

# CLEAN Type

Product Lineup

## CLEAN ROBOTS

Suitable for electronics component, food, and medical unit related work in clean room.

High sealing structure, dust generation prevention, and improvement of suction efficiency are achieved.

Both the high cleanliness degree and high performance are established.

Clean robots contribute to automation and labor saving of production systems in clean rooms.



# Both high cleanliness degree and high performance were achieved. Clean single-axis, Cartesian, and SCARA robots were added to the product lineup.

## Clean SCARA robots

### YK-XGC/XC type

The Z-axis spline is covered with bellows made of materials with low dust generation and other sliding parts are sealed completely. Harnesses are also incorporated completely and the inside of the robot is sucked from the rear of the base to prevent dust generation.

- Arm length: 180 mm to 1000 mm
- Suction amount: 30 to 60 Nℓ/min.
- Cleanliness degree: CLASS ISO3 (ISO14644-1)  
CLASS10 (FED-STD-209D)
- Maximum payload: 20 kg



### POINT 1

#### Vertical bellows structure improves the reliability of the clean performance.

As a beltless structure is used, no dust generation caused by the belt occurs. Furthermore, as the YK-XGC type was renewed to a structure, in which the bellows are installed on the Z-axis vertically, the reliability of the clean performance was further improved.

Note. Except for YK500XC to YK1000XC



### POINT 2

#### High durability

As a beltless structure is used, the robot can be operated without worry about belt elongation and secular change <sup>Note</sup>. Additionally, the bellows installed on the Z-axis use material with high durability to ensure the durability performance.

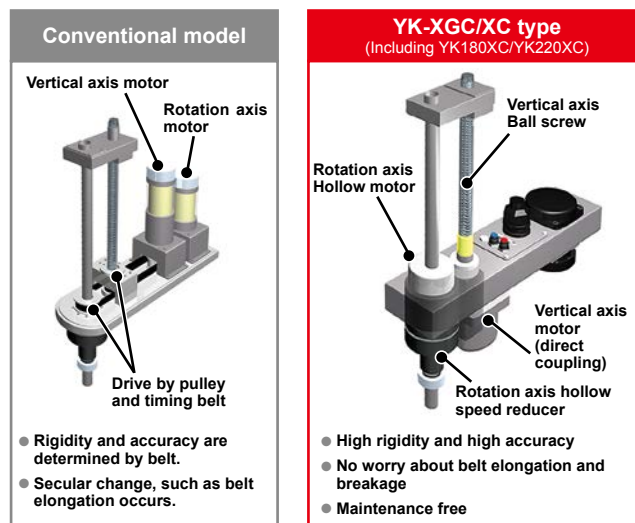
Note. Except for YK500XC to YK1000XC

### POINT 3

#### Completely beltless structure improves the rigidity.

A completely beltless structure was achieved using a ZR-axis direct coupling structure. As a speed reducer is coupled to the tip rotation axis, the R-axis tolerable moment of inertia is very high and the high-speed movement is possible even with a heavy workpiece or largely offset workpiece.

Note. Except for YK500XC to YK1000XC



Type	Model	Arm length (mm)	Maximum payload (kg)	Standard cycle time (sec.)	Beltless structure	Page
Extra small type	YK180XC	180	1.0	0.42	○	P.486
	YK220XC	220		0.45	○	P.487
Small type	YK250XGC	250	4.0	0.50	○	P.488
	YK350XGC	350		0.52	○	P.490
	YK400XGC	400		0.50	○	P.492
Medium type	YK500XC	500	10.0	0.53	-	P.496
	YK500XGLC	500	4.0	0.66	○	P.494
	YK600XC	600	10.0	0.56	-	P.499
	YK600XGLC	600	4.0	0.71	○	P.497
Large type	YK700XC	700	20.0	0.57	-	P.500
	YK800XC	800			-	P.501
	YK1000XC	1000			-	P.502

## Clean single-axis robots

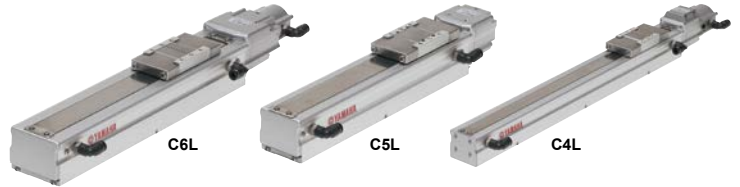
### FLIP-XC type

P.466

The FLIP-XC type robots are single-axis robots "FLIP-X series" with clean room specifications. According to the applications, an optimal robot can be selected from 14 models from a lightweight and compact model to a large model with a maximum payload of 120 kg. As an air joint for suction is provided as standard equipment, grease with low dust generative characteristics is used, and stainless sheets with an excellent durability are used for the slide table surface, high cleanliness degree is achieved.

- Stroke: 50 to 2050 mm
- Suction amount: 15 to 90 Nℓ/min.
- Cleanliness degree: CLASS10<sup>Note</sup>
- Maximum payload: 120 kg (When installed horizontally)

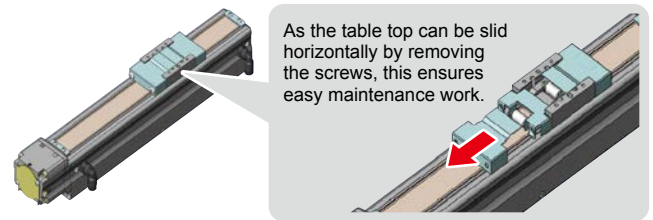
Note. C4L/C4LH, C5L/C5LH, and C6L are CLASS ISO3 (ISO14644-1).



### POINT

#### Excellent maintenance ability

For C4L to C6L models, removing the screws from the side panel of the slider will allow replacement of the inner roller without detaching the tool. For C8 to C20 models, even when the direct coupling structure is used, the motor or ball screw can be replaced individually.



Model	Size (mm) <sup>Note</sup>	Lead (mm)	Maximum payload (kg)		Maximum speed (mm/sec.)	Stroke (mm)	Page
			Horizontal	Vertical			
C4L C4LH	W45 × H55	12	4.5	1.2	720	50 to 400	C4L : P.466 C4LH : P.467
		6	6	2.4	360		
		2	6	7.2	120		
C5L C5LH	W55 × H65	20	3	-	1000	50 to 800	C5L : P.468 C5LH : P.469
		12	5	1.2	800		
		6	9	2.4	400		
C6L	W65 × H65	20	10	-	1000	50 to 800	P.470
		12	12	4	800		
		6	30	8	400		
C8	W80 × H75	20	12	-	1000	150 to 800	P.471
		12	20	4	720		
		6	40	8	360		
C8L	W80 × H75	20	20	4	1000	150 to 1050	P.472
		10	40	8	600		
		5	50	16	300		
C8LH	W80 × H75	20	30	-	1000	150 to 1050	P.473
		10	60	-	600		
		5	80	-	300		
C10	W104 × H85	20	20	4	1000	150 to 1050	P.474
		10	40	10	500		
		5	60	20	250		
C14	W136 × H96	20	30	4	1000	150 to 1050	P.475
		10	55	10	500		
		5	80	20	250		
C14H	W136 × H96	20	40	8	1000	150 to 1050	P.476
		10	80	20	500		
		5	100	30	250		
C17	W168 × H114	20	80	15	1000	250 to 1250	P.477
		10	120	35	600		
C17L	W168 × H114	50	50	10	1000	1150 to 2050	P.478
C20	W202 × H117	20	120	25	1000	250 to 1250	P.479
		10	-	45	500		

Note 1. The size shows approximate maximum cross sectional size.

## Clean single-axis robots

### SSC type (TRANSERVO)

P.463

The SSC type robots are stepping motor single-axis robots "TRANSERVO series" with clean room specifications. Use of a newly developed vector control method achieves the function and performance equivalent to the servomotor at a low cost even using the stepping motor. As an air joint for suction is provided as standard equipment, grease with low dust generative characteristics is used and stainless sheets with an excellent durability are used for the slide table surface, the high cleanliness degree is achieved.

- Stroke: 50 to 800 mm
- Suction amount: 15 to 80 Nℓ/min.
- Cleanliness degree: CLASS10
- Maximum payload: 12 kg (When installed horizontally)



Model	Size (mm) <sup>Note 1</sup>	Lead (mm)	Maximum payload (kg)		Maximum speed (mm/sec.)	Stroke (mm)	Page
			Horizontal	Vertical			
SSC04	W49 × H59	12	2	1	600	50 to 400	P.463
		6	4	2	300		
		2	6	4	100		
SSC05	W55 × H56	20	4	-	1000	50 to 800	P.464
		12	6	1	600		
		6	10	2	300		
SSC05H	W55 × H56	20	6	-	1000	50 to 800	P.465
		12	8	2	600 (horizontal) / 500 (vertical)		
		6	12	4	300 (horizontal) / 250 (vertical)		

Note 1. The size shows approximate maximum cross sectional size.

## Clean Cartesian robots

### XY-XC type

P.480

This Cartesian robot XY-XC type is applicable to clean rooms. As stainless sheets with excellent durability are used, the opening can be designed to be its minimum level and the robots area applicable to CLASS10 with less suction amount. Furthermore, as the ZR-axis of the SXYxC uses a super high speed unit of the SCARA robot, this achieves great reduction of the cycle time.

- Suction amount: 60 to 90 Nℓ/min.
- Cleanliness degree: CLASS10 <sup>Note</sup>
- Maximum payload: 20 kg
- Maximum speed: 1000 mm/sec.

Note. User wiring: D-Sub 25-pin connector (Numbers 1 to 24 are already wired and number 25 is frame ground.)  
Note. User tubing: φ 6-air tube, 3 pcs.



Type	Model	Axis	Movement range	Maximum speed (mm/sec.)	Maximum payload (kg)	Page
2 axes	SXYxC	X	150 to 1050 mm	1000	20	P.480
		Y	150 to 650 mm	1000		
3 axes	SXYxC (ZSC12)	X	150 to 1050 mm	1000	3	P.482
		Y	150 to 650 mm	1000		
		Z	150 mm	1000		
3 axes	SXYxC (ZSC6)	X	150 to 1050 mm	1000	5	P.483
		Y	150 to 650 mm	1000		
		Z	150 mm	500		
4 axes	SXYxC (ZRSC12)	X	150 to 1050 mm	1000	3	P.484
		Y	150 to 650 mm	1000		
		Z	150 mm	1000		
		R	360 °	1020 °/sec		
4 axes	SXYxC (ZRSC6)	X	150 to 1050 mm	1000	5	P.485
		Y	150 to 650 mm	1000		
		Z	150 mm	500		
		R	360 °	1020 °/sec		



Articulated robots YA
Linear conveyor modules LCM100
Motor-less single axis actuator Robonity
Compact single-axis robots TRANSERVO
Single-axis robots FLIP-X
Linear motor single-axis robots PHASER
Cartesian robots XY-X
SCARA robots YK-X
Pick & place robots YP-X
<b>CLEAN</b>
CONTROLLER
INFORMATION
Single-axis
Cartesian
SCARA

# CLEAN ROBOTS

# CLEAN

# TYPE

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# CLEAN ROBOTS SPECIFICATION SHEET

## Clean single-axis robots

### ●TRANSERVO

- Degree of cleanliness CLASS 10
- Intake air 15 to 80Nℓ/min

Model	Lead (mm)	Payload (kg)		Stroke (mm) and maximum speed (mm/sec)																Detailed info page		
		Horizontal	Vertical	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800			
SSC04	12	2	1	600																		P.463
	6	4	2	300																		
	2	6	4	100																		
SSC05	20	4	–	1000						933	833	733	633							P.464		
	12	6	1	600						560	500	440	380									
	6	10	2	300						280	250	220	190									
SSC05H	20	6	–	1000						933	833	733	633							P.465		
		8	–	600						560	500	440	380									
	–	2	500										440	380								
	12	–	300						280	250	220	190										
	6	–	4	250										220	190							

### ●FLIP-XC

- Degree of cleanliness C4L/C4LH/C5L/C5LH/C6L ..... ISO CLASS 3 (ISO14644-1) <sup>Note</sup>
- Models other than those shown above .... CLASS 10
- Note. Class 10 (0.1µm) equivalent to FED-STD-209D

- Intake air 20 to 90Nℓ/min

Model	AC servo motor output (W)	Repeatability (mm)	Lead (mm)	Payload (kg)		Stroke (mm) and maximum speed (mm/sec)																							
				Horizontal	Vertical	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950					
C4L / C4LH	30	+/-0.02	12	4.5	1.2	720																							
			6	6	2.4	360																							
			2	6	7.2	120																							
C5L / C5LH	30	+/-0.02	20	3	–	1000																							
			12	5	1.2	800																							
			6	9	2.4	400																							
C6L	60	+/-0.02	20	10	–	1000																							
			12	12	4	800																							
			6	30	8	400																							
C8	100	+/-0.02	20	12	–	1000						900	800	700	650														
			12	20	4	720						648	540	468	432	360													
			6	40	8	360						324	270	234	216	180													
C8L	100	+/-0.01	20	20	4	1000						900	800	700	650	600													
			10	40	8	600						510	450	390	360	330	300												
			5	50	16	300						255	225	195	180	165	150												
C8LH	100	+/-0.01	20	30	–	1000						900	800	700	650	600	550												
			10	60	–	600						510	450	390	360	330	300	270											
			5	80	–	300						255	225	195	180	165	150	135											
C10	100	+/-0.01	20	20	4	1000						950	750	600															
			10	40	10	500						475	375	300															
			5	60	20	250						237	187	150															
C14	100	+/-0.01	20	30	4	1000						950	750	600															
			10	55	10	500						475	375	300															
			5	80	20	250						237	187	150															
C14H	200	+/-0.01	20	40	8	1000						950	750	600															
			10	80	20	500						475	375	300															
			5	100	30	250						237	187	150															
C17	400	+/-0.01	20	80	15	1000						800																	
			10	120	35	500						400																	
C17L	600	+/-0.02	50	50	10																								
C20	600	+/-0.01	20	120	25	1000						800																	
			10	–	45	500						400																	

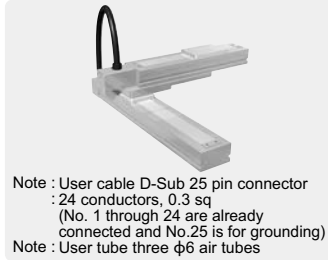
																					Detailed info page				
	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050			
																								C4L : <b>P.466</b> C4LH : <b>P.467</b>	
																									C5L : <b>P.468</b> C5LH : <b>P.469</b>
																									<b>P.470</b>
																									<b>P.471</b>
	550	500																							<b>P.472</b>
	270	240																							<b>P.473</b>
	135	120																							<b>P.474</b>
	500	450																							<b>P.475</b>
	240	210																							<b>P.476</b>
	120	105																							<b>P.477</b>
	600	500																							<b>P.478</b>
	300	250																							<b>P.479</b>
	150	125																							
	600	500																							
	300	250																							
	150	125																							
	600	500																							
	300	250																							
	150	125																							
	800	700	600	500																					
	400	350	300	250																					
				1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	900	800	800	800	800	800	800		
	800	700	600	500																					
	400	350	300	250																					



Clean cartesian robots

● XY-XC

- Degree of cleanliness CLASS 10
- Intake air 60 to 90Nℓ/min
- Aperture designed to minimal dimensions by use of stainless steel sheet
- Installed clean robot dedicated cable duct

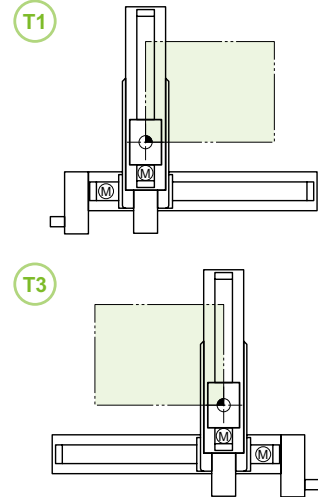


Type	Model	Axis	Moving range	Maximum speed (mm/sec)	Maximum payload (kg)	Detailed info page
2 axes	SXYXC	X	150 to 1050mm	1000	20	P.480
		Y	150 to 650mm	1000		
3 axes	SXYXC (ZSC12)	X	150 to 1050mm	1000	3	P.482
		Y	150 to 650mm	1000		
		Z	150mm	1000		
	SXYXC (ZSC6)	X	150 to 1050mm	1000	5	P.482
		Y	150 to 650mm	1000		
		Z	150mm	500		
4 axes	SXYXC (ZRSC12)	X	150 to 1050mm	1000	3	P.484
		Y	150 to 650mm	1000		
		Z	150mm	1000		
		R	360°	1020°/sec		
	SXYXC (ZRSC6)	X	150 to 1050mm	1000	5	P.484
		Y	150 to 650mm	1000		
		Z	150mm	500		
		R	360°	1020°/sec		

Arm variations



Special model for clean rooms with moving Y-axis carriage installed upward.



Clean SCARA robots

● YK-XC/YK-XGC/YK-XGLC

- Degree of cleanliness YK-XC ..... CLASS 10  
YK-XGC/YK-XGLC... ISO CLASS 3 (ISO14644-1) <sup>Note</sup>  
Note. Class 10 (0.1μm) equivalent to FED-STD-209D

- Intake air 30 to 60Nℓ/min
- Harness placed completely on inside

- Bellows cover fitted in axial tip



Passed 20 million stroke durability test

Type	Model	Arm length (mm) and XY axis combined maximum speed (m/s)														Standard cycle time (sec)	Maximum payload (kg)	R axis tolerable moment of inertia (kgm <sup>2</sup> )	Detailed info page			
		120	150	180	220	250	300	350	400	500	600	700	800	900	1000					1200		
Extra small type	YK180XC	3.3m/s															0.42	1.0	0.01	P.486		
	YK220XC	3.4m/s																0.45	1.0	0.01	P.487	
Small type	YK250XGC	4.5m/s																0.50	4.0	0.05	P.488	
	YK350XGC	5.6m/s																0.52	4.0	0.05	P.490	
	YK400XGC	6.1m/s																0.50	4.0	0.05	P.492	
	YK500XGLC	5.1m/s																0.66	4.0	0.05	P.494	
Medium type	YK500XC	4.9m/s																0.53	10.0	0.12	P.496	
	YK600XGLC	4.9m/s																0.71	4.0	0.05	P.497	
	YK600XC	5.6m/s																0.56	10.0	0.12	P.499	
Large type	YK700XC	6.7m/s																0.57	20.0	0.32	P.500	
	YK800XC	7.3m/s																	0.57	20.0	0.32	P.501
	YK1000XC	8.0m/s																0.60	20.0	0.32	P.502	



# SSC04

## Slider type



- CE compliance
- Origin on the non-motor side is selectable

### Ordering method

<b>SSC04</b>		<b>S</b>						
<b>Model</b>	<b>Lead</b>	<b>Type</b>	<b>Brake</b>	<b>Direction of air coupler installation</b>	<b>Origin position</b>	<b>Stroke</b>	<b>Cable length</b> <sup>Note 2</sup>	
	12: 12mm 6: 6mm 2: 2mm	S: Straight	N: With no brake B: With brake	RJ: Right (Standard) LJ: Left	N: Standard <sup>Note 1</sup> Z: Non-motor side	50 to 400 (50mm pitch)	1L: 1m 3L: 3m 5L: 5m 10L: 10m	

<b>S2</b>	<b>S2</b>	<b>I/O</b>
<b>Robot positioner</b>	S2: TS-S2 <sup>Note 3</sup>	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board <sup>Note 4</sup>
<b>SH</b>	<b>SH</b>	<b>Battery</b>
<b>Robot positioner</b>	SH: TS-SH	B: With battery (Absolute) N: None (Incremental)
<b>SD</b>	<b>SD</b>	<b>1</b>
<b>Robot driver</b>	SD: TS-SD	I/O cable 1: 1m

Note 1. If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.  
 Note 2. The robot cable is flexible and resists bending.  
 Note 3. See P.522 for DIN rail mounting bracket.  
 Note 4. Select this selection when using the gateway function. For details, see P.66.

### Basic specifications

<b>Motor</b>	42 □ Step motor
<b>Repeatability</b> <sup>Note 1</sup> (mm)	+/-0.02
<b>Deceleration mechanism</b>	Ball screw φ8
<b>Maximum motor torque (N·m)</b>	0.27
<b>Ball screw lead (mm)</b>	12    6    2
<b>Maximum speed (mm/sec)</b>	600    300    100
<b>Maximum payload (kg)</b>	Horizontal: 2, 4, 6 Vertical: 1, 2, 4
<b>Max. pressing force (N)</b>	45    90    150
<b>Stroke (mm)</b>	50 to 400 (50mm pitch)
<b>Overall length (mm)</b>	Horizontal: Stroke+216 Vertical: Stroke+261
<b>Maximum outside dimension of body cross-section (mm)</b>	W49 × H59
<b>Cable length (m)</b>	Standard: 1 / Option: 3, 5, 10
<b>Degree of cleanliness</b>	CLASS 10 <sup>Note 2</sup>
<b>Intake air (Nl/min)</b>	Lead 12: 50    Lead 6: 30    Lead 2: 15

Note 1. Positioning repeatability in one direction.  
 Note 2. Per 1cf (0.1µm base), when suction blower is used.

### Allowable overhang

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)					
	A	B	C		A	B	C		A	C			
Lead 12	1kg	807	218	292	Lead 12	1kg	274	204	776	Lead 12	0.5kg	407	408
	2kg	667	107	152		2kg	133	93	611		1kg	204	204
Lead 6	2kg	687	116	169	Lead 6	2kg	149	102	656	Lead 6	1kg	223	223
	3kg	556	76	112		3kg	92	62	516		2kg	107	107
	4kg	567	56	84	Lead 2	4kg	63	43	507	Lead 2	2kg	118	118
Lead 2	4kg	869	61	92		4kg	72	48	829		4kg	53	53
	6kg	863	40	60	Lead 2	6kg	39	29	789				

Note. Distance from center of slider upper surface to conveyor center-of-gravity at a guide service life of 10,000 km (Service life is calculated for 400mm stroke models).

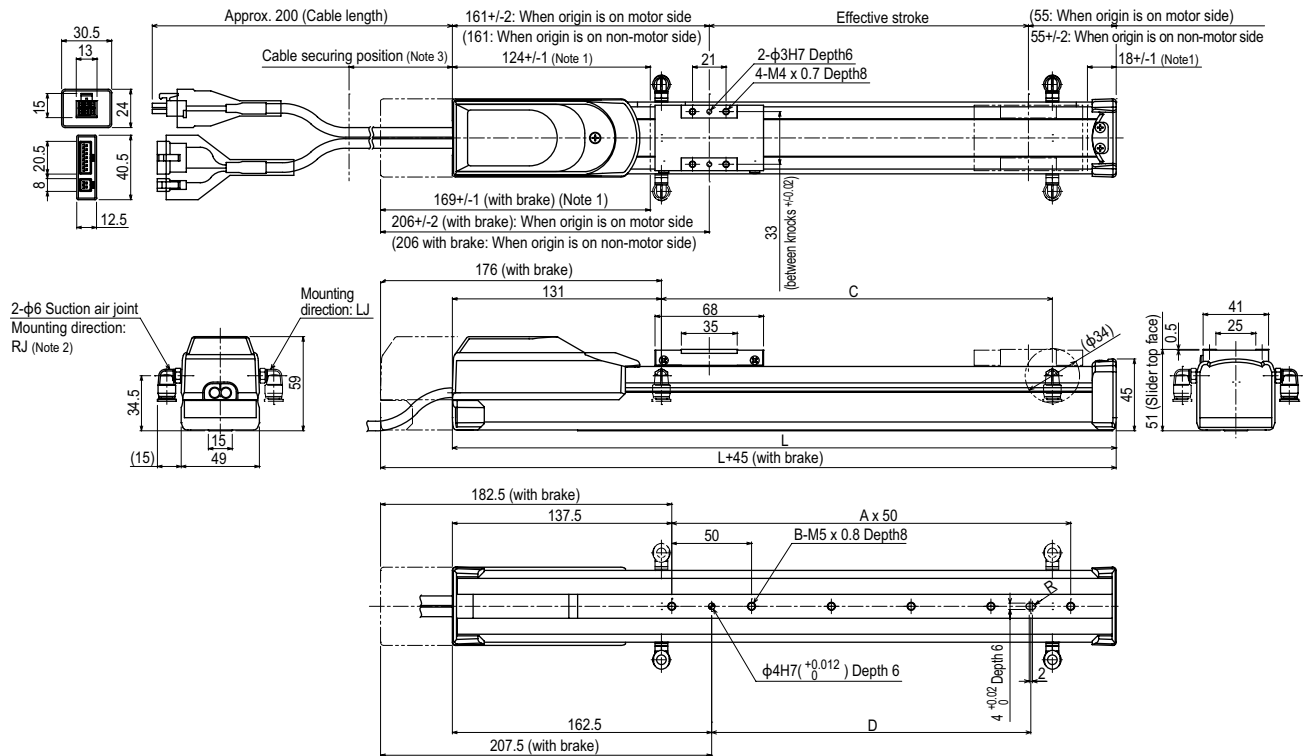
### Static loading moment

Static loading moment (Unit: N·m)		
MY	MP	MR
16	19	17

### Controller

Controller	Operation method
TS-S2	I/O point trace / Remote command
TS-SH	Remote command
TS-SD	Pulse train control

### SSC04



Effective stroke	50	100	150	200	250	300	350	400
<b>L</b>	266	316	366	416	466	516	566	616
<b>A</b>	2	3	4	5	6	7	8	9
<b>B</b>	3	4	5	6	7	8	9	10
<b>C</b>	50	100	150	200	250	300	350	400
<b>Weight (kg)</b> <sup>Note 5</sup>	1.5	1.6	1.7	1.8	2.0	2.1	2.2	2.3

Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
 Note 2. Either right or left can be selected for the suction air joint mounting direction. This drawing shows the RJ (standard) direction.  
 Note 3. Secure the cable with a tie-band 100mm or less from unit's end face to prevent the cable from being subjected to excessive loads.  
 Note 4. The cable's minimum bend radius is R30.  
 Note 5. These are the weights without a brake. The weights are 0.2kg heavier when equipped with a brake.

Articulated robots  
YA

Linear conveyor modules  
LCM100

Motor-less single-axis actuator  
Robonity

Compact single-axis robots  
TRANSEVO

Single-axis robots  
FLIP-X

Linear motor single-axis robots  
PHASER

Cartesian robots  
XY-X

SCARA robots  
YK-X

Pick & place robots  
YP-X

CLEAN

CONTROLLER INFORMATION

Single-axis  
Cartesian  
SCARA

# SSC05

Slider type



- High lead: Lead 20
- CE compliance
- Origin on the non-motor side is selectable

## Ordering method

<b>SSC05</b>	<b>S</b>						
Model	Lead	Type	Brake	Direction of air coupler installation	Origin position	Stroke	Cable length
	20: 20mm 12: 12mm 6: 6mm	S: Straight	N: With no brake B: With brake	RJ: Right (Standard) LJ: Left	N: Standard Z: Non-motor side	50 to 800 (50mm pitch)	1L: 1m 3L: 3m 5L: 5m 10L: 10m

<b>S2</b>		
Robot positioner	I/O	Battery
S2: TS-S2	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	B: With battery (Absolute) N: None (Incremental)
<b>SH</b>		
Robot positioner	I/O	Battery
SH: TS-SH	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	B: With battery (Absolute) N: None (Incremental)
<b>SD</b>	<b>1</b>	
Robot driver	I/O cable	
SD: TS-SD	t: 1m	

Note 1. Only the model with a lead of 12mm or 6mm can select specifications with brake.  
 Note 2. If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.  
 Note 3. The robot cable is flexible and resists bending.  
 Note 4. See P.522 for DIN rail mounting bracket.  
 Note 5. Select this selection when using the gateway function. For details, see P.66.

