

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: ISO CLASS 3 *ISO14644-1
- 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^{Note}. Additionally, the bellows installed on the Z-axis use material with high durability to ensure the durability performance.

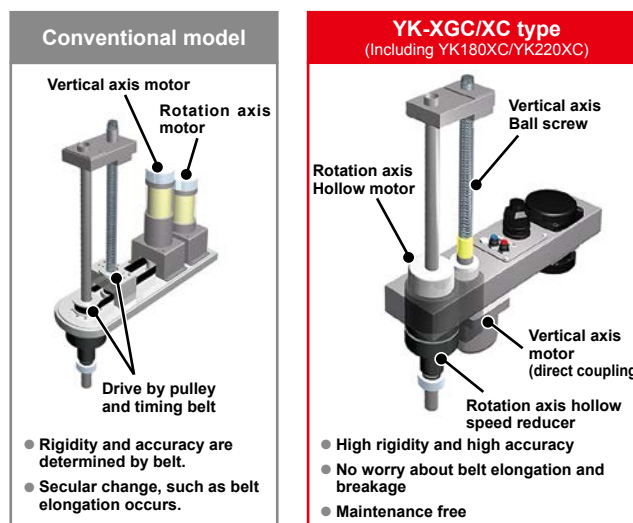
Note. Except for YK500XC to YK1000XC

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
Extra small type	YK180XC	180	1.0	0.42	○
	YK220XC	220		0.45	○
Small type	YK250XGC	250	4.0	0.50	○
	YK350XGC	350		0.52	○
	YK400XGC	400		0.50	○
Medium type	YK500XC	500	10.0	0.53	—
	YK500XGLC	500	4.0	0.66	○
	YK600XC	600	10.0	0.56	—
	YK600XGLC	600	4.0	0.71	○
Large type	YK700XC	700	20.0	0.57	—
	YK800XC	800			—
	YK1000XC	1000		0.60	—

Clean single-axis robot / Clean motor-less single-axis actuator

Robonity series (Advanced model)

Clean room specifications of the single-axis robot/motor-less single-axis actuator "Robonity series". The slider type advanced models have clean room specifications as standard. Our wide lineup of products can be used for various applications such as production processes for food, medical products, and cosmetics.

- Stroke: 50 to 1450 mm
- Suction amount: 30 to 115 Nℓ/min
- Cleanliness degree: ISO CLASS 3 *ISO14644-1
- Maximum payload: 160kg (when installed horizontally)



POINT

Careful design

1. Dust-proof stainless steel sheet: Prevents grease scattering and entry of foreign objects from outside.
2. Roller specifications of slider section: Prevents dust generation due to friction.
3. Suction port: Prevents dust generation by suction and entry of foreign objects by purging.

Stainless steel sheet as standard

Slider section:
Roller specification that does not easily generate wear particles.

Suction port as standard

Motor: IP67

■ Supported only by installing the suction air joint



Model Model A: Single-axis robot Model L: Motor-less single-axis actuator	Size (mm) ^{Note 1}	Lead (mm)	Maximum payload (kg)		Maximum speed (mm/sec.)	Stroke (mm)
			Horizontal	Vertical		
AGXS05/LGXS05	W48×H65	20	5	2	1333	50 to 800
		10	8	4	666	
		5	13	8	333	
AGXS05L/LGXS05L	W48×H65	20	12	3	1333	50 to 800
		10	24	6	666	
		5	32	12	333	
AGXS07/LGXS07	W70×H76.5	30	10	2	1800	50 to 1100
		20	25	4	1200	
		10	45	8	600	
		5	85	16	300	
AGXS10/LGXS10	W100×H99.5	30	25	4	1800	100 to 1250
		20	40	8	1200	
		10	80	20	600	
		5	100	30	300	
AGXS12/LGXS12	W125×H101	30	35	8	1800	100 to 1250
		20	50	15	1200	
		10	95	25	600	
		5	115	45	300	
AGXS12/LGXS12	W125×H101	30	35	8	1800	100 to 1250
		20	50	15	1200	
		10	95	25	600	
		5	115	45	300	
AGXS16/LGXS16	W160×H130	40	45	12	2400	100 to 1450
		20	95	28	1200	
		10	130	55	600	
AGXS20/LGXS20	W200×H140	40	65	15	2400	100 to 1450
		20	130	35	1200	
		10	160	65	600	

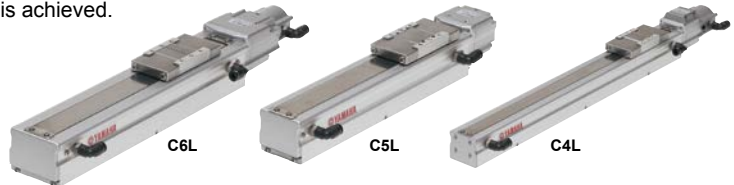
Note 1. The size shows approximate maximum cross sectional size.

Clean single-axis robots

FLIP-XC type

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.

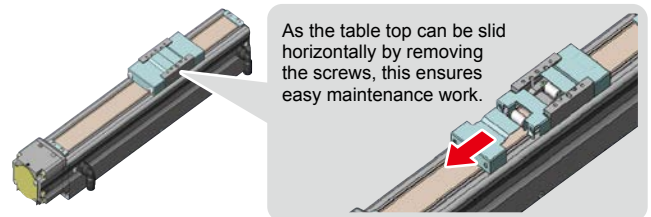
- Stroke: 50 to 2050 mm
- Suction amount: 15 to 90 Nℓ/min.
- Cleanliness degree: ISO CLASS 3 *ISO14644-1
- Maximum payload: 120 kg (When installed horizontally)



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) ^{Note 1}	Lead (mm)	Maximum payload (kg)		Maximum speed (mm/sec.)	Stroke (mm)
			Horizontal	Vertical		
C4L C4LH	W45 × H55	12	4.5	1.2	720	50 to 400
		6	6	2.4	360	
		2	6	7.2	120	
C5L C5LH	W55 × H65	20	3	-	1000	50 to 800
		12	5	1.2	800	
		6	9	2.4	400	
C6L	W65 × H65	20	10	-	1000	50 to 800
		12	12	4	800	
		6	30	8	400	
C8	W80 × H75	20	12	-	1000	150 to 800
		12	20	4	720	
		6	40	8	360	
C8L	W80 × H75	20	20	4	1000	150 to 1050
		10	40	8	600	
		5	50	16	300	
C8LH	W80 × H75	20	30	-	1000	150 to 1050
		10	60	-	600	
		5	80	-	300	
C10	W104 × H85	20	20	4	1000	150 to 1050
		10	40	10	500	
		5	60	20	250	
C14	W136 × H96	20	30	4	1000	150 to 1050
		10	55	10	500	
		5	80	20	250	
C14H	W136 × H96	20	40	8	1000	150 to 1050
		10	80	20	500	
		5	100	30	250	
C17	W168 × H114	20	80	15	1000	250 to 1250
		10	120	35	600	
C17L	W168 × H114	50	50	10	1000	1150 to 2050
C20	W202 × H117	20	120	25	1000	250 to 1250
		10	-	45	500	

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

Clean single-axis robots

SSC type (TRANSERVO)

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: ISO CLASS 3 *ISO14644-1
- Maximum payload: 12 kg (When installed horizontally)



Model	Size (mm) ^{Note 1}	Lead (mm)	Maximum payload (kg)		Maximum speed (mm/sec.)	Stroke (mm)
			Horizontal	Vertical		
SSC04	W49 × H59	12	2	1	600	50 to 400
		6	4	2	300	
		2	6	4	100	
SSC05	W55 × H56	20	4	-	1000	50 to 800
		12	6	1	600	
		6	10	2	300	
SSC05H	W55 × H56	20	6	-	1000	50 to 800
		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

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: ISO CLASS 3 *ISO14644-1
- 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)
2 axes	SXYxC	X	150 to 1050mm	1000	20
		Y	150 to 650mm	1000	
3 axes	SXYxC (ZSC12)	X	150 to 1050mm	1000	3
		Y	150 to 650mm	1000	
		Z	150mm	1000	
	SXYxC (ZSC6)	X	150 to 1050mm	1000	5
		Y	150 to 650mm	1000	
		Z	150mm	500	
4 axes	SXYxC (ZRSC12)	X	150 to 1050mm	1000	3
		Y	150 to 650mm	1000	
		Z	150mm	1000	
		R	360°	1020°/sec	
	SXYxC (ZRSC6)	X	150 to 1050mm	1000	5
		Y	150 to 650mm	1000	
		Z	150mm	500	
		R	360°	1020°/sec	



CLEAN ROBOTS

CLEAN

TYPE

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YK800XC	559
YK1000XC	560

CLEAN ROBOTS SPECIFICATION SHEET

Clean single-axis robots

●TRANSERVO

- Degree of cleanliness Equivalent to ISO CLASS 3 (ISO14644-1)
- 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.517
	6	4	2	300																
	2	6	4	100																
SSC05	20	4	—	1000												933	833	733	633	P.518
	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.519
		8	—	600												560	500	440	380	
		—	2	500														440	380	
	12	—	—	300												280	250	220	190	
		—	—	250														220	190	
		—	4																	

●FLIP-XC

- Degree of cleanliness Equivalent to ISO CLASS 3 (ISO14644-1)
- 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
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
			10	40	8	600														510	450	390	360
			5	50	16	300														255	225	195	180
C8LH	100	+/-0.01	20	30	—	1000														900	800	700	650
			10	60	—	600														510	450	390	360
			5	80	—	300														255	225	195	180
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																	
			10	120	35	500																	
C17L	600	+/-0.02	50	50	10																		
C20	600	+/-0.01	20	120	25	1000																	
			10	—	45	500																	

																							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 : P.520 C4LH : P.521
																							C5L : P.522 C5LH : P.523
																							P.524
																							P.525
	550	500																					P.526
	270	240																					
	135	120																					
	500	450																					
	240	210																					P.527
	120	105																					
	600	500																					
	300	250																					P.528
	150	125																					
	600	500																					
	300	250																					P.529
	150	125																					
	600	500																					
	300	250																					P.530
	150	125																					
	800	700		600	500																		
	400	350		300	250																		P.531
				1000		1000		1000		1000		1000		1000		1000		900		800		800	P.532
	800	700		600	500																		P.533
	400	350		300	250																		

Clean cartesian robots

● XY-XC

- Degree of cleanliness Equivalent to ISO CLASS 3 (ISO14644-1)
- Intake air 60 to 90Nℓ/min
- Aperture designed to minimal dimensions by use of stainless steel sheet
- Installed clean robot dedicated cable duct



Note : User cable D-Sub 25 pin connector
: 24 conductors, 0.3 sq
(No. 1 through 24 are already
connected and No.25 is for grounding)
Note : User tube three φ6 air tubes

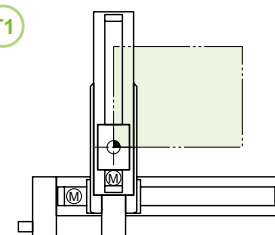
Type	Model	Axis	Moving range	Maximum speed (mm/sec)	Maximum payload (kg)	Detailed info page
2 axes	SXYXC	X	150 to 1050mm	1000	20	P.534
		Y	150 to 650mm	1000		
3 axes	SXYXC (ZSC12)	X	150 to 1050mm	1000	3	P.536
		Y	150 to 650mm	1000		
		Z	150mm	1000		
	SXYXC (ZSC6)	X	150 to 1050mm	1000	5	P.536
		Y	150 to 650mm	1000		
		Z	150mm	500		
4 axes	SXYXC (ZRSC12)	X	150 to 1050mm	1000	3	P.538
		Y	150 to 650mm	1000		
		Z	150mm	1000		
		R	360°	1020°/sec		
	SXYXC (ZRSC6)	X	150 to 1050mm	1000	5	P.538
		Y	150 to 650mm	1000		
		Z	150mm	500		
		R	360°	1020°/sec		

Arm variations

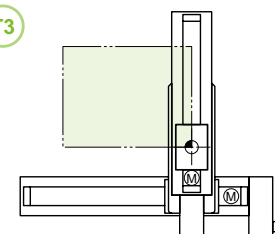


Special model for clean rooms with moving Y-axis carriage installed upward.

T1



T3



Clean SCARA robots

● YK-XC/YK-XGC/YK-XGLC/YK-XEC

- Degree of cleanliness YK-XC/YK-XGC/YK-XGLC ...ISO CLASS 3 (ISO14644-1)
YK-XECISO CLASS 4 (ISO14644-1)
- 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 ²)	Detailed info page
		120	150	180	220	250	300	350	400	500	600	700	800	900	1000				
Extra small type	YK180XC	3.3m/s														0.42	1.0	0.01	P.540
	YK220XC	3.4m/s														0.45	1.0	0.01	P.541
Small type	YK250XGC	4.5m/s														0.50	4.0	0.05	P.542
	YK350XGC	5.6m/s														0.52	4.0	0.05	P.544
	YK400XGC	6.1m/s														0.50	4.0	0.05	P.546
	YK400XEC-4	6.0m/s														0.45	4.0	0.05	P.548
	YK500XGLC	5.1m/s														0.66	4.0	0.05	P.549
Medium type	YK500XC	4.9m/s														0.53	10.0	0.12	P.551
	YK510XEC-10	7.8m/s														0.42	10.0	0.42	P.552
	YK600XGLC	4.9m/s														0.71	4.0	0.05	P.553
	YK600XC	5.6m/s														0.56	10.0	0.12	P.555
	YK610XEC-10	8.6m/s														0.44	10.0	0.30	P.556
	YK700XC	6.7m/s														0.57	20.0	0.32	P.557
Large type	YK710XEC-10	9.5m/s														0.49	10.0	0.30	P.558
	YK800XC	7.3m/s														0.57	20.0	0.32	P.559
	YK1000XC	8.0m/s														0.60	20.0	0.32	P.560

Ordering method

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

S2	I/O
Robot positioner S2: TS-S2	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board
SH	Battery
Robot positioner SH: TS-SH	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board
SD	I/O cable
Robot driver SD: TS-SD	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.600 for DIN rail mounting bracket.

Note 4. Select this selection when using the gateway function.

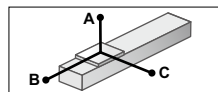
Basic specifications

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

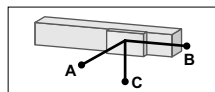
Note 1. Positioning repeatability in one direction.

Note 2. Per 1cf (0.1µm base), when suction blower is used.

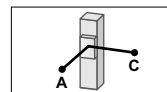
Allowable overhang



Horizontal installation (Unit: mm)			
	A	B	C
Lead 12	1kg 807	218	292
Lead 6	2kg 667	107	152
Lead 2	2kg 687	116	169
Lead 6	3kg 556	76	112
Lead 2	4kg 567	56	84
Lead 2	4kg 869	61	92
Lead 2	6kg 863	40	60



Wall installation (Unit: mm)			
	A	B	C
Lead 12	1kg 274	204	776
Lead 6	2kg 133	93	611
Lead 2	2kg 149	102	656
Lead 6	3kg 92	62	516
Lead 2	4kg 63	43	507
Lead 2	4kg 72	48	829
Lead 2	6kg 39	29	789



Vertical installation (Unit: mm)		
	A	C
Lead 12	0.5kg	407
	1kg	204
Lead 6	1kg	223
	2kg	107
Lead 2	2kg	118
	4kg	53

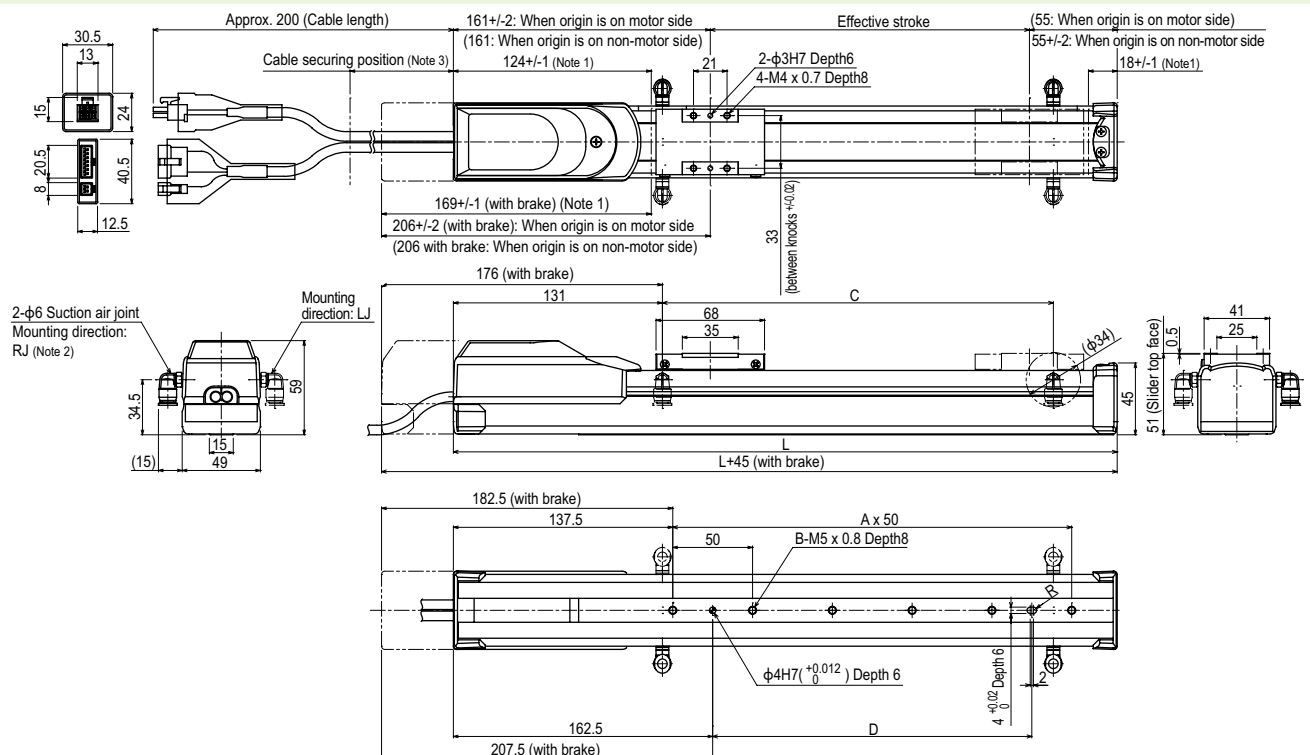
Static loading moment

(Unit: N·m)		
MY	MP	MR
16	19	17

Controller

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

SSC04



Effective stroke	50	100	150	200	250	300	350	400
L	266	316	366	416	466	516	566	616
A	2	3	4	5	6	7	8	9
B	3	4	5	6	7	8	9	10
C	50	100	150	200	250	300	350	400
Weight (kg)	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.

