	g payload Note 2	0.46 sec					
R-axis tolerab	le moment of	inertia ^{Note 3}		(0.30 kgm ²			
User wiring			0.2 sq × 20 wires					
User tubing (C	Outer diameter	r)			ф6×3			
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)					
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m					
Weight					31 kg			
Note 1 This is the	value at a constar	at ambient temperature (Y V	(avaa)					

■ Controller Controller Power capacity (VA) Operation method Programming / I/O point trace Remote command / RCX340 1700 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.

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

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.



YK700XG

Ordering method YK700XGS RCX340-4

W: Wall mount (same as per external view U: Inverse wall mount (upside down)

Arm length 700mm Maximum payload 20kg

200: 200mm No entry: None 400: 400mm F: With tool flange

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

Note 1. When installing the robot, always follow the specifications.

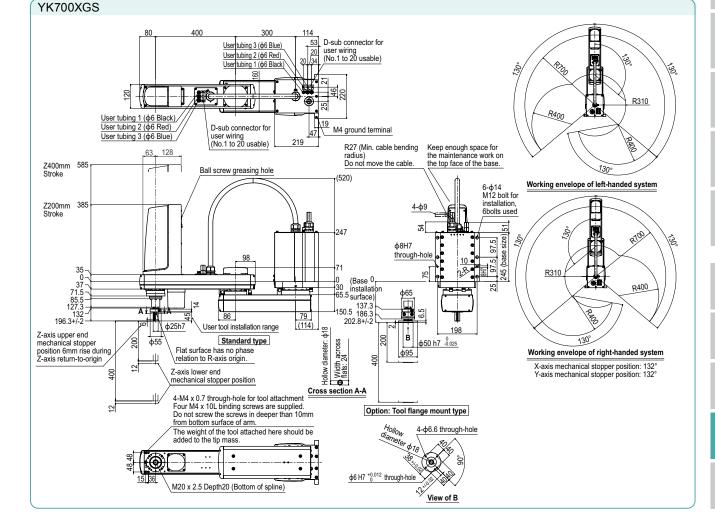
Do not install the ceiling-mount robot upside down or do not install the inverse type robot to a ceiling Incorrect installation can cause trouble or malfunction.

Specifi	cations							
			X-axis	Y-axis	Z-axis	R-axis		
Axis	Axis Arm length		300 mm	400 mm	200 mm 400 mm	-		
specifications	Rotation angl	е	+/-130 °	+/-130 °	-	+/-360 °		
AC servo mot	or output		750 W	400 W	400 W	200 W		
Deceleration	Transmission	Motor to speed reducer		Dir	ect-coupled			
mechanism	method	Speed reducer to output		Dir				
Repeatability Note 1			+/-0.0)2 mm	+/-0.01 mm	+/-0.004 °		
Maximum speed			8.4 m/sec 2.3 n/sec m/sec 1.7 920 °/sec (wall m/sec) 480 °/sec (inverse v			920 °/sec (wall mount) 480 °/sec (inverse wall mount)		
Maximum pay	load		20 kg (Standard type), 19 kg (Tool flange mount type)					
Standard cycle	e time: with 2k	g payload ^{Note 2}	0.42 sec					
R-axis tolerab	le moment of	inertia ^{Note 3}			1.0 kgm ²			
User wiring			0.2 sq × 20 wires					
User tubing (C	Outer diameter)		ф 6 × 3				
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)					
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m					
Weight			Z a:	xis 200 mm: 50	kg Zaxis 40	0 mm: 52 kg		

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

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

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, Note 2. When reciprocating 300mm in horizontal and 25mm in v Note 3. The acceleration coefficient is set automatically in accor Note. Please consult YAMAHA when connecting other tubes an	ertical directions. dance with the tip weight and R-axis moment of inertia settings.



YK800XGS

Wall mount / inverse type

Arm length 800mm
Maximum payload 20kg

■ Ordering method

RCX340-4 YK800XGS Safety Option A Option B Option C Option D Option E Abso standard (OP.A) (OP.B) (OP.C) (OP.D) (OP.E) batte W: Wall mount (same as per external view) U: Inverse wall mount (upside down) 200: 200mm No entry: None F: With tool flange Specify various controller setting items. RCX340 ▶ **P.636**

Note 1. When installing the robot, always follow the specifications.

Do not install the ceiling-mount robot upside down or do not install the inverse type robot to a ceiling. Incorrect installation can cause trouble or malfunction.

■ Specifi	ications							
			X-axis	Y-axis	Z-axis	R-axis		
Axis	Arm length		400 mm	400 mm	200 mm 400 mm	-		
specifications	Rotation ang	le	+/-130 °	+/-145 °	-	+/-360 °		
AC servo mot	or output		750 W	400 W	400 W	200 W		
Deceleration	Transmission	Motor to speed reducer		Dir	ect-coupled			
mechanism	method	Speed reducer to output		Dir	ect-coupled			
Repeatability	Note 1		+/-0.0	12 mm	+/-0.01 mm	+/-0.004 °		
Maximum spe	ed		9.2 m/sec 2.3 1.7 920 °/sec (wall m/sec m/sec 480 °/sec (inverse			920 °/sec (wall mount) 480 °/sec (inverse wall mount)		
Maximum pay	load		20 kg (Standard type), 19 kg (Tool flange mount type)					
Standard cycl	e time: with 2k	g payload Note 2	0.48 sec					
R-axis tolerab	le moment of	inertia ^{Note 3}			1.0 kgm ²			
User wiring			0.2 sq × 20 wires					
User tubing (0	Outer diameter	r)			ф6×3			
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)					
Robot cable le	ength		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 constar	at ambient temperature (XX	/ avaa\					

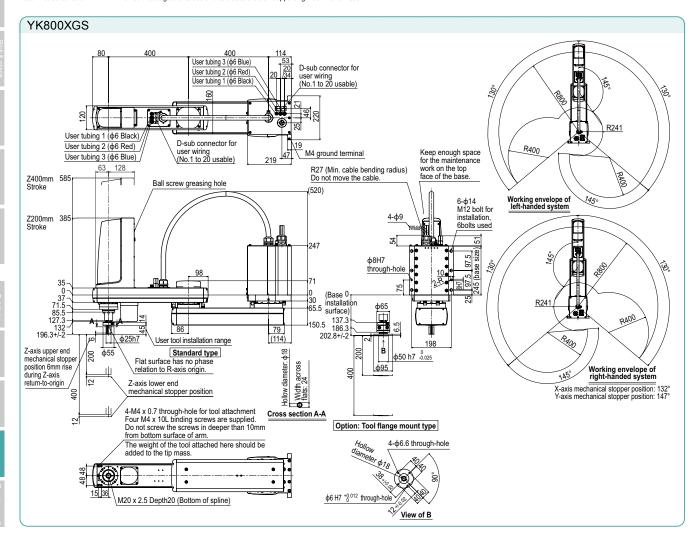
Controller Power capacity (VA) Operation method Programming / I/O point trace Remote command / RCX340 2500 Operation using RS-232C communication

Controller

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.