## Basic specifications

<b>Motor</b>	42 □ Step motor
<b>Repeatability</b> (mm)	+/-0.02
<b>Deceleration mechanism</b>	Ball screw φ12
<b>Maximum motor torque (N·m)</b>	0.27
<b>Ball screw lead (mm)</b>	20    12    6
<b>Maximum speed (mm/sec)</b>	1000    600    300
<b>Maximum payload (kg)</b>	Horizontal: 4, 6, 10 Vertical: -    1    2
<b>Max. pressing force (N)</b>	27    45    90
<b>Stroke (mm)</b>	50 to 800 (50mm pitch)
<b>Overall length (mm)</b>	Horizontal: Stroke+230 Vertical: Stroke+270
<b>Maximum outside dimension of body cross-section (mm)</b>	W55 × H56
<b>Cable length (m)</b>	Standard: 1 / Option: 3, 5, 10
<b>Degree of cleanliness</b>	CLASS 10
<b>Intake air (Nl/min)</b>	Lead 20: 80    Lead 12: 50    Lead 6: 30

Note 1. Positioning repeatability in one direction.  
 Note 2. When the stroke is longer than 650mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.  
 Note 3. Per 1cf (0.1μm base), when suction blower is used.

## Allowable overhang

	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)				
	A	B	C	A	B	C	A	C			
Lead 20	2kg	413	139	218	2kg	192	123	372	0.5kg	578	579
Lead 12	4kg	334	67	120	4kg	92	51	265	1kg	286	286
Lead 6	4kg	347	72	139	4kg	109	57	300	1kg	312	312
Lead 6	6kg	335	47	95	6kg	63	31	263	2kg	148	148
Lead 6	4kg	503	78	165	4kg	134	63	496			
Lead 6	8kg	332	37	79	6kg	76	35	377			
Lead 6	10kg	344	29	62	8kg	47	22	355			

## Static loading moment

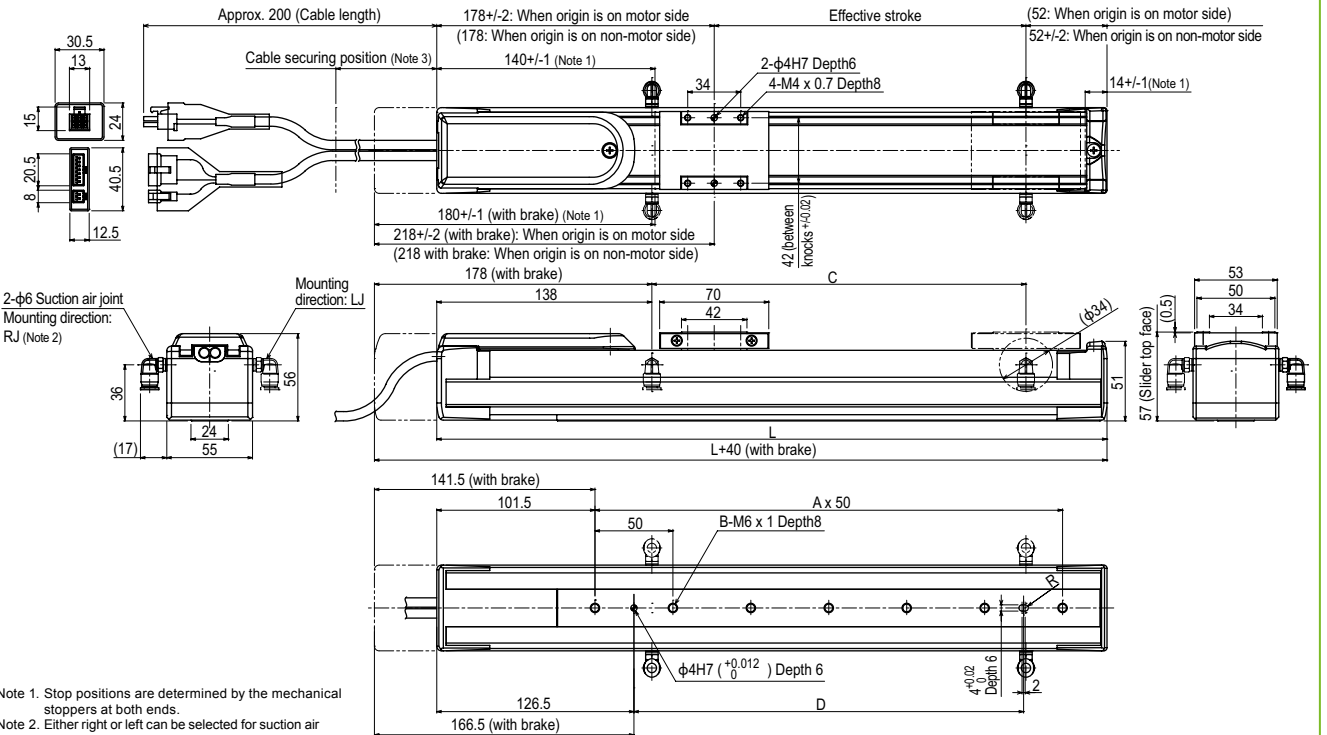
(Unit: N·m)		
MY	MP	MR
25	33	30

## Controller

Controller	Operation method
TS-S2	I/O point trace / Remote command
TS-SH	Remote command
TS-SD	Pulse train control

Note. Distance from center of slider upper surface to conveyor center-of-gravity at a guide service life of 10,000 km (Service life is calculated for 600mm stroke models).

## SSC05



Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
 Note 2. Either right or left can be selected for suction air joint mounting direction. This drawing shows the RJ (standard) direction.  
 Note 3. Secure the cable with a tie-band 100mm or less from unit's end face to prevent the cable from being subjected to excessive loads.  
 Note 4. The cable's minimum bend radius is R30.  
 Note 5. These are the weights without a brake. The weights are 0.2kg heavier when equipped with a brake.  
 Note 6. When the stroke is longer than 650mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030
A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
B	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
C	100	150	200	250	300	350	400	450	500	500	500	500	500	500	500	500
Weight (kg)	2.1	2.3	2.5	2.7	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0
Maximum speed for each stroke (mm/sec)	Lead 20	1000														
	Lead 12	933														
	Lead 6	600														
Maximum speed for each stroke (mm/sec)	Lead 20	300														
	Lead 12	560														
	Lead 6	280														

# SSC05H

Slider type



- High lead: Lead 20
- CE compliance
- Origin on the non-motor side is selectable

## Ordering method

**SSC05H** - **S** - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

Model	Lead	Type	Brake	Direction of air coupler installation	Origin position	Stroke	Cable length	S2	I/O	Battery
	20: 20mm 12: 12mm 6: 6mm	S: Straight	N: With no brake B: With brake	R: Right (Standard) L: Left	N: Standard Z: Non-motor side	50 to 800 (50mm pitch)	1L: 1m 3L: 3m 5L: 5m 10L: 10m	Robot positioner S2: TS-S2	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	B: With battery (Absolute) N: None (Incremental)
								SH	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	
								SD	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	

Note 1. Only the model with a lead of 12mm or 6mm can select specifications with brake.  
 Note 2. If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.  
 Note 3. The robot cable is flexible and resists bending.  
 Note 4. See P.522 for DIN rail mounting bracket.  
 Note 5. Select this selection when using the gateway function. For details, see P.66.

## Basic specifications

Motor	42 □ Step motor		
Repeatability	±0.02 (mm)		
Deceleration mechanism	Ball screw φ12		
Maximum motor torque (N·m)	0.47		
Ball screw lead (mm)	20	12	
Maximum speed (mm/sec)	Horizontal	1000	
	Vertical	500	
Maximum payload (kg)	Horizontal	6	
	Vertical	2	
Max. pressing force (N)	Stroke	36	
	Stroke	60	
	Stroke	120	
Overall length (mm)	Horizontal	Stroke+286	
	Vertical	Stroke+306	
Maximum outside dimension of body cross-section (mm)	W55 × H56		
Cable length (m)	Standard: 1 / Option: 3, 5, 10		
Degree of cleanliness	CLASS 10		
Intake air (Nl/min)	Lead 20	Lead 12	Lead 6
	80	50	30

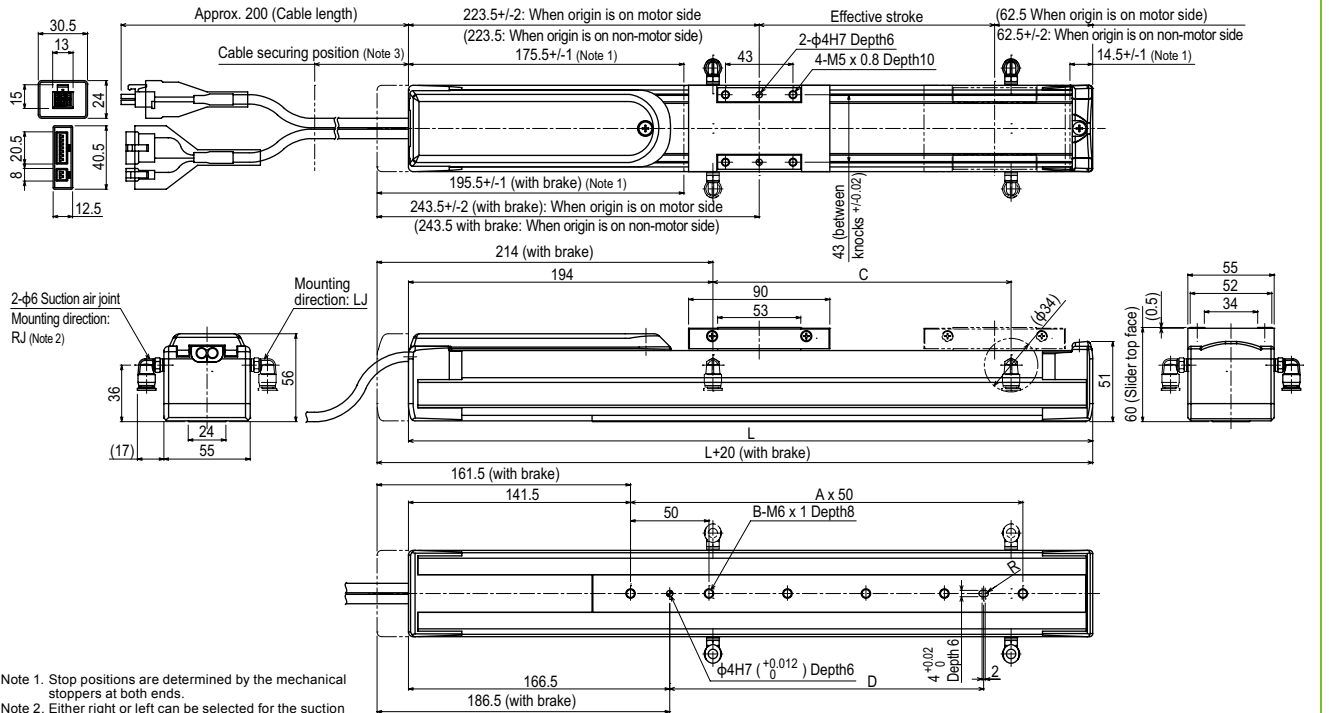
Note 1. Positioning repeatability in one direction.  
 Note 2. When the stroke is longer than 650mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.  
 Note 3. Per 1cf (0.1um base), when suction blower is used.

## Allowable overhang

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)				
	A	B	C		A	B	C		A	C		
Lead 20	2kg	599	225	291	2kg	262	203	554	Lead 12	1kg	458	459
	4kg	366	109	148	4kg	118	88	309		2kg	224	224
	6kg	352	71	104	6kg	71	49	262		2kg	244	245
	4kg	500	118	179	4kg	146	96	449		4kg	113	113
Lead 12	6kg	399	79	118	6kg	85	55	334	Lead 6	1kg	458	459
	8kg	403	56	88	8kg	55	34	305		2kg	224	224
	6kg	573	83	136	6kg	101	62	519		4kg	113	113
	8kg	480	61	100	8kg	64	39	413				
Lead 6	10kg	442	47	78	10kg	43	26	355				
	12kg	465	39	64	12kg	28	17	338				

Note. Distance from center of slider upper surface to conveyor center-of-gravity at a guide service life of 10,000 km (Service life is calculated for 600mm stroke models).

## SSC05H



Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
 Note 2. Either right or left can be selected for the suction air joint mounting direction. This drawing shows the RJ (standard) direction.  
 Note 3. Secure the cable with a tie-band 100mm or less from unit's end face to prevent the cable from being subjected to excessive loads.  
 Note 4. The cable's minimum bend radius is R30.  
 Note 5. These are the weights without a brake. The weights are 0.2kg heavier when equipped with a brake.  
 Note 6. When the stroke is longer than 650mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	336	386	436	486	536	586	636	686	736	786	836	886	936	986	1036	1086
A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
B	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
C	100	150	200	250	300	350	400	450	500	500	500	500	500	500	500	500
Weight (kg)	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.5	4.7	4.9	5.1	5.3
Maximum speed for each stroke (mm/sec)	Lead 20	1000														
	Lead 12 (Horizontal)	600														
	Lead 12 (Vertical)	500														
	Lead 6 (Horizontal)	300														
	Lead 6 (Vertical)	250														

Controller

TS-S2 ▶ 514 TS-SH ▶ 514 TS-SD ▶ 524



## Ordering method

<b>C4L</b>							<b>ERCD</b>	
<b>Model</b>	<b>Lead designation</b>	<b>Brake</b>	<b>Direction of air coupler installation</b>	<b>Origin position change</b>	<b>Stroke</b>	<b>Cable length</b> <small>Note 1</small>	<b>Controller</b>	<b>I/O connector specification</b>
	12: 12mm 6: 6mm 2: 2mm	No entry: With no brake BK: With brake	L: Left (Standard) R: Right	None: Standard Z: Non-motor side	50 to 400 (50mm pitch)	1K: 1m 3K: 3.5m 5K: 5m 10K: 10m		CN1: I/O flat cable 1m (Standard) CN2: Twisted-pair cable 2m (pulse train function)

Note 1. The robot cable is flexible and resists bending. See P.614 for details on robot cable.

## Basic specifications

<b>AC servo motor output (W)</b>	30
<b>Repeatability</b> <small>Note 1</small> (mm)	+/-0.02
<b>Deceleration mechanism</b>	Ball screw φ8
<b>Ball screw lead (mm)</b>	12    6    2
<b>Maximum speed (mm/sec)</b>	720    360    120
<b>Maximum payload (kg)</b>	<b>Horizontal</b> 4.5    6    6 <b>Vertical</b> 1.2    2.4    7.2
<b>Rated thrust (N)</b>	32    64    153
<b>Stroke (mm)</b>	50 to 400 (50mm pitch)
<b>Overall length (mm)</b>	<b>Horizontal</b> Stroke+205 <b>Vertical</b> Stroke+243
<b>Maximum outside dimension of body cross-section (mm)</b>	W45×H55
<b>Cable length (m)</b>	Standard: 3.5 / Option: 1.5, 10
<b>Degree of cleanliness</b>	ISO CLASS 3 (ISO14644-1) <small>Note 2</small>
<b>Intake air (Nl/min)</b> <small>Note 3</small>	50    30    15

Note 1. Positioning repeatability in one direction.  
Note 2. CLASS 10 (0.1µm) FED-STD-209D or equivalent when a suction blower is used.  
Note 3. The necessary intake amount varies depending on the use conditions and environment.

## Allowable overhang

Installation type	Lead	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)						
		A	B	C	A	B	C	A	C					
Horizontal	Lead 12	2kg	429	87	179	2kg	145	52	368	Vertical	Lead 12	1.2kg	121	122
	4.5kg	219	32	74	4.5kg	46	0	139	Lead 6		2.4kg	52	54	
	3kg	511	58	135	3kg	103	22	370	3kg		37	39		
	6kg	336	26	62	6kg	27	0	185	7.2kg		0	0		
Wall	Lead 2	3kg	1571	58	142	3kg	109	23	1150	Vertical	Lead 2	3kg	37	39
	6kg	751	27	66	6kg	27	0	420	7.2kg		0	0		

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.  
Note. Service life is calculated for 300mm stroke models.

## Static loading moment

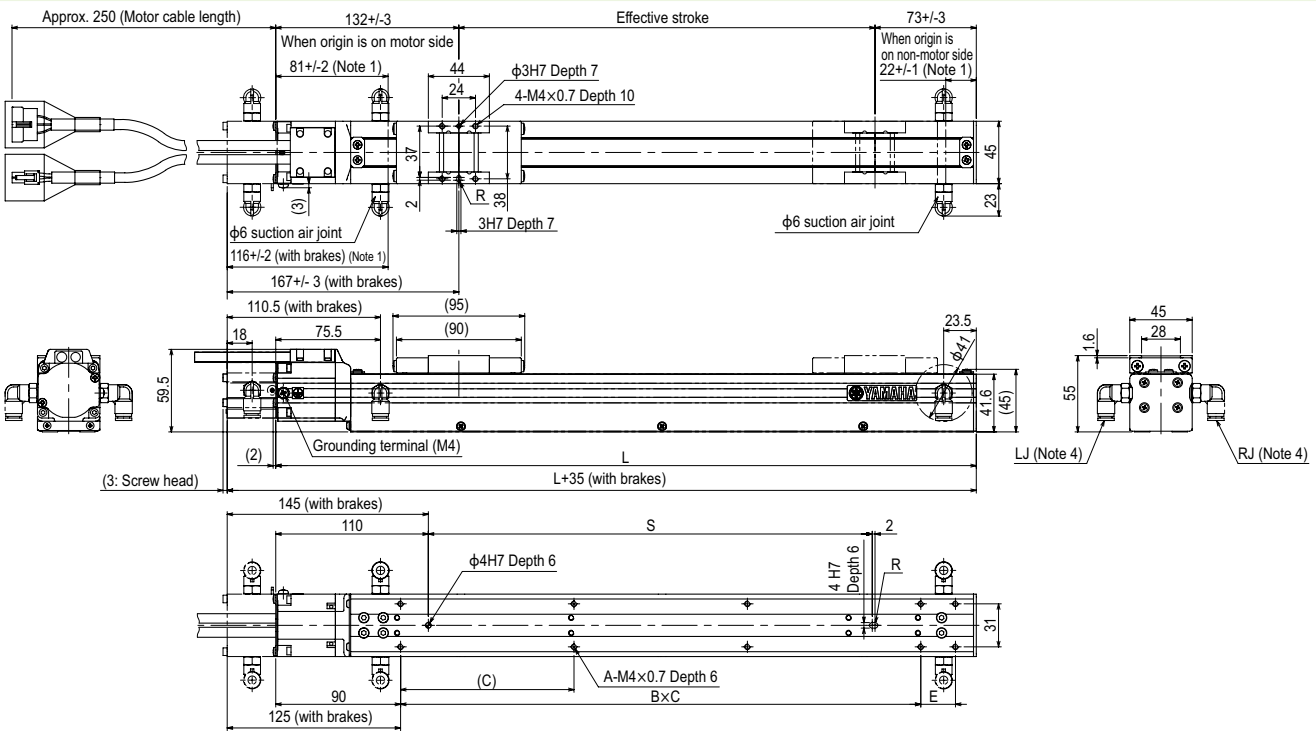
<b>MY</b>	<b>MP</b>	<b>MR</b>
15	19	18

(Unit: N·m)

## Controller

<b>Controller</b>	<b>Operation method</b>
ERCD	Pulse train control / Programming / I/O point trace / Remote command / Operation using RS-232C communication

## C4L



Effective stroke	50	100	150	200	250	300	350	400						
L	255	305	355	405	455	505	555	605						
A	4	6	6	8	8	10	10	10						
B	1	2	2	2	2	3	3	4						
C	150	100	125	125	125	125	125	125						
E	0	0	0	50	100	25	75	0						
S	70	120	170	220	270	320	370	420						
<b>Weight (kg)</b> <small>Note 3</small>	1.4	1.5	1.7	1.8	2	2.1	2.3	2.4						
<b>Maximum speed for each stroke (mm/sec)</b>	<table border="1"> <tr> <td>Lead 12</td> <td>720</td> </tr> <tr> <td>Lead 6</td> <td>360</td> </tr> <tr> <td>Lead 2</td> <td>120</td> </tr> </table>								Lead 12	720	Lead 6	360	Lead 2	120
Lead 12	720													
Lead 6	360													
Lead 2	120													

Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
Note 2. Minimum bend radius of motor cable is R30.  
Note 3. Weight of models with no brake. The weight of brake-attached models is 0.2 kg heavier than the models with no brake shown in the table.  
Note 4. Either right or left can be selected for the installation direction for the φ6 intake air joint. (The left side is the standard.)  
Note 5. External view of C4LH is identical to C4L.

# C4LH

Origin on the non-motor side is selectable



## Ordering method

### C4LH

<b>Model</b>	<b>Lead designation</b> 12: 12mm 6: 6mm 2: 2mm	<b>Brake</b> No entry: With no brake BK: With brake	<b>Direction of air coupler installation</b> L: Left (Standard) R: Right	<b>Origin position change</b> None: Standard Z: Non-motor side	<b>Stroke</b> 50 to 400 (50mm pitch)	<b>Cable length</b> Note 1 3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	<b>TSX</b> <b>Positioner</b> Note 2 TS-X <b>Driver: Power supply voltage / Power capacity</b> 10S: 100V/100W or less 20S: 200V/100W or less	<b>LCD monitor</b> No entry: None L: With LCD	<b>I/O selection</b> NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board Note 3	<b>Battery</b> B: With battery (Absolute) N: None (Incremental)
<b>SR1-X</b> <b>Controller</b>	<b>05</b> <b>Driver: Power capacity</b> 05: 100W or less	<b>Usable for CE</b> No entry: Standard E: CE marking	<b>I/O selection</b> N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	<b>Battery</b> B: With battery (Absolute) N: None (Incremental)						
<b>RDV-X</b> <b>Driver</b>	<b>2</b> <b>Power-supply voltage</b> 2: AC200V	<b>05</b> <b>Driver: Power capacity</b> 05: 100W or less								

Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.614 for details on robot cable.  
 Note 2. See P.522 for DIN rail mounting bracket.  
 Note 3. Select this selection when using the gateway function. For details, see P.66.

## Basic specifications

AC servo motor output (W)	30	
Repeatability Note 1 (mm)	+/-0.02	
Deceleration mechanism	Ball screw φ8	
Ball screw lead (mm)	12	6
Maximum speed (mm/sec)	720	360
Maximum payload (kg)	Horizontal	Vertical
	4.5	6
	1.2	2.4
	32	64
	64	153
Stroke (mm)	50 to 400 (50mm pitch)	
Overall length (mm)	Stroke+205	
	Stroke+243	
Maximum outside dimension of body cross-section (mm)	W45×H55	
Cable length (m)	Standard: 3.5 / Option: 5, 10	
Degree of cleanliness	ISO CLASS 3 (ISO14644-1) Note 2	
Intake air (Nl/min) Note 3	50	30
		15

Note 1. Positioning repeatability in one direction.  
 Note 2. CLASS 10 (0.1μm) FED-STD-209D or equivalent when a suction blower is used.  
 Note 3. The necessary intake amount varies depending on the use conditions and environment.

## Allowable overhang

	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)					
	A	B	C	A	B	C	A	C				
Lead 12	2kg	339	90	174	2kg	136	72	295	Lead 12	1.2kg	118	118
Lead 6	4.5kg	169	37	72	4.5kg	44	20	111	Lead 6	2.4kg	52	54
Lead 2	3kg	352	58	133	3kg	101	41	254	Lead 2	3kg	38	39
Lead 6	6kg	234	27	62	6kg	27	10	127	Lead 2	7.2kg	0	0
Lead 2	3kg	1105	59	142	3kg	110	41	805				
Lead 6	6kg	520	27	66	6kg	28	10	290				

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.  
 Note. Service life is calculated for 300mm stroke models.

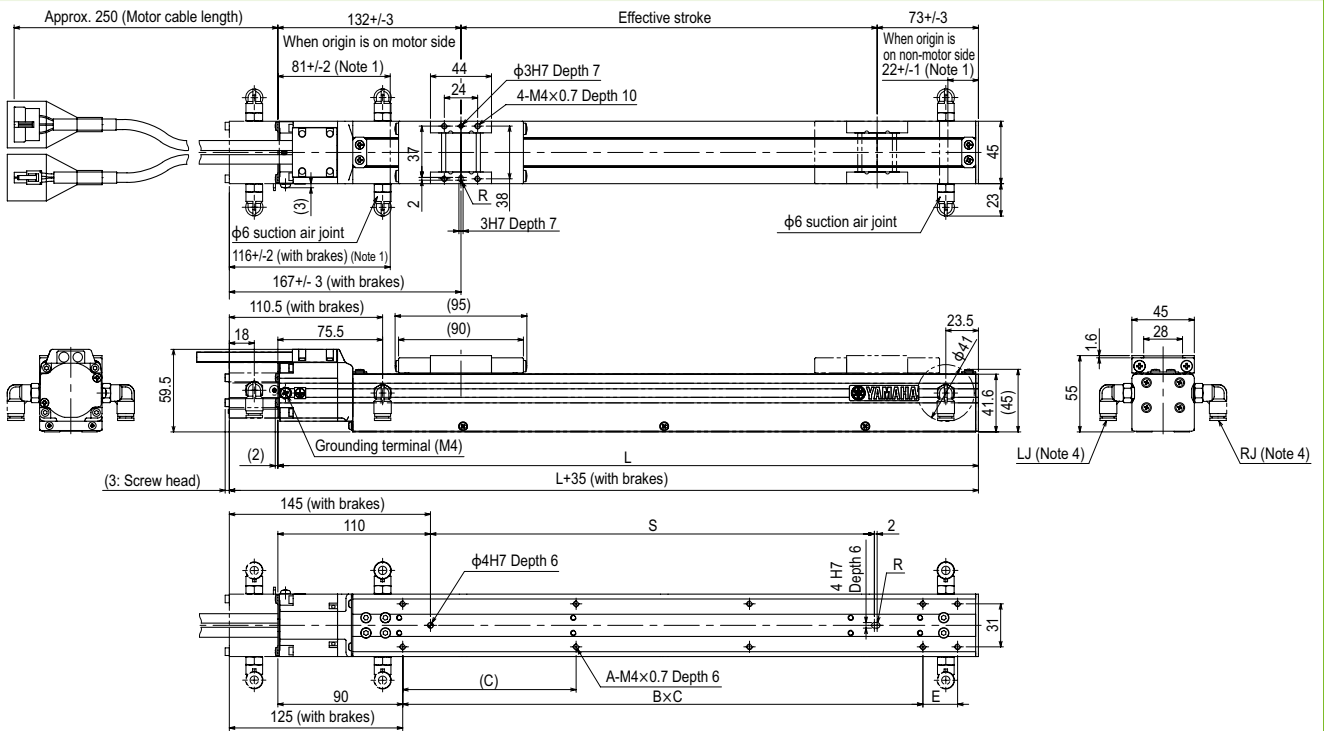
## Static loading moment

(Unit: N·m)		
MY	MP	MR
15	19	18

## Controller

Controller	Operation method
SR1-X05 RCX320 RCX221/222 RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105	I/O point trace / Remote command
TS-X205	
RDV-X205	Pulse train control

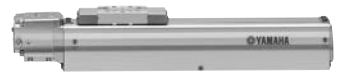
## C4LH



Effective stroke	50	100	150	200	250	300	350	400
L	255	305	355	405	455	505	555	605
A	4	6	6	8	8	10	10	10
B	1	2	2	2	2	3	3	4
C	150	100	125	125	125	125	125	125
E	0	0	0	50	100	25	75	0
S	70	120	170	220	270	320	370	420
Weight (kg) Note 3	1.4	1.5	1.7	1.8	2	2.1	2.3	2.4
Maximum speed for each stroke (mm/sec)	Lead 12	720						
	Lead 6	360						
	Lead 2	120						

Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
 Note 2. Minimum bend radius of motor cable is R30.  
 Note 3. Weight of models with no brake. The weight of brake-attached models is 0.2 kg heavier than the models with no brake shown in the table.  
 Note 4. Either right or left can be selected for the installation direction for the φ6 intake air joint. (The left side is the standard.)  
 Note 5. External view of C4LH is identical to C4L.