SSC05

Slider type



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

Ordering method

Model	Lead	Type	Brake	Direction of air coupler installation	Origin position	Stroke	Cable length	S2	I/O	SH	Battery	SD	I/O cable
SSC05	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	S2: TS-S2	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	SH: TS-SH	B: With battery (Absolute) N: None (Incremental)	SD: TS-SD	1: 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.600 for DIN rail mounting bracket.

Note 5. Select this selection when using the gateway function.

Basic specifications

Motor	42 □ Step motor
Repeatability (mm)	+/-0.02
Deceleration mechanism	Ball screw φ12
Maximum motor torque (N·m)	0.27
Ball screw lead (mm)	20 12 6
Maximum speed (mm/sec)	1000 600 300
Maximum payload (kg)	Horizontal 4 6 10 Vertical 1 2
Max. pressing force (N)	27 45 90
Stroke (mm)	50 to 800 (50mm pitch)
Overall length (mm)	Horizontal Stroke+230 Vertical Stroke+270
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 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	B	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			

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).

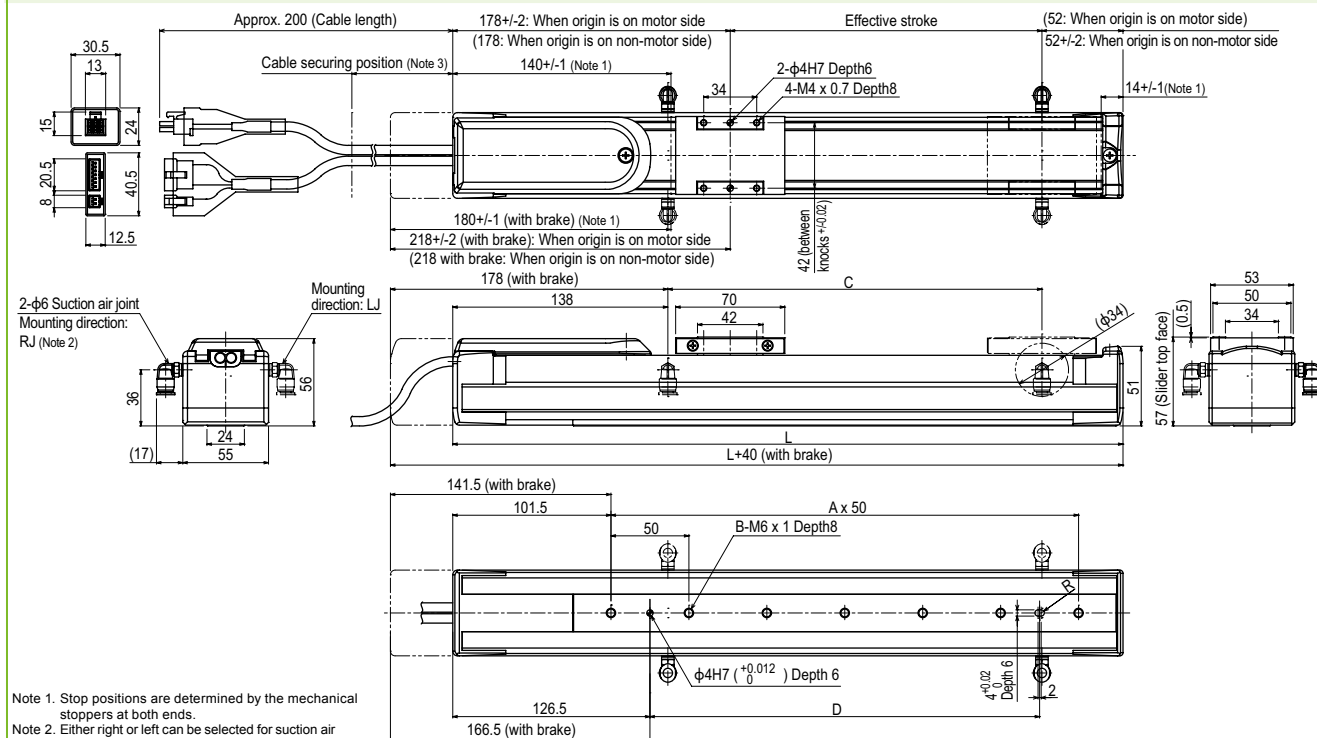
Static loading moment

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	Pulse train control
TS-SD	

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 12 600	Lead 6 300													

SSC05H

Slider type

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

Ordering method

Model	Lead	Type	Brake	Direction of air coupler installation	Origin position	Stroke	Cable length
SSC05H	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

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.600 for DIN rail mounting bracket.
 Note 5. Select this selection when using the gateway function.

Basic specifications

Motor	42 □ Step motor
Repeatability (mm)	+/- 0.02
Deceleration mechanism	Ball screw φ12
Maximum motor torque (N·m)	0.47
Ball screw lead (mm)	20 12 6
Maximum speed (mm/sec)	Horizontal 1000 600 300 Vertical - 500 250
Maximum payload (kg)	Horizontal 6 8 12 Vertical - 2 4
Max. pressing force (N)	36 60 120
Stroke (mm)	50 to 800 (50mm pitch)
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 (0.1μm base), when suction blower is used.

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

Allowable overhang

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

Static loading moment

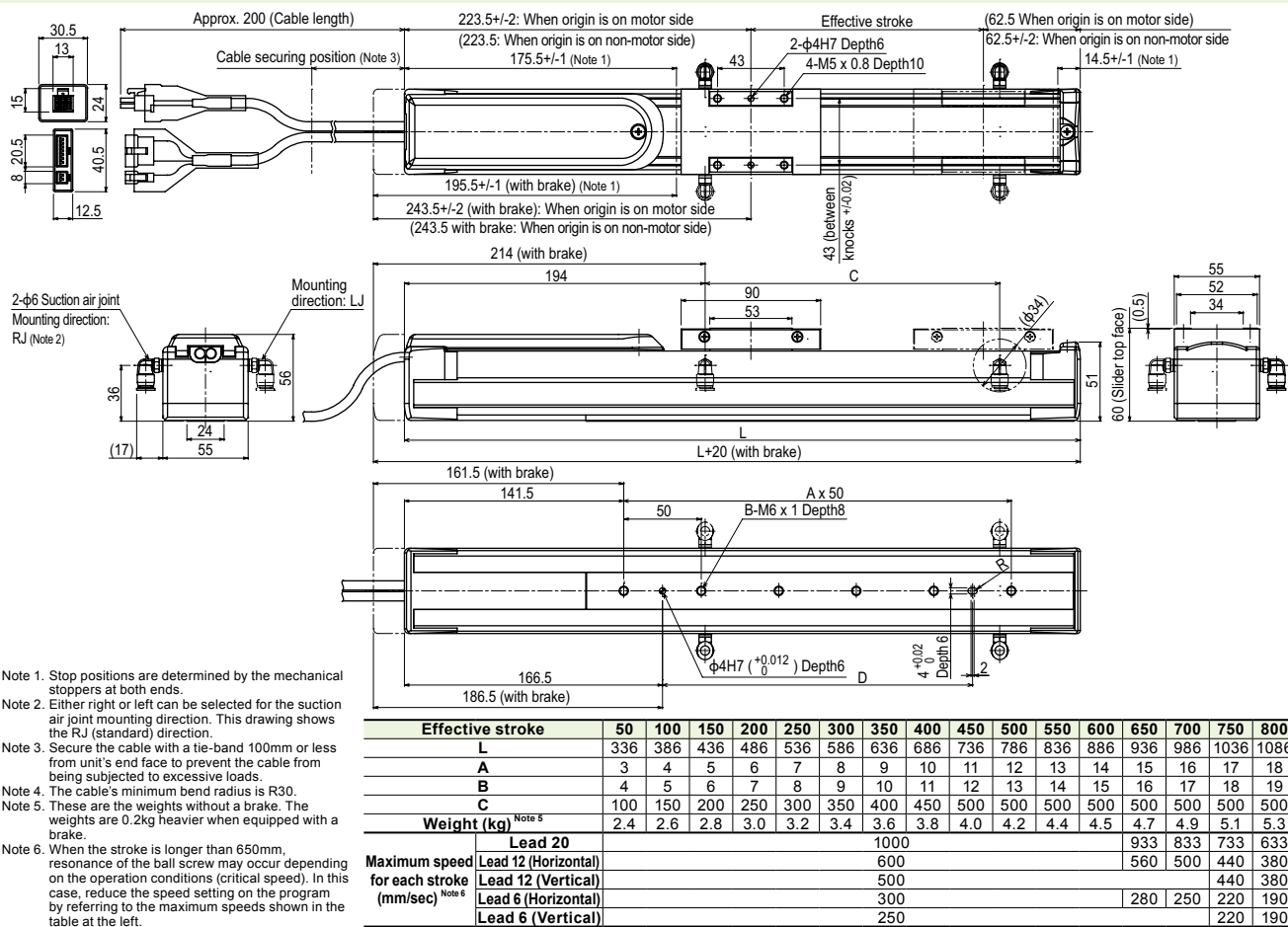
MY	MP	MR
32	38	34

Controller

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

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



Controller

TS-S2 ▶ 592 TS-SH ▶ 592 TS-SD ▶ 602

C4L

● Origin on the non-motor side is selectable



Ordering method

C4L						ERCD	
Model	Lead designation	Brake	Direction of air coupler installation	Origin position change	Stroke	Cable length ^{Note 1}	I/O connector specification
	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.692 for details on robot cable.

Basic specifications

AC servo motor output (W)	30		
Repeatability ^{Note 1} (mm)	±/-.02		
Deceleration mechanism	Ball screw φ8		
Ball screw lead (mm)	12	6	2
Maximum speed (mm/sec)	720	360	120
Maximum payload (kg)	Horizontal	4.5	6
	Vertical	1.2	2.4
Rated thrust (N)	32	64	153
Stroke (mm)	50 to 400 (50mm pitch)		
Overall length (mm)	Horizontal	Stroke+205	
	Vertical	Stroke+243	
Maximum outside dimension of body cross-section (mm)	W45×H55		
Cable length (m)	Standard: 3.5 / Option: 1.5, 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. When 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)

	A	B	C
Lead 12	2kg 429	87	179
4.5kg	219	32	74
3kg	511	58	135
6kg	336	26	62
Lead 2	3kg 1571	58	142
6kg	751	27	66

Wall installation (Unit: mm)

	A	B	C
Lead 12	2kg 145	52	368
4.5kg	46	0	139
3kg	103	22	370
6kg	27	0	185
Lead 2	3kg 109	23	1150
6kg	27	0	420

Vertical installation (Unit: mm)

	A	C
Lead 12	1.2kg 121	122
Lead 6	2.4kg 52	54
Lead 2	3kg 37	39
7.2kg	0	0

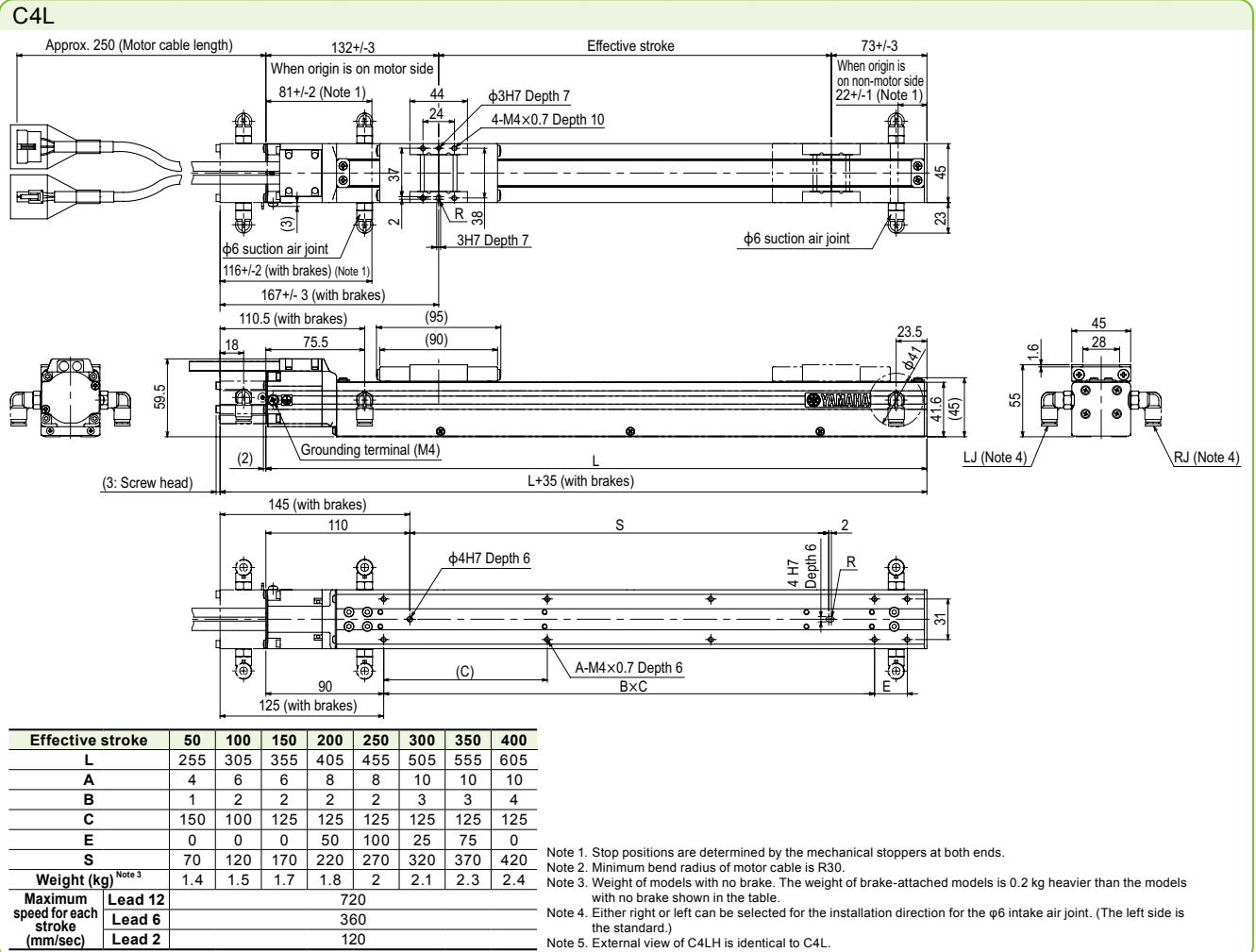
Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.
Note. Service life is calculated for 300mm stroke models.

Static loading moment

(Unit: N·m)		
MY	MP	MR
15	19	18

Controller

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



- Origin on the non-motor side is selectable



Ordering method

C4LH

C4LH						
Model	Lead designation	Brake	Direction of air coupler installation	Origin position change	Stroke	Cable length <small>Note 1</small>
	12: 12mm 6: 6mm 2: 2mm	No entry: With no brake BK: With brake	L.J: Left (Standard) R.J: Right	None: Standard Z: Non-motor side	50 to 400 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)

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

Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable.

See P.692 for details on robot cable.

Note 2. See P.600 for DIN rail mounting bracket.

Note 3. Select this selection when using the gateway function.

Basic specifications

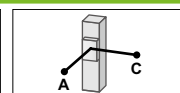
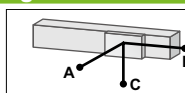
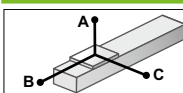
AC servo motor output (W)		30		
Repeatability ^{Note 1} (mm)		+/- 0.02		
Deceleration mechanism		Ball screw φ8		
Ball screw lead (mm)		12	6	2
Maximum speed (mm/sec)		720	360	120
Maximum payload (kg)	Horizontal	4.5	6	6
	Vertical	1.2	2.4	7.2
Rated thrust (N)		32	64	153
Stroke (mm)		50 to 400 (50mm pitch)		
Overall length (mm)	Horizontal	Stroke+205		
	Vertical	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. When suction blower is used.

Note 3. The necessary intake amount varies depending on the use conditions and environment.

Allowable overhang Note

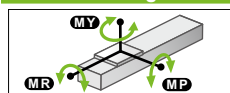


Horizontal installation (Unit: mm)					Wall installation (Unit: mm)					Vertical installation (Unit: mm)			
	A	B	C			A	B	C		A	C		
Lead 2/Lead 6/Lead 12	2kg	339	90	174	Lead 2/Lead 6/Lead 12	2kg	136	72	295	Lead 2/Lead 6/Lead 12	1.2kg	118	118
	4.5kg	169	37	72		4.5kg	44	20	111		2.4kg	52	54
	3kg	352	58	133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

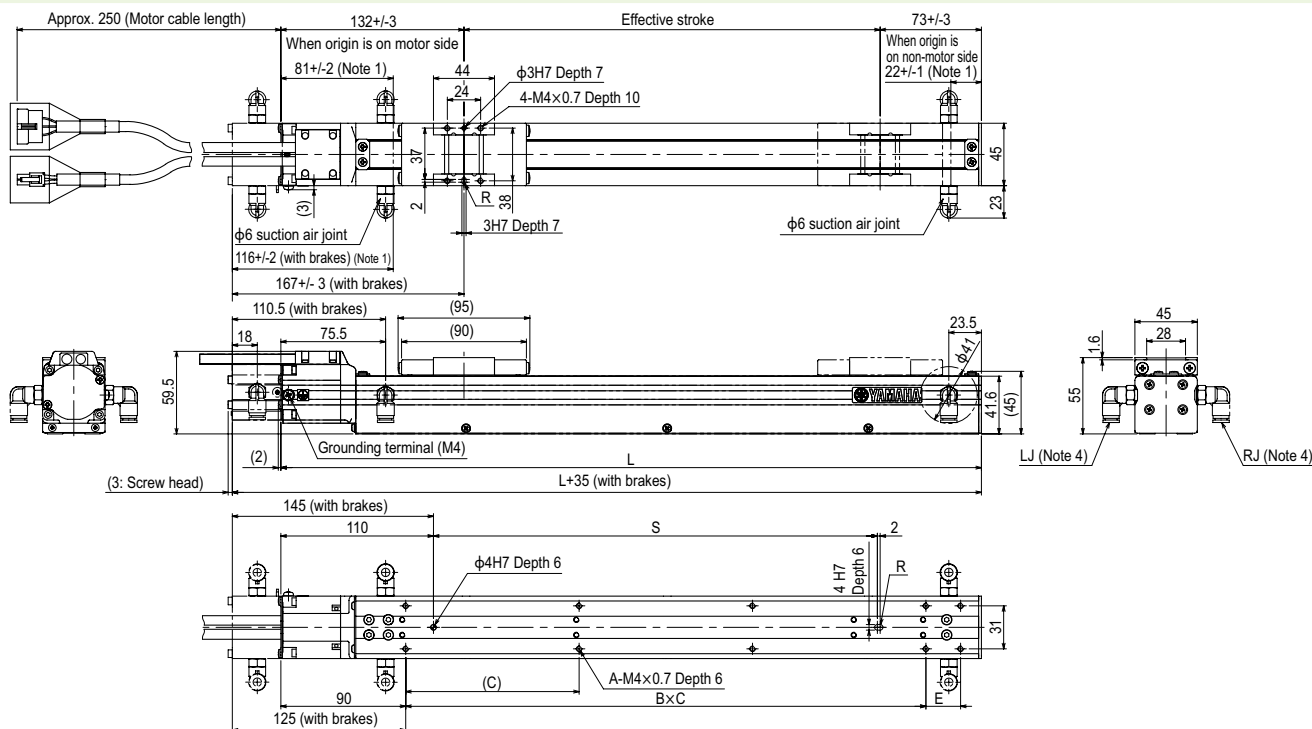


(Unit: N·m)		
MY	MP	MR
15	19	18

Controller

Controller	Operation method
SR1-X05 RCX320 RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105	I/O point trace /
TS-X205	Remote command
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 $\phi 6$ intake air joint. (The left side is the standard.)