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

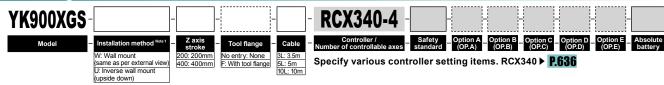
Note 1. This is the value at a constant ambient temperature. (X,Y axes)
Note 2. When reciprocating 300mm in horizontal and 25mm in vertical directions.
Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.
Note. Please consult YAMAHA when connecting other tubes and cables to the self-supporting machine harness.



Arm length 900mm Maximum payload 20kg

YK900XGS

■ Ordering method



Note 1. When installing the robot, always follow the specifications.

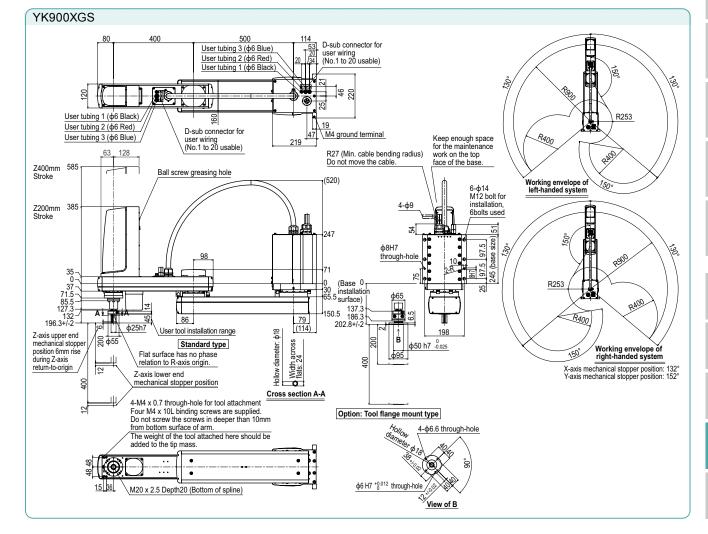
Do not install the ceiling-mount robot upside down or do not install the inverse type robot to a ceiling Incorrect installation can cause trouble or malfunction.

			X-axis	Y-axis	Z-axis	R-axis		
Axis Arm length			500 mm	400 mm	200 mm 400 mm	-		
specifications	Rotation angl	tion angle		+/-150 °	-	+/-360 °		
AC servo mot	or output		750 W 400 W 400 W 200 W					
Deceleration Transmission Motor to speed reducer				Dir	ect-coupled			
mechanism	method	Speed reducer to output		Dir	ect-coupled			
Repeatability Note 1			+/-0.02 mm		+/-0.01 mm	+/-0.004 °		
Maximum spe	ed		9.9 m/sec 2.3 1.7 920 °/sec (wall m/sec m/sec 480 °/sec (inverse v			920 °/sec (wall mount 480 °/sec (inverse wall moun		
Maximum pay	load		20 kg (Standard type), 19 kg (Tool flange mount type)					
Standard cycl	e time: with 2k	g payload Note 2			0.49 sec			
R-axis tolerab	le moment of	inertia ^{Note 3}			1.0 kgm ²			
User wiring				0.2	sq × 20 wires			
User tubing (0	Outer diameter)			ф6×3			
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)					
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m					
Weight			Z axis 200 mm: 54 kg Z axis 400 mm: 56 kg					

■ 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

Weight	Z axis 200 mm: 54 kg Z axis 400 mm: 56
Note 1. This is the value at a constant ambient temperature. (X,	
Note 2. When reciprocating 300mm in horizontal and 25mm in vi	
Note 3. The acceleration coefficient is set automatically in accor	dance with the tip weight and R-axis moment of inertia settings.
Niete Dieses sessuit VANALIAbes sessestine ether tubes en	d aablaa ta tha aa'lf aaaatiaa maaabiaa baasaaa



YK1000XGS

Arm length 1000mm
Maximum payload 20kg

■ Ordering method

YK1000XGS RCX340-4 Safety Standard Option A Option B Option C Option D Option E Absolute (OP.A) OP.B) Option C OP.C) OP.D) Option E Option E Option E Option E OP.E) W: Wall mount (same as per external view) U: Inverse wall mount (upside down) 200: 200mm No entry: None F: With tool flange Specify various controller setting items. RCX340 ▶ **P.636**

Wall mount / inverse type

Note 1. When installing the robot, always follow the specifications.

Do not install the ceiling-mount robot upside down or do not install the inverse type robot to a ceiling. Incorrect installation can cause trouble or malfunction.

■ Specifi	ications							
			X-axis	Y-axis	Z-axis	R-axis		
Axis	Axis Arm length		600 mm	400 mm	200 mm 400 mm	-		
specifications	Rotation ang	le	+/-130 °	+/-150 °	-	+/-360 °		
AC servo mot	or output		750 W	400 W	400 W	200 W		
Deceleration	Transmission	Motor to speed reducer		Dir	ect-coupled			
mechanism method		Speed reducer to output	Direct-coupled					
Repeatability	Note 1		+/-0.0)2 mm	+/-0.01 mm	+/-0.004 °		
Maximum spe	ed		10.6 m/sec 2.3 1.7 920 °/sec (wa m/sec m/sec 480 °/sec (inverse			920 °/sec (wall mount) 480 °/sec (inverse wall mount)		
Maximum pay	load		20 kg (Standard type), 19 kg (Tool flange mount type)					
Standard cycl	e time: with 2k	g payload Note 2	0.49 sec					
R-axis tolerab	le moment of	inertia ^{Note 3}	1.0 kgm ²					
User wiring			0.2 sq × 20 wires					
User tubing (0	Outer diameter	r)	ф 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: 56 kg Z axis 400 mm: 58 kg					
			, ,					

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

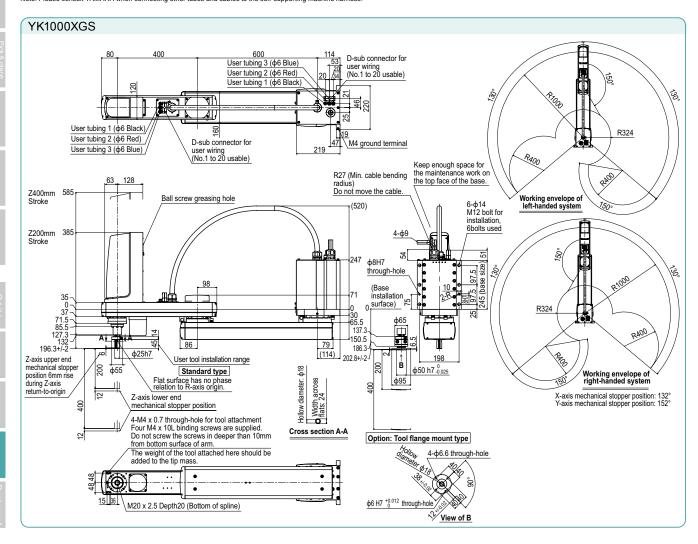
Controller

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.