# C5L

- High lead: Lead 20
- Origin on the non-motor side is selectable

## Ordering method

<b>C5L</b>							<b>ERCD</b>	
<b>Model</b>	<b>Lead designation</b> 20: 20mm 12: 12mm 6: 6mm	<b>Brake</b> <sup>Note 1</sup> No entry: With no brake BK: With brake	<b>Direction of air coupler installation</b> L: Left (Standard) R: Right	<b>Origin position change</b> None: Standard Z: Non-motor side	<b>Stroke</b> 50 to 800 (50mm pitch)	<b>Cable length</b> <sup>Note 2</sup> 1K: 1m 3K: 3.5m 5K: 5m 10K: 10m	<b>Controller</b>	<b>I/O connector specification</b> CN1: I/O flat cable 1m (Standard) CN2: Twisted-pair cable 2m (pulse train function)

Note 1. The model with a lead of 20mm cannot select specifications with brake (vertical specifications).  
 Note 2. The robot cable is flexible and resists bending. See P.614 for details on robot cable.

## Basic specifications

<b>AC servo motor output (W)</b>	30
<b>Repeatability</b> <sup>Note 1</sup> (mm)	+/-0.02
<b>Deceleration mechanism</b>	Ball screw $\phi$ 12
<b>Ball screw lead (mm)</b>	20    12    6
<b>Maximum speed (mm/sec)</b>	1000    800    400
<b>Maximum payload (kg)</b>	<b>Horizontal</b> 3    5    9 <b>Vertical</b> -    1.2    2.4
<b>Rated thrust (N)</b>	19    32    64
<b>Stroke (mm)</b>	50 to 800 (50mm pitch)
<b>Overall length (mm)</b>	<b>Horizontal</b> Stroke+201.5 <b>Vertical</b> Stroke+239.5
<b>Maximum outside dimension of body cross-section (mm)</b>	W55×H65
<b>Cable length (m)</b>	Standard: 3.5 / Option: 1.5, 10
<b>Degree of cleanliness</b>	ISO CLASS 3 (ISO14644-1) <sup>Note 2</sup>
<b>Intake air (N<math>\ell</math>/min)</b> <sup>Note 3</sup>	80    50    30

Note 1. Positioning repeatability in one direction.  
 Note 2. CLASS 10 (0.1 $\mu$ m) FED-STD-209D or equivalent when a suction blower is used.  
 Note 3. The necessary intake amount varies depending on the use conditions and environment.

## Allowable overhang

	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)	
	A	B	C	A	B	C	A	C
<b>Lead 20</b>	1584	324	745	679	303	1505	246	245
<b>Lead 12</b>	699	104	251	215	87	605	110	110
<b>Lead 6</b>	1166	159	406	364	126	1073		
<b>Lead 20</b>	551	59	155	123	28	438		
<b>Lead 12</b>	1194	104	294	303	259	72		
<b>Lead 6</b>	624	31	89	50	0	154		

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.  
 Note. Service life is calculated for 600mm stroke models.

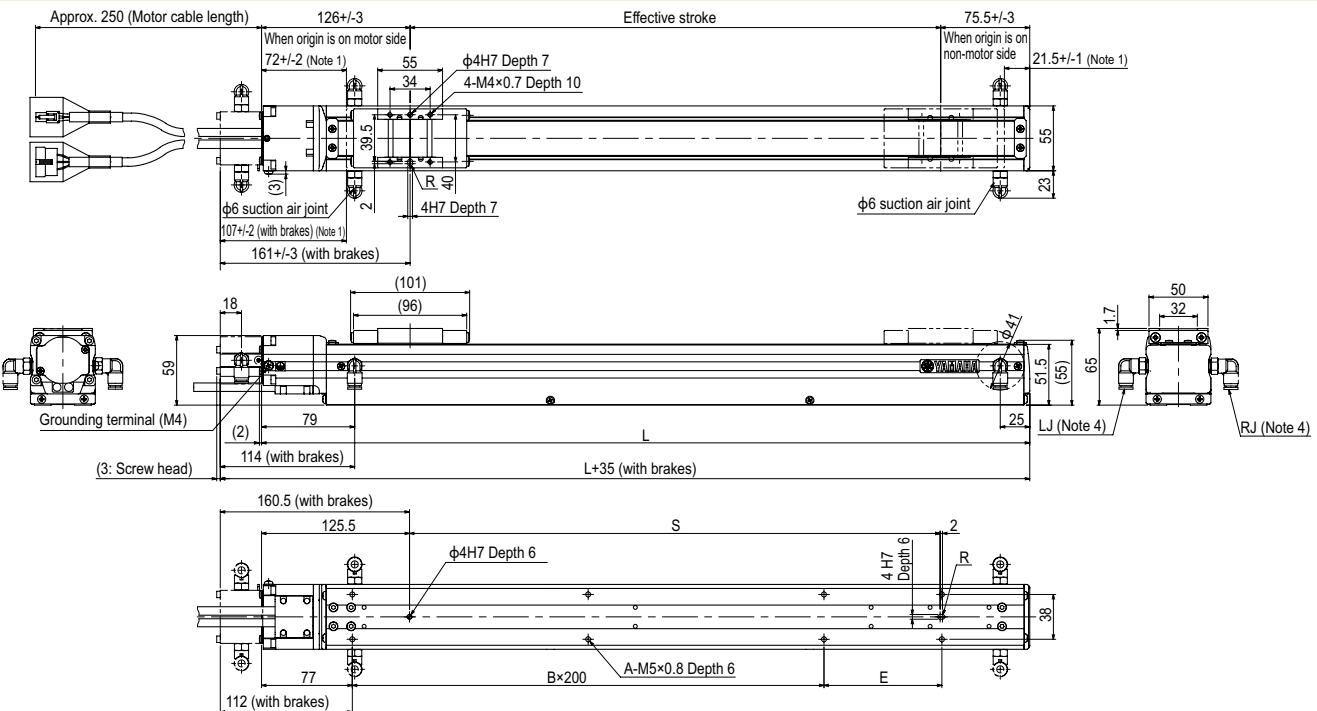
## Static loading moment

(Unit: N·m)		
MY	MP	MR
30	34	40

## Controller

Controller	Operation method
ERCD	Pulse train control / Programming / I/O point trace / Remote command / Operation using RS-232C communication

## C5L



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
<b>L</b>	251.5	301.5	351.5	401.5	451.5	501.5	551.5	601.5	651.5	701.5	751.5	801.5	851.5	901.5	951.5	1001.5
<b>A</b>	4	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12
<b>B</b>	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4
<b>E</b>	100	200	200	100	100	200	200	100	100	200	200	100	100	200	200	100
<b>S</b>	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
<b>Weight (kg)</b> <sup>Note 3</sup>	1.7	2.0	2.2	2.5	2.7	3.0	3.2	3.4	3.7	3.9	4.2	4.4	4.7	4.9	5.1	5.4
<b>Maximum Speed for each stroke</b> <sup>Note 5</sup> (mm/sec)	1000															
<b>Lead 20</b>	90%															
<b>Lead 12</b>	80%															
<b>Lead 6</b>	70%															
<b>Speed setting</b>	-															
	800															
	400															
	-															
	640															
	560															
	480															
	440															
	320															
	280															
	240															
	220															
	80%															
	70%															
	60%															
	55%															

Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
 Note 2. Minimum bend radius of motor cable is R30.  
 Note 3. Weight of models with no brake. The weight of brake-attached models is 0.2 kg heavier than the models with no brake shown in the table.  
 Note 4. Either right or left can be selected for the installation direction for the  $\phi$ 6 intake air joint. (The left side is the standard.)  
 Note 5. When the stroke is longer than 600mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.  
 Note 6. External view of C5LH is identical to C5L.

# C5LH

- High lead: Lead 20
- Origin on the non-motor side is selectable



## Ordering method

<b>C5LH</b>	<b>Model</b>	<b>Lead designation</b> 20: 20mm 12: 12mm 6: 6mm	<b>Brake</b> Note 1 No entry: With no brake BK: With brake	<b>Direction of air coupler installation</b> L: Left (Standard) R: Right	<b>Origin position change</b> None: Standard Z: Non-motor side	<b>Stroke</b> 50 to 800 (50mm pitch)	<b>Cable length</b> Note 2 3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	<b>TSX</b>	<b>Positioner</b> Note 3 TS-X	<b>Driver: Power supply voltage / Power capacity</b> 105: 100V/100W or less 205: 200V/100W or less	<b>LCD monitor</b> No entry: None L: With LCD	<b>I/O selection</b> NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board Note 4	<b>Battery</b> B: With battery (Absolute) N: None (Incremental)
	<b>SR1-X</b>	<b>05</b>						<b>Controller</b>	<b>Driver: Power capacity</b> 05: 100W or less	<b>Usable for CE</b> No entry: Standard E: CE marking	<b>I/O selection</b> N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	<b>Battery</b> B: With battery (Absolute) N: None (Incremental)	
	<b>RDV-X</b>	<b>2</b>						<b>Driver</b>	<b>Power supply voltage</b> 2: AC200V		<b>05</b>	<b>Driver: Power capacity</b> 05: 100W or less	

Note 1. The model with a lead of 20mm cannot select specifications with brake (vertical specifications).  
 Note 2. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.614 for details on robot cable.  
 Note 3. See P.522 for DIN rail mounting bracket.  
 Note 4. Select this selection when using the gateway function. For details, see P.66.

## Basic specifications

AC servo motor output (W)	30
Repeatability Note 1 (mm)	+/-0.02
Deceleration mechanism	Ball screw φ12
Ball screw lead (mm)	20 12 6
Maximum speed (mm/sec)	1000 800 400
Maximum payload (kg)	Horizontal 3 5 9 Vertical - 1.2 2.4
Rated thrust (N)	19 32 64
Stroke (mm)	50 to 800 (50mm pitch)
Overall length (mm)	Horizontal Stroke+201.5 Vertical Stroke+239.5
Maximum outside dimension of body cross-section (mm)	W55×H65
Cable length (m)	Standard: 3.5 / Option: 5, 10
Degree of cleanliness	ISO CLASS 3 (ISO14644-1) Note 2
Intake air (Nl/min) Note 3	80 50 30

Note 1. Positioning repeatability in one direction.  
 Note 2. CLASS 10 (0.1µm) FED-STD-209D or equivalent when a suction blower is used.  
 Note 3. The necessary intake amount varies depending on the use conditions and environment.

## Allowable overhang Note

	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C	A	C	
Lead 20	1099	324	645	602	303	950	1.2kg	240 239	
3kg	488	104	241	197	87	432	2.4kg	109 110	
2kg	916	159	398	347	141	800			
5kg	436	60	152	119	44	355			
3kg	1194	105	294	259	87	950			
9kg	624	31	89	50	15	385			

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.  
 Note. Service life is calculated for 600mm stroke models.

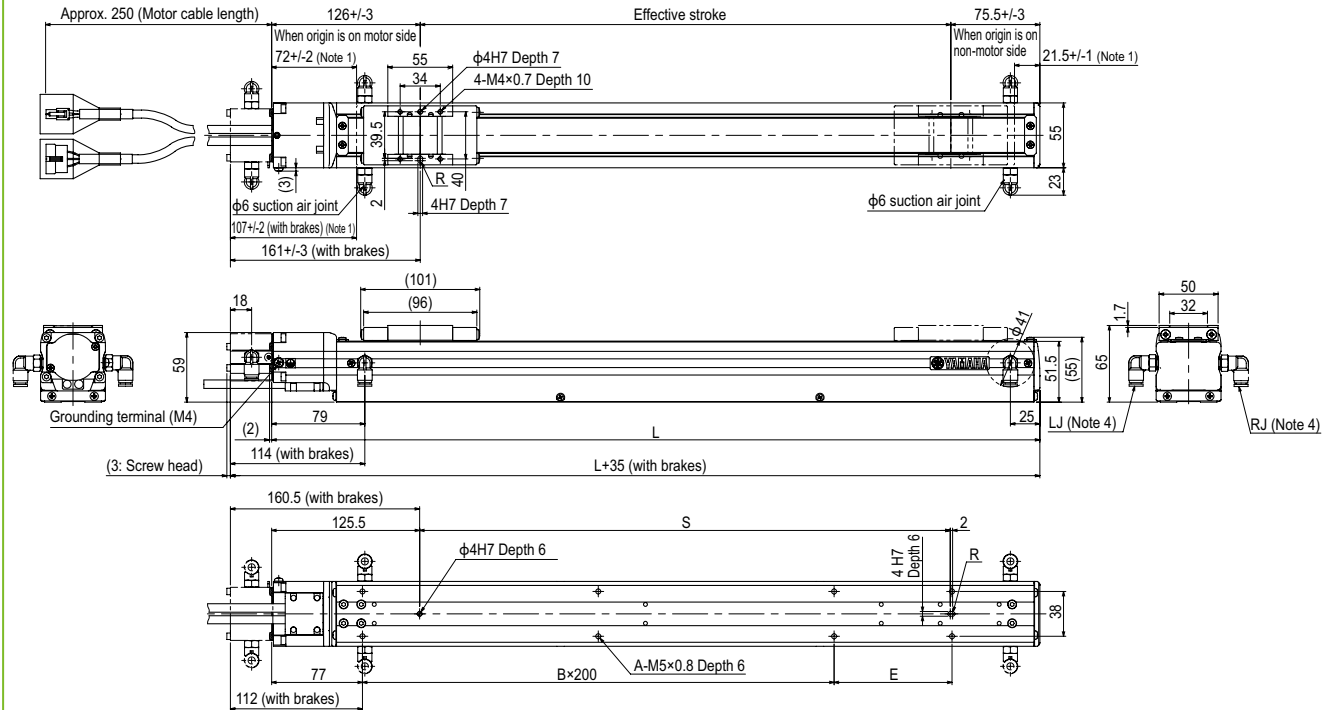
## Static loading moment

	MY	MP	MR
(Unit: N·m)	30	34	40

## Controller

Controller	Operation method
SR1-X05 RCX320 RCX221/222 RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105	I/O point trace / Remote command
TS-X205	
RDV-X205	Pulse train control

## C5LH



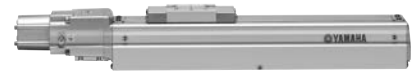
Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	251.5	301.5	351.5	401.5	451.5	501.5	551.5	601.5	651.5	701.5	751.5	801.5	851.5	901.5	951.5	1001.5
A	4	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12
B	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4
E	100	200	200	100	100	200	200	100	100	200	200	100	100	200	200	100
S	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Weight (kg) Note 3	1.7	2.0	2.2	2.5	2.7	3.0	3.2	3.4	3.7	3.9	4.2	4.4	4.7	4.9	5.1	5.4
Maximum speed for each stroke (mm/sec) Note 5	1000															
Lead 20 Speed setting	900 800 700															
Lead 12 Speed setting	90% 80% 70%															
Lead 6 Speed setting	800 400															
	800 640 560 480 440															
	320 280 240 220															
	80% 70% 60% 55%															

Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
 Note 2. Minimum bend radius of motor cable is R30.  
 Note 3. Weight of models with no brake. The weight of brake-attached models is 0.2 kg heavier than the models with no brake shown in the table.  
 Note 4. Either right or left can be selected for the installation direction for the φ6 intake air joint. (The left side is the standard.)  
 Note 5. When the stroke is longer than 600mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.  
 Note 6. External view of C5LH is identical to C5L.



# C6L

- High lead: Lead 20
- Origin on the non-motor side is selectable



## Ordering method

**C6L**

<b>Model</b>	<b>Lead designation</b> 20: 20mm 12: 12mm 6: 6mm	<b>Brake</b> Note 1 No entry: With no brake BK: With brake	<b>Direction of air coupler installation</b> L: Left (Standard) R: Right	<b>Origin position change</b> None: Standard Z: Non-motor side	<b>Stroke</b> 50 to 800 (50mm pitch)	<b>Cable length</b> Note 2 3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)
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**TSX**

<b>Positioner</b> Note 3 TS-X	<b>Driver: Power supply voltage / Power capacity</b> 105: 100V/100W or less 205: 200V/100W or less	<b>LCD monitor</b> No entry: None L: With LCD	<b>I/O selection</b> NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board Note 4	<b>Battery</b> 3: With battery (Absolute) N: None (Incremental)
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**SR1-X**

<b>Controller</b> 05	<b>Driver: Power capacity</b> 05: 100W or less	<b>Usable for CE</b> No entry: Standard E: CE marking	<b>I/O selection</b> N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	<b>Battery</b> 3: With battery (Absolute) N: None (Incremental)
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**RDV-X**

<b>Driver</b> 2	<b>Power supply voltage</b> 2: AC200V	<b>Driver: Power capacity</b> 05: 100W or less	<b>Regenerative unit</b> RBR1
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Note 1. The model with a lead of 20mm cannot select specifications with brake (vertical specifications).  
 Note 2. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.614 for details on robot cable.  
 Note 3. See P.522 for DIN rail mounting bracket.  
 Note 4. Select this selection when using the gateway function. For details, see P.66.

## Basic specifications

<b>AC servo motor output (W)</b>	60
<b>Repeatability</b> Note 1 (mm)	+/-0.02
<b>Deceleration mechanism</b>	Ball screw $\phi$ 12
<b>Ball screw lead (mm)</b>	20 12 6
<b>Maximum speed (mm/sec)</b>	1000 800 400
<b>Maximum payload (kg)</b>	<b>Horizontal</b> 10 12 30 <b>Vertical</b> - 4 8
<b>Rated thrust (N)</b>	51 85 170
<b>Stroke (mm)</b>	50 to 800 (50mm pitch)
<b>Overall length (mm)</b>	<b>Horizontal</b> Stroke+247.5 <b>Vertical</b> Stroke+285.5
<b>Maximum outside dimension of body cross-section (mm)</b>	W65×H65
<b>Cable length (m)</b>	Standard: 3.5 / Option: 5, 10
<b>Degree of cleanliness</b>	ISO CLASS 3 (ISO14644-1) Note 2
<b>Intake air (Nl/min)</b> Note 3	80 50 30

Note 1. Positioning repeatability in one direction.  
 Note 2. CLASS 10 (0.1 $\mu$ m) FED-STD-209D or equivalent when a suction blower is used.  
 Note 3. The necessary intake amount varies depending on the use conditions and environment.

## Allowable overhang

Lead	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C	A	B	C
Lead 20	2kg 433	192	295	2kg 300	174	365	1kg 353	351	
Lead 12	6kg 145	59	104	6kg 83	44	105	2kg 163	164	
	10kg 110	33	75	10kg 43	18	71	4kg 68	70	
Lead 6	3kg 622	125	336	3kg 291	96	317	2kg 169	170	
	8kg 271	41	121	8kg 87	13	110	4kg 71	73	
Lead 6	12kg 214	24	76	12kg 41	0	126	8kg 21	24	
	5kg 692	73	236	5kg 202	45	237			
Lead 6	10kg 372	33	109	10kg 70	5	97			
	30kg 157	0	25	30kg 0	0	0			

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

Note. Service life is calculated for 600mm stroke models.

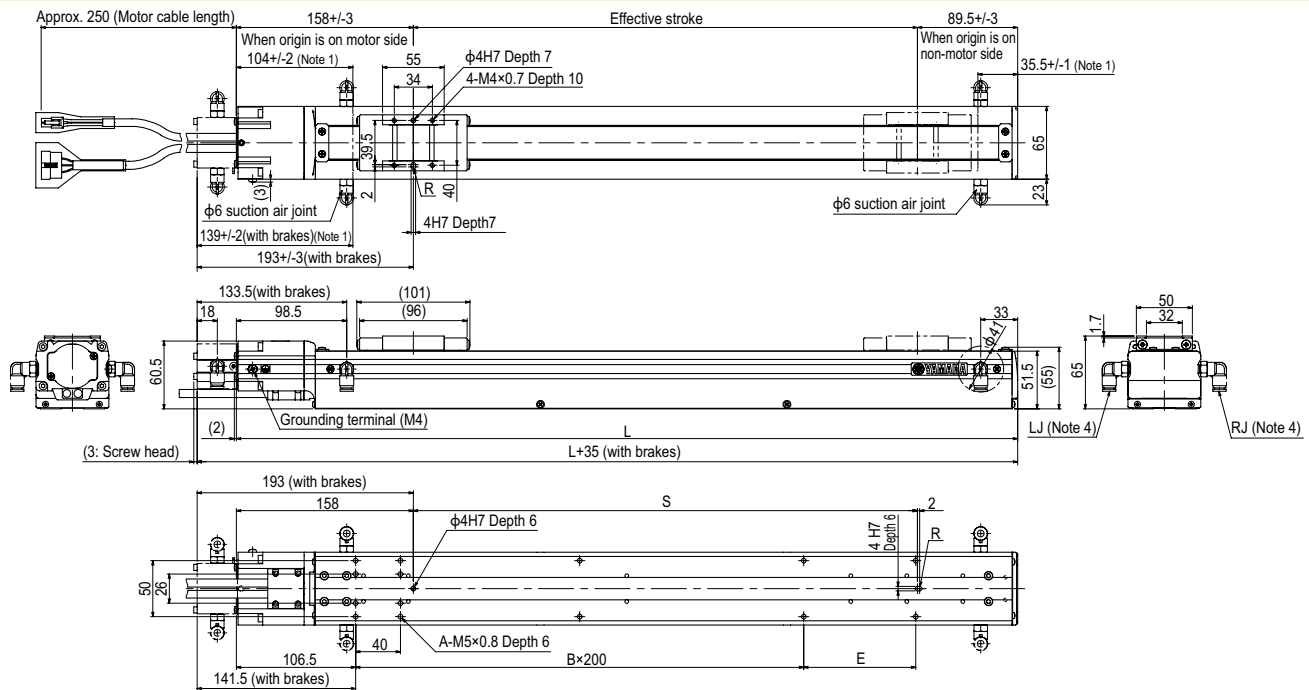
## Static loading moment

(Unit: N·m)		
MY	MP	MR
35	40	50

## Controller

Controller	Operation method
SR1-X05 RCX320 RCX221/222 RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105	I/O point trace / Remote command
TS-X205	Remote command
RDV-X205-RBR1	Pulse train control

## C6L



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	297.5	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5	1047.5
A	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18
B	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4
E	150	200	200	100	100	200	200	100	100	200	200	100	100	200	200	100
S	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Weight (kg) Note 3	2.6	2.9	3.1	3.4	3.7	4.0	4.3	4.6	4.9	5.2	5.4	5.7	6.0	6.3	6.6	6.8
Maximum speed for each stroke Note 5 (mm/sec)	Lead 20	1000														
	Speed setting	-														
	Lead 12	800														
	Speed setting	-														
Lead 6	Lead 6	400														
	Speed setting	-														
	Lead 6	680														
	Speed setting	-														
Lead 6	Lead 6	340														
	Speed setting	-														
	Lead 6	600														
	Speed setting	-														
Lead 6	Lead 6	260														
	Speed setting	-														
	Lead 6	85%														
	Speed setting	-														

Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
 Note 2. Minimum bend radius of motor cable is R30.  
 Note 3. Weight of models with no brake. The weight of brake-attached models is 0.2 kg heavier than the models with no brake shown in the table.  
 Note 4. Either right or left can be selected for the installation direction for the  $\phi$ 6 intake air joint. (The left side is the standard.)  
 Note 5. When the stroke is longer than 600mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

# C8

- High lead: Lead 20
- Origin on the non-motor side is selectable



## Ordering method

**C8**

Model	Lead	Brake <sup>Note 1</sup>	Option	Stroke	Cable length <sup>Note 2</sup>
	20: 20mm 12: 12mm 6: 6mm	No entry: With no brake BK: With brake	Origin position None: Standard Z: Non-change motor side	150 to 800 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)

TSX	SR1-X	RDV-X
Positioner <sup>Note 3</sup> TS-X	Controller	Driver
Driver: Power-supply voltage / Power capacity 105: 100V/100W or less 205: 200V/100W or less	Driver: Power capacity 05: 100W or less	Power-supply voltage 2: AC200V
LCD monitor No entry: None L: With LCD	Usable for CE No entry: Standard E: CE marking	Driver: Power capacity 05: 100W or less
I/O selection NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board <sup>Note 4</sup>	I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	Regenerative unit RBR1
Battery B: With battery (Absolute) N: None (Incremental)	Battery B: With battery (Absolute) N: None (Incremental)	

Note 1. The model with a lead of 20mm cannot select specifications with brake (vertical specifications).  
 Note 2. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.614 for details on robot cable.  
 Note 3. See P.522 for DIN rail mounting bracket.  
 Note 4. Select this selection when using the gateway function. For details, see P.66.