Note 5. External view of C4LH is identical to C4L.

Controller

SR1-X ▶ 618	TS-X ▶ 592	RDV-X ▶ 606
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C5L

● High lead: Lead 20

● Origin on the non-motor side is selectable



Ordering method

C5L

Model	Lead designation	Brake ^{Note 1}	Direction of air coupler installation	Origin position change	Stroke	Cable length ^{Note 2}	Controller	I/O connector specification
	20: 20mm 12: 12mm 6: 6mm	No entry: With no brake BK: With brake	L: Left (Standard) R: Right	None: Standard Z: Non-motor side	50 to 800 (50mm pitch)	1K: 1m 3K: 3.5m 5K: 5m 10K: 10m	ERCD	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.692 for details on robot cable.

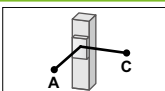
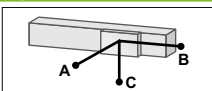
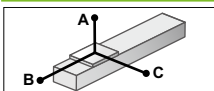
Basic specifications

AC servo motor output (W)	30
Repeatability ^{Note 1} (mm)	+/- 0.02
Deceleration mechanism	Ball screw $\phi 12$
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: 1.5, 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. When 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)

		A	B	C
Lead 20	1kg	1584	324	745
	3kg	699	104	251
	2kg	1166	159	406
Lead 12	5kg	551	59	155
	3kg	1194	104	294
	9kg	624	31	89

Wall installation (Unit: mm)

		A	B	C
Lead 20	1kg	679	303	1505
	3kg	215	87	605
	2kg	364	126	1073
Lead 12	5kg	123	28	438
	3kg	259	72	354
	9kg	50	0	154

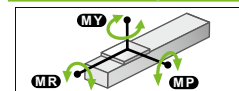
Vertical installation (Unit: mm)

		A	C
Lead 12	1.2kg	246	245
	2.4kg	110	110

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

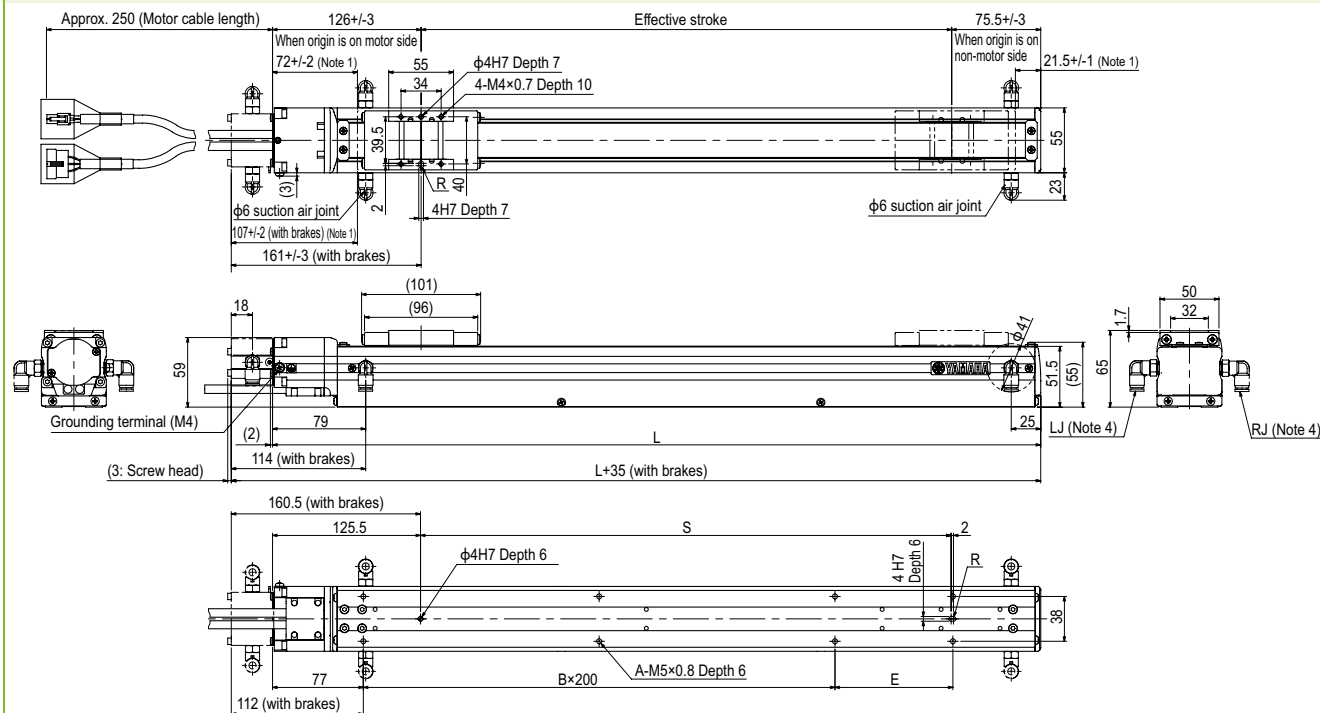


		(Unit: N·m)
MY	MP	MR
30	34	40

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
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 ^{Note 5} (mm/sec)	Lead 20	1000										900				
	Speed setting	-										80%				
	Lead 12	800										640				
	Speed setting	-										80%				
	Lead 6	400										320				
	Speed setting	-										80%				

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.

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



C5LH

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.692 for details on robot cable.

Note 3. See P.600 for DIN rail mounting bracket.

Note 4. Select this selection when using the gateway function.

Note 1. Positioning repeatability in one direction.
 Note 2. When suction blower is used.
 Note 3. The necessary intake amount varies depending on the use conditions and environment.

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.

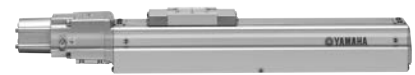
Controller	Operation method
SR1-X05 RCX320 RCX340	Programming / I/O point trace / Remote command Operation using RS-232C communication
TS-X105	I/O point trace /
TS-X205	Remote command
RDV-X205	Pulse train control

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}	Lead 20	1000												900	800	700
	Speed setting	-												90%	80%	70%
	Lead 12	800												640	560	480
	Lead 6	400												320	280	240
	Speed setting	-												80%	70%	60%
														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 The right or left can be selected for the installation direction for the g6 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 C51H is identical to C51

C6L

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



Ordering method

C6L		TSX		SR1-X		RDV-X	
Model	Lead designation 20: 20mm 12: 12mm 6: 6mm	Brake <small>Note 1</small> No entry: With no brake BK: With brake	Direction of air coupler installation L: Left (Standard) R: Right	Origin position change None: Standard Z: Non-motor side	Stroke 50 to 800 (50mm pitch)	Cable length <small>Note 2</small> 3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	Positioner <small>Note 3</small> 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	
						I/O selection NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board <small>Note 4</small>	
						Battery 3: With battery (Absolute) N: None (Incremental)	
						Controller	
						Driver: Power capacity 05: 100W or less	
						Usable for CE No entry: Standard E: CE marking	
						I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	
						Battery 3: With battery (Absolute) N: None (Incremental)	
						Driver	
						Power supply voltage 2: AC200V	
						Driver: Power capacity 05: 100W or less	
						Regenerative unit RBR1	

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.692 for details on robot cable.
Note 3. See P.600 for DIN rail mounting bracket.
Note 4. Select this selection when using the gateway function.

Basic specifications

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

Note 1. Positioning repeatability in one direction.
Note 2. When 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	433	192	295	2kg	300	174	365	1kg	353
6kg	145	59	104	6kg	83	44	105	2kg	163
10kg	110	33	75	10kg	43	18	71	4kg	68
Lead 12	622	125	336	3kg	291	96	317	2kg	169
8kg	271	41	121	8kg	87	13	110	4kg	71
12kg	214	24	76	12kg	41	0	126	8kg	21
Lead 6	692	73	236	5kg	202	45	237		
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.

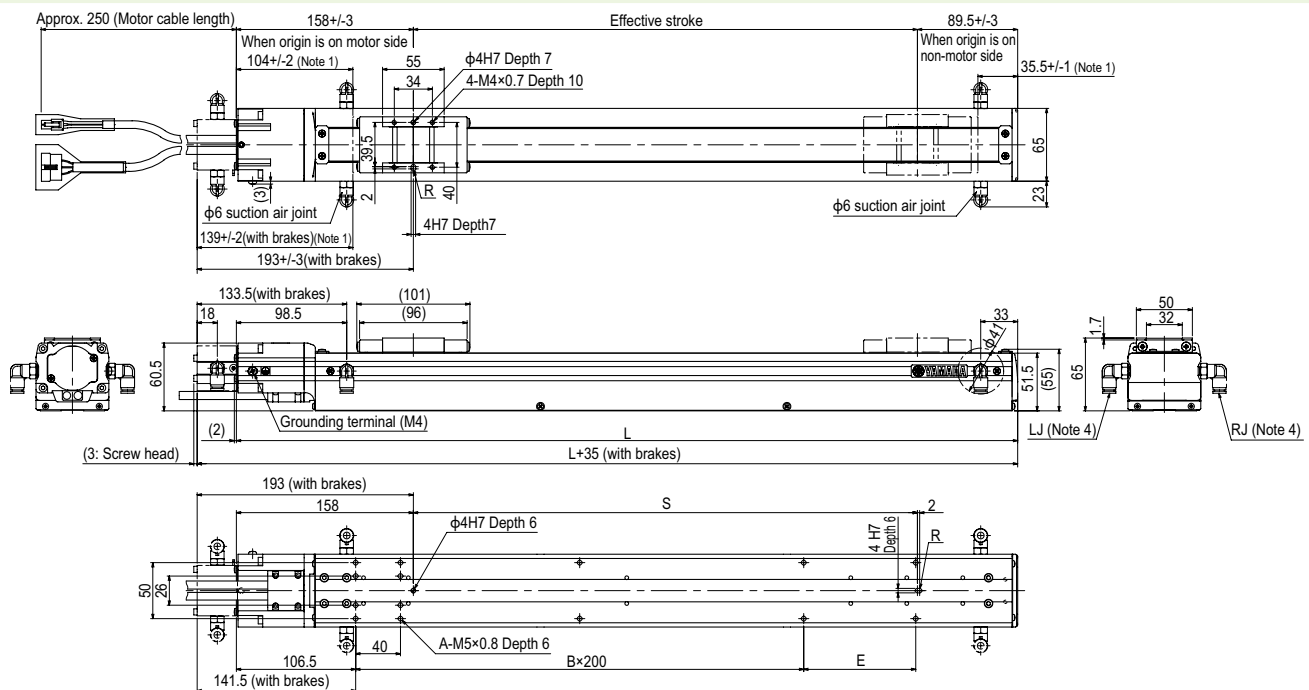
Static loading moment

	MY	MP	MR
	35	40	50

Controller

Controller	Operation method
SR1-X05 RCX320 RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105	I/O point trace / Remote command
TS-X205	
RDV-X05-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)	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																
Lead 20	1000															
Speed setting	-															
Lead 12	800															
Speed setting	-															
Lead 6	400															
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.



Ordering method

Model	Lead	Brake ^{Note 1}	Option	Stroke	Cable length ^{Note 2}
C8	20: 20mm 12: 12mm 6: 6mm	No entry: With no brake BK: With brake	Origin position None: Standard Z: Non-motor side	150 to 800 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)

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.692 for details on robot cable.

Note 3. See P.600 for DIN rail mounting bracket.

Note 4. Select this selection when using the gateway function.

TSX	SR1-X	RDV-X
Positioner ^{Note 3} 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 ^{Note 4}	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)	

Basic specifications

AC servo motor output (W)	100
Repeatability ^{Note 1} (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 ^{Note 3}
Intake air (Nl/min)	30 to 90 ^{Note 4}

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 ^{Note}

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

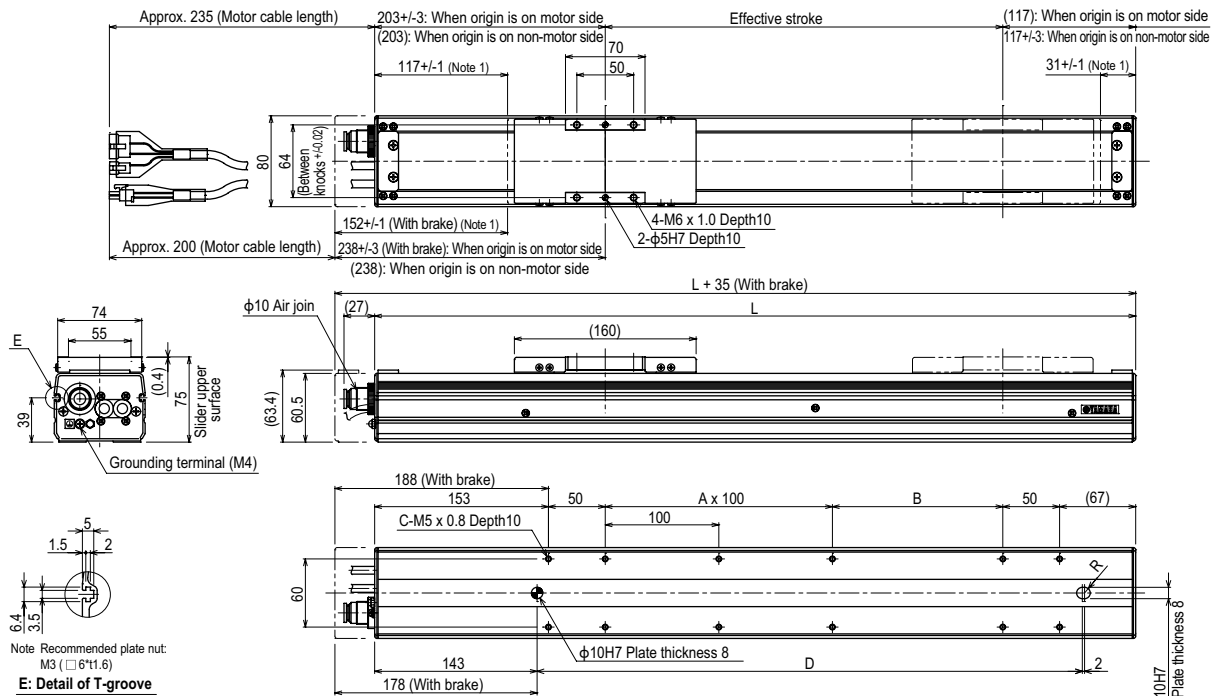
Static loading moment

	MY	MP	MR
(Unit: N·m)	70	95	110

Controller

Controller	Operation method
SR1-X05 RCX320 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

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) ^{Note 3}	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 ^{Note 4} (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	180
Speed setting	-										90%	75%	65%	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.

Ordering method

C8L

Model	Lead	Brake	Option	Stroke	Cable length
	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)

TSX

Positioner	Driver: Power-supply voltage / Power capacity	LCD monitor	I/O selection	Battery
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	B: With battery (Absolute) N: None (Incremental)

SR1-X

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

RDV-X

Driver	Power-supply voltage	Driver: Power capacity	Regenerative unit
2	05: AC200V	05: 100W or less	RBR1

Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.692 for details on robot cable.

Note 2. See P.600 for DIN rail mounting bracket.

Note 3. Select this selection when using the gateway function.