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

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

YK250XGP Arm length 250mm Maximum payload 4kg

■ Controller

■ Ordering method										Ĩ	
YK250XGP-150	-	- S	-	- RCX340-4	-	-	-		-		_
Model Z axis stroke	Tool flange	- Hollow shaft	- 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
150: 150mm	No entry: None F: With tool flange	S: With hollow shaft	3L: 3.5m 5L: 5m	Specify various cont	roller set	ting iten	ns. RCX	340 ▶ 🧗	636		

■ Specifications X-axis Y-axis Z-axis R-axis Arm length 100 mm 150 mm 150 mm specifications Rotation angle +/-129 +/-134 ° +/-360 ' 200 W 150 W 50 W 100 W AC servo motor output Deceleration Transmission Motor to speed reduce Direct-coupled mechanism method Speed reducer to output Direct-coupled Repeatability +/-0.01 mm +/-0.01 mm +/-0.004° 4.5 m/sec 1020 °/sec Maximum speed 1.1 m/sec Maximum payload 4 kg Standard cycle time: with 2kg payload Note 2 0.50 sec R-axis tolerable moment of inertia Note 3 0.05 kgm Protection class Note 4 Equivalent to IP65 (IEC 60529) User wiring 0.2 sg × 10 wires User tubing (Outer diameter) ф 4 × 4 **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 21.5 kg

Controller | Power capacity (VA) | Operation method Programming / I/O point trace / Remote command / RCX340 1000 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.)

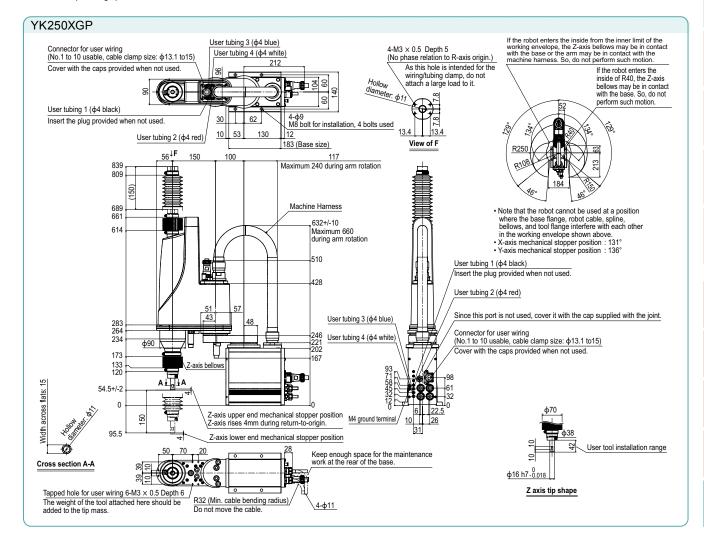
See our robot manuals (installation manuals) for detailed

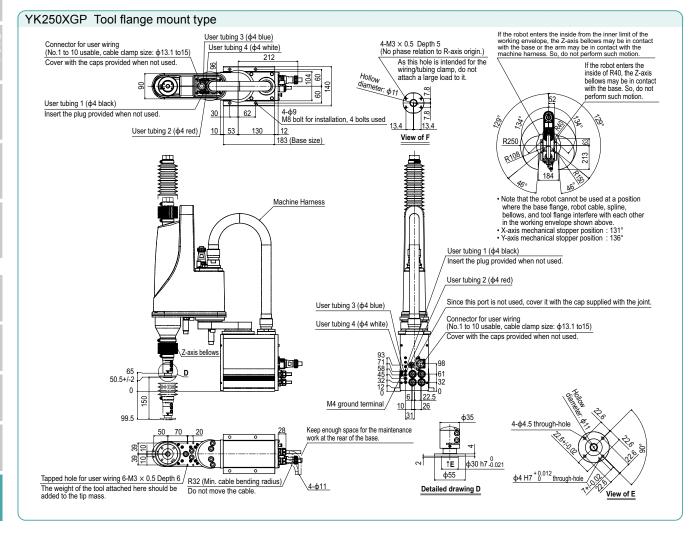
See our hoot manuals (installation manuals) for detailed information.

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/

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. Do not use robots where the bellows section is directly exposed to water jet. Contact our distributor for information on drip-proof structure preventing liquid other than water.





Arm length 350mm Maximum payload 4kg

YK350XGP

Ordering method

YK350XGP-150

No entry: None F: With tool flange

S

RCX340-4

Safety Option A Option B Option C Option D Option E Absaxes standard (OP.A) (OP.B) (OP.C) (OP.D) (OP.E) batt Specify various controller setting items. RCX340 ▶ P.636

Controller

■ Specifi	cations							
			X-axis	Y-axis	Z-axis	R-axis		
Axis Arm length			200 mm	150 mm	150 mm	-		
specifications	Rotation ang	le	+/-129 °	+/-134 °	-	+/-360 °		
AC servo mot	or output		200 W 150 W 50 W 100 Y					
Deceleration	Transmission	Motor to speed reducer		Direct-	coupled			
mechanism	method	Speed reducer to output	Direct-coupled					
Repeatability	epeatability Note 1		+/-0.01 mm +/-0.01 mm +/-0.00					
Maximum spe	ed		5.6 n	n/sec	1.1 m/sec	1020 °/sec		
Maximum pay	load			4	kg			
Standard cycl	e time: with 2k	g payload Note 2		0.52	sec			
R-axis tolerab	le moment of	inertia Note 3		0.05	kgm²			
Protection cla	ISS Note 4			Equivalent to IF	65 (IEC 60529)			
User wiring				0.2 sq ×	10 wires			
User tubing (C	Outer diameter	r)	ф 4 × 4					
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)					
Robot cable le	ength		S	Standard: 3.5 m	Option: 5 m, 10 r	m		
Weight			22 kg					

Controller Power capacity (VA) Operation method Programming / I/O point trace / Remote command / RCX340 1000 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

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.

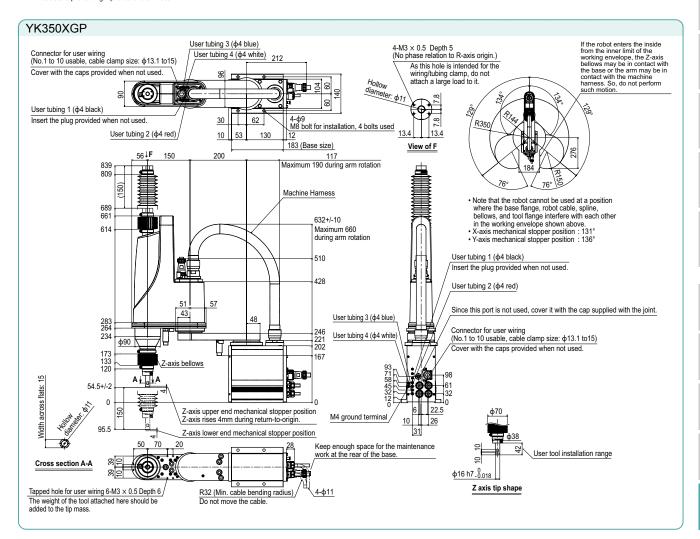
Our robot manuals (installation manuals) can be downloaded from our website at the address below https://global.yamaha-motor.com/business/robot/