## Basic specifications

AC servo motor output (W)	100
Repeatability <sup>Note 1</sup> (mm)	+/-0.02
Deceleration mechanism	Ball screw $\phi$ 12
Ball screw lead (mm)	20 12 6
Maximum speed (mm/sec)	1000 720 360
Maximum payload (kg)	Horizontal: 12 20 40 Vertical: - 4 8
Rated thrust (N)	84 141 283
Stroke (mm)	150 to 800 (50mm pitch)
Overall length (mm)	Horizontal: Stroke+320 Vertical: Stroke+355
Maximum outside dimension of body cross-section (mm)	W80 x H75
Cable length (m)	Standard: 3.5 / Option: 5, 10
Degree of cleanliness	CLASS 10 <sup>Note 3</sup>
Intake air (Nl/min)	30 to 90 <sup>Note 4</sup>

Note 1. Positioning repeatability in one direction.  
 Note 2. When the stroke is longer than 600mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.  
 Note 3. Per 1cf (0.1um base), when suction blower is used.  
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

## Allowable overhang <sup>Note</sup>

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)				
Lead	Weight	A	B	Lead	Weight	A	B	Lead	Weight	A	C	
Lead 20	5kg	245	85	146	5kg	121	71	211	Lead 12	1kg	440	442
	10kg	131	39	69	10kg	42	24	88		2kg	207	209
	12kg	115	31	57	12kg	29	16	66		3kg	130	132
Lead 12	5kg	364	92	192	5kg	164	78	328	Lead 6	4kg	91	92
	10kg	207	43	92	10kg	62	29	158		2kg	237	238
	15kg	144	26	41	15kg	26	12	83		4kg	106	96
Lead 6	20kg	112	18	40	20kg	7	4	32	Lead 6	6kg	62	62
	10kg	406	47	124	10kg	87	33	353		4kg	106	96
	20kg	225	20	54	20kg	18	6	127		6kg	62	62
Lead 6	30kg	162	11	31	30kg	0	0	0	Lead 6	8kg	34	40
	40kg	168	7	20	40kg	0	0	0				

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

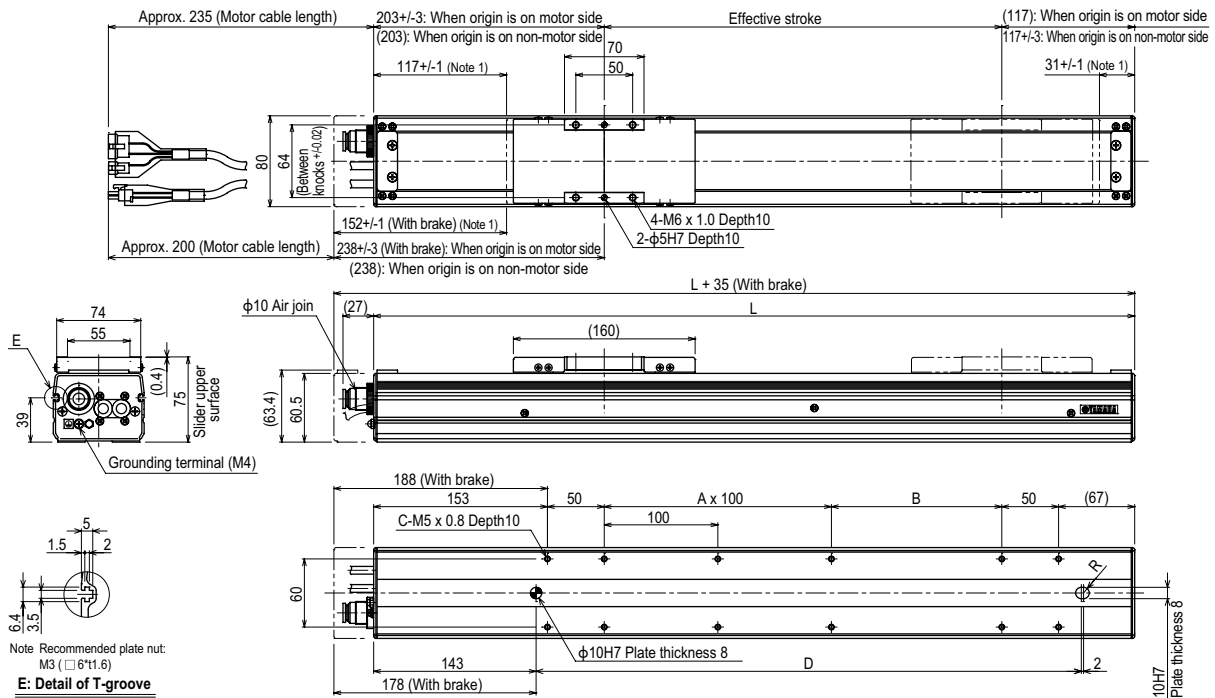
## Static loading moment

	MY	MP	MR
(Unit: N·m)	70	95	110

## Controller

Controller	Operation method
SR1-X05 RCX320 RCX221/222 RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105	I/O point trace / Remote command
TS-X205	
RDV-X205-RBR1	Pulse train control

## C8



Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	
L	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	
A	0	1	1	2	2	3	3	4	4	5	5	6	6	7	
B	150	100	150	100	150	100	150	100	150	100	150	100	150	100	
C	8	10	10	12	12	14	14	16	16	18	18	20	20	22	
D	280	330	380	430	480	530	580	630	680	730	780	830	880	930	
Weight (kg) <sup>Note 3</sup>	3.6	3.9	4.1	4.4	4.7	5.0	5.3	5.6	5.9	6.2	6.4	6.7	7.0	7.3	
Maximum speed <sup>Note 4</sup> (mm/sec)	Lead 20	1000										950	800	700	650
	Speed setting	-										95%	80%	70%	65%
	Lead 12	720										648	540	468	360
	Lead 6	360										324	270	234	216
Speed setting	-										90%	75%	65%	60%	50%

Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
 Note 2. Minimum bend radius of motor cable is R50.  
 Note 3. Weight of models with no brake. The weight of brake-attached models is 0.3 kg heavier than the models with no brake shown in the table.  
 Note 4. When the stroke is longer than 600mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

# C8L

Origin on the non-motor side is selectable

## Ordering method

C8L						TSX				
<b>Model</b>	<b>Lead</b>	<b>Brake</b>	<b>Option</b>		<b>Stroke</b>	<b>Positioner</b> Note 2	<b>Driver: Power-supply voltage / Power capacity</b>	<b>LCD monitor</b>	<b>I/O selection</b>	<b>Battery</b>
	20: 20mm 10: 10mm 5: 5mm	No entry: With no brake BK: With brake	Origin position change	None: Standard Z: Non-motor side	150 to 1050 (50mm pitch)	TS-X	105: 100V/100W or less 205: 200V/100W or less	No entry: None L: With LCD	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board Note 3	B: With battery (Absolute) N: None (Incremental)
						<b>SR1-X</b>	<b>05</b>			
						<b>Controller</b>	<b>Driver: Power capacity</b> 05: 100W or less	<b>Usable for CE</b> No entry: Standard E: CE marking	<b>I/O selection</b> N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	<b>Battery</b> B: With battery (Absolute) N: None (Incremental)
						<b>RDV-X</b>	<b>2</b>	<b>05</b>	<b>RBR1</b>	
						<b>Driver</b>	<b>Power-supply voltage</b> 2: AC200V	<b>Driver: Power capacity</b> 05: 100W or less	<b>Regenerative unit</b>	

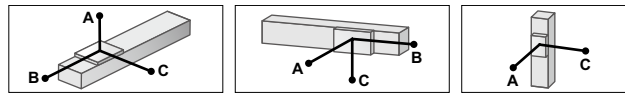
Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.614 for details on robot cable.  
 Note 2. See P.522 for DIN rail mounting bracket.  
 Note 3. Select this selection when using the gateway function. For details, see P.66.

## Basic specifications

<b>AC servo motor output (W)</b>	100	
<b>Repeatability</b> Note 1 (mm)	±0.01	
<b>Deceleration mechanism</b>	Ball screw φ15	
<b>Ball screw lead (mm)</b>	20	10
<b>Maximum speed</b> Note 2 (mm/sec)	1000	600
<b>Maximum payload (kg)</b>	<b>Horizontal</b>	20
	<b>Vertical</b>	4
<b>Rated thrust (N)</b>	84	169
	339	339
<b>Stroke (mm)</b>	150 to 1050 (50mm pitch)	
<b>Overall length (mm)</b>	<b>Horizontal</b>	Stroke+325
	<b>Vertical</b>	Stroke+360
<b>Maximum outside dimension of body cross-section (mm)</b>	W80 × H75	
<b>Cable length (m)</b>	Standard: 3.5 / Option: 5, 10	
<b>Degree of cleanliness</b>	CLASS 10 Note 3	
<b>Intake air (Nl/min)</b>	30 to 90 Note 4	

Note 1. Positioning repeatability in one direction.  
 Note 2. When the stroke is longer than 700mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.  
 Note 3. Per 1cf (0.1um base), when suction blower is used.  
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

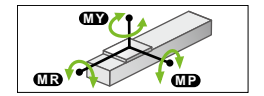
## Allowable overhang



Lead	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C	A	C	
Lead 20	5kg: 259	10kg: 149	15kg: 100	5kg: 147	10kg: 53	15kg: 17	2kg: 255	4kg: 111	
Lead 10	20kg: 95	30kg: 251	40kg: 127	20kg: 0	30kg: 87	40kg: 10	2kg: 300	4kg: 131	
Lead 5	40kg: 69	50kg: 33	30kg: 90	30kg: 0	40kg: 0	50kg: 0	6kg: 75	8kg: 47	
	20kg: 256	30kg: 188	40kg: 96	20kg: 24	30kg: 0	40kg: 0	5kg: 113	10kg: 37	
	8	16	10	9	0	0	15kg: 12	16kg: 9	
	18	43	28	152	0	0			
	6	18	18	0	0	0			

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

## Static loading moment

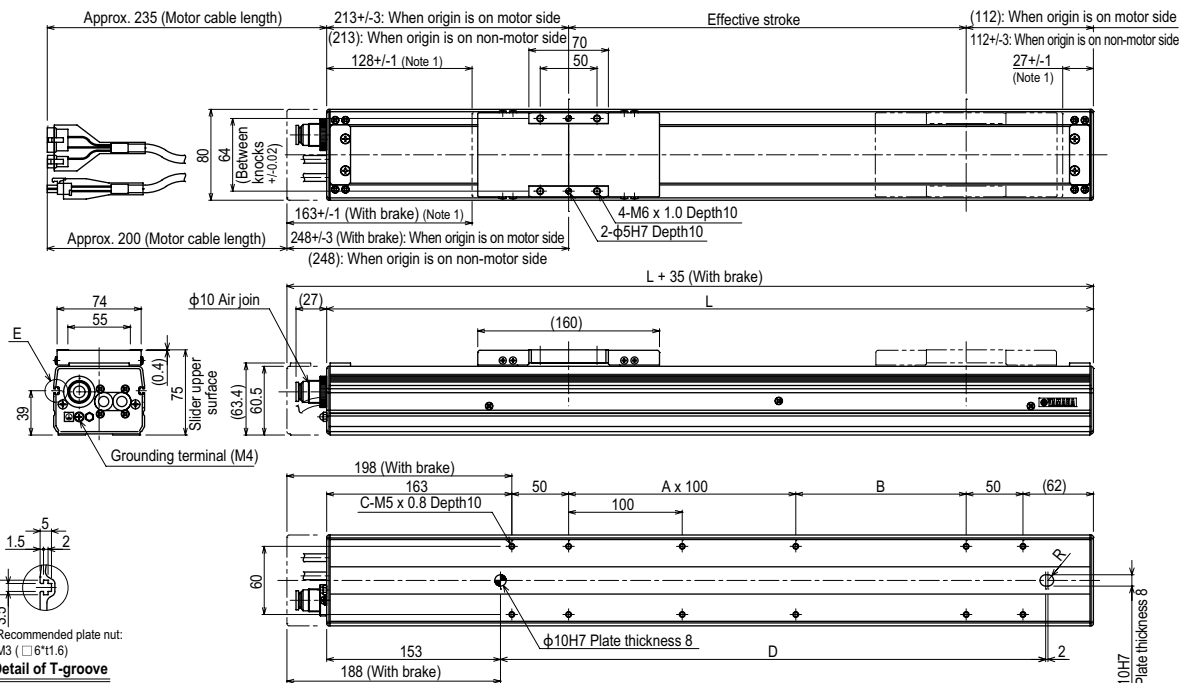


(Unit: N·m)		
MY	MP	MR
70	95	110

## Controller

Controller	Operation method
SR1-X05 RCX320 RCX221/222 RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105	I/O point trace / Remote command
TS-X205	Remote command
RDV-X205-RBR1	Pulse train control

## C8L



Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
<b>L</b>	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375	
<b>A</b>	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	
<b>B</b>	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	
<b>C</b>	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	
<b>D</b>	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	
<b>Weight (kg)</b> Note 3	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.4	6.7	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.2	9.5	
<b>Maximum speed</b> Note 4 (mm/sec)	1000																			
	-																			
	600																			
	300																			
<b>Speed setting</b>	90%																			
	85%																			
<b>Speed setting</b>	75%																			
	60%																			

Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
 Note 2. Minimum bend radius of motor cable is R50.  
 Note 3. Weight of models with no brake. The weight of brake-attached models is 0.3 kg heavier than the models with no brake shown in the table.  
 Note 4. When the stroke is longer than 700mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

# C8LH

Origin on the non-motor side is selectable

## Ordering method

**C8LH**

Model	Lead	Option	Stroke	Cable length <sup>Note 1</sup>	TSX	SR1-X	RDV-X
	20: 20mm 10: 10mm 5: 5mm	Origin position change None: Standard Z: Non-motor side	150 to 1050 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	Positioner <sup>Note 2</sup> TS-X Driver: Power supply voltage / Power capacity 105: 100V/100W or less 205: 200V/100W or less LCD monitor No entry: None L: With LCD	Controller 05 Driver: Power capacity 05: 100W or less Usable for CE No entry: Standard E: CE marking	Driver 2 Power supply voltage 2: AC200V 05 Driver: Power capacity 05: 100W or less Regenerative unit RBR1
					I/O selection NPN: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board <sup>Note 3</sup>	I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	
					Battery B: With battery (Absolute) N: None (Incremental)	Battery B: With battery (Absolute) N: None (Incremental)	

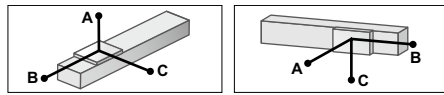
Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.614 for details on robot cable.  
 Note 2. See P.522 for DIN rail mounting bracket.  
 Note 3. Select this selection when using the gateway function. For details, see P.66.

## Basic specifications

AC servo motor output (W)	100
Repeatability <sup>Note 1</sup> (mm)	+/-0.01
Deceleration mechanism	Ball screw $\phi 15$
Ball screw lead (mm)	20 10 5
Maximum speed <sup>Note 2</sup> (mm/sec)	1000 600 300
Maximum payload (kg)	Horizontal 30 60 80
Rated thrust (N)	84 169 339
Stroke (mm)	150 to 1050 (50mm pitch)
Overall length (mm)	Stroke+389
Maximum outside dimension of body cross-section (mm)	W80 x H75
Cable length (m)	Standard: 3.5 / Option: 5, 10
Degree of cleanliness	CLASS 10 <sup>Note 3</sup>
Intake air (N $\ell$ /min)	30 to 90 <sup>Note 4</sup>

Note 1. Positioning repeatability in one direction.  
 Note 2. When the stroke is longer than 650mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.  
 Note 3. Per 1cf (0.1um base), when suction blower is used.  
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

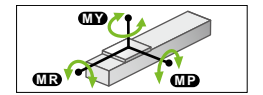
## Allowable overhang <sup>Note</sup>



	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)		
	A	B	C	A	B	C
Lead 20	10kg	687	274	200	163	225
	20kg	401	125	92	56	76
	30kg	338	76	57	20	27
Lead 10	20kg	622	137	111	74	90
	40kg	472	57	47	8	11
	60kg	375	30	25	-	-
Lead 5	20kg	1087	148	127	89	104
	40kg	844	63	54	15	18
	60kg	707	34	29	-	-
	80kg	594	20	17	-	-

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

## Static loading moment

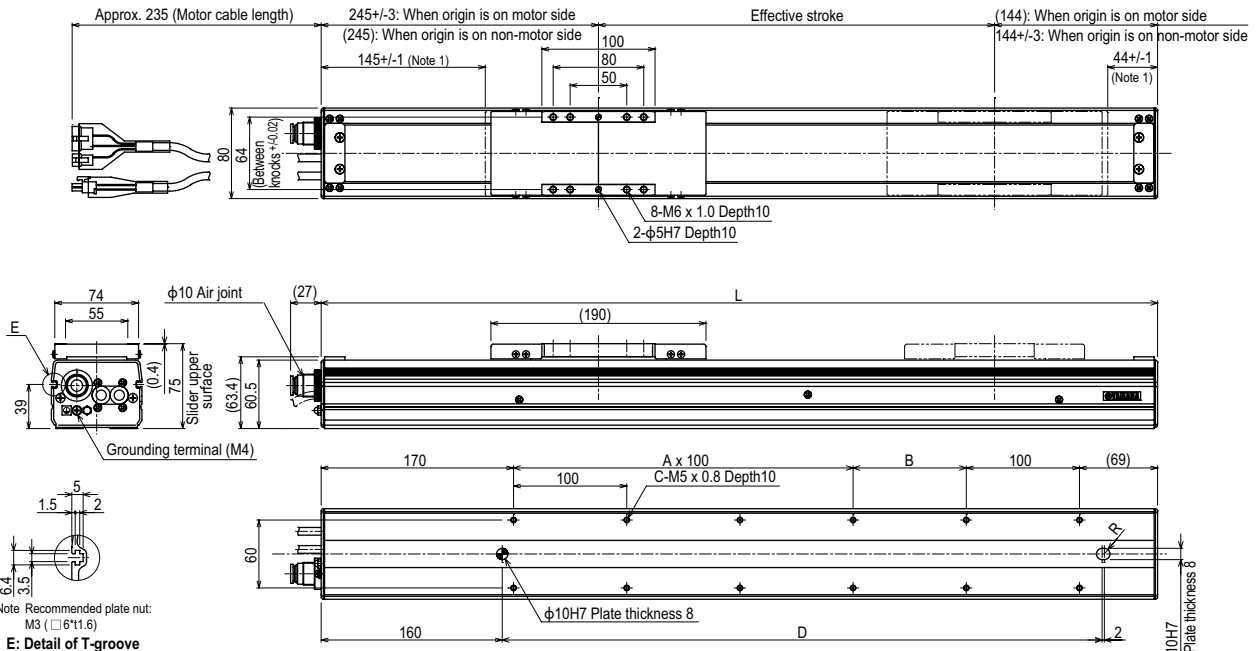


(Unit: N·m)		
MY	MP	MR
128	163	143

## Controller

Controller	Operation method
SR1-X05 RCX320 RCX221/222 RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105	I/O point trace / Remote command
TS-X205	
RDV-X205-RBR1	Pulse train control

## C8LH



Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
L	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439	
A	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	
B	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	
C	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	
D	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230	
Weight (kg)	4.7	5.0	5.3	5.6	5.9	6.2	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.7	10.0	10.3	
Maximum speed <sup>Note 3</sup> (mm/sec)	Lead 20																			
	Speed setting																			
	Lead 10																			
	Lead 5																			
Speed setting																				

Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
 Note 2. Minimum bend radius of motor cable is R50.  
 Note 3. When the stroke is longer than 650mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.



# C10

Origin on the non-motor side is selectable: Lead 20 • 10



## Ordering method

<b>C10</b>	<b>Model</b>	<b>Lead</b>	<b>Brake</b>	<b>Option</b>	<b>Stroke</b>	<b>Cable length</b> <sup>Note 2</sup>	<b>TSX</b>	<b>SR1-X</b>	<b>RDV-X</b>	<b>Battery</b>
		20: 20mm 10: 10mm 5: 5mm	No entry: With no brake BK: With brake	Origin position change None: Standard Z: Non-motor side <sup>Note 1</sup>	150 to 1050 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	<b>Positioner</b> <sup>Note 3</sup> TS-X Driver: Power-supply voltage / Power capacity 105: 100V/100W or less 205: 200V/100W or less Regenerative unit No entry: None R: With RGT LCD monitor No entry: None L: With LCD <b>I/O selection</b> NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board <sup>Note 4</sup> <b>Battery</b> B: With battery (Absolute) N: None (Incremental)	<b>Controller</b> SR1-X Driver: Power capacity 05: 100W or less Usable for CE No entry: Standard E: CE marking Regenerative unit No entry: None R: With RGT <b>I/O selection</b> N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS <b>Battery</b> B: With battery (Absolute) N: None (Incremental)	<b>Driver</b> RDV-X Power-supply voltage 2: AC200V Driver: Power capacity 05: 100W or less <b>Regenerative unit</b> RBR1	

Note 1. If selecting 5mm lead specifications then the origin point cannot be changed to the non-motor side.  
 Note 2. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.614 for details on robot cable.  
 Note 3. See P.522 for DIN rail mounting bracket.  
 Note 4. Select this selection when using the gateway function. For details, see P.66.

## Basic specifications

AC servo motor output (W)	100
Repeatability <sup>Note 1</sup> (mm)	+/-0.01
Deceleration mechanism	Ball screw φ15
Ball screw lead (mm)	20 10 5
Maximum speed (mm/sec)	1000 500 250
Maximum payload (kg)	Horizontal 20 40 60 Vertical 4 10 20
Rated thrust (N)	84 169 339
Stroke (mm)	150 to 1050 (50mm pitch)
Overall length (mm)	Horizontal Stroke+283 Vertical Stroke+313
Maximum outside dimension of body cross-section (mm)	W104 × H85
Cable length (m)	Standard: 3.5 / Option: 5, 10
Degree of cleanliness	CLASS 10 <sup>Note 3</sup>
Intake air (Nl/min)	30 to 90 <sup>Note 4</sup>

Note 1. Positioning repeatability in one direction.  
 Note 2. When the stroke is longer than 750mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.  
 Note 3. Per 1cf (0.1um base), when suction blower is used.  
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

## Allowable overhang

Installation	Lead	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)	
		A	B	C	A	B	C	A	C
Horizontal	Lead 20	5kg	1875	530	510	5kg	496	451	1826
	Lead 10	10kg	1079	247	242	10kg	218	168	1002
	Lead 5	20kg	628	106	107	20kg	78	27	497
	Lead 20	15kg	765	156	164	10kg	230	170	1036
	Lead 10	30kg	425	62	66	20kg	80	29	506
Wall	Lead 20	5kg	1875	530	510	5kg	496	451	1826
	Lead 10	10kg	1079	247	242	10kg	218	168	1002
	Lead 5	20kg	628	106	107	20kg	78	27	497
	Lead 20	15kg	765	156	164	10kg	230	170	1036
	Lead 10	30kg	425	62	66	20kg	80	29	506
Vertical	Lead 20	1kg	2461	2492	1kg	2461	2492		
	Lead 10	2kg	1213	1244	2kg	1213	1244		
	Lead 5	4kg	585	617	4kg	585	617		
	Lead 20	8kg	280	312	8kg	280	312		
	Lead 10	10kg	210	242	10kg	210	242		
Vertical	Lead 20	10kg	210	242	10kg	210	242		
	Lead 10	10kg	213	244	10kg	213	244		
	Lead 5	15kg	119	151	15kg	119	151		
	Lead 20	20kg	72	104	20kg	72	104		
	Lead 10	20kg	72	104	20kg	72	104		

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

## Static loading moment

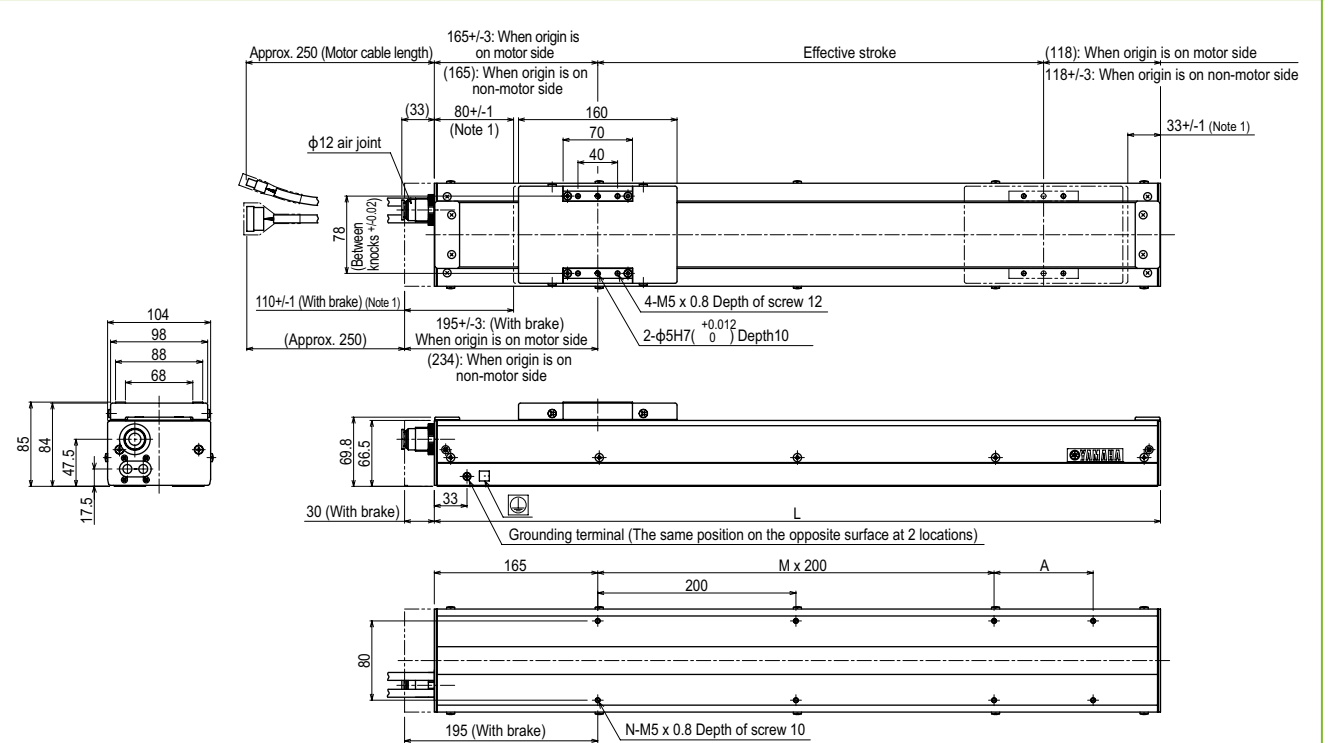
(Unit: N·m)		
MY	MP	MR
119	119	105

## Controller

Controller	Operation method
SR1-X05 <sup>Note</sup>	Programming / I/O point trace / Remote command / Operation using RS-232C communication
RCX320	
RCX221/222	
RCX340	
TS-X105 <sup>Note</sup>	I/O point trace / Remote command
TS-X205 <sup>Note</sup>	
RDV-X205-RBR1	Pulse train control

Note. Regenerative unit is required when the models used vertically and with 700mm or larger stroke.

## C10



Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
L	433	483	533	583	633	683	733	783	833	883	933	983	1033	1083	1133	1183	1233	1283	1333	
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	
N	4	6	6	6	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	
Weight (kg) <sup>Note 3</sup>	4.4	5.0	5.5	6.1	6.7	7.3	7.8	8.4	9.0	9.6	10.1	10.7	11.3	11.9	12.4	13.0	13.6	14.2	14.7	
Maximum speed (mm/sec) <sup>Note 4</sup>	Lead 20	1000																		
	Lead 10	500																		
	Lead 5	250																		
Speed setting	95% 95% 75% 75% 60% 60% 50%																			

Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
 Note 2. Minimum bend radius of motor cable is R50.  
 Note 3. Weight of models with no brake. The weight of brake-attached models is 0.4 kg heavier than the models with no brake shown in the table.

Note 4. When the stroke is longer than 750mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

# C14

Origin on the non-motor side is selectable



## Ordering method

<b>C14</b>	<b>Model</b>	<b>Lead</b>	<b>Brake</b>	<b>Option</b>	<b>Stroke</b>	<b>Cable length</b>	<b>TSX</b>	<b>SR1-X</b>	<b>RDV-X</b>	<b>05</b>	<b>05</b>	<b>RBR1</b>
	20: 20mm 10: 10mm 5: 5mm	No entry: With no brake BK: With brake	Origin position change None: Standard Z: Non-motor side	150 to 1050 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	<b>Positioner</b> TS-X	<b>Driver: Power-supply voltage / Power capacity</b> 105: 100V/100W or less 205: 200V/100W or less	<b>Controller</b> 05	<b>Driver: Power capacity</b> 05: 100W or less	<b>Power-supply voltage</b> 2: AC200V	<b>Driver: Power capacity</b> 05: 100W or less	<b>Regenerative unit</b>
							<b>Regenerative unit</b> No entry: None R: With RGT	<b>Usable for CE</b> No entry: Standard E: CE marking	<b>Usable for CE</b> No entry: Standard E: CE marking			
							<b>LCD monitor</b> No entry: None L: With LCD	<b>Regenerative unit</b> No entry: None R: With RG1	<b>Regenerative unit</b> No entry: None R: With RG1			
							<b>I/O selection</b> NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	<b>I/O selection</b> N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	<b>I/O selection</b> N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS			
							<b>Battery</b> B: With battery (Absolute) N: None (Incremental)	<b>Battery</b> B: With battery (Absolute) N: None (Incremental)	<b>Battery</b> B: With battery (Absolute) N: None (Incremental)			

Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.614 for details on robot cable.  
Note 2. See P.522 for DIN rail mounting bracket.  
Note 3. Select this selection when using the gateway function. For details, see P.66.