Basic specifications

AC servo motor output (W)	100
Repeatability (mm)	+/-0.01
Deceleration mechanism	Ball screw $\phi 15$
Ball screw lead (mm)	20 10 5
Maximum speed (mm/sec)	1000 600 300
Maximum payload (kg)	Horizontal 20 40 50 Vertical 4 8 16
Rated thrust (N)	84 169 339
Stroke (mm)	150 to 1050 (50mm pitch)
Overall length (mm)	Horizontal Stroke+325 Vertical Stroke+360
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
Intake air (Nl/min)	30 to 90

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

Horizontal installation (Unit: mm)

	A	B	C
Lead 20			
5kg	259	122	179
10kg	149	55	89
15kg	100	33	56
20kg	95	22	41
Lead 10			
10kg	251	61	130
20kg	127	25	55
30kg	90	14	31
40kg	69	8	18
Lead 5			
20kg	256	29	76
30kg	188	16	43
40kg	96	10	28
50kg	33	6	18

Wall installation (Unit: mm)

	A	B	C
Lead 20			
5kg	147	100	220
10kg	53	32	97
15kg	17	10	39
20kg	0	0	0
Lead 10			
10kg	87	41	197
20kg	10	4	37
30kg	0	0	0
40kg	0	0	0
Lead 5			
20kg	24	9	152
30kg	0	0	0
40kg	0	0	0
50kg	0	0	0

Vertical installation (Unit: mm)

	A	C
Lead 20		
2kg	255	260
4kg	111	115
2kg	300	302
4kg	131	133
Lead 10		
6kg	75	77
8kg	47	49
5kg	113	114
10kg	37	38
15kg	12	12
Lead 5		
16kg	9	9

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

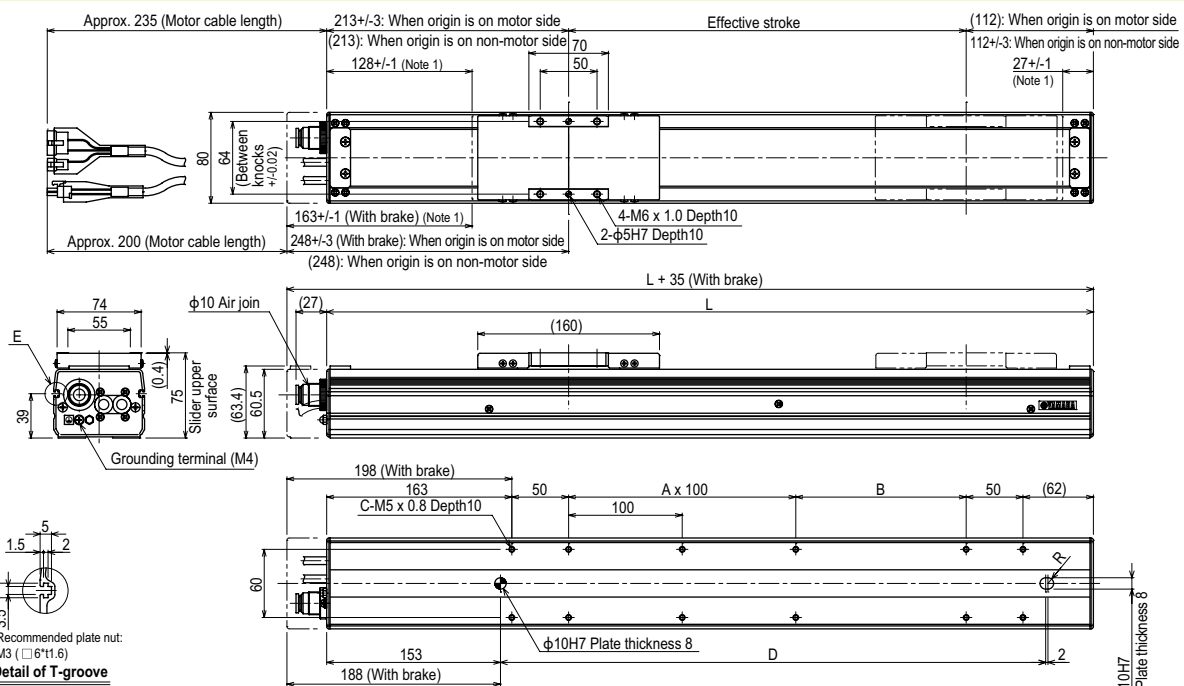
Static loading moment

MY	MP	MR
70	95	110

Controller

Controller	Operation method
SR1-X05 RCX320 RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105	I/O point trace / Remote command
TS-X205	I/O point trace / 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
L	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375
A	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
B	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150
C	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
D	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180
Weight (kg)	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
Maximum speed (mm/sec)																			
Lead 20	1000																		
Speed setting	-																		
Lead 10	600																		
Lead 5	300																		
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. 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.

Ordering method

C8LH	Model	Lead	Option	Stroke	Cable length	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 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 Driver: Power capacity 05: 100W or less
							I/O selection N: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	Battery B: With battery (Absolute) N: None (Incremental)
							I/O selection N: NPN PN: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	Regenerative unit RBR1

Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.692 for details on robot cable.
Note 2. See P.600 for DIN rail mounting bracket.
Note 3. Select this selection when using the gateway function.

Basic specifications

AC servo motor output (W)	100
Repeatability (mm)	+/-0.01
Deceleration mechanism	Ball screw $\phi 15$
Ball screw lead (mm)	20 10 5
Maximum speed (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
Intake air (N ℓ /min)	30 to 90

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

	A	B	C
Horizontal installation (Unit: mm)			
Lead 20	10kg 687	274	200
20kg	401	125	92
30kg	338	76	57
Lead 10	20kg 622	137	111
40kg	472	57	47
60kg	375	30	25
Lead 5	20kg 1087	148	127
40kg	844	63	54
60kg	707	34	29
80kg	594	20	17
Wall installation (Unit: mm)			
Lead 20	10kg 163	225	617
20kg	56	76	302
30kg	20	27	182
Lead 10	20kg 74	90	517
40kg	8	11	196
60kg	-	-	-
Lead 5	20kg 89	104	974
40kg	15	18	505
60kg	-	-	-
80kg	-	-	-

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

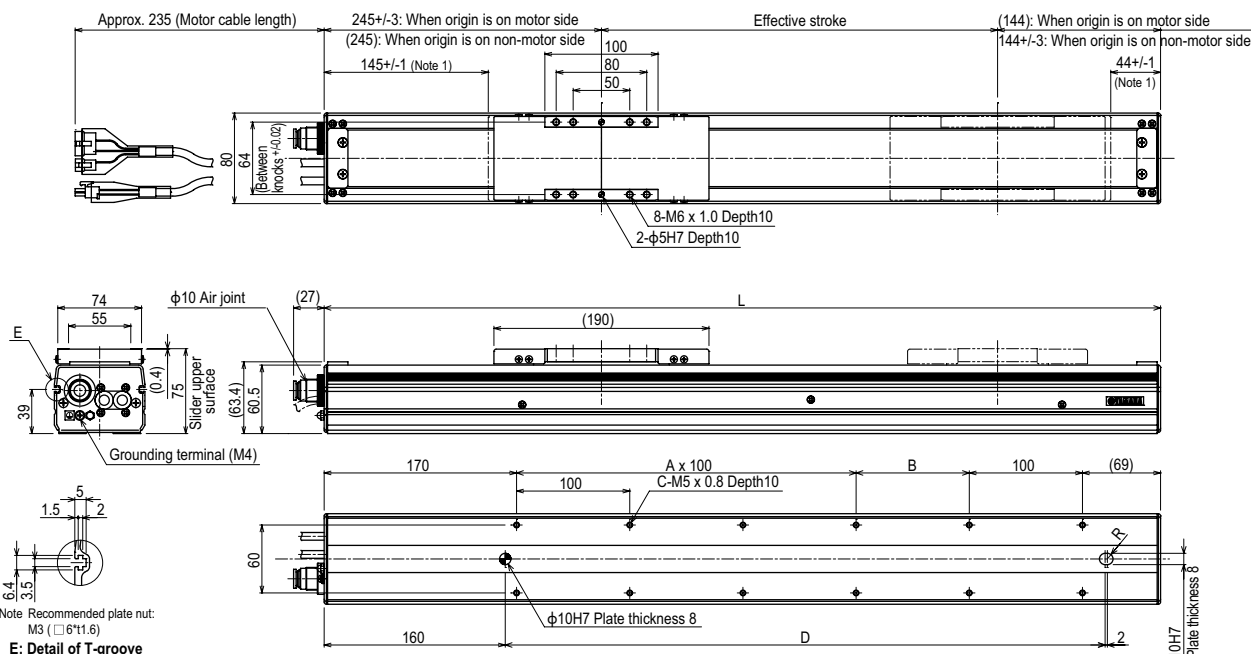
Static loading moment

	MY	MP	MR
(Unit: N·m)	128	163	143

Controller

Controller	Operation method
SR1-X05 RCX320 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-X05-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 (mm/sec)																			
Lead 20	1000																		
Speed setting	-																		
Lead 10	600																		
Speed setting	-																		
Lead 5	300																		
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

C10						TSX					
Model	Lead	Brake	Option	Stroke	Cable length ^{Note 2}	Positioner ^{Note 3}	Driver: Power-supply voltage / Power capacity	Regenerative unit	LCD monitor	I/O selection	Battery
	20: 20mm 10: 10mm 5: 5mm	No entry: With no brake BK: With brake	Origin position change None: Standard Z: Non-motor side ^{Note 1}	150 to 1050 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	TS-X	105: 100V/100W or less 205: 200V/100W or less	No entry: None R: With RGT	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 4}	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.692 for details on robot cable.

Note 3. See P.600 for DIN rail mounting bracket.

Note 4. Select this selection when using the gateway function.

SR1-X		05			
Controller	Driver: Power capacity	Usable for CE	Regenerative unit	I/O selection	Battery
	05: 100W or less	No entry: Standard E: CE marking	No entry: None R: With RG1	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFINET	B: With battery (Absolute) N: None (Incremental)

RDV-X		2		05		RBR1	
Driver	Power-supply voltage	Driver: Power capacity	Regenerative unit				
	2: AC200V	05: 100W or less					

- 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.692 for details on robot cable.
 Note 3. See P.600 for DIN rail mounting bracket.
 Note 4. Select this selection when using the gateway function.

Basic specifications

AC servo motor output (W)	100
Repeatability (mm)	+/-0.01
Deceleration mechanism	Ball screw $\phi 15$
Ball screw lead (mm)	20 10 5
Maximum speed (mm/sec)	1000 500 250
Maximum payload (kg)	20 40 60
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
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

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)			
	A	B	C		A	B	C		A	C	
Lead 20	1875	530	510	Lead 20	496	451	1826	Lead 20	2461	2492	
10kg	1079	247	242	10kg	218	168	1002	2kg	1213	1244	
20kg	628	106	107	20kg	78	27	497	4kg	585	617	
Lead 10	765	156	164	Lead 10	230	170	1036	10kg	627	658	
30kg	425	62	66	30kg	80	29	506	8kg	280	312	
40kg	350	38	42	40kg	30	0	311	10kg	210	242	
Lead 5	960	63	68	Lead 5	234	170	2716	10kg	213	244	
50kg	565	25	28	50kg	82	29	1206	15kg	119	151	
60kg	470	16	17	60kg	31	0	711	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

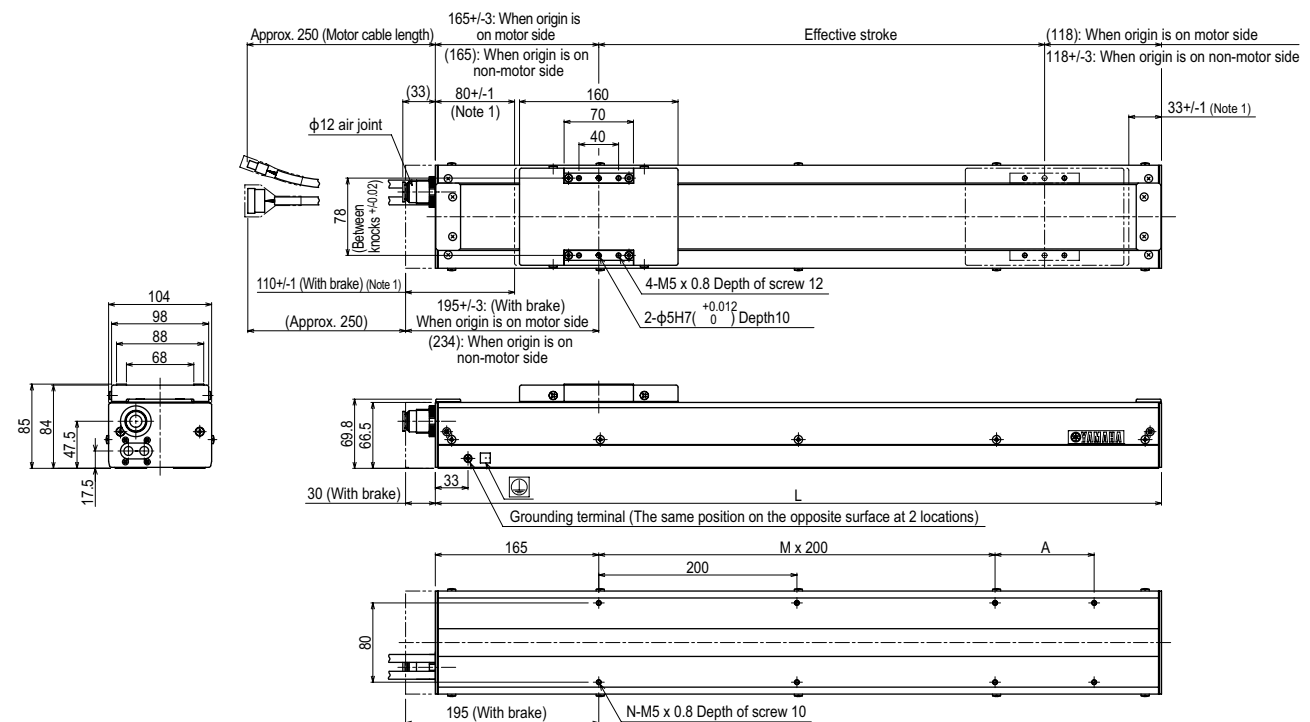
(Unit: N·m)		
MY	MP	MR
119	119	105

Controller

Controller	Operation method
SR1-X05 RCX320 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.

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)	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
Lead 20	1000																		
Lead 10	500																		
Lead 5	250																		
Speed setting	95%																		

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.



Ordering method

C14						TSX					
Model	Lead	Brake	Option	Stroke	Cable length ^{Note 1}	Positioner ^{Note 2}	Driver: Power-supply voltage / Power capacity	Regenerative unit	LCD monitor	I/O selection	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)	ITS-X	105: 100V/100W or less 205: 200V/100W or less	No entry: None R: With RGT	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)
SR1-X						05					
Controller	Driver: Power capacity	Usable for CE	Regenerative unit	I/O selection	Battery						
	05: 100W or less	No entry: Standard E: CE marking	No entry: None R: With RG1	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	B: With battery (Absolute) N: None (Incremental)						
RDV-X						2					
Driver	Power-supply voltage	Driver: Power capacity	Regenerative unit								
	2: AC200V	05: 100W or less									

Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.692 for details on robot cable.

Note 2. See P.600 for DIN rail mounting bracket.

Note 3. Select this selection when using the gateway function.

Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.692 for details on robot cable.
 Note 2. See P.600 for DIN rail mounting bracket.
 Note 3. Select this selection when using the gateway function.

Basic specifications

AC servo motor output (W)	100
Repeatability (mm)	+/-0.01
Deceleration mechanism	Ball screw $\phi 15$
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

Horizontal installation (Unit: mm)

	A	B	C
Lead 20	5kg 2127	1384	968
15kg	1177	459	425
30kg	1247	242	291
20kg	1120	349	353
40kg	857	179	215
55kg	932	138	182
50kg	2017	250	335
60kg	1477	134	192
80kg	1452	106	157

Wall installation (Unit: mm)

	A	B	C
Lead 20	5kg 1047	968	1553
15kg	387	264	748
30kg	206	97	633
20kg	299	180	658
40kg	127	49	363
55kg	79	16	296
50kg	233	103	1033
60kg	75	13	433
80kg	35	0	242

Vertical installation (Unit: mm)

	A	B
Lead 20	1kg 600	600
2kg	1200	1200
4kg	1141	885
4kg	1216	943
8kg	621	482
10kg	503	390
10kg	574	445
15kg	370	287
20kg	268	208

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

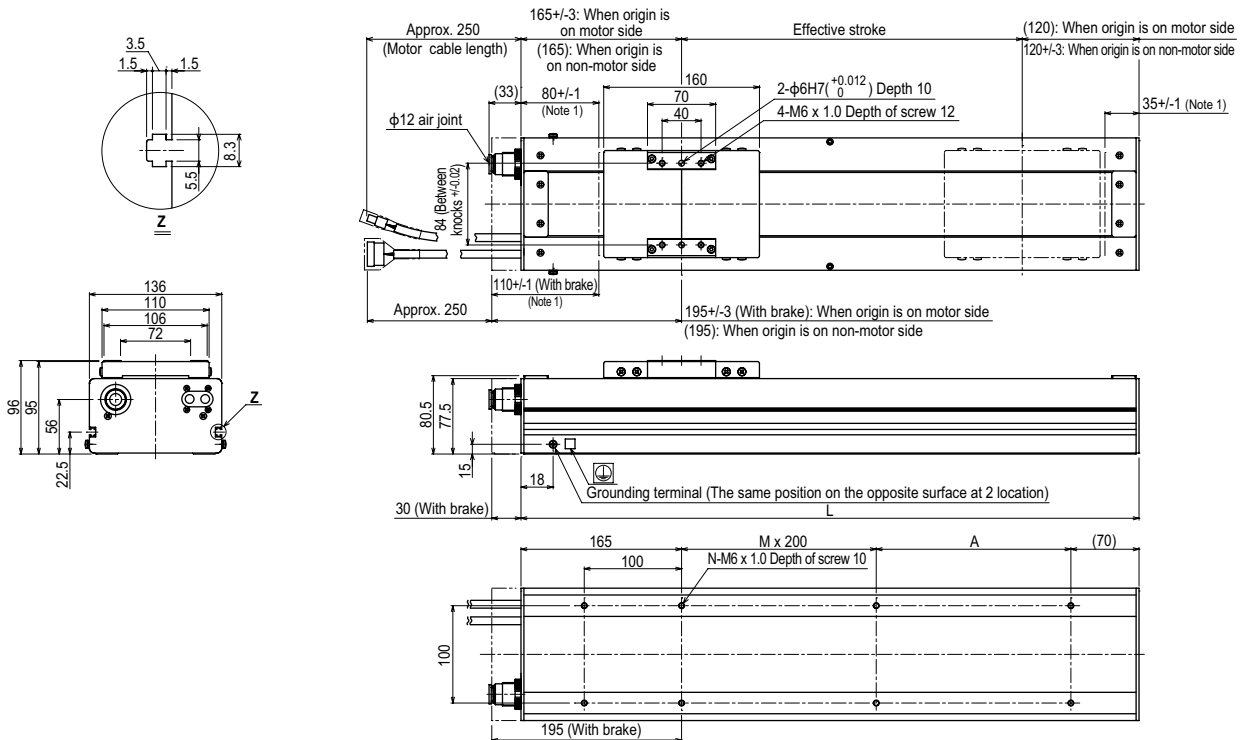
			(Unit: N·m)
MY	MP	MR	
232	233	204	

Controller

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

Note. Regenerative unit is required when the models used vertically 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) ^{Note 3}	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 ^{Note 4} (mm/sec)	Lead 20												950	950	750	750	600	600	500
	Lead 10												475	475	375	375	300	300	250
	Lead 5												237	237	187	187	150	150	125
	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.

