



### Standard type: Large type

● Arm length 700mm

- **Maximum payload 10kg**

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

### Ordering method

<b>YK700XGL</b>				<b>RCX340-4</b>							
<b>Model</b>	<b>Z axis stroke</b> 200: 200mm 300: 300mm	<b>Tool flange</b> No entry: None F: With tool flange	<b>Cable</b> 3L: 3.5m 5L: 5m 10L: 10m	<b>Controller / Number of controllable axes</b>	<b>Safety standard</b>	<b>Option A (OP.A)</b>	<b>Option B (OP.B)</b>	<b>Option C (OP.C)</b>	<b>Option D (OP.D)</b>	<b>Option E (OP.E)</b>	<b>Absolute battery</b>

Specify various controller setting items. **RCX340 ▶ P509**

Specify various controller setting items. RCX340 ▶ **P.508**

## ■ Specifications

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

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

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

Note 3: There are limits to acceleration coefficient settings.

#### Controller

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

Note. "Harmonic" and "Harmonic drive" are the registered trademarks of Harmonic Drive Systems Inc.

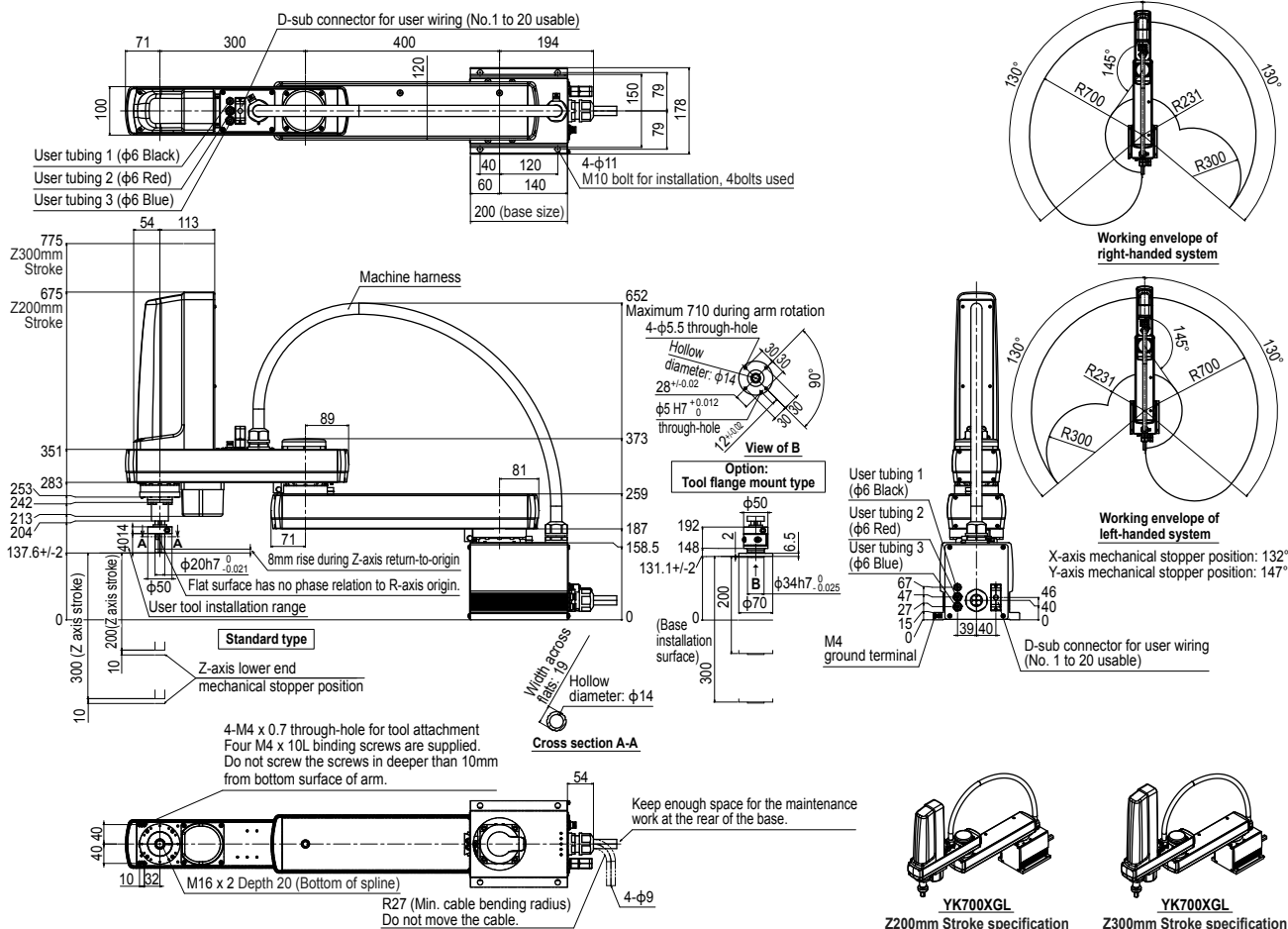
Note: The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)