## Basic specifications

AC servo motor output (W)	100
Repeatability (mm)	+/-0.01
Deceleration mechanism	Ball screw φ15
Ball screw lead (mm)	20 10 5
Maximum speed (mm/sec)	1000 500 250
Maximum payload (kg)	Horizontal 30 55 80 Vertical 4 10 20
Rated thrust (N)	84 169 339
Stroke (mm)	150 to 1050 (50mm pitch)
Overall length (mm)	Horizontal Stroke+285 Vertical Stroke+315
Maximum outside dimension of body cross-section (mm)	W136 × H96
Cable length (m)	Standard: 3.5 / Option: 5, 10
Degree of cleanliness	CLASS 10
Intake air (Nl/min)	30 to 90

Note 1. Positioning repeatability in one direction.  
Note 2. When the stroke is longer than 750mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.  
Note 3. Per 1cf (0.1um base), when suction blower is used.  
Note 4. The necessary intake amount varies depending on the use conditions and environment.

## Allowable overhang

Lead	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)			
	A	B	C	A	B	C	A	C		
Lead 20	5kg	2127	1384	968	1047	968	1553	1kg	600	600
	15kg	1177	459	425	387	264	748	2kg	1200	1200
	30kg	1247	242	291	206	97	633	4kg	1141	885
Lead 10	20kg	1120	349	353	299	180	658	8kg	621	482
	40kg	857	179	215	127	49	363	10kg	503	390
	55kg	932	138	182	79	16	296	15kg	370	287
Lead 5	50kg	2017	250	335	233	103	1033	20kg	268	208
	60kg	1477	134	192	75	13	433			
	80kg	1452	106	157	35	0	242			

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

## Static loading moment

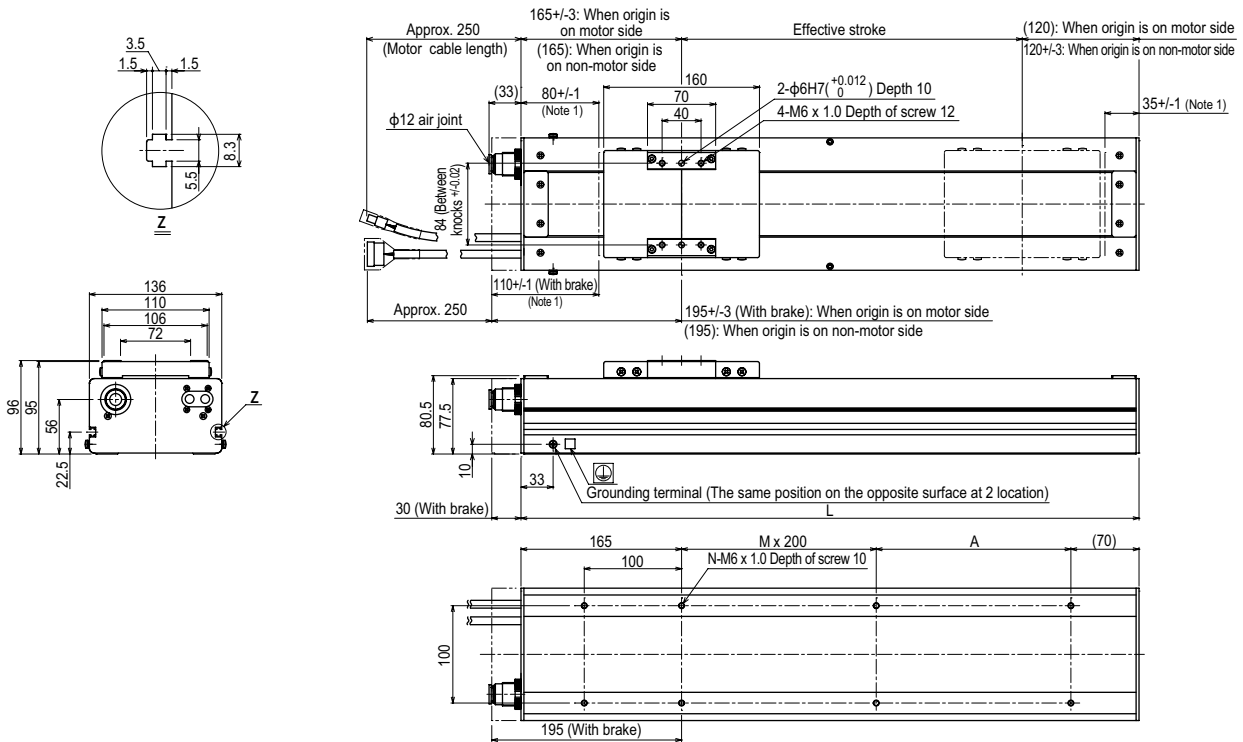
(Unit: N·m)		
MY	MP	MR
232	233	204

## Controller

Controller	Operation method
SR1-X-05 RCX320 RCX221/222 RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105 TS-X205	I/O point trace / Remote command
RDV-X205-RBR1	Pulse train control

Note. Regenerative unit is required when the models used vertically and with 700mm or larger stroke.

## C14



Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	435	485	535	585	635	685	735	785	835	885	935	985	1035	1085	1135	1185	1235	1285	1335
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16
Weight (kg)	9.2	9.9	10.5	11.2	11.7	12.4	13.0	13.7	14.3	15.0	15.5	16.2	16.8	17.5	18.1	18.8	19.3	20.0	20.6
Maximum speed (mm/sec)	Lead 20	1000																	
	Lead 10	500																	
	Lead 5	250																	
	Speed setting	95% 95% 75% 75% 60% 60% 50%																	

Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
Note 2. Minimum bend radius of motor cable is R50.  
Note 3. Weight of models with no brake. The weight of brake-attached models is 0.4 kg heavier than the models with no brake shown in the table.

Controller

SR1-X ▶ 540 TS-X ▶ 514 RDV-X ▶ 528

# C14H

● Origin on the non-motor side is selectable: Lead 20 • 10



## Ordering method

**C14H**

Model	Lead	Brake	Option	Stroke	Cable length	TSX	SR1-X	RDV-X	Battery
	20: 20mm 10: 10mm 5: 5mm	No entry: With no brake BK: With brake	Origin position change None: Standard Z: Non-motor side	150 to 1050 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	Positioner TS-X Driver: Power-supply voltage / Power capacity 110: 100V/200W 210: 200V/200W Regenerative unit No entry: None R: With RGT LCD monitor No entry: None L: With LCD I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	Controller 10 Driver: Power capacity 10: 200W Usable for CE No entry: Standard E: CE marking Regenerative unit No entry: None R: With RG1 I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS Battery B: With battery (Absolute) N: None (Incremental)	Driver 2 Power-supply voltage 2: AC200V 10 Driver: Power capacity 10: 200W or less Regenerative unit RBR1	Battery B: With battery (Absolute) N: None (Incremental)

Note 1. If selecting 5mm lead specifications then the origin point cannot be changed to the non-motor side.  
 Note 2. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.614 for details on robot cable.  
 Note 3. See P.522 for DIN rail mounting bracket.  
 Note 4. Select this selection when using the gateway function. For details, see P.66.

## Basic specifications

AC servo motor output (W)	200
Repeatability (mm)	+/-0.01
Deceleration mechanism	Ball screw φ15
Ball screw lead (mm)	20 10 5
Maximum speed (mm/sec)	1000 500 250
Maximum payload (kg)	Horizontal 40 80 100 Vertical 8 20 30
Rated thrust (N)	170 341 683
Stroke (mm)	150 to 1050 (50mm pitch)
Overall length (mm)	Horizontal Stroke+349 Vertical Stroke+379
Maximum outside dimension of body cross-section (mm)	W136 × H96
Cable length (m)	Standard: 3.5 / Option: 5, 10
Degree of cleanliness	CLASS 10
Intake air (Nl/min)	30 to 90

Note 1. Positioning repeatability in one direction.  
 Note 2. When the stroke is longer than 750mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.  
 Note 3. Per 1cf (0.1um base), when suction blower is used.  
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

## Allowable overhang

Lead	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C	A	B	C
Lead 20	10kg	2247	1675	987	1210	1678	4kg	2400	2008
	20kg	1397	855	497	548	958	6kg	1687	1358
	40kg	1037	445	247	217	598	8kg	1287	1033
Lead 10	30kg	1937	583	402	328	1238	10kg	1347	1088
	50kg	1637	364	227	152	878	15kg	887	718
	80kg	1717	242	119	74	678	20kg	657	538
Lead 5	60kg	2443	311	197	108	1308	20kg	747	608
	80kg	2193	242	127	53	1008	25kg	663	484
	100kg	2000	202	85	20	788	30kg	491	396

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

## Static loading moment

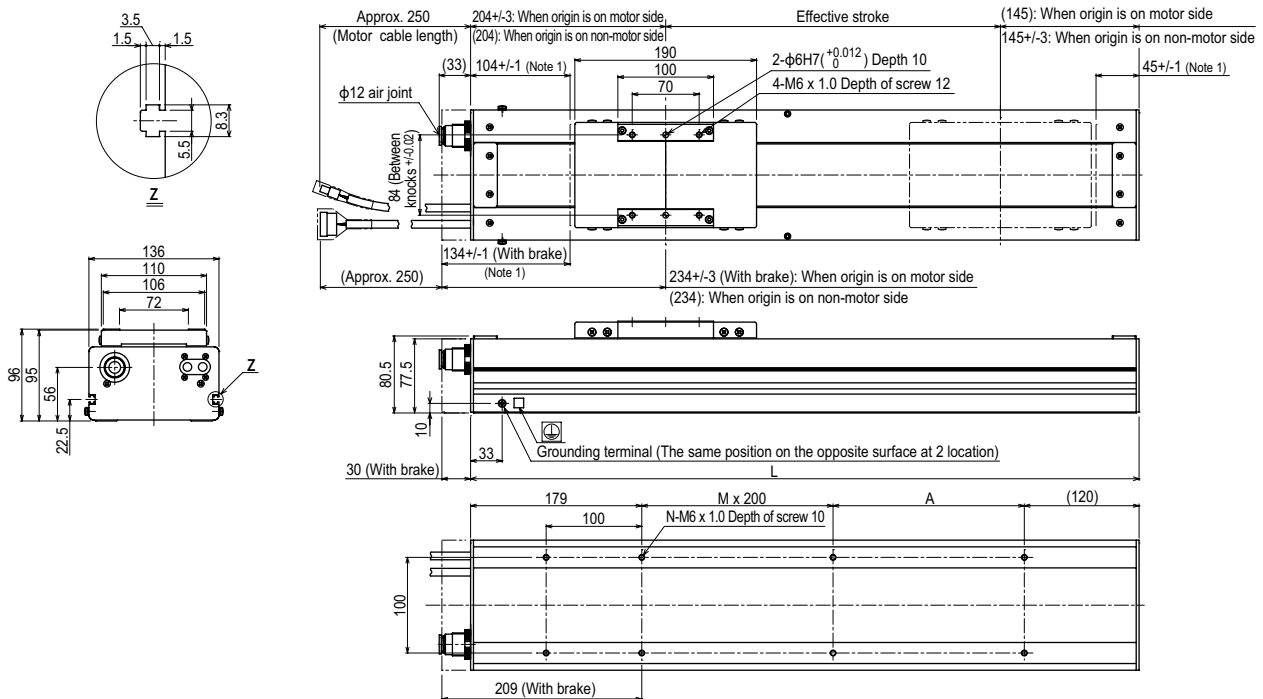
(Unit: N·m)		
MY	MP	MR
293	294	258

## Controller

Controller	Operation method
SR1-X10 Note 1	Programming / I/O point trace / Remote command
RCX320	Operation using RS-232C communication
RCX221/222	
RCX340	
TS-X110 Note 2	I/O point trace / Remote command
TS-X210 Note 2	
RDV-X210-RBR1	Pulse train control

Note. Regenerative unit is required when used vertically.

## C14H



Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
	L	499	549	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	1349
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16
Weight (kg) Note 3	10.7	11.4	12.0	12.7	13.2	13.9	14.5	15.2	15.8	16.5	17.0	17.7	18.3	19.0	19.6	20.3	20.8	21.5	22.1
Maximum speed (mm/sec) Note 4	Lead 20	1000																	
	Lead 10	500																	
	Lead 5	250																	
	Speed setting	95% 95% 75% 75% 60% 60% 50%																	

Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
 Note 2. Minimum bend radius of motor cable is R50.  
 Note 3. Weight of models with no brake. The weight of brake-attached models is 0.4 kg heavier than the models with no brake shown in the table.

Note 4. When the stroke is longer than 750mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.



# C17

Origin on the non-motor side is selectable



## Ordering method

<b>C17</b>	<b>Model</b>	<b>Lead</b> 20: 20mm 10: 10mm	<b>Brake</b> No entry: With no brake BK: With brake	<b>Option</b> Origin position change None: Standard Z: Non-motor side	<b>Stroke</b> 200 to 1250 (50mm pitch)	<b>Cable length</b> Note 1 3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	<b>TSX</b> <b>Positioner</b> Note 2 TS-X	<b>220</b> <b>Driver: Power supply voltage / Power capacity</b> 220: 200V/400 to 600W	<b>Regenerative unit</b> No entry: None R: With RGT	<b>LCD monitor</b> No entry: None L: With LCD	<b>I/O selection</b> N: NPN P: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board Note 3	<b>Battery</b> B: With battery (Absolute) N: None (Incremental)
	<b>SR1-X</b> <b>Controller</b>	<b>20</b> <b>Driver: Power capacity</b> 20: 400 to 600W	<b>Usable for CE</b> No entry: Standard E: CE marking	<b>Regenerative unit</b> No entry: None R: With RG1	<b>I/O selection</b> N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	<b>Battery</b> B: With battery (Absolute) N: None (Incremental)		<b>RDV-X</b> <b>Driver</b>	<b>2</b> <b>Power supply voltage</b> 2: AC200V	<b>20</b> <b>Driver: Power capacity</b> 20: 400W or less	<b>Regenerative unit</b> RBR1 (Horizontal) RBR2 (Vertical)	

Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.614 for details on robot cable.  
 Note 2. See P.522 for DIN rail mounting bracket.  
 Note 3. Select this selection when using the gateway function. For details, see P.66.

## Basic specifications

AC servo motor output (W)	400
Repeatability <sup>Note 1</sup> (mm)	+/-0.01
Deceleration mechanism	Ball screw φ20
Ball screw lead (mm)	20      10
Maximum speed (mm/sec)	1000      600
Maximum payload (kg)	Horizontal: 80, 120 Vertical: 15, 35
Rated thrust (N)	339      678
Stroke (mm)	200 to 1250 (50mm pitch)
Overall length (mm)	Horizontal: Stroke+395 Vertical: Stroke+425
Maximum outside dimension of body cross-section (mm)	W168 × H114
Cable length (m)	Standard: 3.5 / OP: 5, 10
Degree of cleanliness	CLASS 10 <sup>Note 3</sup>
Intake air (Nl/min)	30 to 90 <sup>Note 4</sup>

Note 1. Positioning repeatability in one direction.  
 Note 2. When the stroke is longer than 950mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.  
 Note 3. Per 1cf (0.1um base), when suction blower is used.  
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

## Allowable overhang

	Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)		
	Lead	A	B	C	Lead	A	B	C	Lead	A	C
20	30kg	2660	871	1040	30kg	1017	789	2576	5kg	3000	3000
Lead 20	50kg	1911	508	615	50kg	583	426	1808	10kg	2443	2443
	80kg	1541	303	377	80kg	338	221	1380	15kg	1633	1633
	60kg	2443	418	580	60kg	525	336	2443	15kg	1728	1728
Lead 10	100kg	2000	237	330	100kg	271	155	2000	25kg	1013	1013
	120kg	1841	192	268	120kg	207	109	1841	35kg	707	707

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

## Static loading moment

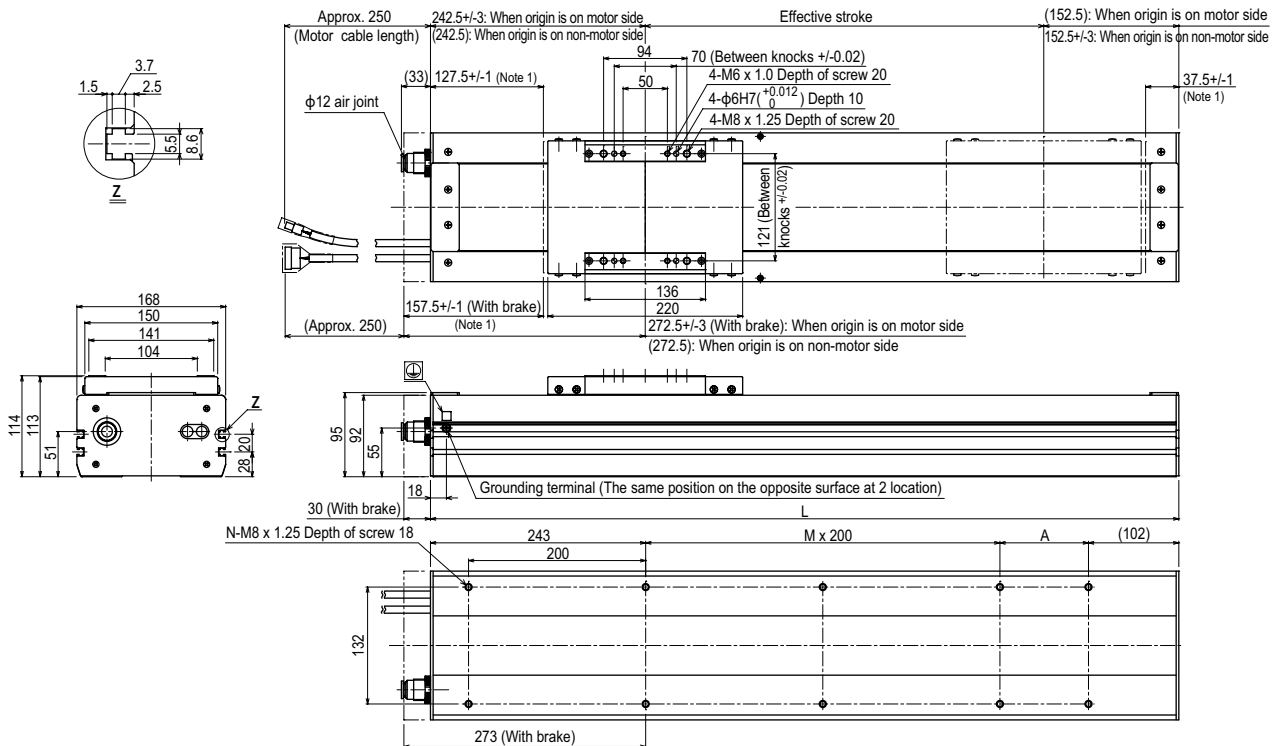
(Unit: N·m)		
MY	MP	MR
1032	1034	908

## Controller

Controller	Operation method
SR1-X20 <sup>Note</sup> RCX320, RCX221/222, RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X220 <sup>Note</sup>	I/O point trace / Remote command
RDV-X220-RBR1 (Horizontal) RDV-X220-RBR2 (Vertical)	Pulse train control

Note. [The following arrangements require a regeneration unit]  
 • Using in the upright position.

## C17



Effective stroke	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	
L	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195	1245	1295	1345	1395	1445	1495	1545	1595	1645	
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	
N	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	
Weight (kg) <sup>Note 3</sup>	15.0	16.0	17.0	17.9	18.9	19.8	20.8	21.7	22.7	23.6	24.6	25.5	26.5	27.4	28.4	29.3	30.3	31.2	32.2	33.1	34.1	35.0	
Maximum speed <sup>Note 4</sup> (mm/sec)	Lead 20	1000																					
	Lead 10	500																					
Speed setting	Lead 20	-																					
	Lead 10	80%	80%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	60%	60%	50%

Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
 Note 2. Minimum bend radius of motor cable is R50.  
 Note 3. Weight of models with no brake. The weight of brake-attached models is 1.5 kg heavier than the models with no brake shown in the table.  
 Note 4. When the stroke is longer than 950mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

# C17L

Origin on the non-motor side is selectable

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

## Ordering method

**C17L - 50**

Model	Lead	Brake	Option	Stroke	Cable length
		No entry: With no brake BK: With brake	Origin position change None: Standard Z: Non-motor side	1150 to 2050 (100mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)

Positioner	220	R	LCD monitor	I/O selection	Battery
TS-X	Driver: Power-supply voltage / Power capacity 220: 200V/400 to 600W	Regenerative unit R: With RGT	No entry: None L: With LCD	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	B: With battery (Absolute) N: None (Incremental)

SR1-X	20	R	I/O selection	Battery	
Controller	Driver: Power capacity 20: 400 to 600W	Usable for CE No entry: Standard E: CE marking	No entry: Standard R: With RG1	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	B: With battery (Absolute) N: None (Incremental)

RDV-X	2	20	Regenerative unit
Driver	Power-supply voltage 2: AC200V	Driver: Power capacity 20: 400W or less	RBR1 (Horizontal) RBR2 (Vertical)

Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.614 for details on robot cable.  
 Note 2. See P.522 for DIN rail mounting bracket.  
 Note 3. Acceleration / deceleration is different depending the Positioner or Controller or Driver.  
 Note 4. Select this selection when using the gateway function. For details, see P.66.

## Basic specifications

AC servo motor output (W)	600
Repeatability (mm)	+/-0.02
Deceleration mechanism	Ball screw $\phi 25$
Ball screw lead (mm)	50
Maximum speed (mm/sec)	1000
Maximum payload (kg)	Horizontal: 50 Vertical: 10
Rated thrust (N)	204
Stroke (mm)	1150 to 2050 (100 pitch)
Overall length (mm)	Horizontal: Stroke+485 Vertical: Stroke+515
Maximum outside dimension of body cross-section (mm)	W168 x H114
Cable length (m)	Standard: 3.5 / Option: 5, 10
Degree of cleanliness	CLASS 10
Intake air (Nl/min)	30 to 90

Note 1. Positioning repeatability in one direction.  
 Note 2. When the stroke is longer than 1850mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.  
 Note 3. Per 1cf (0.1um base), when suction blower is used.  
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

## Allowable overhang

Lead 50	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)			
	A	B	C	A	B	C	A	C		
10kg	4000	2687	3327	10kg	3436	2605	4000	2kg	1200	1200
30kg	3045	872	929	30kg	1169	790	3045	5kg	3000	3000
50kg	2602	509	714	50kg	666	427	2602	10kg	2579	2579

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

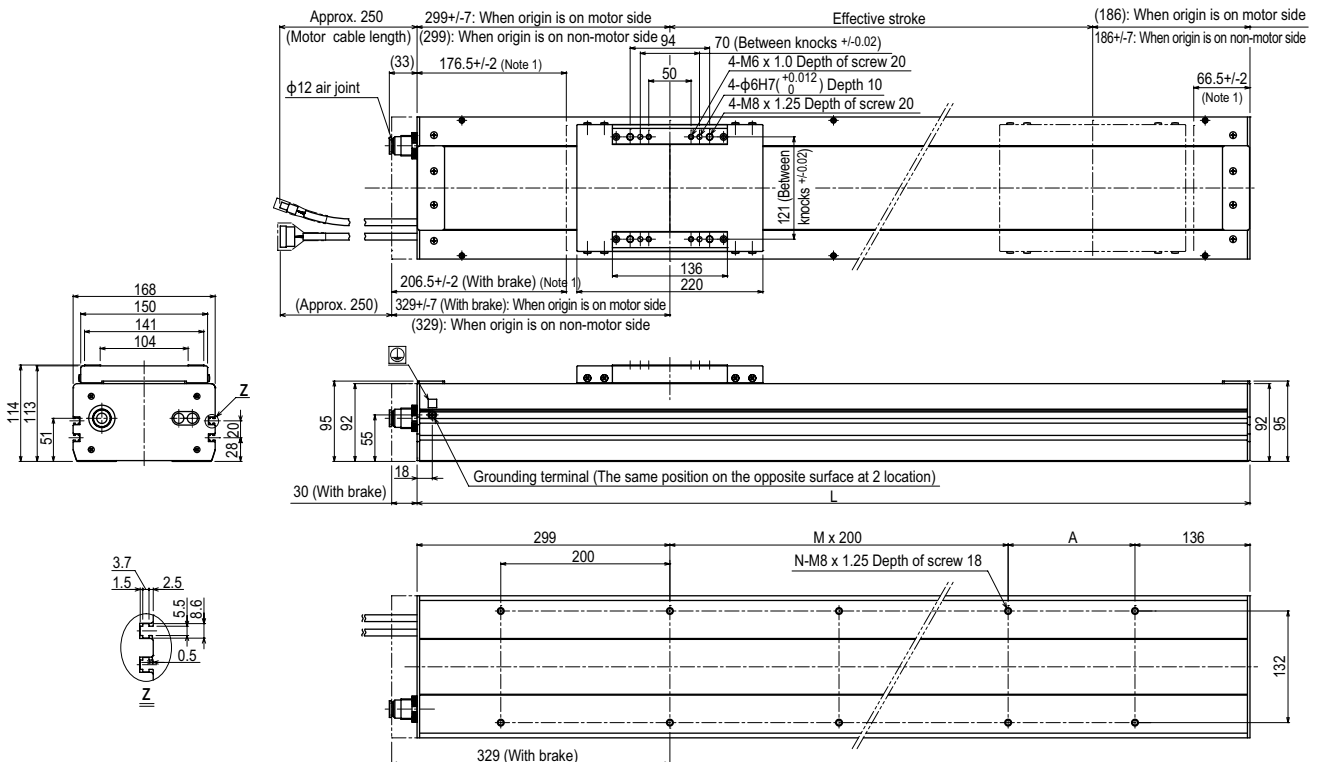
## Static loading moment

(Unit: N·m)		
MY	MP	MR
1032	1034	908

## Controller

Controller	Operation method
SR1-X20-R RCX320 RCX221/222 RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X220-R	I/O point trace / Remote command
RDV-X220-RBR1 (Horizontal) RDV-X220-RBR2 (Vertical)	Pulse train control

## C17L



Effective stroke	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050
L	1635	1735	1835	1935	2035	2135	2235	2335	2435	2535
A	200	100	200	100	200	100	200	100	200	100
M	5	6	6	7	7	8	8	9	9	10
N	16	18	18	20	20	22	22	24	24	26
Weight (kg) Note 3	39.1	41.2	43.2	45.2	47.3	49.3	51.3	53.4	55.4	57.4
Maximum speed (mm/sec) Note 4	Lead 50					Speed setting				
	1000					-				
						90%				
						80%				

Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
 Note 2. Minimum bend radius of motor cable is R50.  
 Note 3. Weight of models with no brake. The weight of brake-attached models is 1.5 kg heavier than the models with no brake shown in the table.  
 Note 4. When the stroke is longer than 1850mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

# C20

● Origin on the non-motor side is selectable



## Ordering method

<b>C20</b>	<b>Model</b>	<b>Lead</b> 20: 20mm 10: 10mm	<b>Brake</b> No entry: With no brake BK: With brake	<b>Option</b> Origin position change None: Standard Z: Non-motor side	<b>Stroke</b> 200 to 1250 (50mm pitch)	<b>Cable length</b> 3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	<b>TSX</b> <b>Positioner</b> TS-X	<b>220</b> <b>Driver</b> Power-supply voltage / Power capacity 220: 200V/400 to 600W	<b>Regenerative unit</b> No entry: None R: With RGT	<b>LCD monitor</b> No entry: None L: With LCD	<b>I/O selection</b> N: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	<b>Battery</b> B: With battery (Absolute) N: None (Incremental)
	<b>SR1-X</b> <b>Controller</b>	<b>20</b> <b>Driver</b> Power capacity 20: 400 to 600W	<b>Usable for CE</b> No entry: Standard E: CE marking	<b>Regenerative unit</b> No entry: None R: With RG1	<b>I/O selection</b> N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	<b>Battery</b> B: With battery (Absolute) N: None (Incremental)						
	<b>RDV-X</b> <b>Driver</b>	<b>2</b> <b>Power-supply voltage</b> 2: AC200V	<b>20</b> <b>Driver</b> Power capacity 20: 400W or less	<b>Regenerative unit</b> RBR1 (Horizontal) RBR2 (Vertical)								

Note 1. Only the model with specifications with brake (vertical specifications) can select a lead of 10mm.  
 Note 2. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.614 for details on robot cable.  
 Note 3. See P.522 for DIN rail mounting bracket.  
 Note 4. Acceleration / deceleration is different depending the Positioner or Controller or Driver.  
 Note 5. Select this selection when using the gateway function. For details, see P.66.