C₁₄H

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



Ordering method

C14H					
Model	Lead	Brake	Option	Stroke	Cable length <small>Note 2</small>
	20: 20mm 10: 10mm 5: 5mm	No entry: With no brake BK: With brake	Origin position change None: Standard Z: Non-motor side <small>Note 1</small>	150 to 1050 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)

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.692 for details on robot cable.

Note 3. See P.600 for DIN rail mounting bracket.

Note 4. Select this selection when using the gateway function.

TSX					
Positioner <small>Note 3</small>	Driver: Power-supply voltage / Power capacity	Regenerative unit	LCD monitor	I/O selection	Battery
TS-X	110: 100V/200W 210: 200V/200W	No entry: None R: With RGT	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 <small>Note 4</small>	B: With battery (Absolute) N: None (Incremental)

SR1-X	10				
Controller	Driver: Power capacity	Usable for CE	Regenerative unit	I/O selection	Battery
	10: 200W	No entry: Standard E: CE marking	No entry: None R: With RG1	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	B: With battery (Absolute) N: None (Incremental)

RDV-X	2	10	RBR1
Driver	Power-supply voltage	Driver: Power capacity	Regenerative unit
	P-A/G/P-30V	10: 200W/100W	

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.692 for details on robot cable.

Note 3. See P.600 for DIN rail mounting bracket.

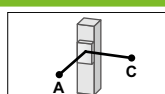
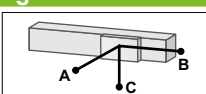
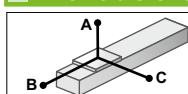
Note 4. Select this selection when using the gateway function.

Basic specifications

AC servo motor output (W)	200		
Repeatability ^{Note 1} (mm)	+/-0.01		
Deceleration mechanism	Ball screw φ15		
Ball screw lead (mm)	20	10	5
Maximum speed ^{Note 2} (mm/sec)	1000	500	250
Maximum payload (kg)	Horizontal	40	80
	Vertical	8	20
Rated thrust (N)		170	341
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 ^{Note 3}		
Intake air (N2/min)	20 to 90 ^{Note 4}		

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, 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.
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

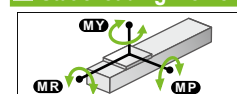
Allowable overhang Note



Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)																	
		A	B	C			A	B	C			A	B	C											
Lead 20	Lead 10	Lead 5	Lead 20	Lead 10	Lead 5	Lead 20	Lead 10	Lead 5	Lead 20	Lead 10	Lead 5	Lead 20	Lead 10	Lead 5											
															10kg	2247	1675	958	10kg	987	1210	1678	4kg	2400	2008
															20kg	1397	855	528	20kg	497	548	958	6kg	1687	1358
															40kg	1037	445	318	40kg	247	217	598	8kg	1287	1033
															30kg	1937	583	478	30kg	402	328	1238	10kg	1347	1088
Lead 20	Lead 10	Lead 5	Lead 20	Lead 10	Lead 5	Lead 20	Lead 10	Lead 5	Lead 20	Lead 10	Lead 5	Lead 20	Lead 10	Lead 5											
															50kg	1637	364	323	50kg	227	152	878	15kg	887	718
															80kg	1717	242	235	80kg	119	74	678	20kg	657	538
															60kg	2443	311	313	60kg	197	108	1308	20kg	747	608
															80kg	2193	242	250	80kg	127	53	1008	25kg	663	484
Lead 20	Lead 10	Lead 5	Lead 20	Lead 10	Lead 5	Lead 20	Lead 10	Lead 5	Lead 20	Lead 10	Lead 5	Lead 20	Lead 10	Lead 5											
															100kg	2000	202	213	100kg	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



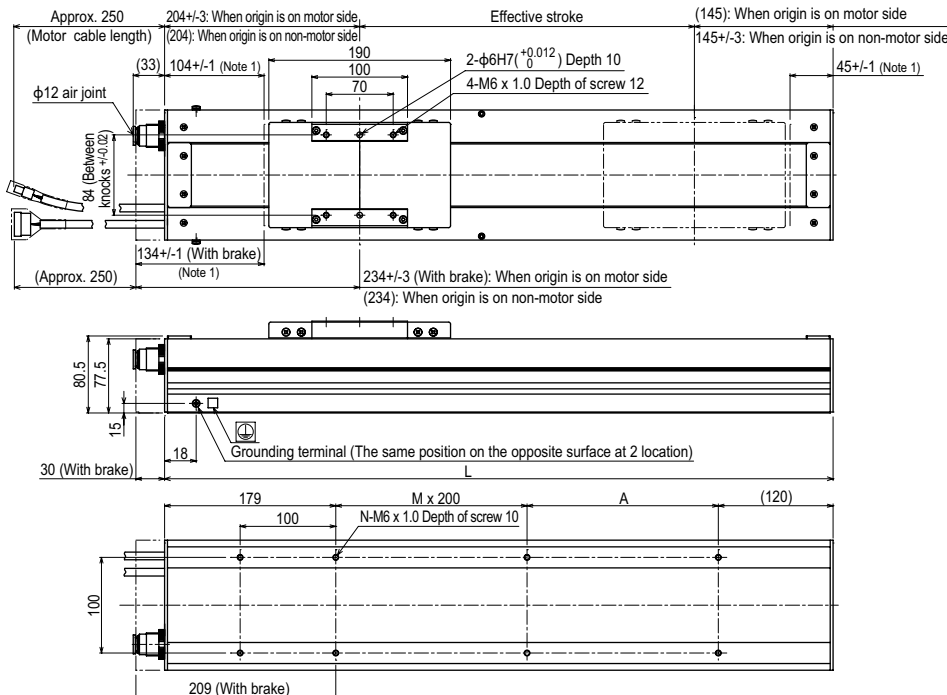
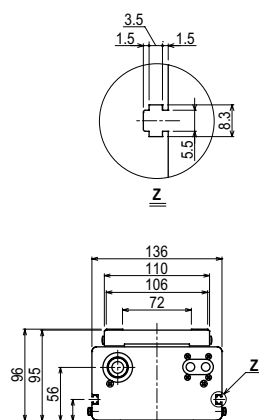
(Unit: N·m)		
MY	MP	MR
293	294	258

Controller

Controller	Operation method
SR1-X10 ^{Note}	Programming /
RCX320	I/O point trace /
RCX340	Remote command /
	Operation using RS-232C communication
TS-X110 ^{Note}	I/O point trace /
TS-X210 ^{Note}	Remote command
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	1399
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											950	950	750	70.30	60.00	60.00	50.00
	Lead 10	500											475	475	375	375	300	300	250
	Lead 5	250											237	237	187	187	150	150	125
	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



Ordering method

[illegible]

Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.692 for details on robot cable.

Note 2. See P.600 for DIN rail mounting bracket.

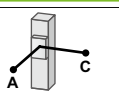
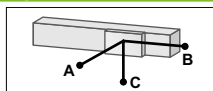
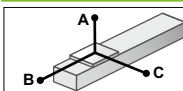
Note 3. Select this selection when using the gateway function.

Basic specifications

AC servo motor output (W)	400	
Repeatability ^{Note 1} (mm)	+/- 0.01	
Deceleration mechanism	Ball screw φ20	
Ball screw lead (mm)	20	10
Maximum speed ^{Note 2} (mm/sec)	1000	600
Maximum payload (kg)	Horizontal	120
	Vertical	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 ^{Note 3}	
Intake air (Nl/min)	30 to 90 ^{Note 4}	

Note 1. Positioning repeatability in one direction.
 Note 2. When the stroke is longer than 950mm, resonance of the ball screw may increase the stroke length 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.
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

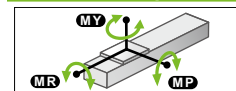
Allowable overhang Note



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

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



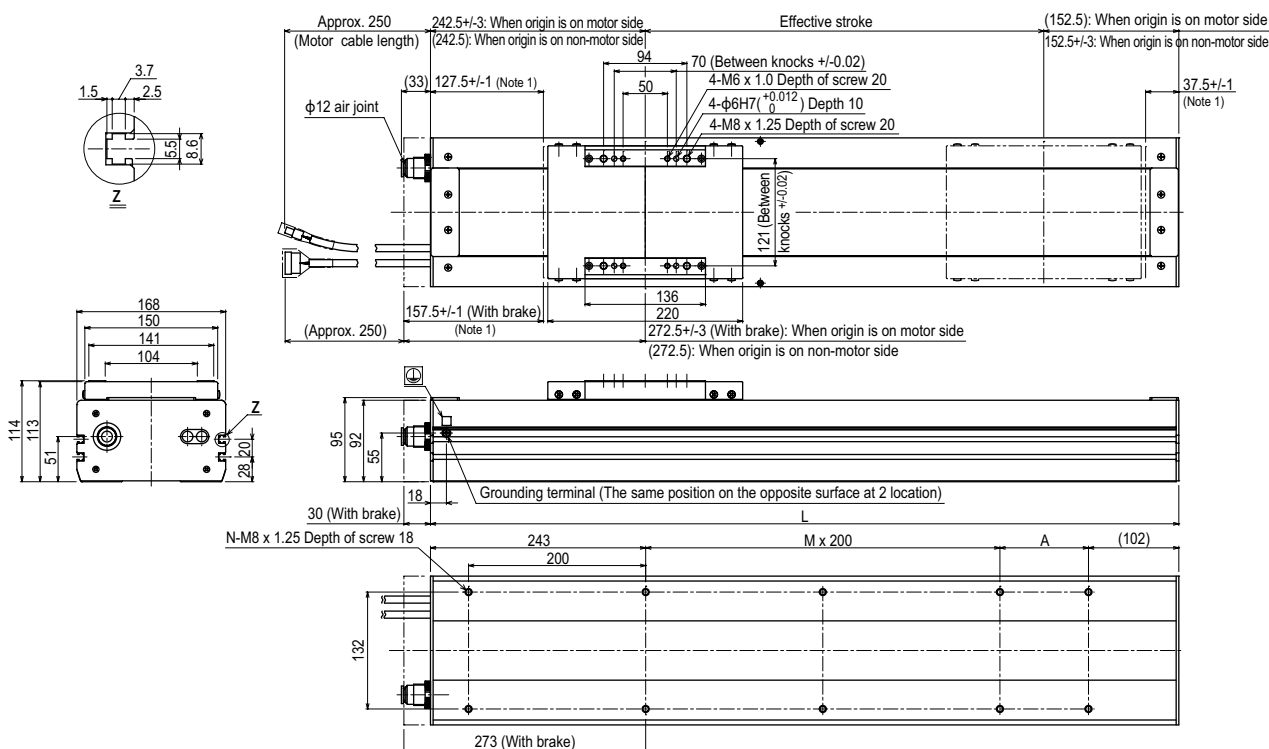
(Unit: N·m)		
MY	MP	MR
1032	1034	908

Controller

Controller	Operation method
SR1-X20 ^{Note}	Programming / I/O point trace / Remote command
RCX-220, RCX340	Operation using RS-232C communication
TS-X220 ^{Note}	I/O point trace / Remote command
RDV-X220-RBR1 (Horizontal)	Pulse train control
RDV-X220-RBR2 (Vertical)	

Note. [The following arrangements require a regeneration unit.]

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) ^{Note 3}	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 (mm/sec) ^{Note 4}	Lead 20															800						600					
	Lead 10															400						300					
	Speed setting															80%						70%					

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 ▶ 618	TS-X ▶ 592	RDV-X ▶ 606
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Ordering method

C20						TSX 220						SR1-X 20						RDV-X 2					
Model	Lead ^{Note 1}	Brake	Option	Stroke	Cable length ^{Note 2}	Positioner ^{Note 3}	Driver: Power-supply voltage / Power capacity ^{Note 4}	Regenerative unit	LCD monitor	I/O selection	Battery	Controller	Driver: Power capacity ^{Note 4}	Usable for CE	Regenerative unit	I/O selection	Battery	Driver	Power-supply voltage ^{Note 4}	Driver: Power capacity ^{Note 4}	Regenerative unit		
	20: 20mm 10: 10mm	No entry: With no brake BK: With brake	Origin position change None: Standard Z: Non-motor side	200 to 1250 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	TS-X	220: 200V/400 to 600W	No entry: None R: With RGT	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 5}	B: With battery (Absolute) N: None (Incremental)		20: 400 to 600W	No entry: Standard E: CE marking	No entry: None R: With RG1	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	B: With battery (Absolute) N: None (Incremental)		2: AC200V	20: 400W or less			

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.692 for details on robot cable.

Note 3. See P.600 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.

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.692 for details on robot cable.

Note 3. See P.600 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.

Basic specifications

AC servo motor output (W)	600
Repeatability (mm)	+/-0.01
Deceleration mechanism	Ball screw $\phi 20$
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 x 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)				Static loading moment (Unit: N·m)			
Lead	A	B	C	Lead	A	B	C	Lead	A	C		MY	MP	MR	
20	50kg	2602	869	1145	20	50kg	1144	798	2602	20	15kg	2711	2711	1101	1103
	80kg	2193	528	720		80kg	717	456	2193		20kg	2045	2045		
	120kg	1841	339	505		120kg	466	267	1841		25kg	1647	1647		
											30kg	1437	1437		
											45kg	939	939		

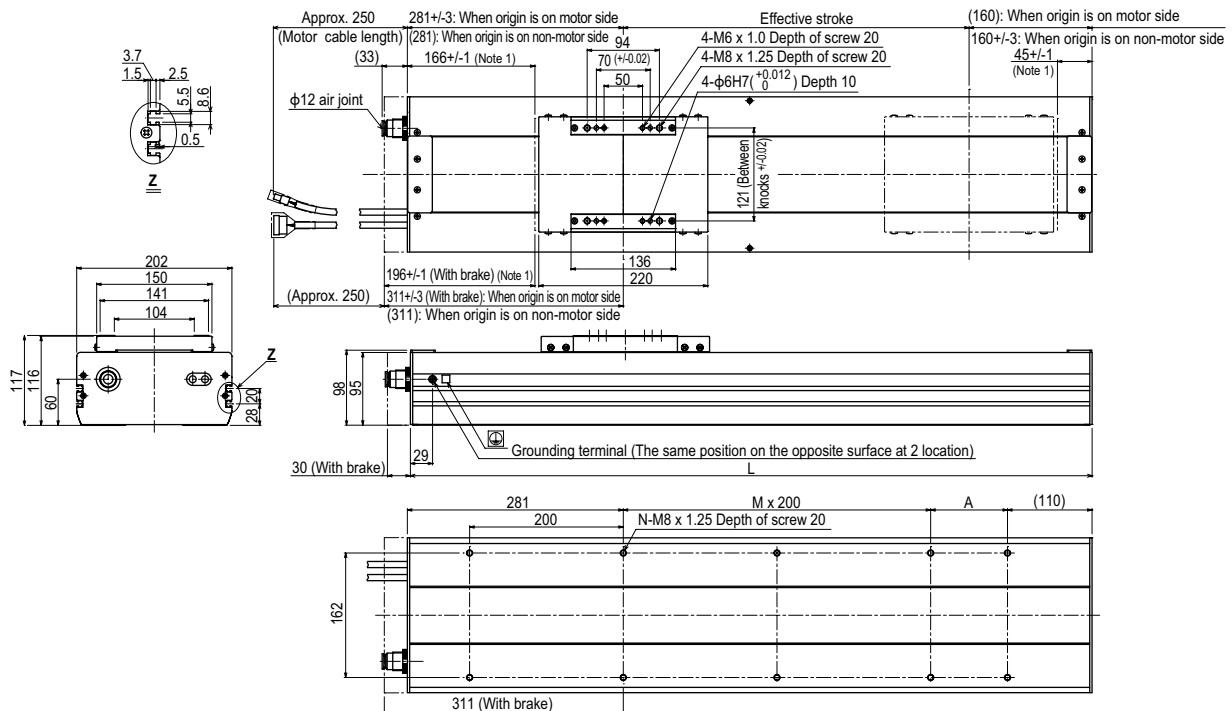
Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

Controller

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

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	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.		
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) ^{Note 3}	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 ^{Note 4} (mm/sec)	Lead 20	1000										800										600		500	
	Lead 10	500										400										350		300	
	Speed setting	—										80%										80%		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.

SXYxCT2 axes

Clean type
Cable duct

Ordering method

SXYxC - D						RCX320-2					
Model	Cable D: Cable duct	Combination T1 T2 T3	X axis stroke 15 to 105cm	Y axis stroke 15 to 65cm	Cable length 3L: 3.5m 5L: 5m 10L: 10m	Controller / Number of controllable axes	Safety standard	Option A (OP.A)	Option B (OP.B)	Vision System	Absolute battery

Specify various controller setting items. RCX320 ▶ **P.626**

Specify various controller setting items. RCX320 ▶ **P.626**

Basic specifications

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

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.