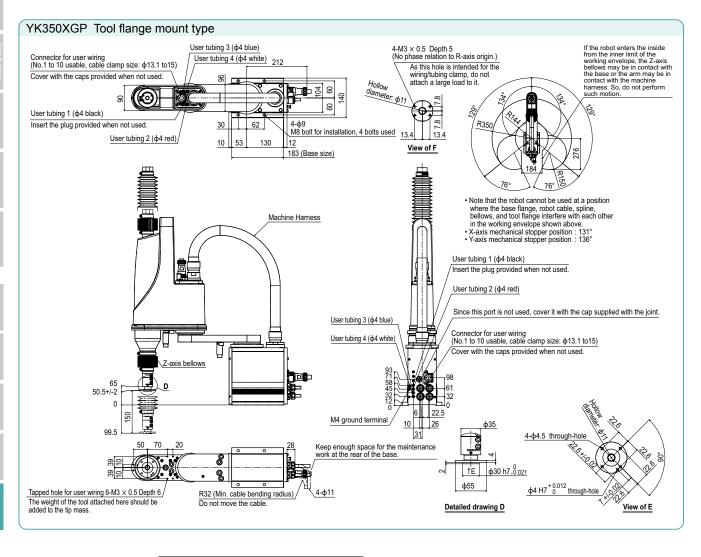
Note 1. This is the value at a constant ambient temperature. (X,Y axes)

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. Do not use robots where the bellows section is directly exposed to water jet. Contact our distributor for information on drip-proof structure preventing liquid other than water.





Arm length 400mm
Maximum payload 4kg

■ Ordering method

RCX340-4 YK400XGP-150 S Controller / Safety ber of controllable axes standard COP.A) Option A (OP.A) Option B (OP.B) Option C (OP.B) Option C (OP.C) Option D (OP.E) batt

No entry: None F: With tool flange

■ Controller

RCX340

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

Controller Power capacity (VA) Operation method

1000

Programming / I/O point trace / Remote command /

Operation using RS-232C communication

■ Specifi	cations							
			X-axis	Y-axis	Z-axis	R-axis		
Axis	Arm length		250 mm	250 mm 150 mm 150 mm				
specifications	Rotation angl	Rotation angle		+/-144 °	_	+/-360 °		
AC servo mot	or output		200 W	150 W	50 W	100 W		
Deceleration	Deceleration Transmission Motor to speed reducer			Direct-o	coupled			
mechanism method		Speed reducer to output		Direct-o	coupled			
Repeatability	Note 1		+/-0.0	1 mm	+/-0.01 mm	+/-0.004 °		
Maximum spe	Maximum speed			6.1 m/sec 1.1 m/sec 1020 °/sec				
Maximum pay	load		4 kg					
Standard cycle	e time: with 2k	g payload Note 2	0.50 sec					
R-axis tolerab	le moment of	inertia ^{Note 3}		0.05	kgm²			
Protection cla	SS Note 4			Equivalent to IP	65 (IEC 60529)			
User wiring				0.2 sq ×	10 wires			
User tubing (C	Outer diameter	r)	φ 4 × 4					
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)					
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m					
Weight				22.	5 kg			

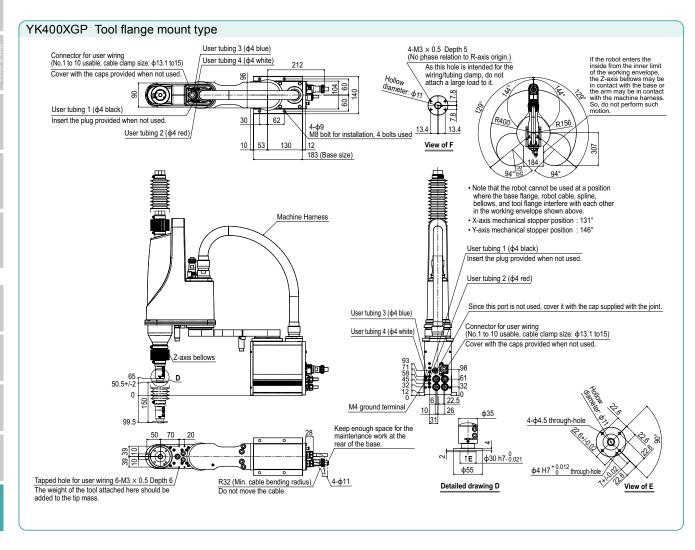
Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)
See our robot manuals (installation manuals) for detailed information.

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/

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. Do not use robots where the bellows section is directly exposed to water jet. Contact our distributor for information on drip-proof structure preventing liquid other than water.

YK400XGP
Connector for user wiring (No.1 to 10 usable, cable clamp size: \$\phi 13.1 to 15) Cover with the caps provided when not used. User tubing 1 (\$\phi 4\$ black) Insert the plug provided when not used. User tubing 2 (\$\phi 4\$ red) User tubing 3 (\$\phi 4\$ blue) 4-M3 × 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. Wiew of F Wiew of F View of F
Maximum 190 during arm rotation Machine Harness *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° User tubing 1 (\$\phi\$4 black) Insert the plug provided when not used. User tubing 2 (\$\phi\$4 red)
Since this port is not used, cover it with the cap supplied with the joint. User tubing 3 (\$\phi\$4 blue) User tubing 3 (\$\phi\$4 blue) Connector for user wiring (No.1 to 10 usable, cable clamp size: \$\phi 13.1 to 15) Cover with the caps provided when not used.
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. The weight of the tool attached here should be added to the tip mass.



Arm length 500mm Maximum payload 4kg

YK500XGLP

Ordering method

S RCX340-4 YK500XGLP - 150

No entry: None F: With tool flange

Safety Option A Option B Option C Option D Option E Absaxes standard (OP.A) (OP.B) (OP.C) (OP.D) (OP.E) bat Specify various controller setting items. RCX340 ▶ P.636