## Basic specifications

AC servo motor output (W)	600
Repeatability (mm)	+/-0.01
Deceleration mechanism	Ball screw φ20
Ball screw lead (mm)	20 10
Maximum speed (mm/sec)	1000 500
Maximum payload (kg)	Horizontal 120 Vertical 25 45
Rated thrust (N)	510 1020
Stroke (mm)	200 to 1250 (50mm pitch)
Overall length (mm)	Horizontal Stroke+441 Vertical Stroke+471
Maximum outside dimension of body cross-section (mm)	W202 × H117
Cable length (m)	Standard: 3.5 / Option: 5, 10
Degree of cleanliness	CLASS 10
Intake air (Nl/min)	30 to 90

Note 1. Positioning repeatability in one direction.  
 Note 2. When the stroke is longer than 950mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.  
 Note 3. Per 1cf (0.1um base), when suction blower is used.  
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

## Allowable overhang

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)						
Lead	A	B	C	Lead	A	B	C	Lead	A	C	Unit: N·m	MY	MP	MR
20	50kg	2602	869	1145	50kg	1144	798	2602	15kg	2711	2711	1101	1103	968
	80kg	2193	528	720	80kg	717	456	2193	20kg	2045	2045			
	120kg	1841	339	505	120kg	466	267	1841	25kg	1647	1647			
10	15kg	2711	2711	20kg	2182	2182	30kg	1437	1437	45kg	939	939		

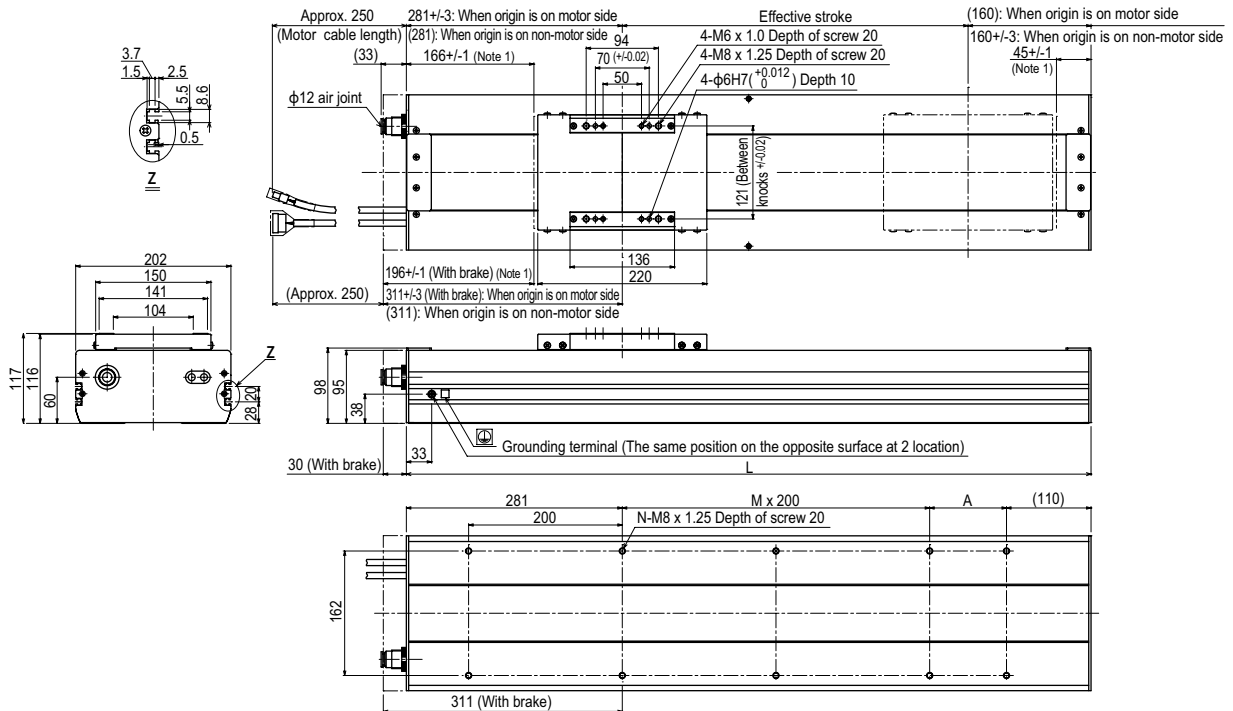
Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

## Controller

Controller	Operation method
SR1-X20	Programming / I/O point trace / Remote command / Operation using RS-232C communication
RXC320, RCX221/222, RCX340	Programming / I/O point trace / Remote command
TS-X220	I/O point trace / Remote command
RDV-X220-RBR1 (Horizontal)	Pulse train control
RDV-X220-RBR2 (Vertical)	Pulse train control

Note. [The following arrangements require a regeneration unit.]  
 • Using in the upright position.

## C20



Effective stroke	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250		
L	641	691	741	791	841	891	941	991	1041	1091	1141	1191	1241	1291	1341	1391	1441	1491	1541	1591	1641	1691		
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100		
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6		
N	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18		
Weight (kg)	25.0	26.0	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0	45.0	46.0		
Maximum speed (mm/sec)	Lead 20						1000								800		800		700		600		500	
	Lead 10						500								400		400		350		300		250	
Speed setting															80%		80%		70%		60%		50%	

Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
 Note 2. Minimum bend radius of motor cable is R50.  
 Note 3. Weight of models with no brake. The weight of brake-attached models is 2.0 kg heavier than the models with no brake shown in the table.  
 Note 4. When the stroke is longer than 950mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

Controller

**SR1-X ▶ 540 TS-X ▶ 514 RDV-X ▶ 528**

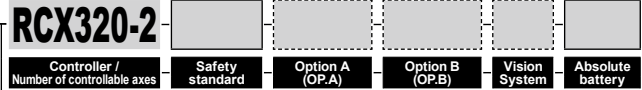
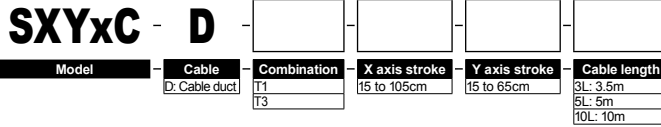
Articulated robots  
 YA  
 Linear conveyor modules  
 LCM100  
 Motor-less single axis actuator  
 Robonity  
 Compact single-axis robots  
 TRANSEVO  
 Single-axis robots  
 FLIP-X  
 Linear motor single-axis robots  
 PHASER  
 Cartesian robots  
 XY-X  
 SCARA robots  
 YK-X  
 Pick & place robots  
 YP-X  
 CLEAN  
 CONTROLLER INFORMATION  
 Single-axis  
 Cartesian  
 SCARA

# SXYxC 2 axes

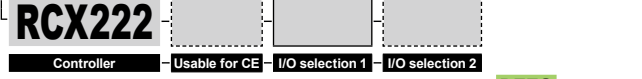
● Clean type ● Cable duct



## Ordering method



Specify various controller setting items. RCX320 ▶ **P.548**



Specify various controller setting items. RCX222 ▶ **P.558**

## Basic specifications

	X axis	Y axis
<b>Axis construction</b> <small>Note 1</small>	C14H	C14
<b>AC servo motor output (W)</b>	200	100
<b>Repeatability</b> <small>Note 2</small> (mm)	+/-0.01	+/-0.01
<b>Drive system</b>	Ball screw φ15	Ball screw φ15
<b>Ball screw lead</b> <small>Note 3</small> (Deceleration ratio) (mm)	20	20
<b>Maximum speed</b> <small>Note 4</small> (mm/sec)	1000	1000
<b>Moving range (mm)</b>	150 to 1050	150 to 650
<b>Robot cable length (m)</b>	Standard: 3.5 Option: 5, 10	
<b>Degree of cleanliness</b>	CLASS 10 <small>Note 5</small>	
<b>Intake air (Nℓ/min)</b>	60 <small>Note 6</small>	

Note 1. Use caution that the frame machining (installation holes, tap holes) differs from single-axis robots.  
 Note 2. Positioning repeatability in one direction.  
 Note 3. Leads not listed in the catalog are also available. Contact us for details.  
 Note 4. When the X-axis stroke is longer than 850mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.  
 Note 5. Per 1cf (0.1μm base), when suction blower is used.  
 Note 6. The necessary intake amount varies depending on the use conditions and environment.

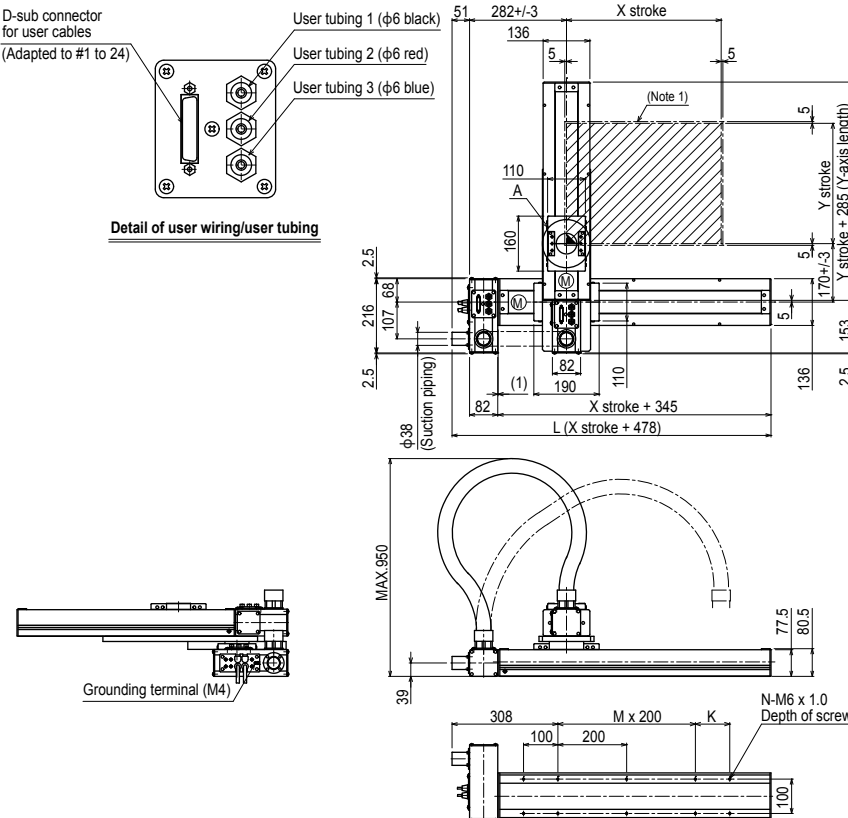
## Maximum payload (kg)

Y stroke (mm)	XY 2 axes
150	20
250	17
350	15
450	13
550	11
650	9

## Controller

Controller	Operation method
RCX320	Programming / I/O point trace / Remote command / Operation using RS-232C communication
RCX222	

## SXYxC 2 axes T1

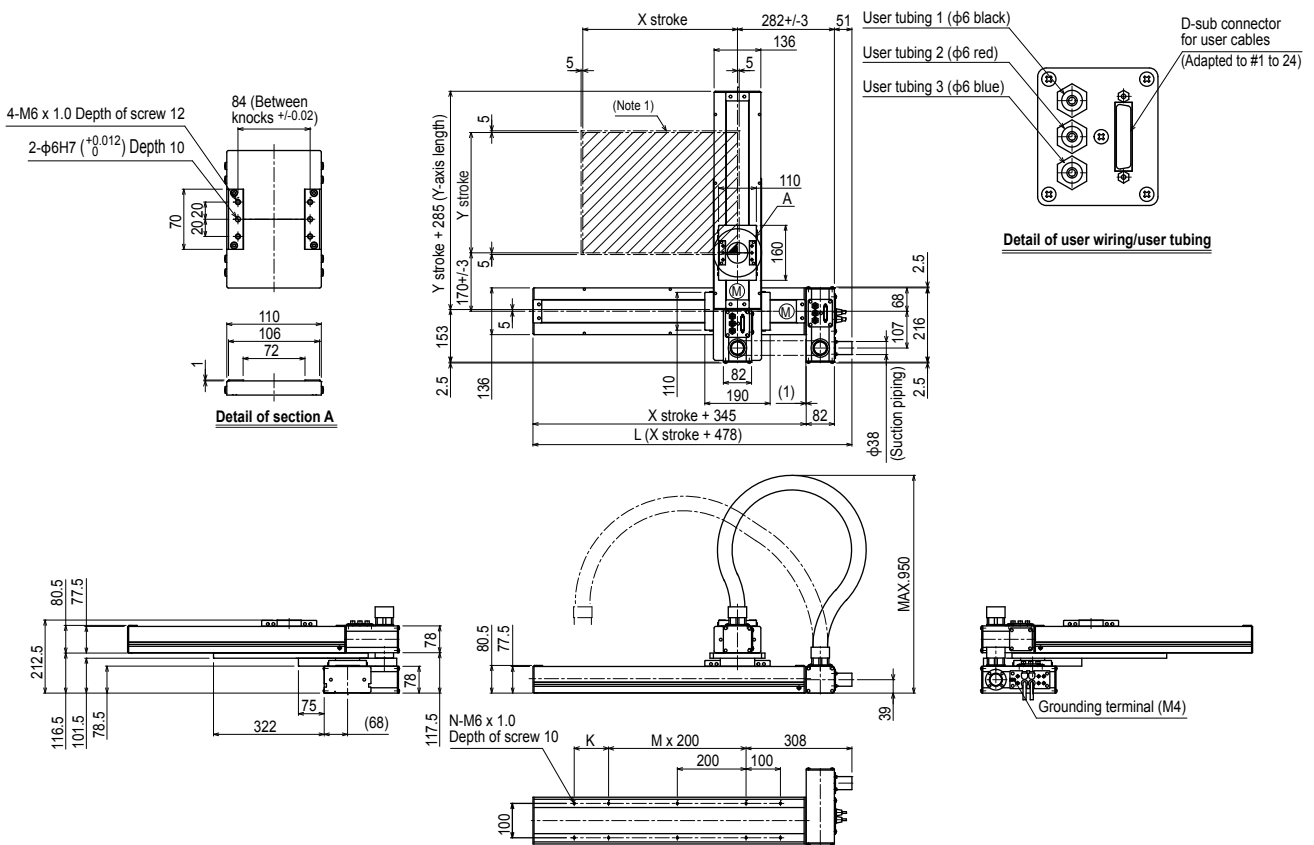


X stroke	150	250	350	450	550	650	750	850	950	1050	
	L	628	728	828	928	1028	1128	1228	1328	1428	1528
K	200	100	200	100	200	100	200	100	200	100	
M	0	1	1	2	2	3	3	4	4	5	
N	6	8	8	10	10	12	12	14	14	16	
Y stroke	150	250	350	450	550	650					
<b>Maximum speed for each stroke (mm/sec)</b> <small>Note 2</small>	1000						800	650	550		
<b>Speed setting</b>	-						80%	65%	55%		

Note 1. The moving range when returning to origin and the stop position when stopping by mechanical stopper.

Note 2. When the X-axis stroke is longer than 850mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

SXYxC 2 axes T3



X stroke	150	250	350	450	550	650	750	850	950	1050	
L	628	728	828	928	1028	1128	1228	1328	1428	1528	
K	200	100	200	100	200	100	200	100	200	100	
M	0	1	1	2	2	3	3	4	4	5	
N	6	8	8	10	10	12	12	14	14	16	
Y stroke	150	250	350	450	550	650					
Maximum speed for each stroke (mm/sec) <sup>Note 2</sup>	X axis			1000			800	650	550		
Speed setting				-			80%	65%	55%		

Note 1. The moving range when returning to origin and the stop position when stopping by mechanical stopper.

Note 2. When the X-axis stroke is longer than 850mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.



# SXYxC

3 axes / ZSC

- Clean type
- Cable duct
- Z-axis shaft vertical type

## Ordering method

**SXYxC - D** [ ] [ ] [ ] [ ] **15** [ ] **RCX340-3** [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

Model	Cable	Combination	X axis stroke	Y axis stroke	ZR axis	Z axis stroke	Cable length	Controller / Number of controllable axes	Safety standard	Option A (OP.A)	Option B (OP.B)	Option C (OP.C)	Option D (OP.D)	Option E (OP.E)	Absolute battery
	D: Cable duct	T1 T3	15 to 105cm	15 to 65cm	ZSC12 ZSC6		3L: 3.5m 5L: 5m 10L: 10m								

Specify various controller setting items. RCX340 ▶ **P.566**

## Basic specifications

	X axis	Y axis	Z axis: ZSC12	Z axis: ZSC6
<b>Axis construction</b> <sup>Note 1</sup>	C14H	C14		-
<b>AC servo motor output (W)</b>	200	100		60
<b>Repeatability</b> <sup>Note 2</sup> (mm)	+/-0.01	+/-0.01		+/-0.02
<b>Drive system</b>	Ball screw φ15	Ball screw φ15		Ball screw φ12
<b>Ball screw lead</b> <sup>Note 3</sup> (Deceleration ratio) (mm)	20	20	12	6
<b>Maximum speed</b> <sup>Note 4</sup> (mm/sec)	1000	1000	1000	500
<b>Moving range (mm)</b>	150 to 1050	150 to 650		150
<b>Robot cable length (m)</b>	Standard: 3.5 Option: 5, 10			
<b>Degree of cleanliness</b>	CLASS 10 <sup>Note 5</sup>			
<b>Intake air (Nl/min)</b>	90 <sup>Note 6</sup>			

Note 1. Use caution that the frame machining (installation holes, tap holes) differs from single-axis robots.  
 Note 2. Positioning repeatability in one direction.  
 Note 3. Leads not listed in the catalog are also available. Contact us for details.  
 Note 4. When the X-axis stroke is longer than 850mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.  
 Note 5. Per 1cf (0.1µm base), when suction blower is used.  
 Note 6. The necessary intake amount varies depending on the use conditions and environment.

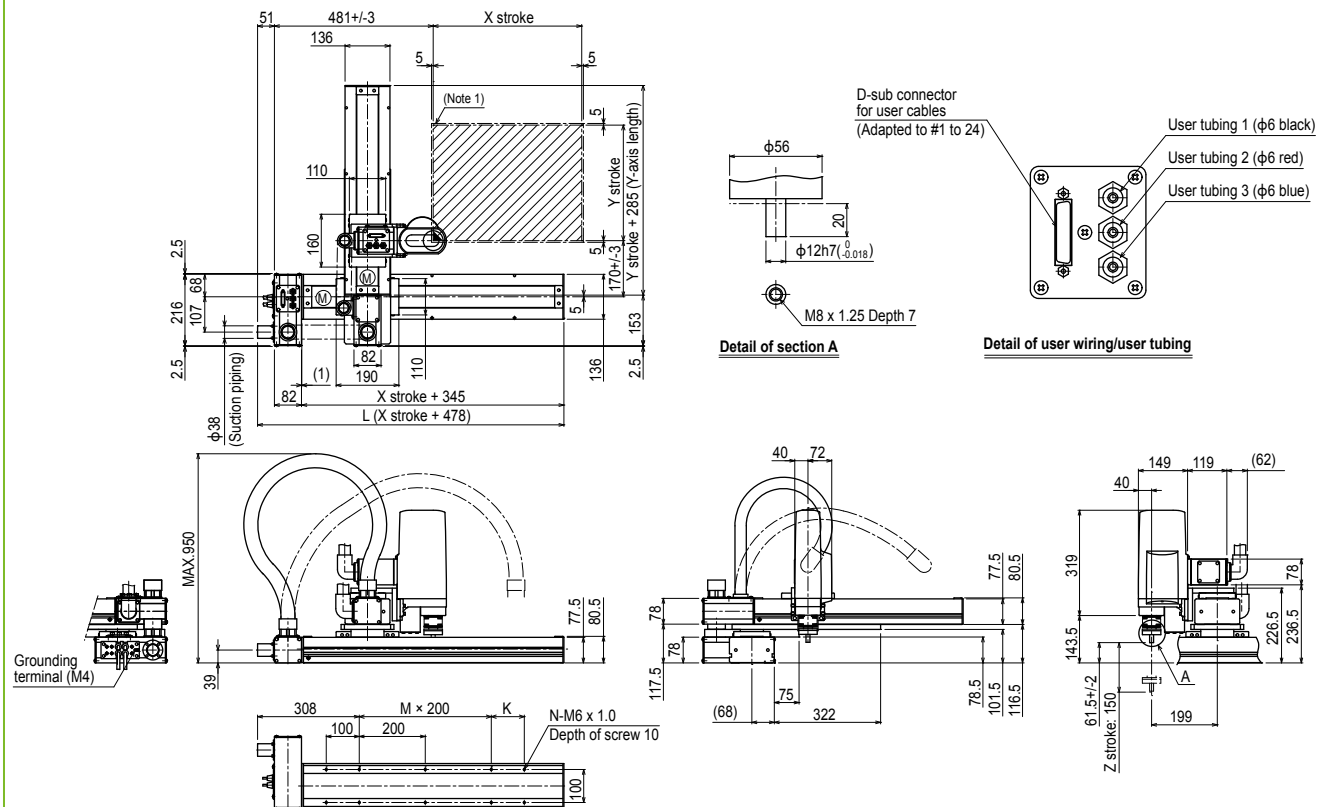
## Maximum payload (kg)

Y stroke (mm)	ZSC12	ZSC6
150 to 650	3	5

## Controller

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

## SXYxC 3 axes / ZSC (T1)

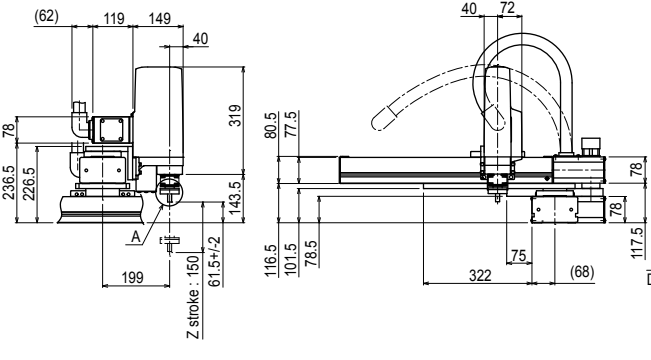
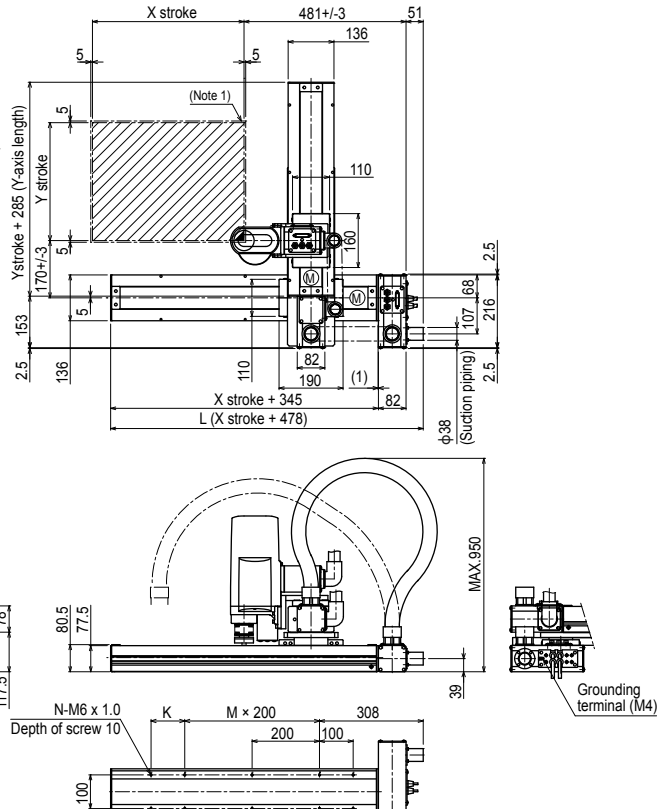
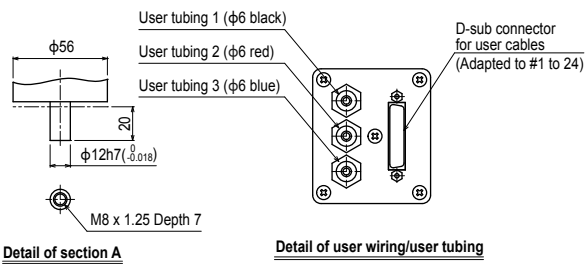


X stroke	150	250	350	450	550	650	750	850	950	1050	
	L	628	728	828	928	1028	1128	1228	1328	1428	1528
K	200	100	200	100	200	100	200	100	200	100	
M	0	1	1	2	2	3	3	4	4	5	
N	6	8	8	10	10	12	12	14	14	16	
Y stroke	150	250	350	450	550	650					
Z stroke	150										
Maximum speed for each stroke (mm/sec) <sup>Note 2</sup>	X axis	1000					800	650	550		
	Speed setting	-					80%	65%	55%		

Note 1. The moving range when returning to origin and the stop position when stopping by mechanical stopper.

Note 2. When the X-axis stroke is longer than 850mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

SXYxC 3 axes / ZSC T3



X stroke	150	250	350	450	550	650	750	850	950	1050
L	628	728	828	928	1028	1128	1228	1328	1428	1528
K	200	100	200	100	200	100	200	100	200	100
M	0	1	1	2	2	3	3	4	4	5
N	6	8	8	10	10	12	12	14	14	16
Y stroke	150	250	350	450	550	650				
Z stroke	150									
Maximum speed for each stroke (mm/sec) <sup>Note 2</sup>	X axis			1000			800	650	550	
Speed setting				-			80%	65%	55%	

Note 1. The moving range when returning to origin and the stop position when stopping by mechanical stopper.

Note 2. When the X-axis stroke is longer than 850mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.









# YK220XC

Clean type: Extra small type

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

- Arm length 220mm
- Maximum payload 1kg

## Ordering method

**YK220XC - 100** [ ] **RCX340-4** [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

Model	Z axis stroke	Cable length	Controller / Number of controllable axes	Safety standard	Option A (OP.A)	Option B (OP.B)	Option C (OP.C)	Option D (OP.D)	Option E (OP.E)	Absolute battery
	100: 100mm	3L: 3.5m 5L: 5m 10L: 10m								

Specify various controller setting items. RCX340 ▶ **P.566**

## Basic specifications

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

Note 1. This is the value at a constant ambient temperature.  
 Note 2. When reciprocating 100mm in horizontal and 25mm in vertical directions.  
 Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.  
 Note 4. The total robot weight is the sum of the robot body weight and the cable weight.

## Controller

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

## YK220XC

**Right-hand side system operation range**      **Left-hand side system operation range**

If the robot enters the inside of R30, the Z-axis flange may be in contact with the base. So, do not perform such motion.

Z-axis flange is in contact with the base in an area inside from the inner limit of this working envelope. So, do not perform any motion in this area.

**Details of A**  
 12: User tool installation area  
 Cover  
 φ55  
 φ30h7-0.021

**Details of B**  
 4-M3 x 0.5 Depth 6  
 User tool installation tap  
 16 24  
 5.3 5.3  
 φ10H7 +0.015 Depth 2  
 4-M3 x 0.5 Depth 6

Keep enough space for the maintenance work at the rear of the base.  
 R27 (Min. cable bending radius)  
 Do not move the cable.