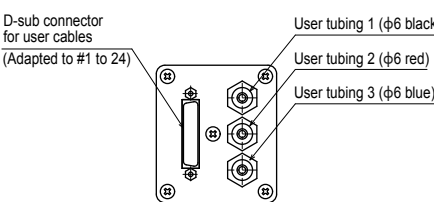
Maximum payload (kg)

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

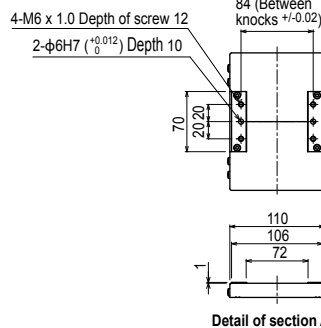
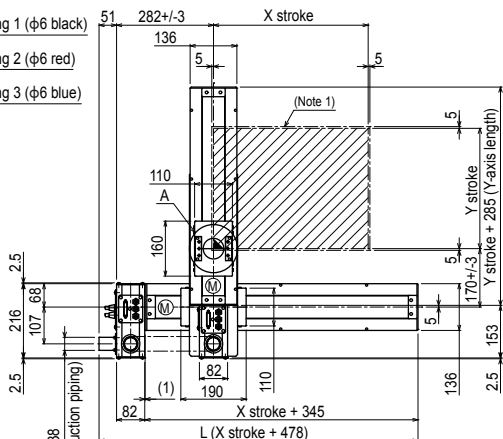
Controller

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

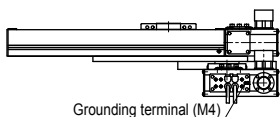
SXYxC 2 axes T1



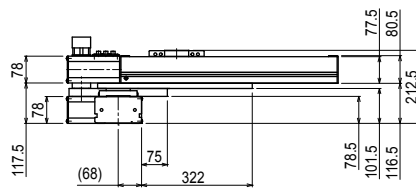
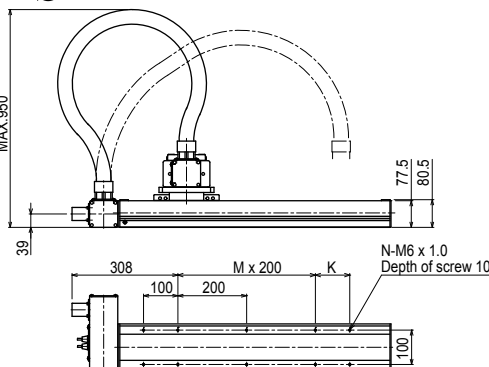
Detail of user wiring/user tubing



Detail of section A



Grounding terminal (M4)

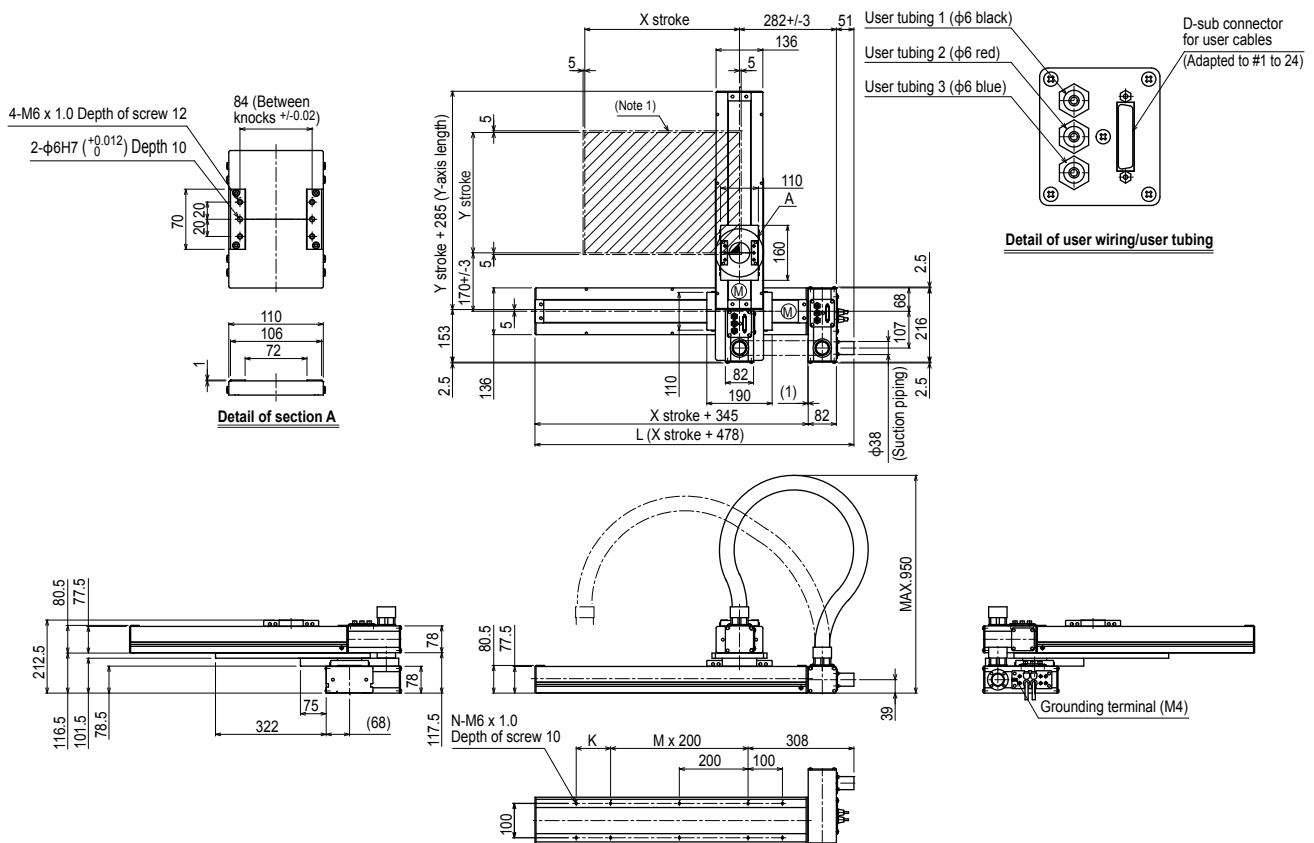


X stroke	150	250	350	450	550	650	750	850	950	1050
L	628	728	828	928	1028	1128	1228	1328	1428	1528
K	200	100	200	100	200	100	200	100	200	100
M	0	1	1	2	2	3	3	4	4	5
N	6	8	8	10	10	12	12	14	14	16
Y stroke	150	250	350	450	550	650				
Maximum speed for each stroke (mm/sec) ^{Note 2}	1000					800	650	550		
Speed 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.

SXYx2C 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) ^{Note 2}	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 D: Cable duct	Combination T1 T3	X axis stroke 15 to 105cm	Y axis stroke 15 to 65cm	ZR axis ZSC12 ZSC6	Z axis stroke	Cable length 3L: 3.5m 5L: 5m 10L: 10m	Controller / Number of controllable axes	Safety standard	Option A (OP.A)	Option B (OP.B)	Option C (OP.C)	Option D (OP.D)	Option E (OP.E)	Absolute battery	

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

Basic specifications

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

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 (0.1 μ m base), when suction blower is used.

Note 6. The necessary intake amount varies depending on the use conditions and environment.

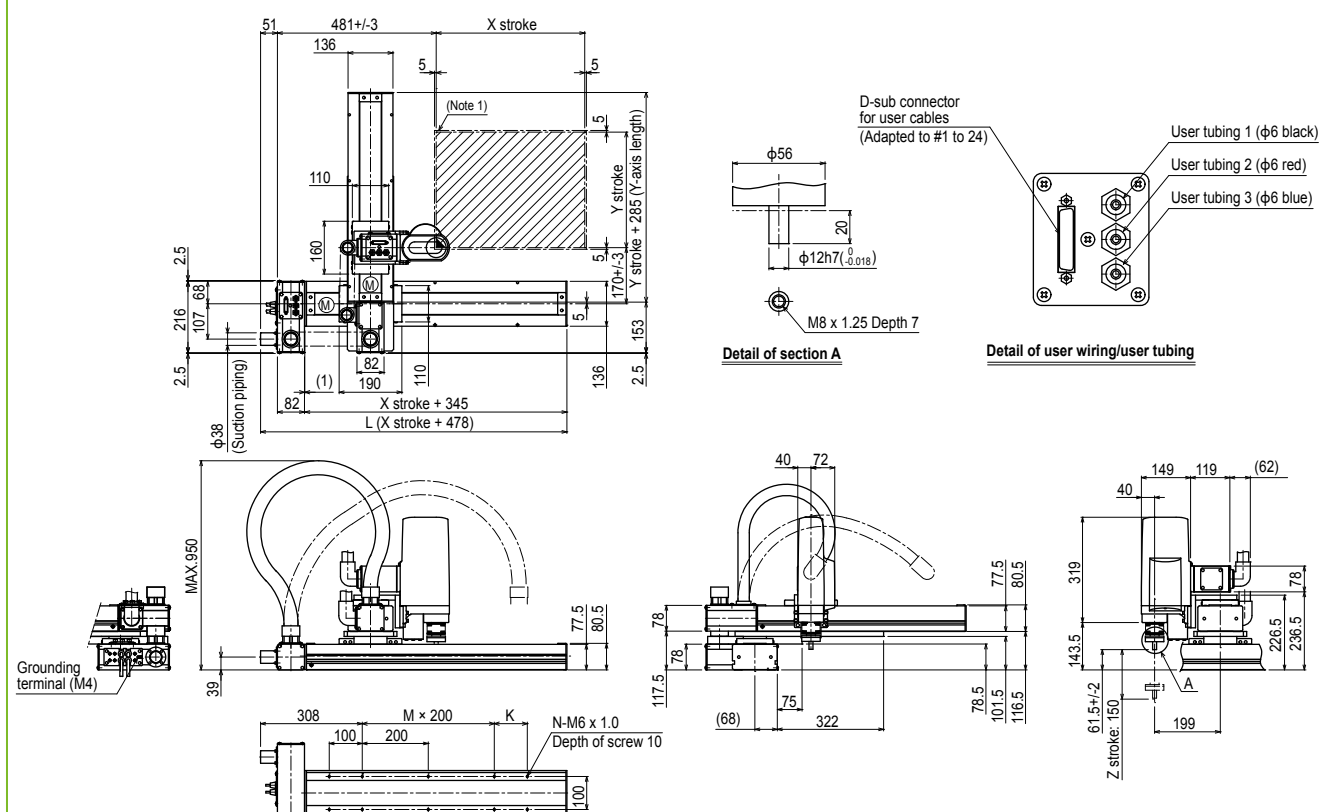
Maximum payload (kg)

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)

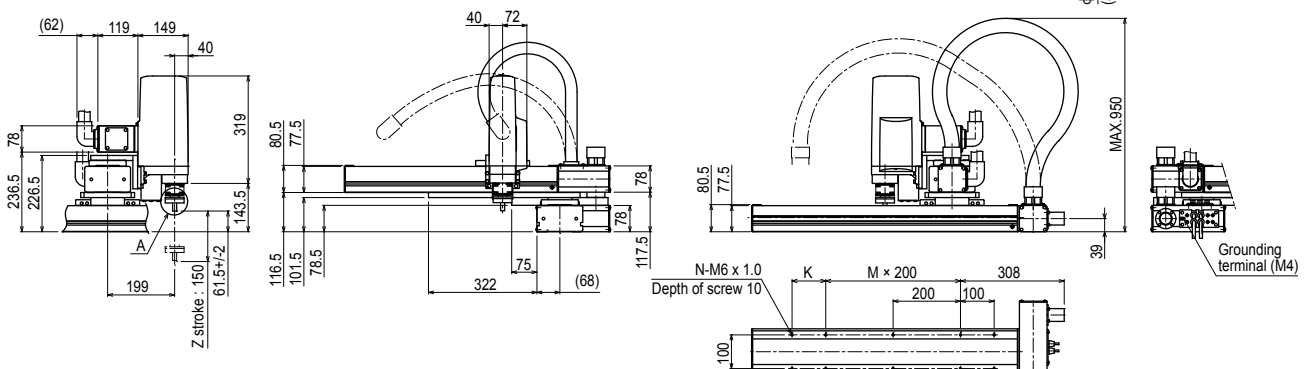
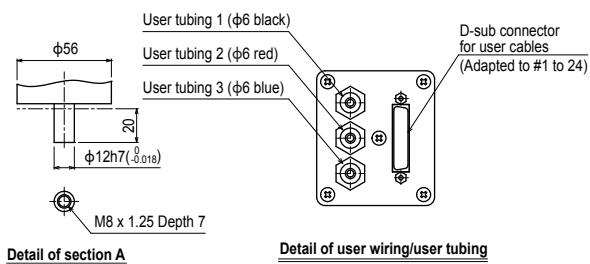


X stroke	150	250	350	450	550	650	750	850	950	1050
L	628	728	828	928	1028	1128	1228	1328	1428	1528
K	200	100	200	100	200	100	200	100	200	100
M	0	1	1	2	2	3	3	4	4	5
N	6	8	8	10	10	12	12	14	14	16
Y stroke	150	250	350	450	550	650				
Z stroke	150									
Maximum speed for each stroke (mm/sec) ^{Note 2}	X 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) <small>Note 2</small>	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

4 axes / ZRSC

Clean type

Cable duct

ZR-axis integrated type

Ordering method

SXYxC

D

15

RCX340-4

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

ZRSC12

ZRSC6

3L: 3.5m

5L: 5m

10L: 10m

Specify various controller setting items. RCX340 ▶ P.636

Basic specifications

	X axis	Y axis	Z axis ZRSC12	Z axis ZRSC6	R axis
Axis construction ^{Note 1}	C14H	C14	—	—	R5
AC servo motor output (W)	200	100	60	100	100
Repeatability ^{Note 2} (XYZ: mm) (R: °)	+/-0.01	+/-0.01	+/-0.02	+/-0.005	+/-0.005
Drive system	Ball screw φ15	Ball screw φ15	Ball screw φ12	Harmonic gear	—
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20	12	6	(1/50)
Maximum speed ^{Note 4} (XYZ: mm/sec) (R: °/sec)	1000	1000	1000	500	1020
Moving range (XYZ: mm) (R: °)	150 to 1050	150 to 650	150	—	360
Robot cable length (m)	Standard: 3.5 Option: 5, 10				
Degree of cleanliness	CLASS 10 ^{Note 5}				
Intake air (Nℓ/min)	90 ^{Note 6}				

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)	ZRSC12	ZRSC6
150	3	5
250		
350		
450		
550		
650		4

Controller

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

SXYxC 4 axes / ZRSC 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

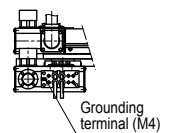
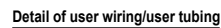
Y stroke	150	250	350	450	550	650
Z stroke	150					

Maximum speed for each stroke (mm/sec) ^{Note 2}	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.

T3



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.

YK180XC

Clean type: Extra small type

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

- Arm length 180mm
- Maximum payload 1kg

Ordering method

YK180XC - 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.636**

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 ^{Note 1} (XYZ: mm) (R: °)		+/-0.01		+/-0.01	+/-0.004
Maximum speed (XYZ: m/sec) (R: °/sec)		3.3		0.7	1700
Maximum payload (kg)		1.0			
Standard cycle time: with 0.1kg payload ^{Note 2} (sec)		0.42			
R-axis tolerable moment of inertia ^{Note 3} (kgm ²)		0.01			
User wiring (sq × wires)		0.1 × 8			
User tubing (Outer diameter)		φ3 × 2			
Travel limit		1.Soft limit, 2.Mechanical limit (X, Y, Zaxis)			
Robot cable length (m)		Standard: 3.5 Option: 5, 10			
Weight (kg) (Excluding robot cable) ^{Note 4}		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. (X,Y axes)

Note 2. When moving 25mm in vertical direction and 100mm in horizontal direction reciprocally.

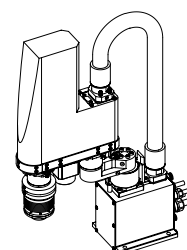
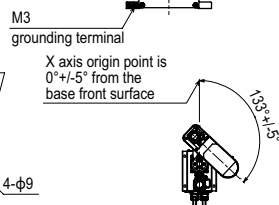
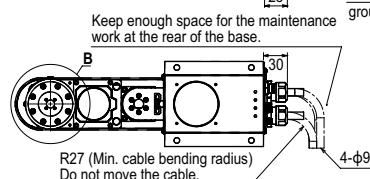
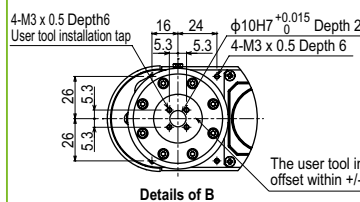
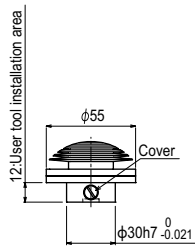
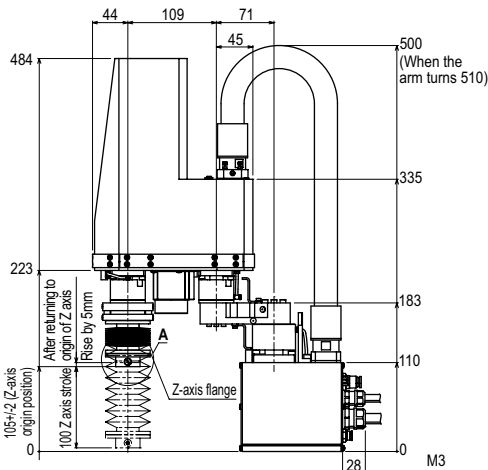
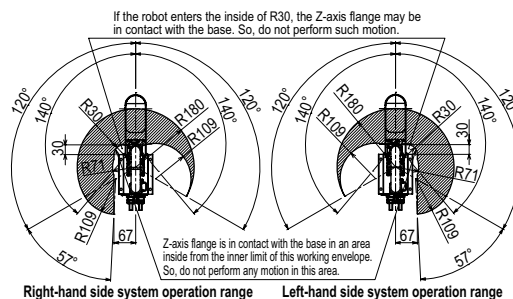
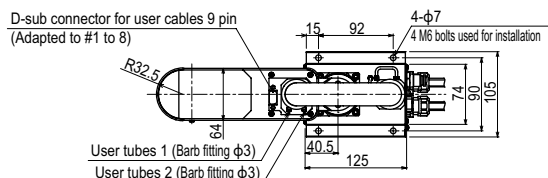
Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

Note 4. The total robot weight is the sum of the robot body weight and the cable weight.

Controller

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

YK180XC



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

Model	Z axis stroke	Cable length
	100: 100mm	3L: 3.5m
		5L: 5m
		10L: 10m

RCX340-4

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

Basic specifications

	X axis	Y axis	Z axis	R axis
Axis specifications				
Arm length (mm)	111	109	100	—
Rotation angle (°)	+/-120	+/-140	—	+/-360
AC servo motor output (W)	50	30	30	30
Repeatability ^{Note 1} (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 ^{Note 2} (sec)	0.45			
R-axis tolerable moment of inertia ^{Note 3} (kgm ²)	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) ^{Note 4}	6.5			
Robot cable weight	1.5kg (3.5m) 2.1kg (5m) 4.2kg (10m)			
Degree of cleanliness	CLASS 10 (0.1μm 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.