■ Controller

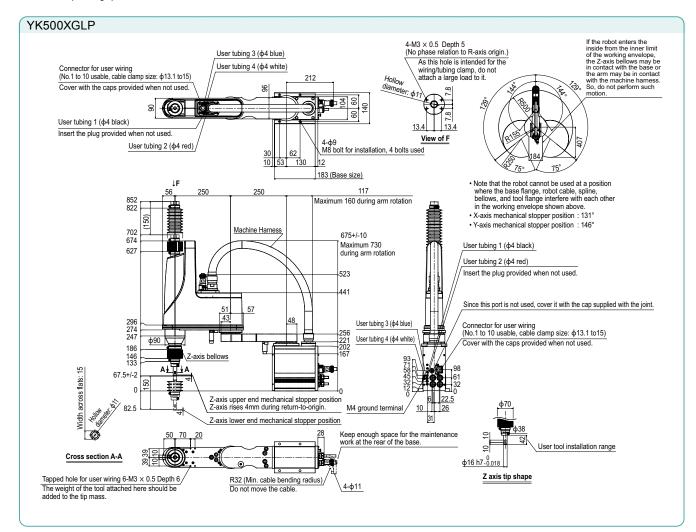
■ Specifi	cations						
			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		250 mm	250 mm	150 mm	-	
specifications	Rotation angl	е	+/-129 °	+/-144 °	-	+/-360 °	
AC servo mot	or output		200 W	150 W	50 W	100 W	
Deceleration	Transmission	Motor to speed reducer		Direct-o	coupled		
	method	Speed reducer to output	Direct-coupled				
Repeatability	Repeatability Note 1			+/-0.01 mm		+/-0.004 °	
Maximum spe	ed		5.1 m/sec 1.1 m/sec 1020			1020 °/sec	
Maximum pay	load		4 kg				
Standard cycle	e time: with 2k	g payload ^{Note 2}	0.66 sec				
R-axis tolerab	le moment of	inertia ^{Note 3}		0.05	kgm²		
Protection cla	SS Note 4		Equivalent to IP65 (IEC 60529)				
User wiring			0.2 sq × 10 wires				
User tubing (Outer diameter)			ф 4 × 4				
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)				
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m				
Weight				25	kg		

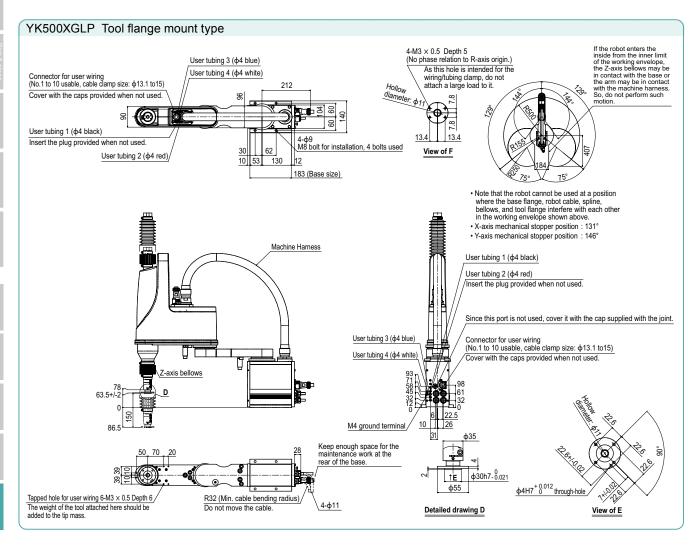
Controller Power capacity (VA) Operation method Programming / I/O point trace / Remote command / RCX340 1000 Operation using RS-232C communication

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

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.

- 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. Do not use robots where the bellows section is directly exposed to water jet. Contact our distributor for information on drip-proof
- structure preventing liquid other than water.





Arm length 500mm Maximum payload 10kg

YK500XGP

Ordering method



■ Specifi	cations						
			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		200 mm	300 mm	200 mm 300 mm	-	
specifications	Rotation angl	е	+/-130 °	+/-145 °	_	+/-360 °	
AC servo mot	or output		400 W	200 W	200 W	200 W	
Deceleration	Transmission	Motor to speed reducer		Direct-	coupled		
mechanism method		Speed reducer to output	Direct-coupled				
Repeatability Note 1			+/-0.01 mm		+/-0.01 mm	+/-0.004 °	
Maximum spe	ed		7.6 m/sec 2.3 m/sec		2.3 m/sec 1.7 m/sec	1700 °/sec	
Maximum pay	load		10 kg				
Standard cycle	e time: with 2k	g payload ^{Note 2}	0.55 sec				
R-axis tolerab	le moment of	inertia ^{Note 3}		0.3	kgm²		
Protection cla	SS Note 4		Equivalent to IP65 (IEC 60529)				
User wiring			0.2 sq × 20 wires				
User tubing (C	Outer diameter)	ф 6 × 3				
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)				
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m				
Weight			Z axis 200 mm: 32 kg Z axis 300 mm: 33 kg				

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

■ Controller

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

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/

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. Do not user pobts where the bellows section is directly exposed to water jet. Contact our distributor for information on drip-proof structure preventing liquid other than water.

YK500XGP Connector for user wiring (No.1 to 20 usable, cable clamp size: \$\phi16\$ to18) Cover with the caps provided when not used. 120 R178 User tubing 1 (φ6 black) 40 120 User tubing 2 (φ6 red) M10 bolt for installation, 4 bolts used - User tubing 3 (Φ6 blue) 222 (Base size) Note. Insert the plug provided when not used. If the robot enters the inside of the corner of dimensions 135 and 292, the Z-axis tip 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. 300 176 53 114 151(Maximum 300 during arm rotation) Z300mm 785 Stroke Working envelope of left-handed system Z200mm 685 Stroke (Maximum 760 during arm rotation) 479 R178 Connector for user wiring 373 351 (No.1 to 20 usable, cable clamp size: \$\phi\$16 to 18) 81 283 245 φ38 (Air release tubing) 259 Cover with the caps provided Connect a hose and extend it to a location not exposed to water and dust. 187 when not used 71 91 159 117.6+/-2 18 X axis joint air purge port (φ6) Z-axis stroke
Z-axis rises
8mm during
retum-to-origin. φ72 h7 Y axis joint air purge port (φ6) M4 ground terminal 0 If the robot enters the inside of the corner of dimensions 135 and 292, the Z-axis tip flange may be in contact with the base or the arm may be in contact with the harmess. So, do not perform such motion. -axis User tubing 1 (φ6 black) 300 Z 200 Z 10 40 User tubing 2 (\$\phi6\$ red) User tubing 3 (\$\phi6\$ blue) Insert the plug provided when not used. Working envelope of right-handed system Z-axis lower end mechanical stopper position φ25 H7 0 · Note that the robot cannot be used at a position where the base flange, robot cable, spline, and bellows interfere with each other in the working envelope shown above. Keep enough space for φ72 h7 -0.03 28 the maintenance work at the rear of the base X-axis mechanical stopper position: 132° P.C.D.36 Y-axis mechanical stopper position: 147° 6-M5×0.8 Depth 11 \4-ф11 R32 (Min. cable bending radius) 10-M5×0.8 Depth 11 Do not move the cable There is no phase relation between each position of M5 tapped holes and R-axis origin position.