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

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

Our robot manuals (installation manuals) can be downloaded from our website at the address below:  
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## YK700XGL



**YK700XGL**  
**Z200mm Stroke specification**

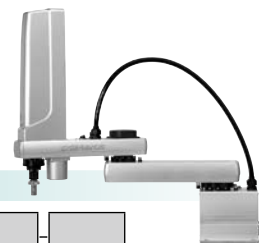
YK700XGL  
Z300mm Stroke specification

Controller

**RCX340 ► 508**

### Standard type: Large type

- Arm length 800mm
- Maximum payload 20kg



### Ordering method

# YK800XG

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

## RCX340-4

Controller / Number of controllable axes	Safety standard	Option A (OP.A)	Option B (OP.B)	Option C (OP.C)	Option D (OP.D)	Option E (OP.E)	Absolute battery
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Specify various controller setting items. RCX340 ▶ **P.508**

## RCX240

Controller	CE Marking	Regenerative unit	Expansion I/O	Network option	iVY System	Gripper	Battery
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Specify various controller setting items. RCX240/RCX240S ▶ P.495

## ■ Specifications

			X-axis	Y-axis	Z-axis		R-axis
Axis specifications	Arm length		400 mm	400 mm	200 mm	400 mm	–
	Rotation angle		+/-130 °	+/-150 °	–		+/-360 °
AC servo motor output			750 W	400 W	400 W		200 W
Deceleration mechanism	Speed reducer		Harmonic drive	Harmonic drive	Ball screw		Harmonic drive
	Transmission method	Motor to speed reducer	Direct-coupled				
		Speed reducer to output	Direct-coupled				
Repeatability <sup>Note 1</sup>			+/-0.02 mm		+/-0.01 mm		+/-0.004 °
Maximum speed			9.2 m/sec		2.3 m/sec	1.7 m/sec	920 °/sec
Maximum payload			20 kg				
Standard cycle time: with 2kg payload <sup>Note 2</sup>			0.48 sec				
R-axis tolerable moment of inertia <sup>Note 3</sup>			1.0 kgm <sup>2</sup>				
User wiring			0.2 sq × 20 wires				
User tubing (Outer diameter)			φ 6 × 3				
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)				
Robot cable length			Standard: 3.5 m Option: 5 m, 10 m				
Weight			Z axis 200 mm: 52 kg Z axis 400 mm: 54 kg				

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

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

Note 3: There are limits to acceleration coefficient settings. See P.539.

Note. Please consult YAMAHA when connecting other tubes and cables to the self-supporting machine harness.

**Controller**

Controller	Power capacity (VA)	Operation method
RCX340 RCX240-R3	2500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

Note. "Harmonic" and "Harmonic drive" are the registered trademarks of Harmonic Drive Systems Inc.