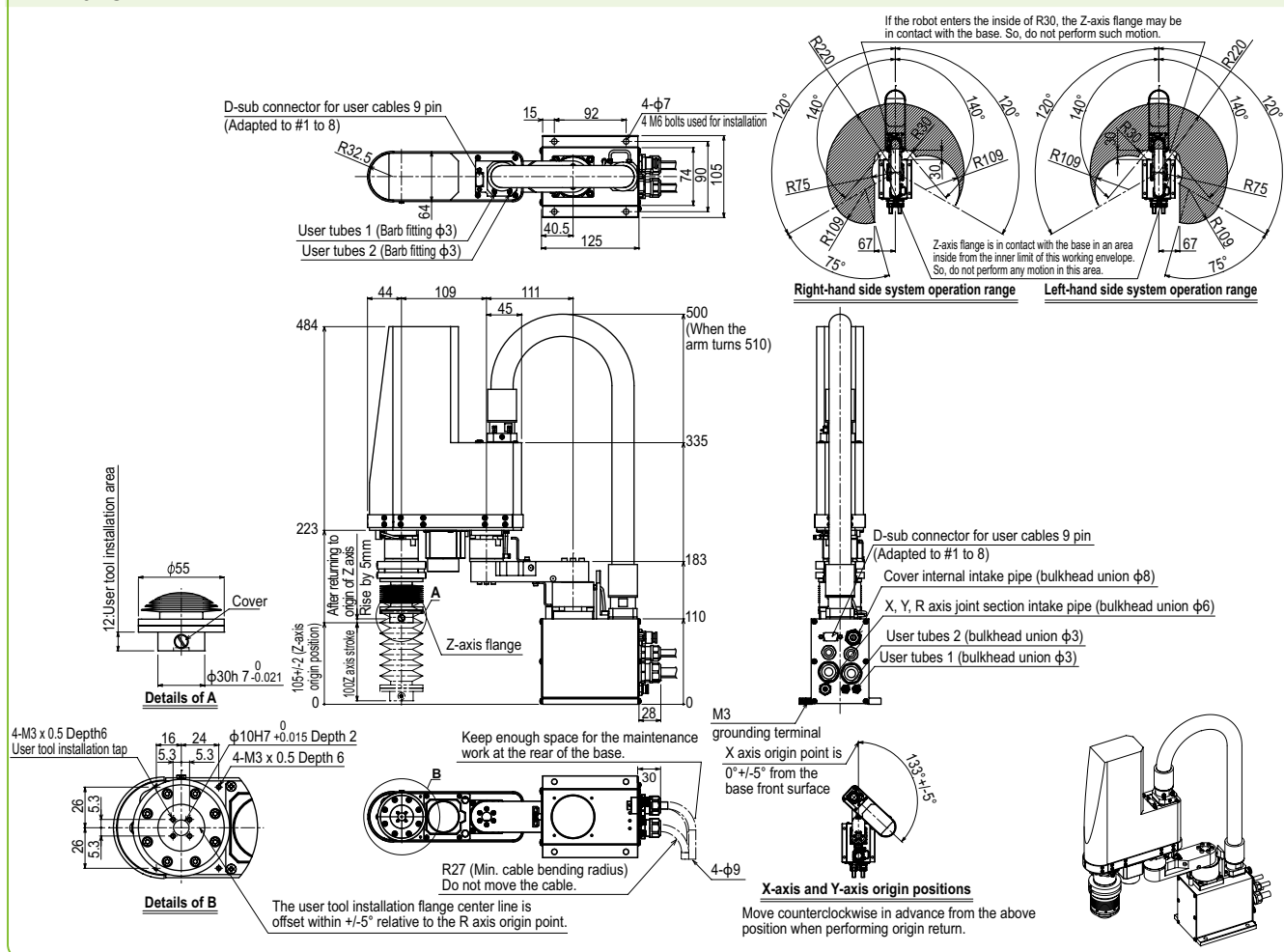
Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

Note 4. The total robot weight is the sum of the robot body weight and the cable weight.

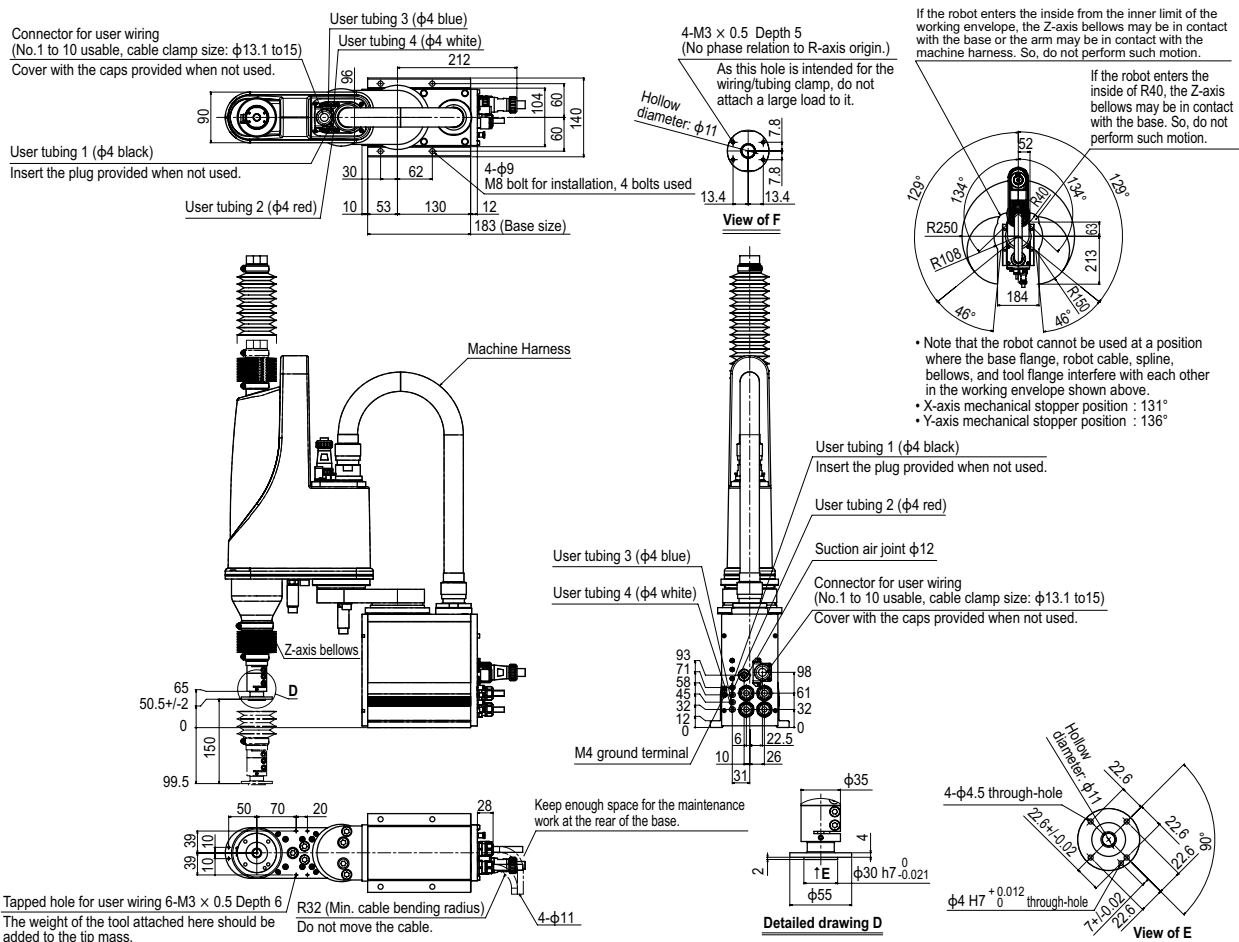
Controller

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

YK220XC



YK250XGC Tool flange mount type



YK350XGC

Clean type: Small type

- Arm length 350mm
- Maximum payload 4kg

Ordering method

YK350XGC - 150			S		RCX340-4							
Model	Z axis stroke 150: 150mm	Tool flange No entry: None F: With tool flange	Hollow shaft S: With hollow shaft	Cable length 3L: 3.5m 5L: 5m 10L: 10m	Controller / Number of controllable axes	Safety standard	Option A (OP.A)	Option B (OP.B)	Option C (OP.C)	Option D (OP.D)	Option E (OP.E)	Absolute battery
Specify various controller setting items. RCX340 ▶ P.636												

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

Basic specifications

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

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. ESD (ElectroStatic discharge) specifications are custom-ordered. Please contact our distributor.

Note 5. The necessary intake amount varies depending on the use conditions and environment.

Controller

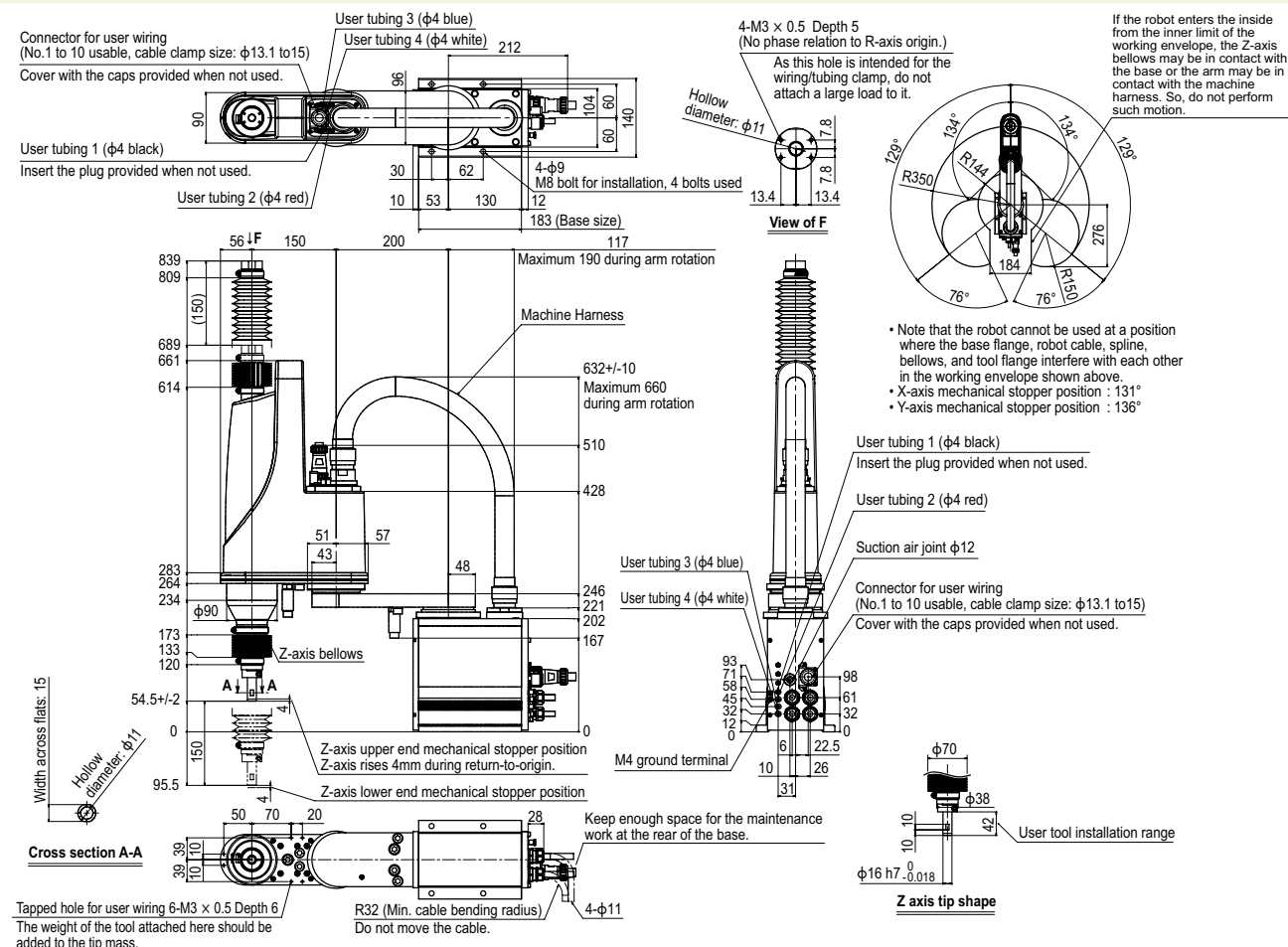
Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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.

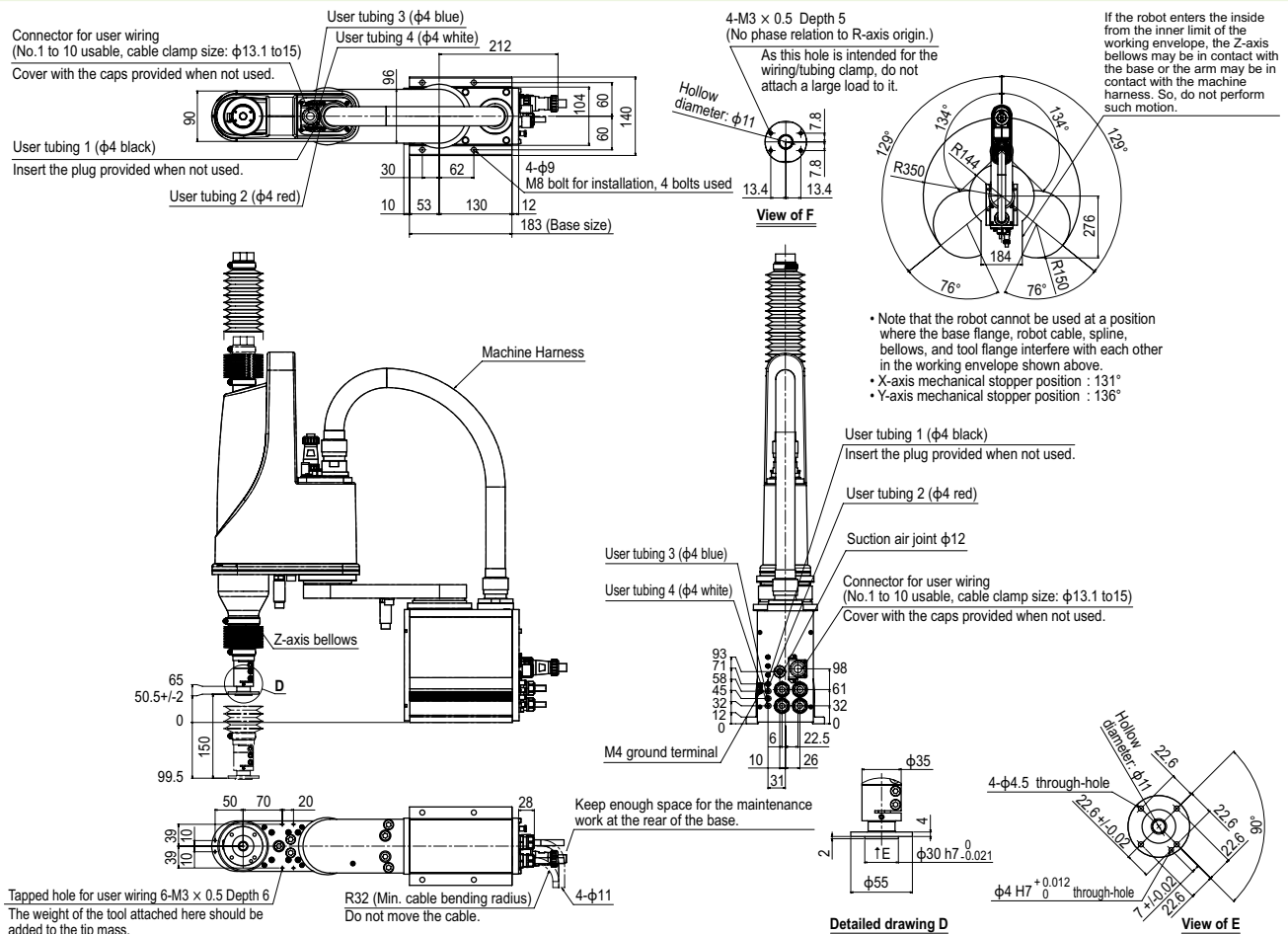
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

Our robot manuals (installation manuals) can be downloaded from our website at the address below:
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YK350XGC



YK350XGC Tool flange mount type



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 ▶ **P.636**

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		250	150	150	—
AC servo motor output (W)		+/-129	+/-144	—	+/-360
Repeatability ^{Note 1} (XYZ: mm) (R: °)		200	150	50	100
Maximum speed (XYZ: m/sec) (R: °/sec)		6.1		1.1	1020
Maximum payload (kg)		4			
Standard cycle time: with 2kg payload (sec) ^{Note 2}		0.50			
R-axis tolerable moment of inertia ^{Note 3} (kgm ²)		0.05			
User wiring (sq × wires)		0.2×10			
User tubing (Outer diameter)		φ4×4			
Travel limit		1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
Robot cable length (m)		Standard: 3.5 Option: 5, 10			
Weight (kg)		22.5			
Degree of cleanliness		ISO CLASS 3 (ISO 14644-1) ^{Note 4} +ESD ^{Note 5}			
Intake air (Nl/min)		30 ^{Note 6}			

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. ESD (ElectroStatic discharge) specifications are custom-ordered. Please contact our distributor.

Note 5. The necessary intake amount varies depending on the use conditions and environment.