M3 grounding terminal  
 X axis origin point is 0°+/-5° from the base front surface  
 133°+/-5°

**X-axis and Y-axis origin positions**  
 Move counterclockwise in advance from the above position when performing origin return.

Articulated robots  
**YA**  
 Linear conveyor modules  
**LCM100**  
 Motor-less single axis actuator  
**Robonity**  
 Compact single-axis robots  
**TRANSEVO**  
 Single-axis robots  
**FLIP-X**  
 Linear motor single-axis robots  
**PHASER**  
 Cartesian robots  
**XY-X**  
 SCARA robots  
**YK-X**  
 Pick & place robots  
**YP-X**  
**CLEAN**  
**CONTROLLER INFORMATION**  
 Single-axis  
 Cartesian  
**SCARA**

# YK250XGC

Clean type: Small type



- Arm length 250mm
- Maximum payload 4kg

## Ordering method

**YK250XGC - 150** **S** **RCX340-4**

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

Specify various controller setting items. RCX340 ▶ **P.566**

## Basic specifications

	X axis	Y axis	Z axis	R axis
<b>Axis specifications</b>				
Arm length (mm)	100	150	150	-
Rotation angle (°)	+/-129	+/-134	-	+/-360
<b>AC servo motor output (W)</b>	200	150	50	100
<b>Repeatability</b> <sup>Note 1</sup> (XYZ: mm) (R: °)	+/-0.01		+/-0.01	+/-0.004
<b>Maximum speed (XYZ: m/sec) (R: °/sec)</b>	4.5		1.1	1020
<b>Maximum payload (kg)</b>	4			
<b>Standard cycle time: with 2kg payload (sec)</b> <sup>Note 2</sup>	0.50			
<b>R-axis tolerable moment of inertia</b> <sup>Note 3</sup> (kgm <sup>2</sup> )	0.05			
<b>User wiring (sq x wires)</b>	0.2x10			
<b>User tubing (Outer diameter)</b>	φ4x4			
<b>Travel limit</b>	1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
<b>Robot cable length (m)</b>	Standard: 3.5 Option: 5, 10			
<b>Weight (kg)</b>	21.5			
<b>Degree of cleanliness</b>	ISO CLASS 3 (ISO 14644-1) <sup>Note 4+ESD</sup> <sup>Note 5</sup>			
<b>Intake air (Nl/min)</b>	30 <sup>Note 6</sup>			

- 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. Class 10 (0.1µm) equivalent to FED-STD-209D  
 Note 5. ESD (ElectroStatic Discharge) prevention is an option. Please contact our distributor.  
 Note 6. The necessary intake amount varies depending on the use conditions and environment.

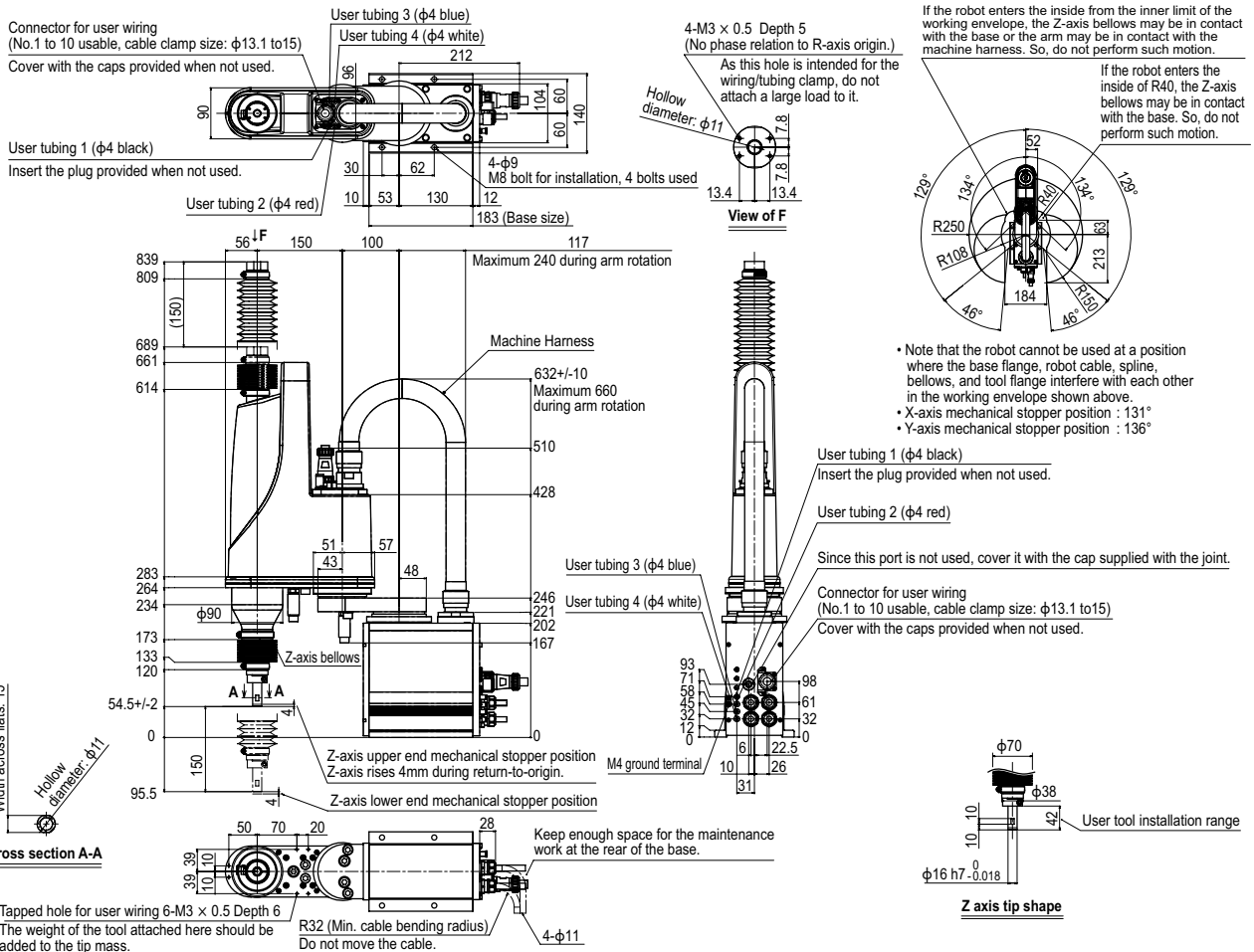
## Controller

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

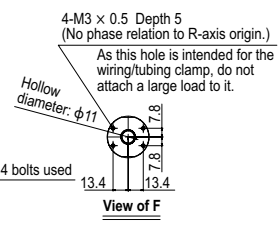
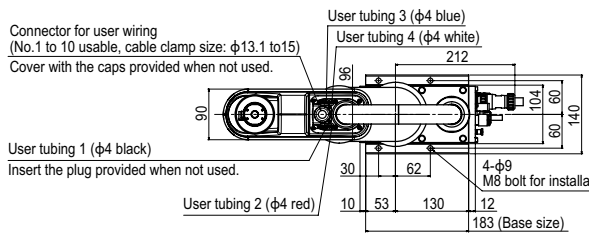
- Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)  
 See our robot manuals (installation manuals) for detailed information.  
 Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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

## YK250XGC

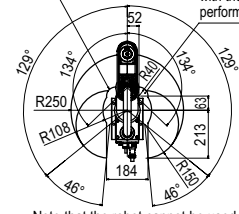


## YK250XGC Tool flange mount type

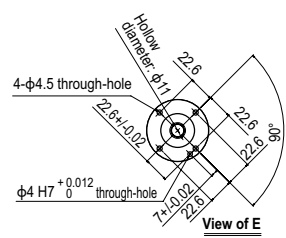
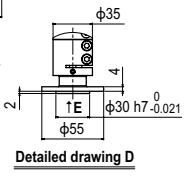
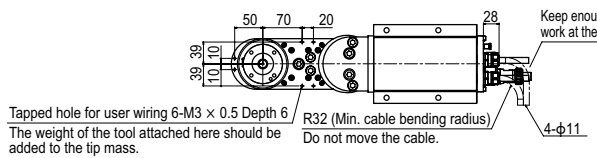
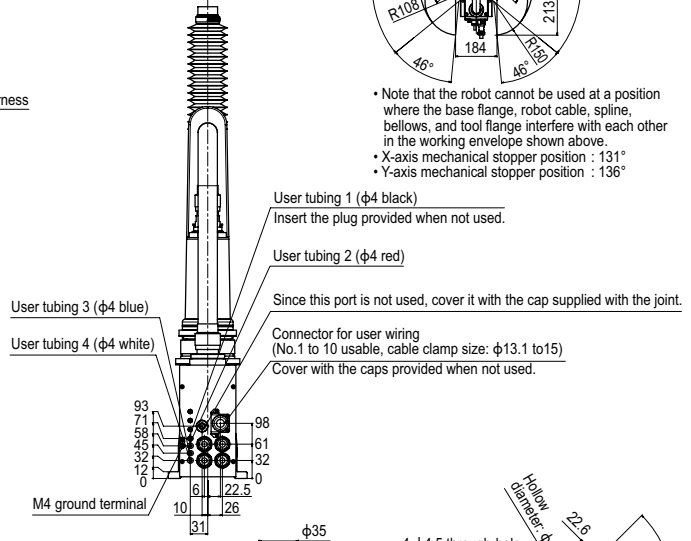
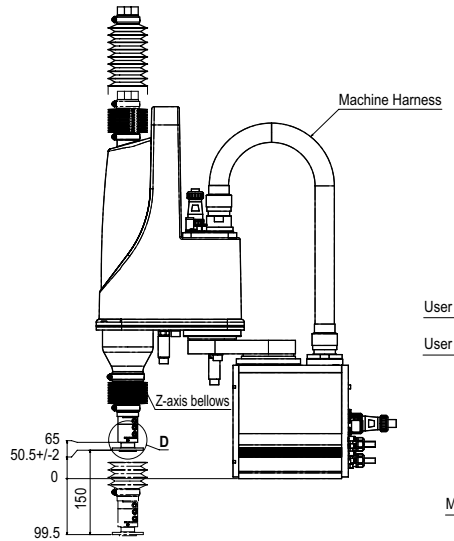


If the robot enters the inside from the inner limit of the working envelope, the Z-axis bellows may be in contact with the base or the arm may be in contact with the machine harness. So, do not perform such motion.

If the robot enters the inside of R40, the Z-axis bellows may be in contact with the base. So, do not perform such motion.



- 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 : 136°





# YK350XGC

Clean type: Small type

- Arm length 350mm
- Maximum payload 4kg

## Ordering method

<b>YK350XGC - 150</b>	<b>S</b>	<b>RCX340-4</b>										
<b>Model</b>	<b>Z axis stroke</b>	<b>Tool flange</b>	<b>Hollow shaft</b>	<b>Cable length</b>	<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>
	150: 150mm	No entry: None F: With tool flange	S: With hollow shaft	3L: 3.5m 5L: 5m 10L: 10m								

Specify various controller setting items. RCX340 ▶ **P566**

## Basic specifications

	X axis	Y axis	Z axis	R axis
<b>Axis specifications</b>				
Arm length (mm)	200	150	150	-
Rotation angle (°)	+/-129	+/-134	-	+/-360
<b>AC servo motor output (W)</b>	200	150	50	100
<b>Repeatability</b> <sup>Note 1</sup> (XYZ: mm) (R: °)	+/-0.01		+/-0.01	+/-0.004
<b>Maximum speed (XYZ: m/sec) (R: °/sec)</b>	5.6		1.1	1020
<b>Maximum payload (kg)</b>	4			
<b>Standard cycle time: with 2kg payload (sec)</b> <sup>Note 2</sup>	0.52			
<b>R-axis tolerable moment of inertia</b> <sup>Note 3</sup> (kgm <sup>2</sup> )	0.05			
<b>User wiring (sq x wires)</b>	0.2x10			
<b>User tubing (Outer diameter)</b>	φ4x4			
<b>Travel limit</b>	1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
<b>Robot cable length (m)</b>	Standard: 3.5 Option: 5, 10			
<b>Weight (kg)</b>	22			
<b>Degree of cleanliness</b>	ISO CLASS 3 (ISO 14644-1) <sup>Note 4</sup> +ESD <sup>Note 5</sup>			
<b>Intake air (Nl/min)</b>	30 <sup>Note 6</sup>			

- 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. Class 10 (0.1µm) equivalent to FED-STD-209D  
 Note 5. ESD (ElectroStatic Discharge) prevention is an option. Please contact our distributor.  
 Note 6. The necessary intake amount varies depending on the use conditions and environment.

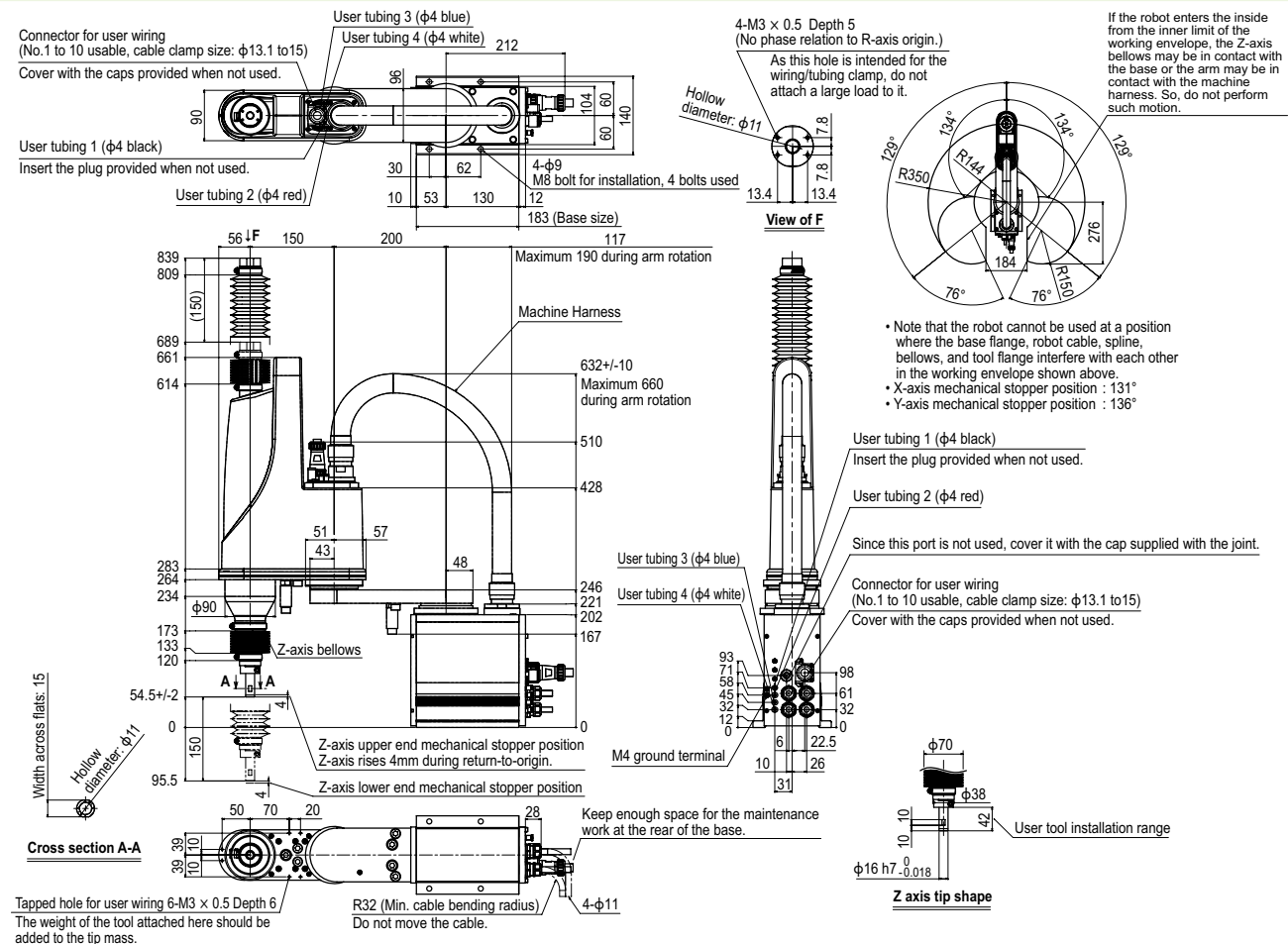
## Controller

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

- Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)  
 See our robot manuals (installation manuals) for detailed information.  
 Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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

## YK350XGC







# YK400XGC

Clean type: Small type



- Arm length 400mm
- Maximum payload 4kg

## Ordering method

**YK400XGC - 150** **S** **RCX340-4**

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

Specify various controller setting items. RCX340 ▶ **P566**

## Basic specifications

	X axis	Y axis	Z axis	R axis
<b>Axis specifications</b>				
Arm length (mm)	250	150	150	-
Rotation angle (°)	+/-129	+/-144	-	+/-360
<b>AC servo motor output (W)</b>	200	150	50	100
<b>Repeatability</b> <sup>Note 1</sup> (XYZ: mm) (R: °)	+/-0.01		+/-0.01	+/-0.004
<b>Maximum speed (XYZ: m/sec) (R: °/sec)</b>	6.1		1.1	1020
<b>Maximum payload (kg)</b>	4			
<b>Standard cycle time: with 2kg payload (sec)</b> <sup>Note 2</sup>	0.50			
<b>R-axis tolerable moment of inertia</b> <sup>Note 3</sup> (kgm <sup>2</sup> )	0.05			
<b>User wiring (sq x wires)</b>	0.2x10			
<b>User tubing (Outer diameter)</b>	φ4x4			
<b>Travel limit</b>	1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
<b>Robot cable length (m)</b>	Standard: 3.5 Option: 5, 10			
<b>Weight (kg)</b>	22.5			
<b>Degree of cleanliness</b>	ISO CLASS 3 (ISO 14644-1) <sup>Note 4</sup> +ESD <sup>Note 5</sup>			
<b>Intake air (Nℓ/min)</b>	30 <sup>Note 6</sup>			

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. Class 10 (0.1μm) equivalent to FED-STD-209D  
 Note 5. ESD (ElectroStatic Discharge) prevention is an option. Please contact our distributor.  
 Note 6. The necessary intake amount varies depending on the use conditions and environment.

## Controller

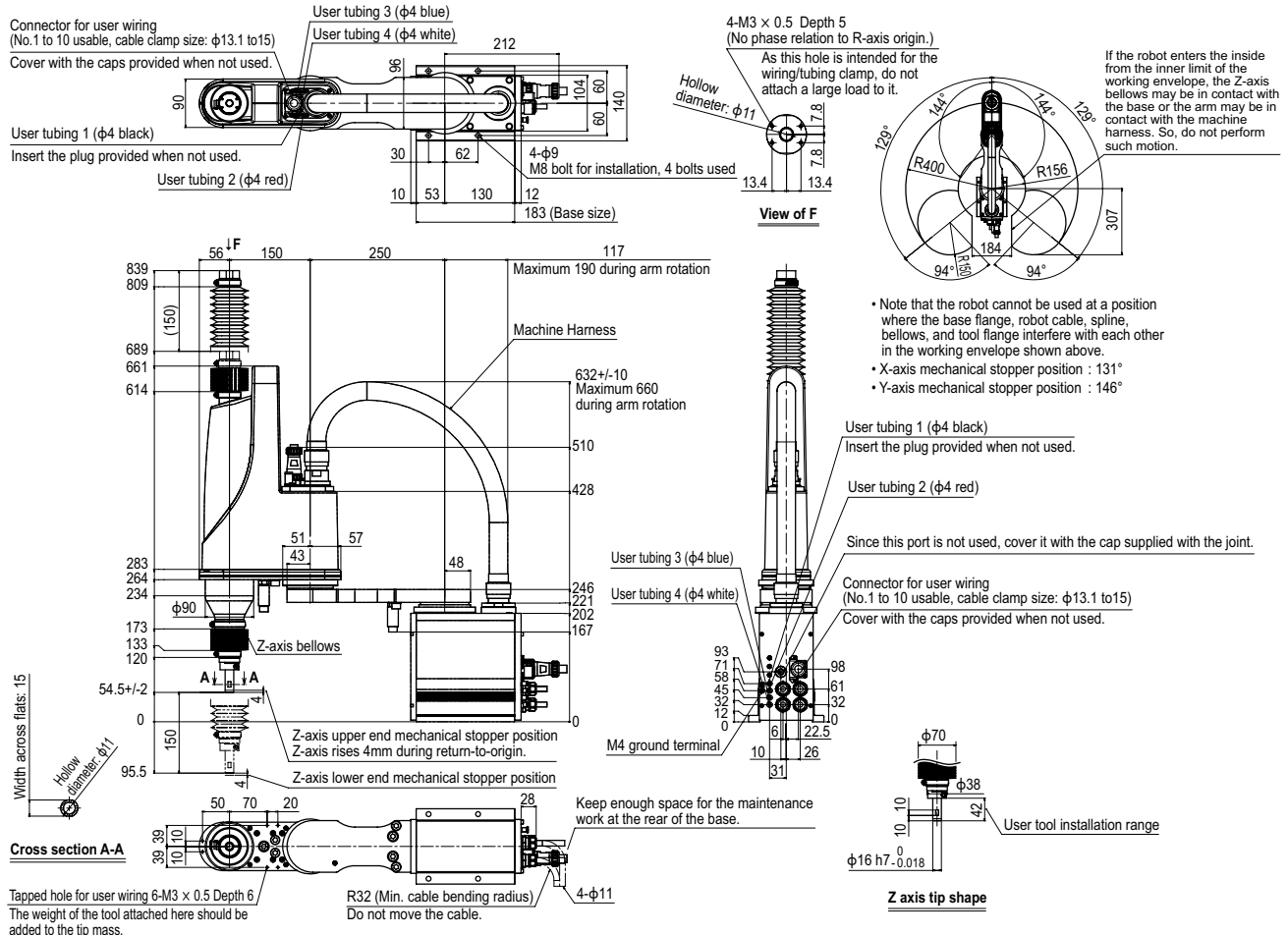
Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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

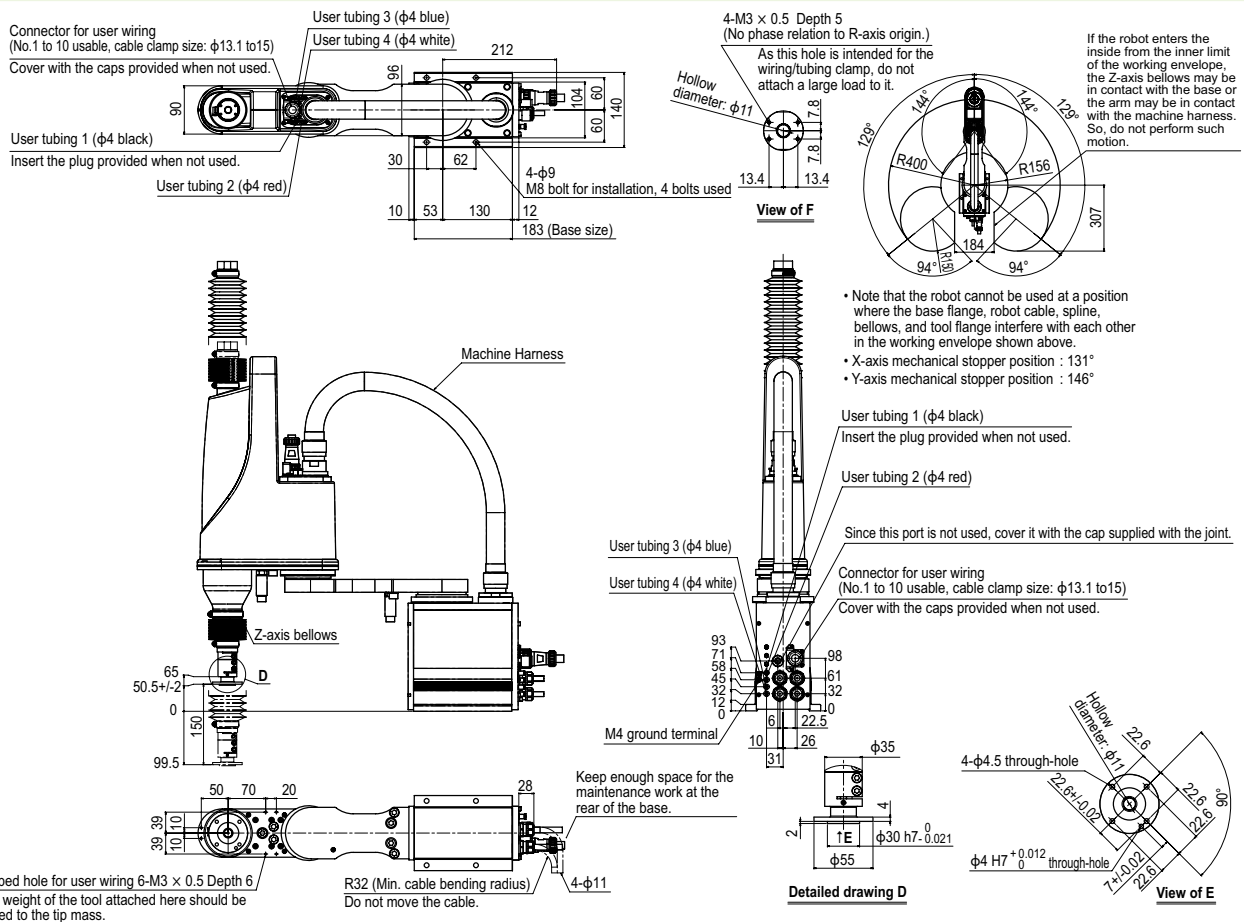
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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

## YK400XGC



## YK400XGC Tool flange mount type



# YK500XGLC

Clean type: Medium type

- Arm length 500mm
- Maximum payload 4kg

## Ordering method

**YK500XGLC - 150** **S** **RCX340-4**

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

Specify various controller setting items. RCX340 ▶ **P.566**

## Basic specifications

	X axis	Y axis	Z axis	R axis
<b>Axis specifications</b>				
Arm length (mm)	250	250	150	-
Rotation angle (°)	+/-129	+/-144	-	+/-360
<b>AC servo motor output (W)</b>	200	150	50	100
<b>Repeatability</b> <sup>Note 1</sup> (XYZ: mm) (R: °)	+/-0.01		+/-0.01	+/-0.004
<b>Maximum speed (XYZ: m/sec) (R: °/sec)</b>	5.1		1.1	1020
<b>Maximum payload (kg)</b>	4			
<b>Standard cycle time: with 2kg payload (sec)</b> <sup>Note 2</sup>	0.66			
<b>R-axis tolerable moment of inertia</b> <sup>Note 3</sup> (kgm <sup>2</sup> )	0.05			
<b>User wiring (sq x wires)</b>	0.2x10			
<b>User tubing (Outer diameter)</b>	φ4x4			
<b>Travel limit</b>	1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
<b>Robot cable length (m)</b>	Standard: 3.5 Option: 5, 10			
<b>Weight (kg)</b>	25			
<b>Degree of cleanliness</b>	ISO CLASS 3 (ISO 14644-1) <sup>Note 4</sup> +ESD <sup>Note 5</sup>			
<b>Intake air (Nl/min)</b>	30 <sup>Note 6</sup>			

- 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. Class 10 (0.1µm) equivalent to FED-STD-209D  
 Note 5. ESD (ElectroStatic Discharge) prevention is an option. Please contact our distributor.  
 Note 6. The necessary intake amount varies depending on the use conditions and environment.