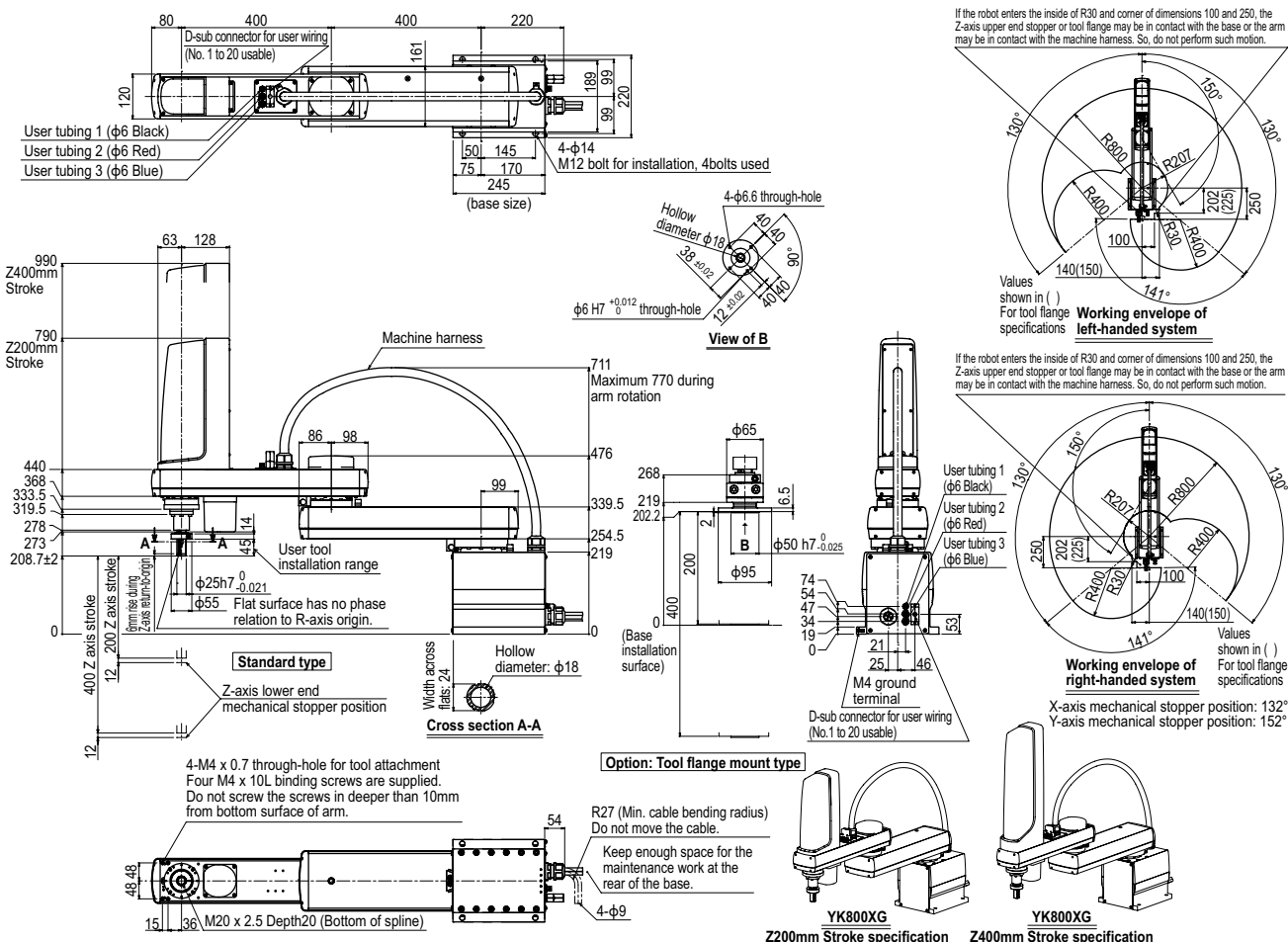
**Note.** The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)

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

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

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## YK800XG



Controller

<b>RCX340 ▶ 508</b>	<b>RCX240 ▶ 495</b>
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**Standard type: Large type**

- Arm length 1000mm
- Maximum payload 20kg



### Ordering method

# YK1000XG

YK1000XG

Model

Z axis stroke

200: 200mm

400: 400mm

Tool flange

No entry: None

F: With tool flange

Cable

3L: 3.5m

5L: 5m

10L: 10m

RXC340-4

Controller /  
Number of controllable axes

Safety standard

Option A  
(OP.A)