Z axis tip shape

YK600XGLP

Dust-proof & drip-proof type

Arm length 600mm
Maximum payload 4kg

Ordering method

YK600XGLP-150

No entry: None F: With tool flange

S

RCX340-4

Safety Option A Option B Option C Option D Option E Absolute standard (OP.A) (OP.B) (OP.C) (OP.D) (OP.E) battery

■ Controller

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

■ Specifi	cations					
			X-axis	Y-axis	Z-axis	R-axis
Axis	Arm length		350 mm	250 mm	150 mm	_
specifications	Rotation ang	le	+/-129 °	+/-144 °	-	+/-360 °
AC servo mot	or output		200 W	150 W	50 W	100 W
Deceleration	Transmission	Motor to speed reducer		Direct-	coupled	
mechanism	method	Speed reducer to output		Direct-coupled		
Repeatability Note 1			+/-0.01 mm		+/-0.01 mm	+/-0.004 °
Maximum spe	ed		4.9 m/sec		1.1 m/sec	1020 °/sec
Maximum pay	load		4 kg			
Standard cycle	e time: with 2k	g payload Note 2	0.71 sec			
R-axis tolerab	le moment of	inertia ^{Note 3}	0.05 kgm²			
Protection cla	SS Note 4		Equivalent to IP65 (IEC 60529)			
User wiring (s	q × wires)		0.2 × 10			
User tubing (C	Outer diameter	r)	φ 4 × 4			
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)			
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m			
Weight			26 kg			

Programming / I/O point trace Remote command / RCX340 1000 Operation using RS-232C communication

Controller | Power capacity (VA) | Operation method

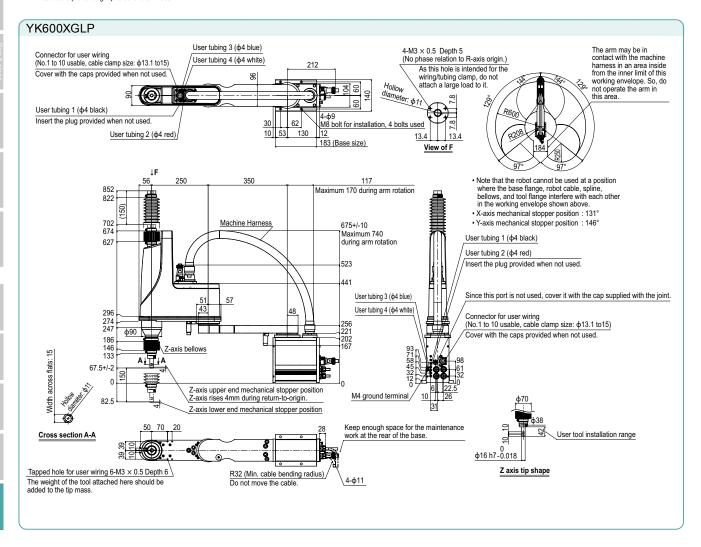
Note. The movement range can be limited by changing the positions The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)

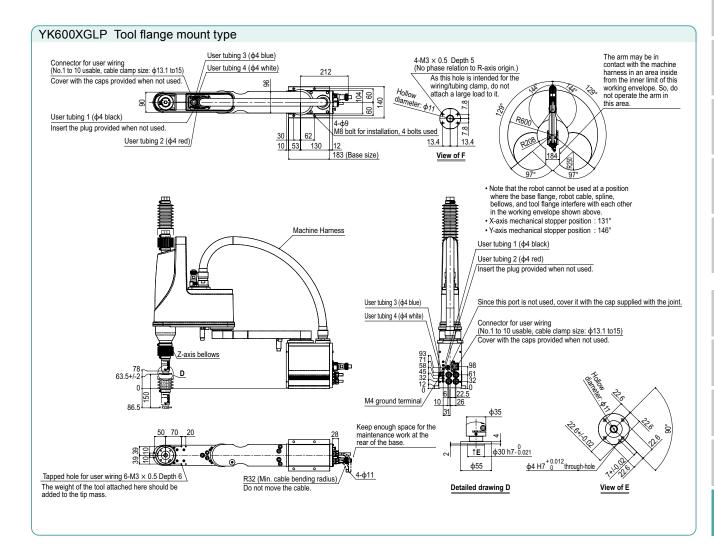
See our robot manuals (installation manuals) for detailed information.

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/

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. Do not use robots where the bellows section is directly exposed to water jet. Contact our distributor for information on drip-proof structure preventing liquid other than water.





YK600XG

Dust-proof & drip-proof type

Arm length 600mm
Maximum payload 10kg

■ Ordering method

YK600XGP RCX340-4 Safety Option A Option B Option C Option D Option E Absorbandard (OP.A) (OP.B) (OP.C) (OP.D) (OP.E) battr 200: 200mm 300: 300mm

Specify various controller setting items. RCX340 ▶ P.636

			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		300 mm	300 mm	200 mm 300 mm	-	
specifications	Rotation ang	le	+/-130 °	+/-145 °	-	+/-360 °	
AC servo mot	or output		400 W	200 W	200 W	200 W	
Deceleration	Transmission	Motor to speed reducer		Direct	-coupled		
mechanism m	method	Speed reducer to output		Direct	-coupled	coupled	
Repeatability Note 1			+/-0.01 mm		+/-0.01 mm	+/-0.004 °	
Maximum spe	ed		8.4 m/sec 2.3 m/sec 1.7 m/se		2.3 m/sec 1.7 m/sec	1700 °/sec	
Maximum pay	load		10 kg				
Standard cycle	e time: with 2k	g payload Note 2	0.56 sec				
R-axis tolerab	le moment of	inertia Note 3	0.3 kgm ²				
Protection cla	SS Note 4		Equivalent to IP65 (IEC 60529)				
User wiring (s	q × wires)		0.2 × 20				
User tubing (C	Outer diamete	r)	ф 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: 33 kg Z axis 300 mm: 34 kg				

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

Controller | Power capacity (VA) | Operation method

1700

Programming / I/O point trace Remote command /

Operation using RS-232C communication

■ Controller

RCX340

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/

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. Do not use robots where the bellows section is directly exposed to water jet. Contact our distributor for information on drip-proof structure preventing liquid other than water.

YK600XGP Connector for user wiring (No.1 to 20 usable, cable clamp size: \$\phi16\$ to18) 250 Cover with the caps provided when not used. R180 M User tubing 1 (Φ6 black). 40 120 4-φ11 M10 bolt for installation, 4 bolts used User tubing 2 (\$\phi6\$ red) User tubing 3 (\$\phi 6 blue)/ 222 (Base size Note. Insert the plug provided when not used. 135 If the robot enters the inside of the corner of dimensions 135 and 292, the Z-axis tip 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. 300 300 176 151(Maximum 300 during arm rotation) 53 114 Working envelope of left-handed system Z300mm 785 Stroke Z200mm Stroke (Maximum 760 during arm rotation) (B) 479 Connector for user wiring (No.1 to 20 usable, cable clamp size: φ16 to18) 373 351 φ38 (Air release tubing) 81 Connect a hose and extend it to a location not exposed to water and dust. Cover with the caps pro 259 187 159 when not used X axis joint air purge port (φ6) 117.6+/-2 300 Z-axis stroke 200 Z-axis stroke ф72 h7 Z-axis stroke
Z-axis rises
8mm during
return-to-origin. Y axis joint air purge port (φ6) 0 M4 ground terminal If the robot enters the inside of the corner of dimension 135 and 292, the Z-axis tip 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) 2 4 User tubing 2 (\$\phi6\$ red) Insert the plug provided when not used. User tubing 3 (\$\phi6\$ blue) Z-axis lower end mechanical Working envelope of right-handed system stopper position Note that the robot cannot be used at a position where the base flange, robot cable, spline, and bellows interfere with each other in the working envelope shown above. φ25 H7 0.021 Keep enough space for the maintenance work at the rear of the base. φ72 h7 -0.03 • X-axis mechanical stopper position : 132° Y-axis mechanical stopper position: 147° P.C.D.36 4-φ11 R32 (Min. cable bending radius) 6-M5×0.8 Depth 11 10-M5×0.8 Depth 11 *There is no phase relation between each position of M5 tapped holes

Z axis tip shape

*There is no phase relation between each position of M5 tapped holes

and R-axis origin position.