## Controller

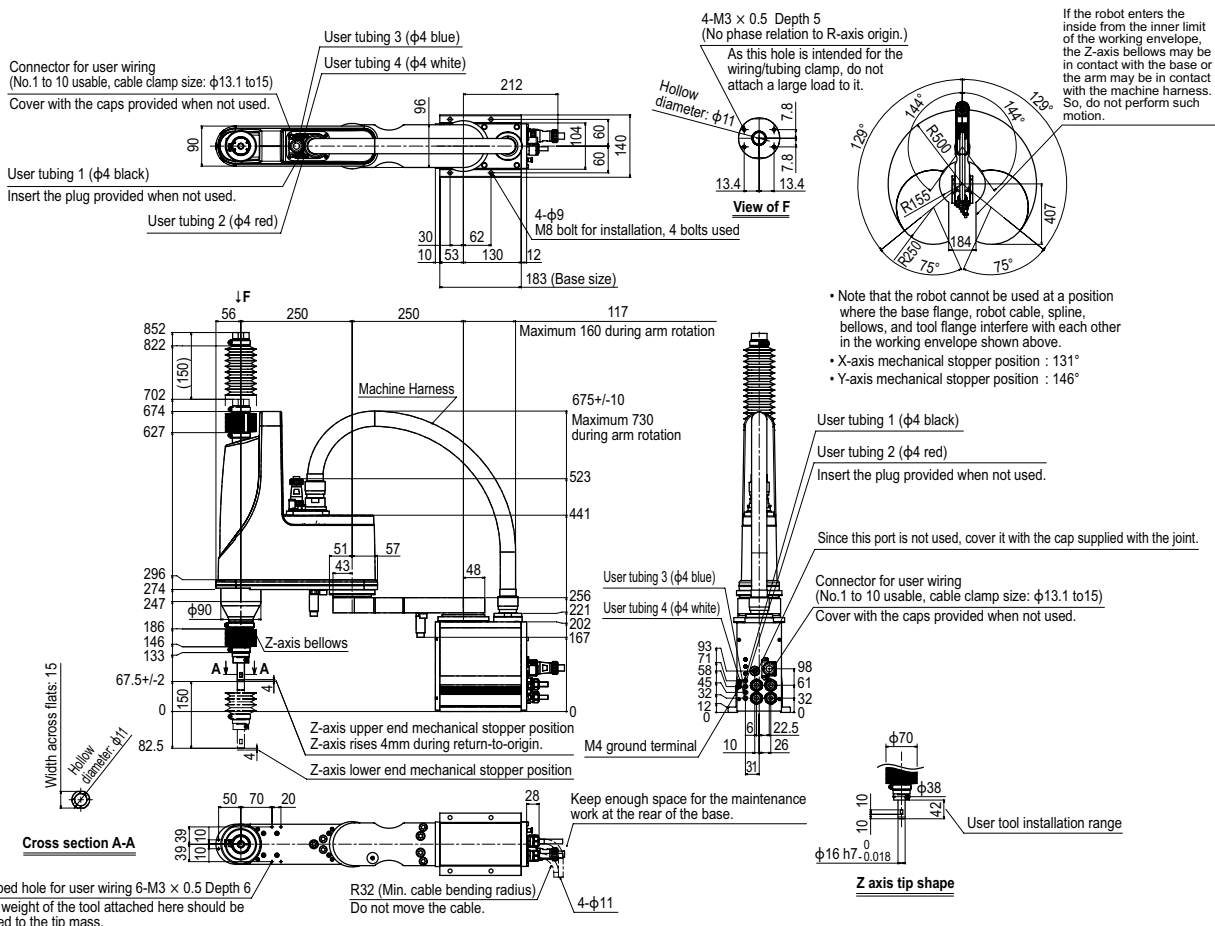
Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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

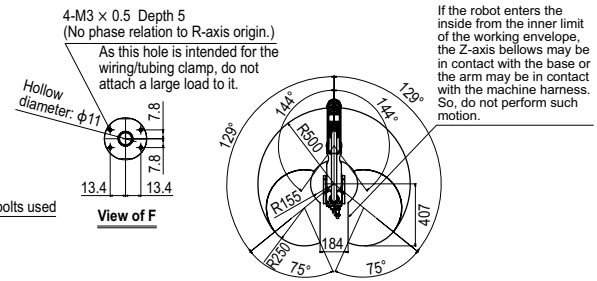
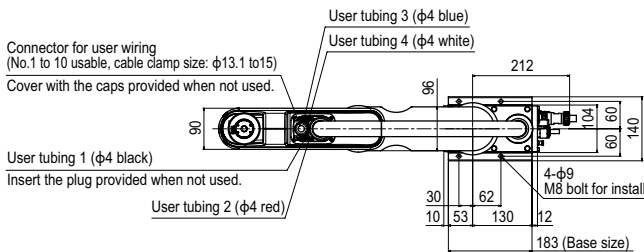
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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

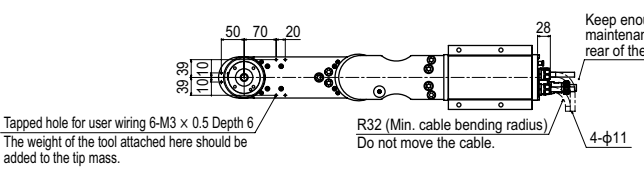
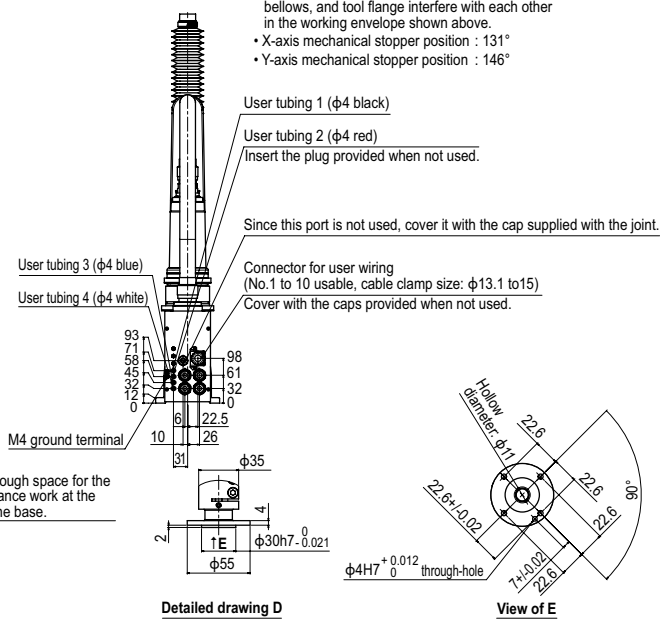
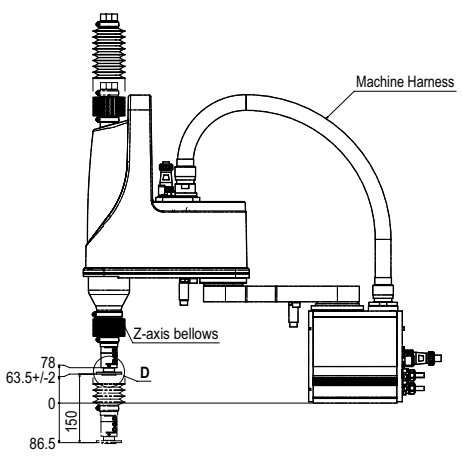
## YK500XGLC



YK500XGLC Tool flange mount type



- 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°





# YK500XC

Clean type: Medium type



- Arm length 500mm
- Maximum payload 10kg

## Ordering method

<b>YK500XC</b>			<b>RCX340-4</b>								
<b>Model</b>	<b>Z axis stroke</b>	<b>Cable length</b>	<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>	
	200: 200mm 300: 300mm	3L: 3.5m 5L: 5m 10L: 10m									

Specify various controller setting items. RCX340 ▶ **P.566**

## Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis		R axis
		Rotation angle (°)	+/-120	+/-142	200	300
AC servo motor output (W)		400	200	200	100	
Repeatability <sup>Note 1</sup> (XYZ: mm) (R: °)		+/-0.02		+/-0.01	+/-0.005	
Maximum speed (XYZ: m/sec) (R: °/sec)		4.9		1.7	876	
Maximum payload (kg)		10				
Standard cycle time: with 2kg payload (sec)		0.53				
R-axis tolerable moment of inertia <sup>Note 2</sup> (kgm <sup>2</sup> )		0.12				
User wiring (sq x wires)		0.2 x 20				
User tubing (Outer diameter)		φ6 x 3				
Travel limit		1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)				
Robot cable length (m)		Standard: 3.5 Option: 5, 10				
Weight (kg)		31				
Degree of cleanliness		CLASS 10 <sup>Note 3</sup>				
Intake air (Nl/min)		60 <sup>Note 4</sup>				

Note 1. This is the value at a constant ambient temperature. (X,Y axes)  
 Note 2. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.  
 Note 3. Per 1cf (0.1μm base), when suction blower is used.  
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

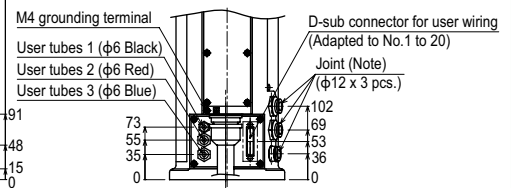
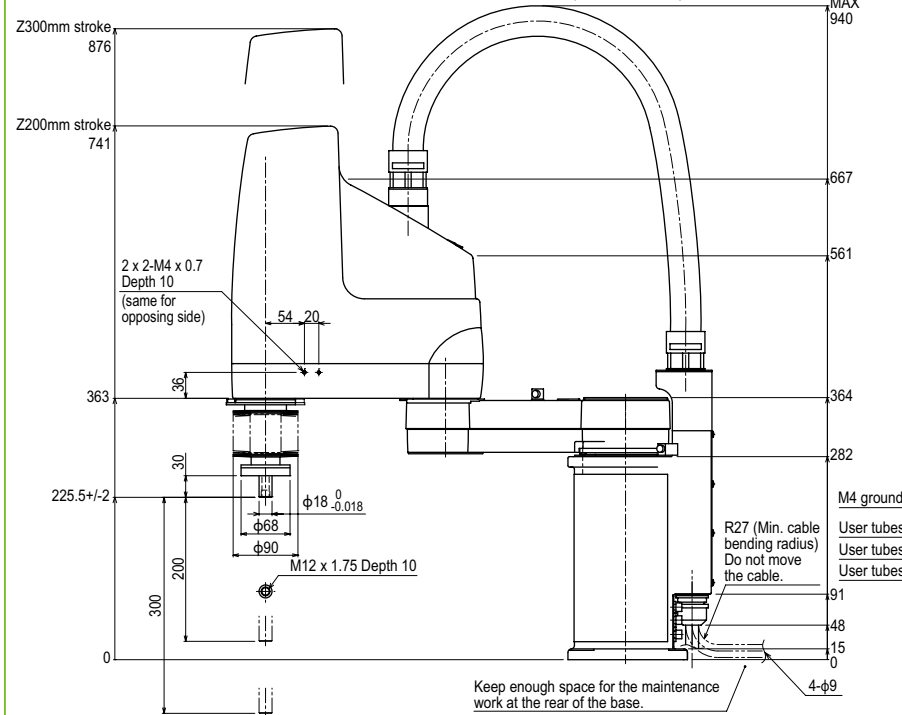
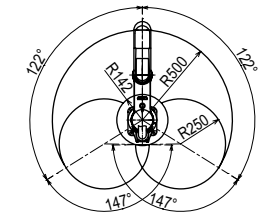
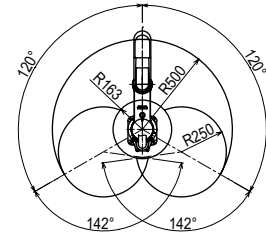
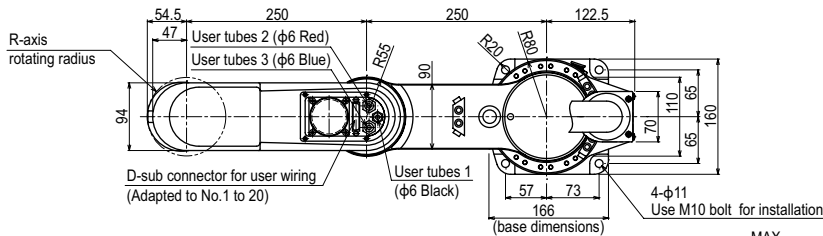
## Controller

Controller	Power capacity (VA)	Operation method
RCX340	1500	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:  
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## YK500XC



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





# YK600XC

Clean type: Medium type



- Arm length 600mm
- Maximum payload 10kg

## Ordering method

<b>YK600XC</b>			<b>RCX340-4</b>							
Model	Z axis stroke	Cable length	Controller / Number of controllable axes	Safety standard	Option A (OP.A)	Option B (OP.B)	Option C (OP.C)	Option D (OP.D)	Option E (OP.E)	Absolute battery
	200: 200mm 300: 300mm	3L: 3.5m 5L: 5m 10L: 10m								

Specify various controller setting items. RCX340 ▶ **P566**

## Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		+/-120	+/-145	-	+/-180
AC servo motor output (W)		400	200	200	100
Repeatability <sup>Note 1</sup> (XYZ: mm) (R: °)		+/-0.02		+/-0.01	+/-0.005
Maximum speed (XYZ: m/sec) (R: °/sec)		5.6		1.7	876
Maximum payload (kg)		10			
Standard cycle time: with 2kg payload (sec)		0.56			
R-axis tolerable moment of inertia <sup>Note 2</sup> (kgm <sup>2</sup> )		0.12			
User wiring (sq x wires)		0.2 x 20			
User tubing (Outer diameter)		φ6 x 3			
Travel limit		1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
Robot cable length (m)		Standard: 3.5 Option: 5, 10			
Weight (kg)		33			
Degree of cleanliness		CLASS 10 <sup>Note 3</sup>			
Intake air (Nl/min)		60 <sup>Note 4</sup>			

Note 1. This is the value at a constant ambient temperature. (X,Y axes)  
 Note 2. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.  
 Note 3. Per 1cf (0.1μm base), when suction blower is used.  
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

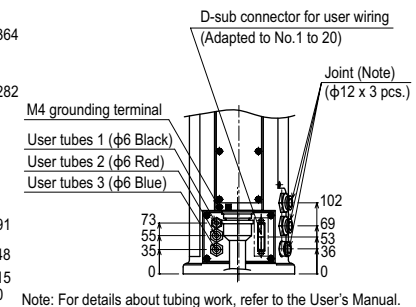
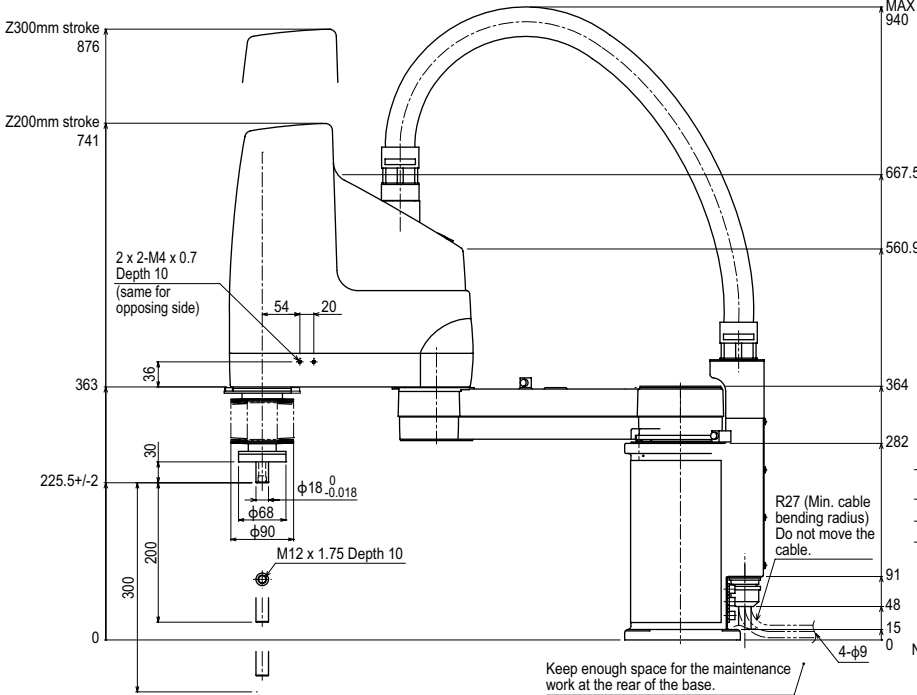
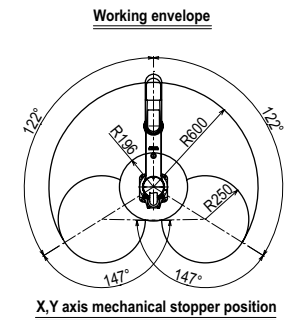
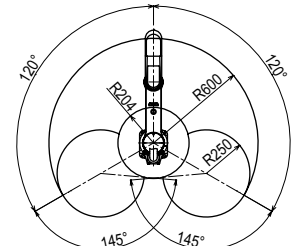
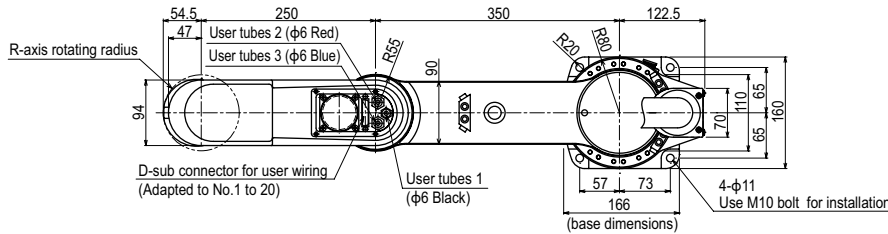
## Controller

Controller	Power capacity (VA)	Operation method
RCX340	1500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)  
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## YK600XC



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

Keep enough space for the maintenance work at the rear of the base.

# YK700XC

Clean type: Large type



- Arm length 700mm
- Maximum payload 20kg

## Ordering method

<b>YK700XC</b>			<b>RCX340-4</b>								
<b>Model</b>	<b>Z axis stroke</b>	<b>Cable length</b>	<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>	
	200: 200mm 400: 400mm	3L: 3.5m 5L: 5m 10L: 10m									

Specify various controller setting items. RCX340 ▶ **P.566**

## Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		+/-120	+/-145	-	+/-180
AC servo motor output (W)		800	400	400	200
Repeatability <sup>Note 1</sup> (XYZ: mm) (R: °)		+/-0.02		+/-0.01	+/-0.005
Maximum speed (XYZ: m/sec) (R: °/sec)		6.7		1.7	600
Maximum payload (kg)		20			
Standard cycle time: with 2kg payload (sec)		0.57			
R-axis tolerable moment of inertia <sup>Note 2</sup> (kgm <sup>2</sup> )		0.32			
User wiring (sq x wires)		0.2 x 20			
User tubing (Outer diameter)		φ6 x 3			
Travel limit		1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
Robot cable length (m)		Standard: 3.5 Option: 5, 10			
Weight (kg)		57			
Degree of cleanliness		CLASS 10 <sup>Note 3</sup>			
Intake air (Nl/min)		60 <sup>Note 4</sup>			

Note 1. This is the value at a constant ambient temperature. (X,Y axes)  
 Note 2. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.  
 Note 3. Per 1cf (0.1μm base), when suction blower is used.  
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

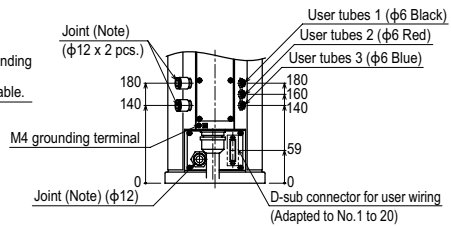
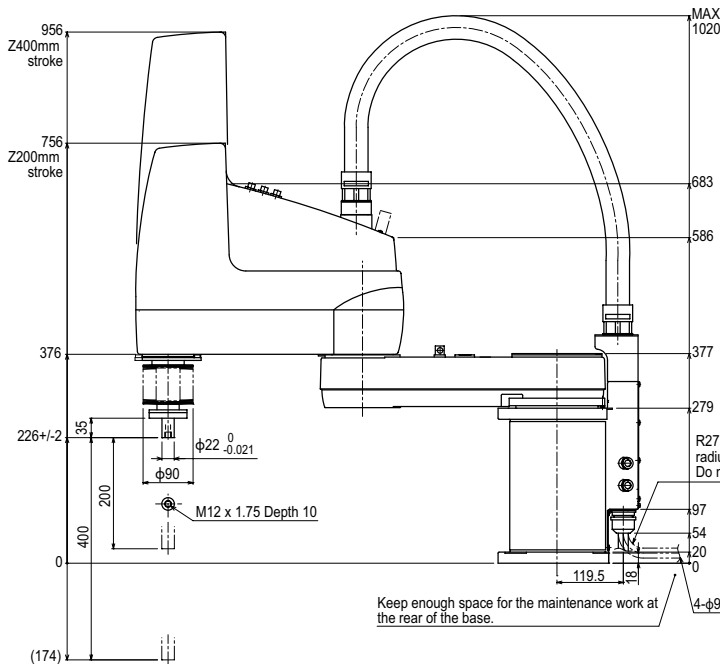
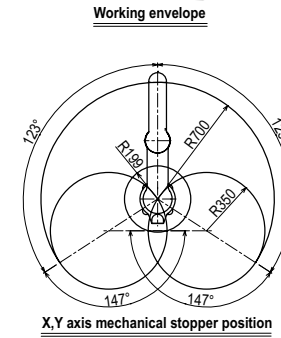
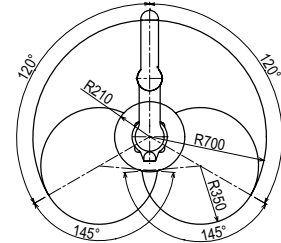
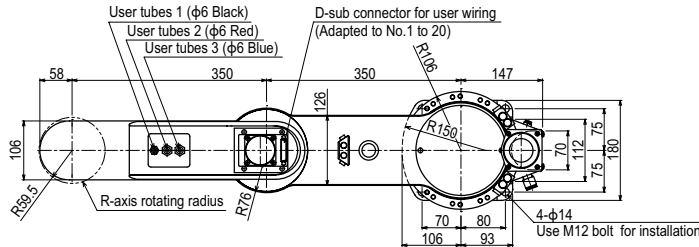
## Controller

Controller	Power capacity (VA)	Operation method
RCX340	2000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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

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## YK700XC



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



# YK800XC

Clean type: Large type

- Arm length 800mm
- Maximum payload 20kg



## Ordering method

<b>YK800XC</b>			<b>RCX340-4</b>							
<b>Model</b>	<b>Z axis stroke</b>	<b>Cable length</b>	<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>
	200: 200mm 400: 400mm	3L: 3.5m 5L: 5m 10L: 10m								

Specify various controller setting items. RCX340 ▶ **P.566**

## Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		+/-120	+/-145	-	+/-180
AC servo motor output (W)		800	400	400	200
Repeatability <sup>Note 1</sup> (XYZ: mm) (R: °)		+/-0.02		+/-0.01	+/-0.005
Maximum speed (XYZ: m/sec) (R: °/sec)		7.3		1.7	600
Maximum payload (kg)		20			
Standard cycle time: with 2kg payload (sec)		0.57			
R-axis tolerable moment of inertia <sup>Note 2</sup> (kgm <sup>2</sup> )		0.32			
User wiring (sq x wires)		0.2 x 20			
User tubing (Outer diameter)		φ6 x 3			
Travel limit		1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
Robot cable length (m)		Standard: 3.5 Option: 5, 10			
Weight (kg)		58			
Degree of cleanliness		CLASS 10 <sup>Note 3</sup>			
Intake air (Nl/min)		60 <sup>Note 4</sup>			

- Note 1. This is the value at a constant ambient temperature. (X,Y axes)  
 Note 2. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.  
 Note 3. Per 1cf (0.1μm base), when suction blower is used.  
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

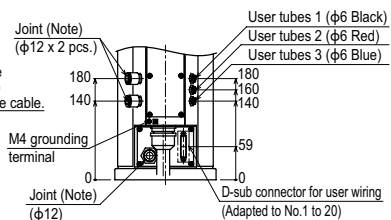
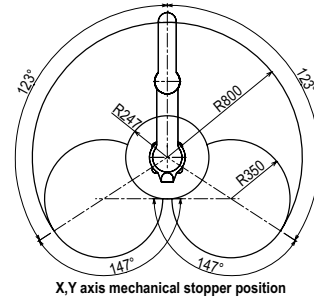
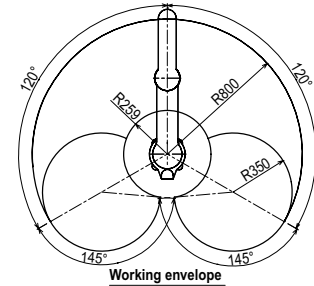
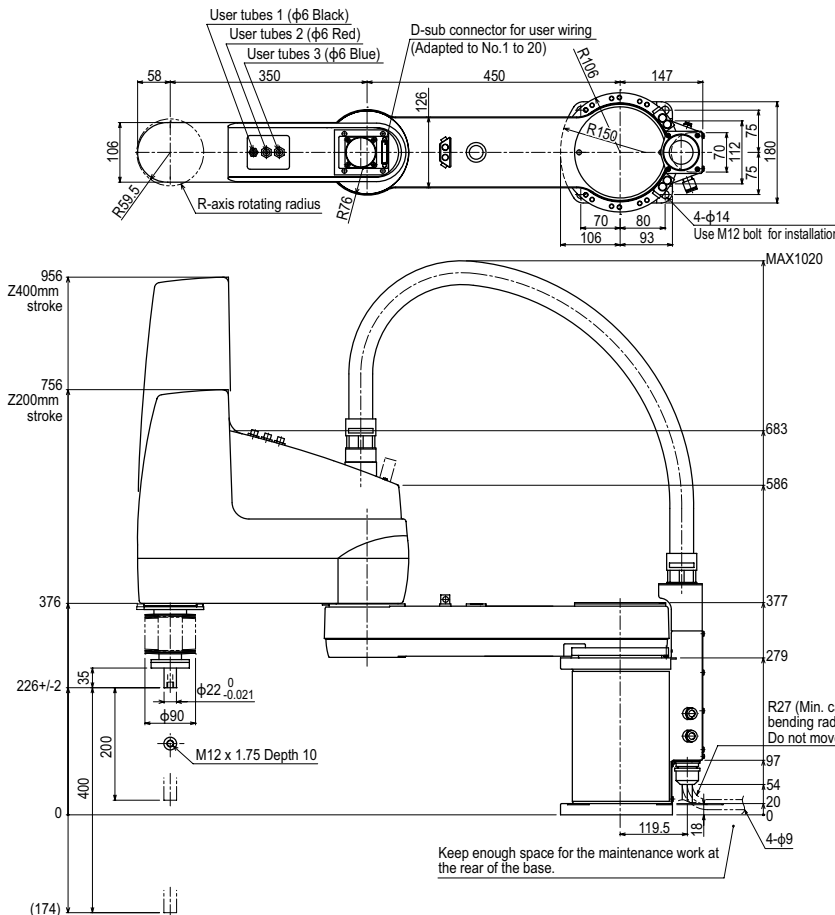
## Controller

Controller	Power capacity (VA)	Operation method
RCX340	2000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)  
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## YK800XC



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

Articulated robots  
YA  
Linear conveyor modules  
LCM100  
Motor-assisted axis actuator  
Robonity  
Compact single-axis robots  
TRANSEVO  
Single-axis robots  
FLIP-X  
Linear motor single-axis robots  
PHASER  
Cartesian robots  
XY-X  
SCARA robots  
YK-X  
Pick & place robots  
YP-X  
CLEAN  
CONTROLLER INFORMATION  
Single-axis  
Cartesian  
SCARA