Option B  
(OP.B)

Option C  
(OP.C)

Option D  
(OP.D)

Option E  
(OP.E)

Absolute battery

Specify various controller setting items. RXC340 ▶ P.508

Specify various controller setting items. RCX340 ▶ **P.508**

# RCX240

<b>RCX240</b>		<b>R3</b>					<b>BB</b>
Controller	CE Marking	Regenerative unit	Expansion I/O	Network option	IVY System	Gripper	Battery

Specify various controller setting items. RCX240/RCX240S ▶ **P.495**

## Specifications

			X-axis	Y-axis	Z-axis		R-axis
Axis specifications	Arm length		600 mm	400 mm	200 mm	400 mm	–
	Rotation angle		+/-130 °	+/-150 °	–		+/-360 °
AC servo motor output			750 W	400 W	400 W		200 W
Deceleration mechanism	Speed reducer		Harmonic drive	Harmonic drive	Ball screw		Harmonic drive
	Transmission method	Motor to speed reducer	Direct-coupled				
		Speed reducer to output	Direct-coupled				
Repeatability <sup>Note 1</sup>			+/-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 payload			20 kg				
Standard cycle time: with 2kg payload <sup>Note 2</sup>			0.49 sec				
R-axis tolerable moment of inertia <sup>Note 3</sup>			1.0 kgm <sup>2</sup>				
User wiring			0.2 sq × 20 wires				
User tubing (Outer diameter)			φ 6 × 3				
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)				
Robot cable length			Standard: 3.5 m Option: 5 m, 10 m				
Weight			Z axis 200 mm: 56 kg Z axis 400 mm: 58 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: There are limits to acceleration coefficient settings. See P.539.

Note. Please consult YAMAHA when connecting other tubes and cables to the self-supporting machine harness.

**Controller**

Controller	Power capacity (VA)	Operation method
RCX340 RCX240-R3	2500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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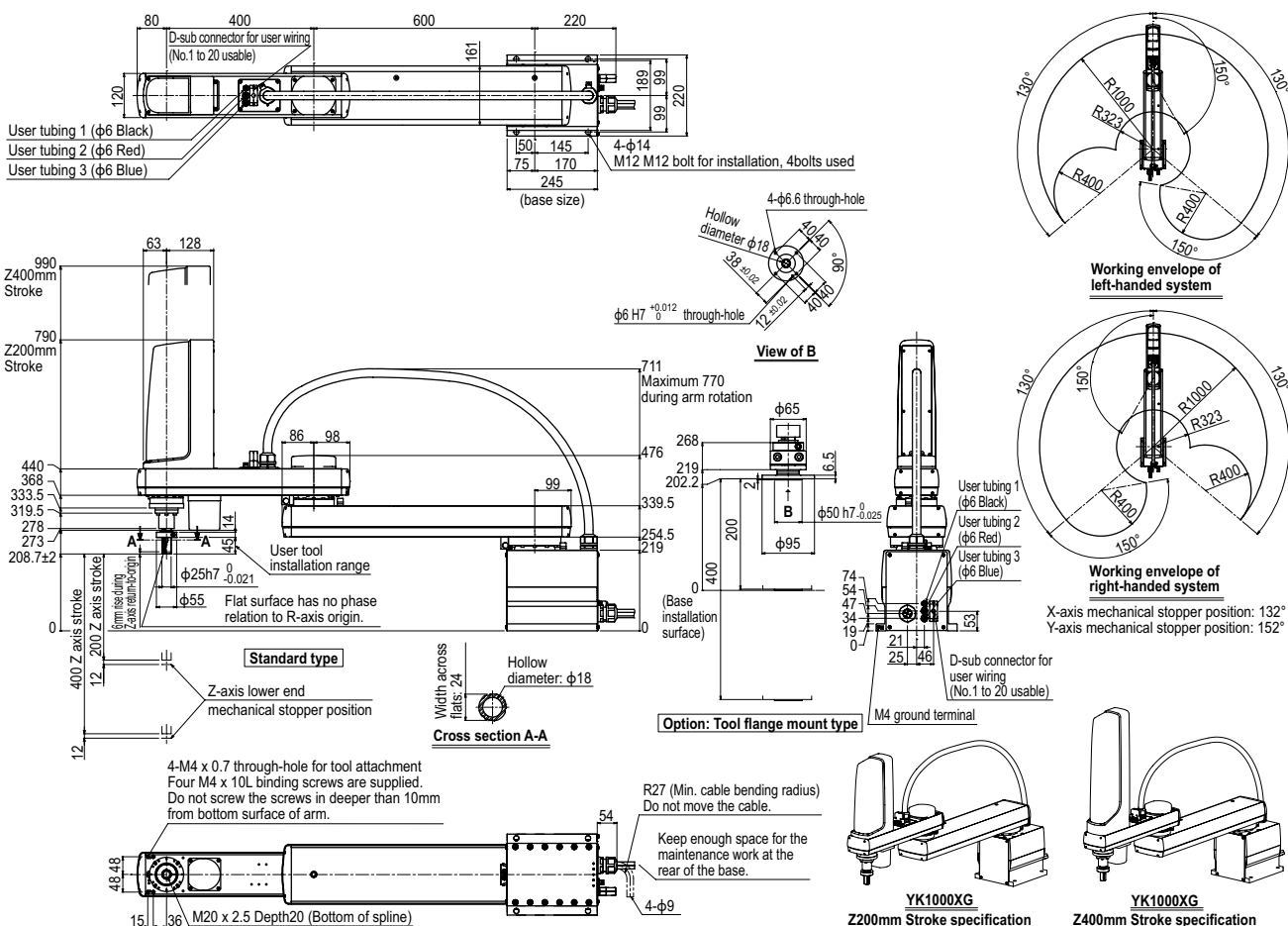
**Note.** The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)