■ Controller

Arm length 600mm Maximum payload 20kg

YK600XGHI

■ Ordering method

RCX340-4 YK600XGHP Safety Option A Option B Option C Option D Option E Abs axes standard (OP.A) (OP.B) (OP.C) (OP.D) (OP.E) bat 200: 200mm 400: 400mm Specify various controller setting items. RCX340 ▶ P.636

			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		200 mm	400 mm	200 mm 400 mm	-	
specifications	Rotation angl	е	+/-130 °	+/-150 °	_	+/-360 °	
AC servo moto	or output		750 W	400 W	400 W	200 W	
Deceleration	Transmission	Motor to speed reducer		Direct-	coupled		
mechanism	method	Speed reducer to output	Direct-coupled				
Repeatability Note 1			+/-0.02 mm		+/-0.01 mm	+/-0.004 °	
Maximum speed			7.7 m/sec 2.3 m/sec 1.7		2.3 m/sec 1.7 m/sec	920 °/sec	
Maximum pay	load		20 kg				
Standard cycle	time: with 2k	g payload Note 2	0.57 sec				
R-axis tolerab	le moment of	inertia ^{Note 3}	1.0 kgm²				
Protection cla	SS Note 4		Equivalent to IP65 (IEC 60529)				
User wiring (s	q × wires)		0.2 × 20				
User tubing (C	uter diameter	•)	ф 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				

Programming / I/O point trace / Remote command / RCX340 2500 Operation using RS-232C communication

Controller Power capacity (VA) Operation method

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

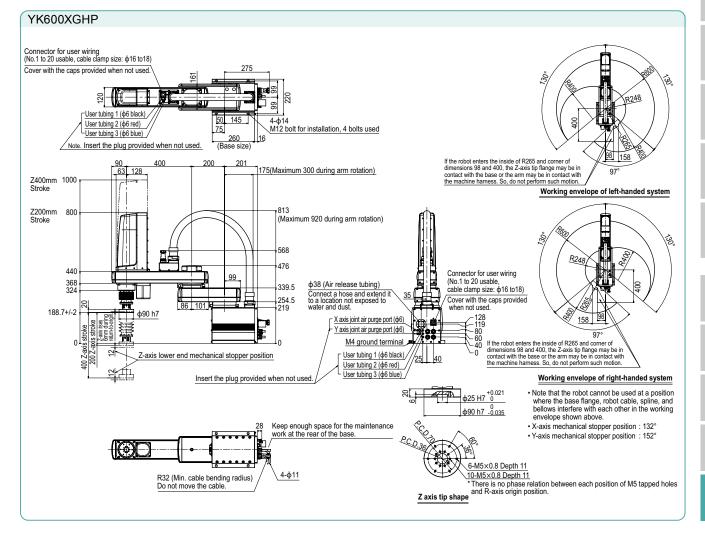
To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

- 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. Do not use robots where the bellows section is directly exposed to water jet. Contact our distributor for information on drip-proof structure preventing liquid other than water.



YK700XG

Dust-proof & drip-proof type

Arm length 700mm
Maximum payload 20kg

■ Ordering method

YK700XGP

RCX340-4

Safety Option A Option B Option C Option D Option E standard (OP.A) (OP.B) (OP.C) (OP.D) (OP.E)

■ Controller

RCX340

Controller | Power capacity (VA) | Operation method

2500

Programming / I/O point trace Remote command /

Operation using RS-232C communication

Specify various controller setting items. RCX340 ▶ P.636

Specifi	cations						
			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		300 mm	400 mm	200 mm 400 mm	_	
specifications	Rotation angl	le	+/-130 °	+/-150 °	-	+/-360 °	
AC servo moto	or output		750 W	400 W	400 W	200 W	
Deceleration	Transmission	Motor to speed reducer		Direct-	coupled		
mechanism	method	Speed reducer to output		Direct-	coupled		
Repeatability Note 1			+/-0.02 mm		+/-0.01 mm	+/-0.004 °	
Maximum spe	ed		8.4 m	n/sec	2.3 m/sec 1.7 m/sec	920 °/sec	
Maximum pay	load		20 kg				
Standard cycle	e time: with 2k	g payload Note 2	0.52 sec				
R-axis tolerab	le moment of	inertia ^{Note 3}	1.0 kgm ²				
Protection cla	SS Note 4		Equivalent to IP65 (IEC 60529)				
User wiring			0.2 sq × 20 wires				
User tubing (Outer diameter)			ф 6 × 3				
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)				
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m				
Weight			Z axis	200 mm: 54 kg	Z axis 400 mm:	56 kg	

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.

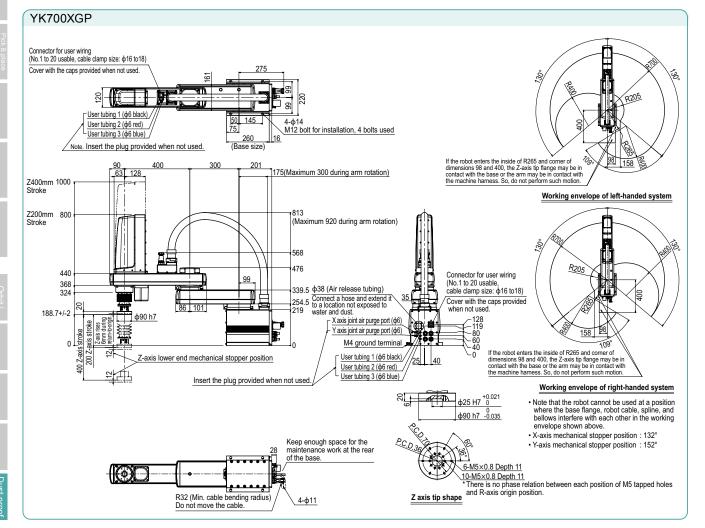
> Our robot manuals (installation manuals) can be downloaded from our website at the address below https://global.yamaha-motor.com/business/robot/

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

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

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

Do not use robots where the bellows section is directly exposed to water jet. Contact our distributor for information on drip-proof structure preventing liquid other than water.