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

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

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## YK1000XG



Controller

<b>RCX340 ▶ 508</b>	<b>RCX240 ▶ 495</b>
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# YK1200X

**Standard type: Large type**
**● Arm length 1200mm**
**● Maximum payload 50kg**

## Ordering method

**YK1200X - 400**

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

**RCX340-4**
**Controller /**
**Number of controllable axes**
**Safety**
**standard**
**Option A**
**(OP.A)**
**Option B**
**(OP.B)**
**Option C**
**(OP.C)**
**Option D**
**(OP.D)**
**Option E**
**(OP.E)**
**Absolute**
**battery**
**Specify various controller setting items. RCX340 ▶ P.508**
**RCX240**
**R**
**BB**
**Controller**
**CE Marking**
**Regenerative unit**
**Expansion I/O**
**Network option**
**IVY System**
**Gripper**
**Battery**
**Specify various controller setting items. RCX240/RCX240S ▶ P.495**

## Specifications

Axis specifications	Arm length	X-axis	Y-axis	Z-axis	R-axis
	Rotation angle	600 mm	600 mm	400 mm	—
		+/-125 °	+/-150 °	—	+/-360 °
	AC servo motor output	900 W	800 W	600 W	400 W
	Speed reducer	Planetary gear	Planetary gear	Ball screw	Harmonic drive
Deceleration mechanism	Transmission method	Motor to speed reducer		Timing belt transmission	Timing belt transmission
		Speed reducer to output		Direct-coupled	Direct-coupled
	Repeatability <sup>Note 1</sup>	+/-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 <sup>Note 2</sup>	0.91 sec			
	R-axis tolerable moment of inertia <sup>Note 3</sup>	2.45 kgm <sup>2</sup>			
	User wiring	0.2 sq × 20 wires			
	User tubing (Outer diameter)	φ 6 × 3			
	Travel limit	1.Soft limit 2.Mechanical stopper (X,Y,Z axis)			
	Robot cable length	Standard: 3.5 m Option: 5 m, 10 m			
	Weight	124 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. There are limits to acceleration coefficient settings. See P.540.

## Controller

Controller	Power capacity (VA)	Operation method
RCX340 RCX240-R	2500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)  
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## YK1200X