YK800XGF Arm length 800mm Maximum payload 20kg

Ordering method

YK800XGP-	- F	- RCX340-4	
Model Z axis stroke 200: 200m 400: 400m		- Cable - Controller / Number of controllable axes Safety standard Option A (OP.A) Option B (OP.B) Option C (OP.C) Option D (OP	

■ Specifi	cations						
			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		400 mm	400 mm	200 mm 400 mm	-	
specifications	Rotation angl	е	+/-130 °	+/-150 °	-	+/-360 °	
AC servo moto	or output		750 W	400 W	400 W	200 W	
Deceleration	Transmission	Motor to speed reducer		Direct	t-coupled		
mechanism	method	Speed reducer to output	Direct-coupled				
Repeatability Note 1			+/-0.0	2 mm	+/-0.01 mm	+/-0.004 °	
Maximum spe	ed		9.2 m/sec 2.3 m/sec 1.7 m/sec		920 °/sec		
Maximum pay	load		20 kg				
Standard cycle	e time: with 2k	g payload ^{Note 2}	0.58 sec				
R-axis tolerab	le moment of	inertia Note 3	1.0 kgm²				
Protection cla	SS Note 4		Equivalent to IP65 (IEC 60529)				
User wiring			0.2 sq × 20 wires				
User tubing (Outer diameter)			ф 6 × 3				
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)				
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m				
Weight			Z axis 200 mm: 56 kg Z axis 400 mm: 58 kg				

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

■ Controller

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

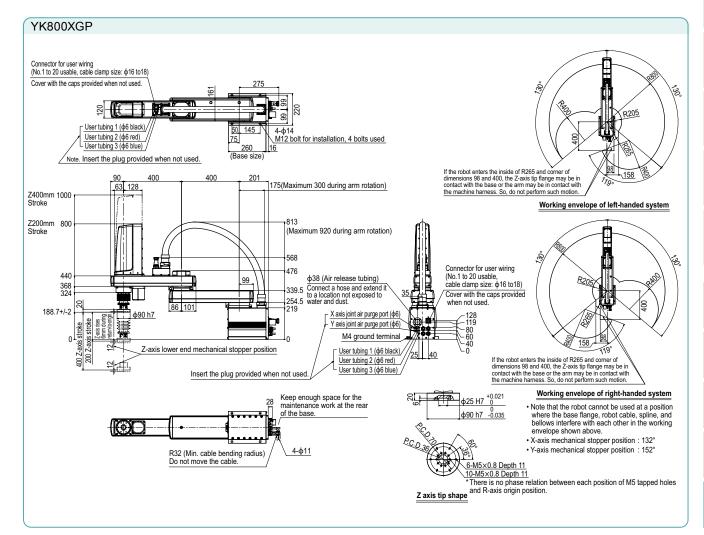
To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

- 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. Do not use robots where the bellows section is directly exposed to water jet. Contact our distributor for information on drip-proof structure preventing liquid other than water.



YK900XG

Dust-proof & drip-proof type

Arm length 900mm
Maximum payload 20kg

■ Ordering method

YK900XGP RCX340-4 Specify various controller setting items. RCX340 ▶ **P.636**

■ Specifi	cations						
<u> </u>			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		500 mm	400 mm	200 mm 400 mm	-	
specifications	Rotation ang	le	+/-130 °	+/-150 °	_	+/-360 °	
AC servo mot	or output		750 W	400 W	400 W	200 W	
Deceleration	Transmission	Motor to speed reducer		Direct	-coupled		
mechanism me	method	Speed reducer to output					
Repeatability Note 1			+/-0.0	2 mm	+/-0.01 mm	+/-0.004 °	
Maximum speed			9.9 m/sec 2.3		2.3 m/sec 1.7 m/sec	920 °/sec	
Maximum pay	load		20 kg				
Standard cycle	e time: with 2k	g payload Note 2	0.59 sec				
R-axis tolerab	le moment of	inertia Note 3	1.0 kgm²				
Protection cla	SS Note 4		Equivalent to IP65 (IEC 60529)				
User wiring (s	q × wires)		0.2 × 20				
User tubing (C	Outer diameter	r)	ф 6 × 3				
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)				
Robot cable le	ength		Standard: 3.5 m Option: 5 m, 10 m				
Weight			Z axis 200 mm: 58 kg Z axis 400 mm: 60 kg				

■ Controller Controller | Power capacity (VA) | Operation method Programming / I/O point trace Remote command / RCX340 2500 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

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.

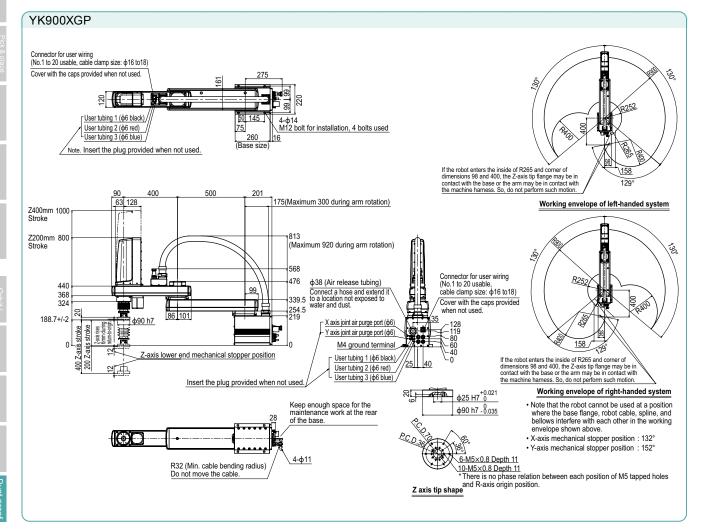
Our robot manuals (installation manuals) can be downloaded from our website at the address below: https://global.yamaha-motor.com/business/robot/

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

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

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

Do not use robots where the bellows section is directly exposed to water jet. Contact our distributor for information on drip-proof structure preventing liquid other than water.



Dust-proof & drip-proof type

Arm length 1000mm Maximum payload 20kg

YK1000XGP

Ordering method

YK1000XGP RCX340-4 Specify various controller setting items. RCX340 ▶ P.636

			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		600 mm	400 mm	200 mm 400 mm	-	
specifications		e	+/-130 °	+/-150 °	_	+/-360 °	
AC servo mot			750 W	400 W	400 W	200 W	
Deceleration	Transmission	Motor to speed reducer		Direct-	coupled		
mechanism	method	Speed reducer to output	Direct-coupled				
Repeatability Note 1			+/-0.02 mm		+/-0.01 mm	+/-0.004 °	
Maximum speed		10.6 m/sec		2.3 m/sec 1.7 m/sec	920 °/sec		
Maximum pay	load		20 kg				
Standard cycle	e time: with 2k	g payload Note 2	0.59 sec				
R-axis tolerab			1.0 kgm²				
Protection cla	SS Note 4		Equivalent to IP65 (IEC 60529)				
User wiring (s	q × wires)		0.2 × 20				
User tubing (C	Outer diameter	•)	ф 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: 60 kg Z axis 400 mm: 62 kg			

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

■ Controller

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

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.

- 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. Do not use robots where the believs section is directly exposed to water jet. Contact our distributor for information on drip-proof structure preventing liquid other than water.