Controller

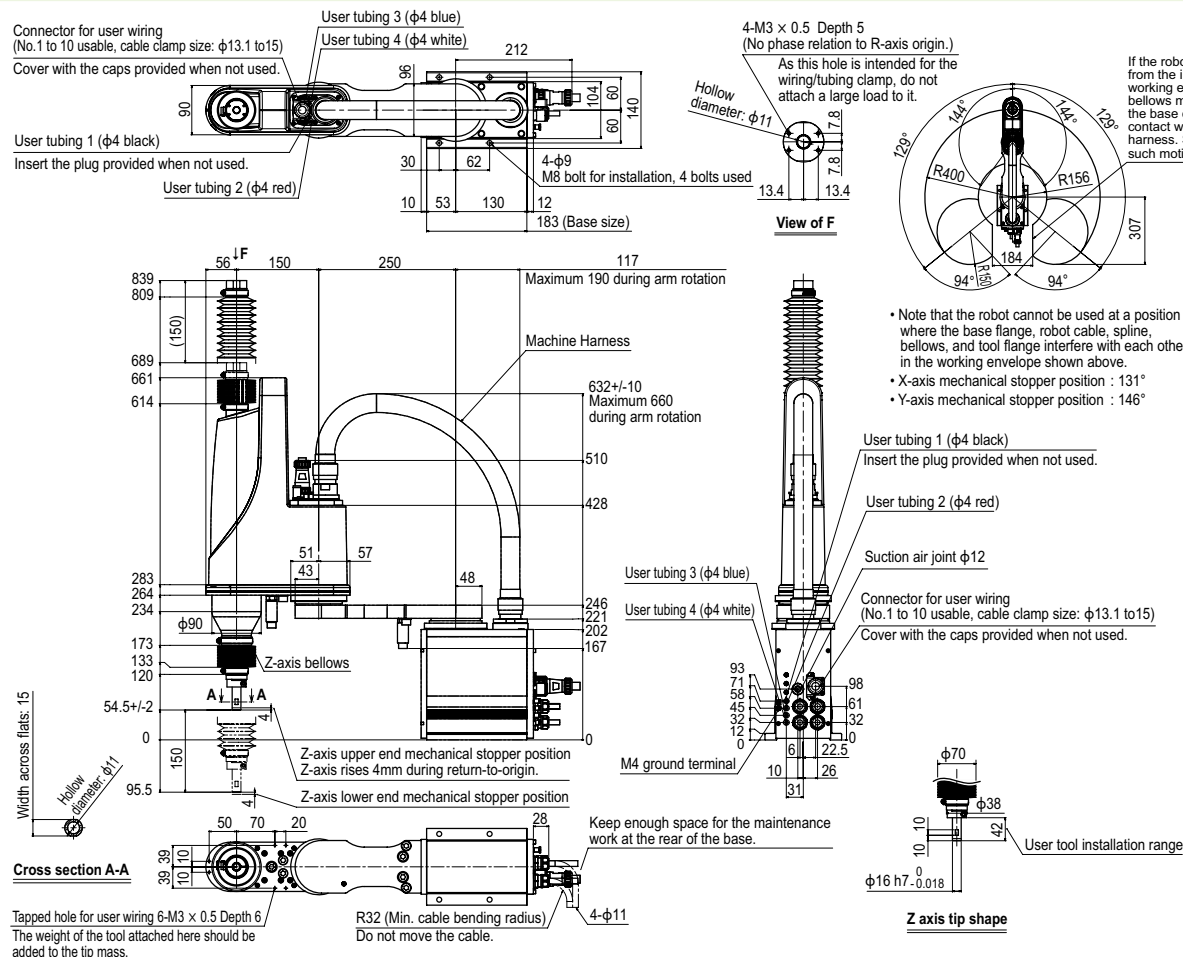
Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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.

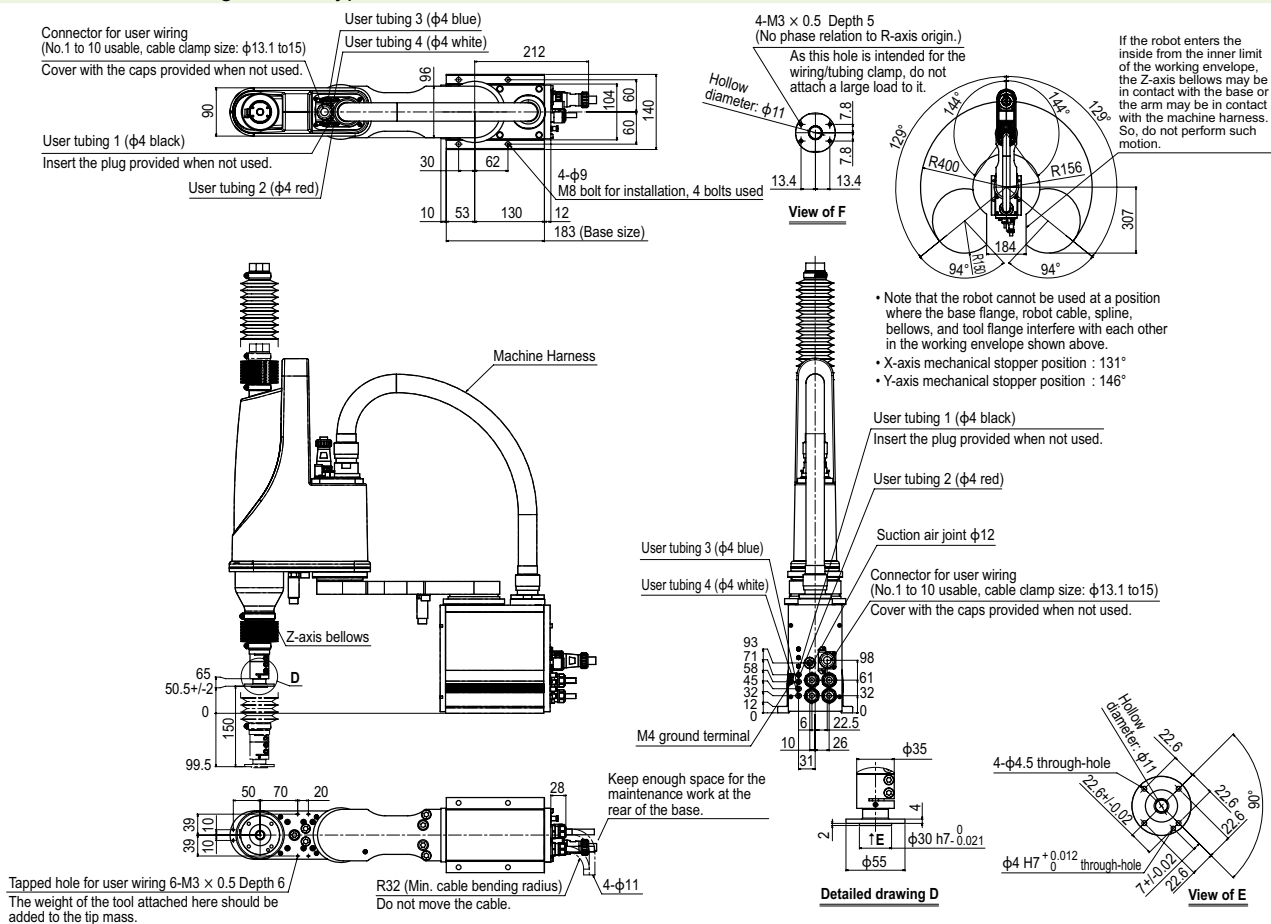
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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YK400XGC



YK400XGC Tool flange mount type



YK400XEC-4

Clean type: Small type

LOW COST HIGH PERFORMANCE MODEL



● Arm length 400mm ● Maximum payload 4kg

Ordering method

YK400XEC	4	150			RCX340-4			
Model	Maximum payload	Z axis stroke	Brake release switch	Cable length	Controller / Number of controllable axes	Safety standard	Option A to E (OPA to E)	Absolute battery
			No entry: None BS: With brake release switch	3L: 3.5m 5L: 5m 10L: 10m				

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

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
		225	175	150	—
	Rotation angle (°)	+/-132	+/-145	—	+/-360
AC servo motor output (W)		200	100	100	100
Deceleration mechanism	Transmission method	Direct-coupled		Timing belt	
	Motor to speed reducer	Direct-coupled		Timing belt	
	Speed reducer to output	Direct-coupled		Timing belt	
Repeatability ^{Note 1} (XYZ: mm) (R: °)		+/-0.01		+/-0.01	+/-0.01
Maximum speed (XYZ: m/sec) (R: °/sec)		6		1.1	2600
Maximum payload (kg)		4			
Standard cycle time: with 2kg payload (sec) ^{Note 2}		0.45			
R-axis tolerable moment of inertia ^{Note 3} (kgm ²)		0.05			
User wiring (sq × wires)		0.2×10			
User tubing (Outer diameter)		φ4×3			
Travel limit		1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
Robot cable length (m)		Standard: 3.5 Option: 5, 10			
Weight (kg)		18			
Degree of cleanliness		ISO CLASS 3 (ISO 14644-1)			
Intake air (Nl/min)		55 ^{Note 4}			

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

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

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

Note 4. Set within the range of ±1Nl/min. When the suction volume is not appropriate, it may adversely affect the cleanliness degree or deform the bellows.

Controller

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

Note. User wiring/tubing can be passed through from the top to the tip of the Z-axis shaft. For details, see the manual (installation manual).

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

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

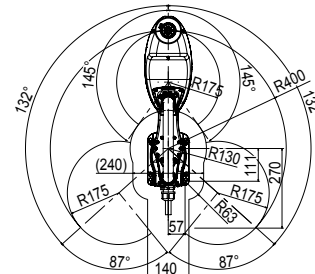
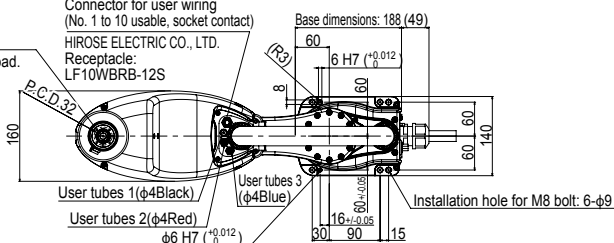
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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YK400XEC-4

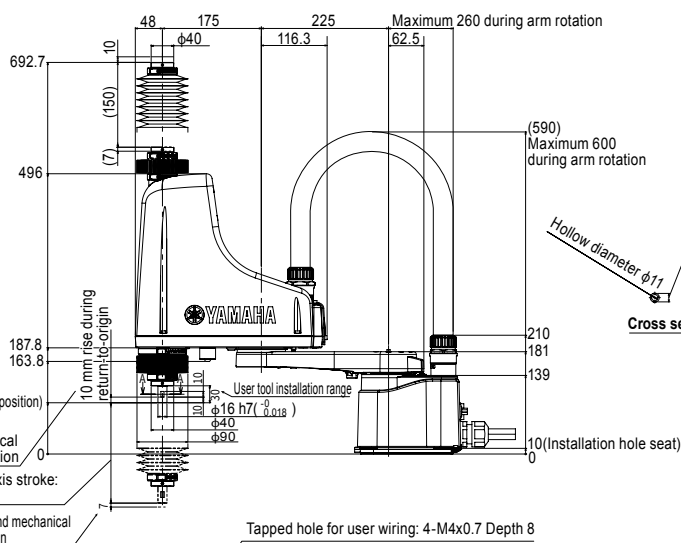
For wiring/tubing clamp:
4-M3x0.5 Depth 4.5
(90°-equal division)
Do not apply any large load.
No phase relation to
R-axis origin.

Connector for user wiring
(No. 1 to 10 usable, socket contact)
HIROSE ELECTRIC CO., LTD.
Receptacle:
LF10WBRB-12S



Working envelope(Standard)

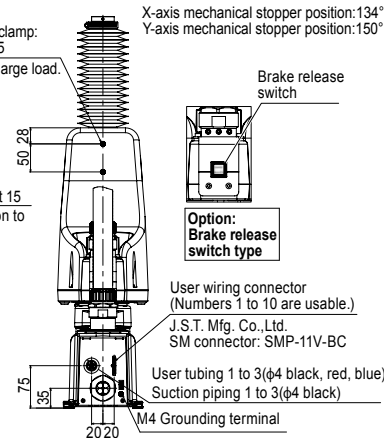
X-axis mechanical stopper position: 134°
Y-axis mechanical stopper position: 150°



For wiring/tubing clamp:
2-M4x0.7 Depth 5
Do not apply any large load.

Hollow diameter φ11
Width across flat 15
No phase relation to
R-axis origin.

Cross section A-A



Brake release switch
Option:
Brake release switch type

User wiring connector
(Numbers 1 to 10 are usable.)
J.S.T. Mfg. Co., Ltd.
SM connector: SMP-11V-BC

User tubing 1 to 3(φ4 black, red, blue)
Suction piping 1 to 3(φ4 black)
M4 Grounding terminal

Tapped hole for user wiring: 4-M4x0.7 Depth 8
The weight of the tool to be installed is included in the tip weight, and be sure to use it so that it does not interfere with the bellows.

Keep enough space for the maintenance work at the rear of the base.
4-φ9/Minimum bending radius R27
Do not move the cable.

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.636

Basic specifications

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

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. ESD (ElectroStatic discharge) specifications are custom-ordered. Please contact our distributor.

Note 5. The necessary intake amount varies depending on the use conditions and environment.

Controller

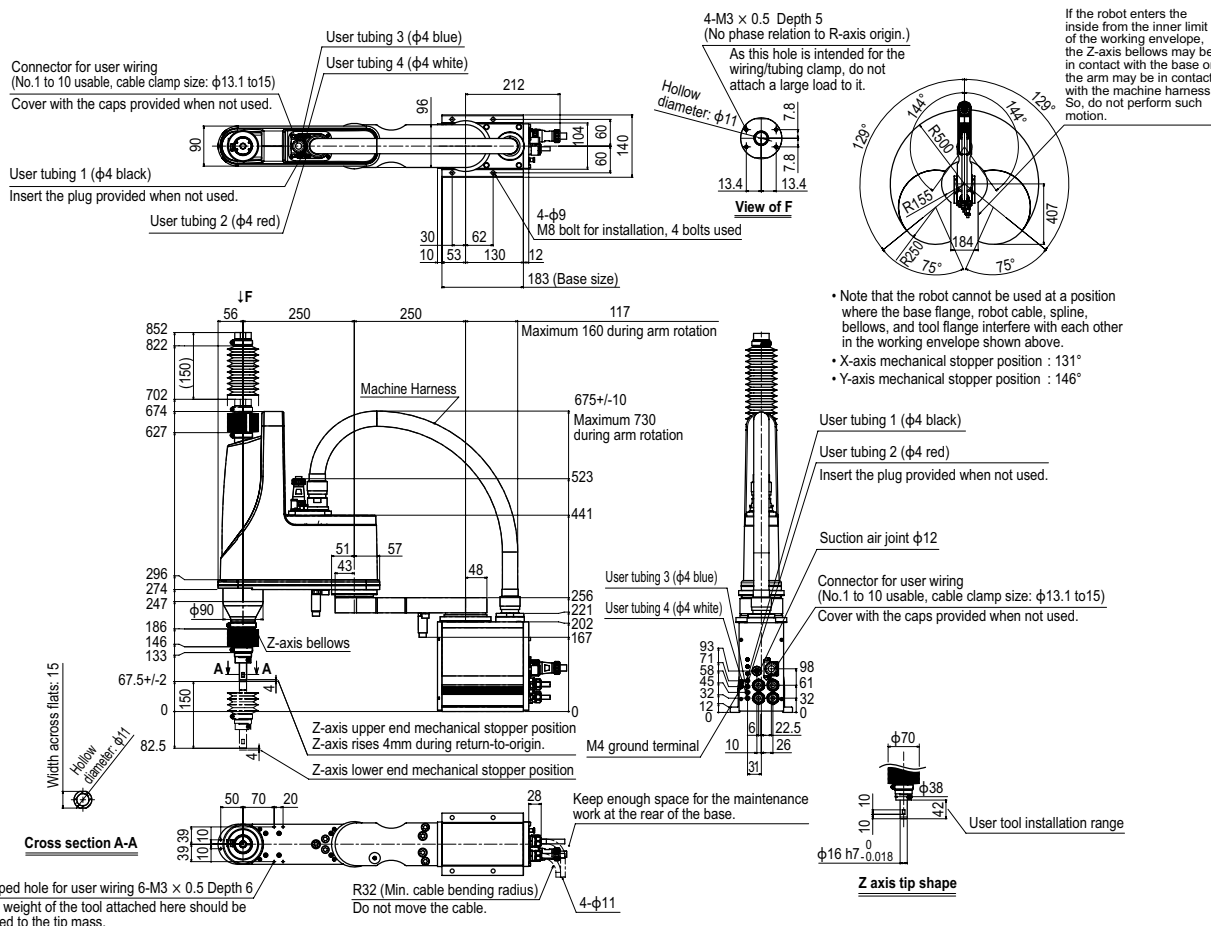
Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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.

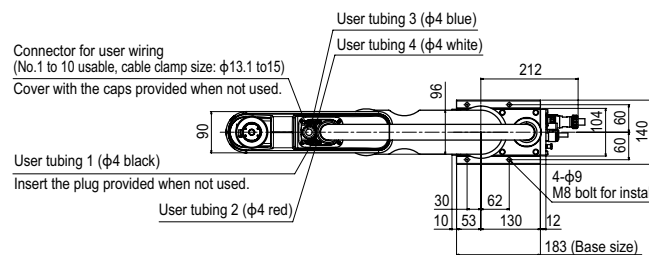
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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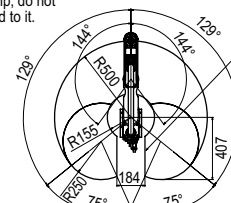
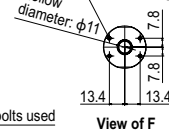
YK500XGLC



YK500XGLC Tool flange mount type

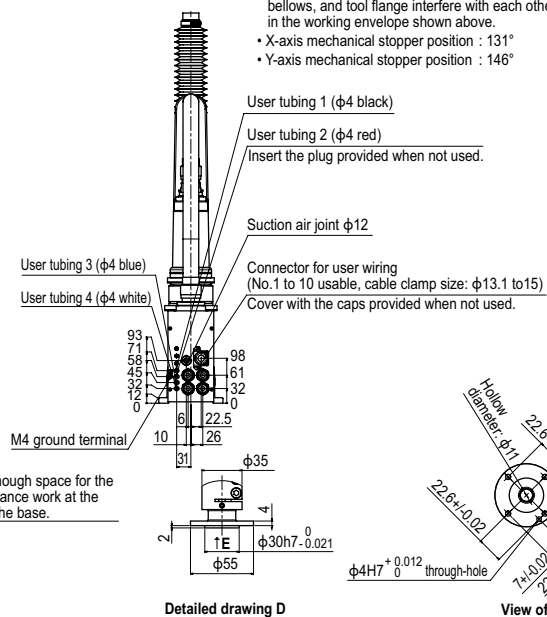
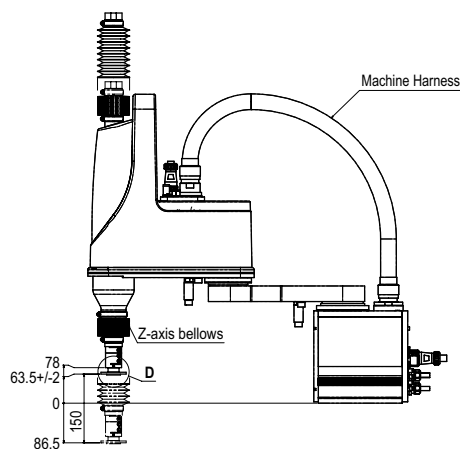


4-M3 \times 0.5 Depth 5
(No phase relation to R-axis origin.)
As this hole is intended for the wiring/tubing clamp, do not attach a large load to it.



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.

- 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°



Tapped hole for user wiring 6-M3 \times 0.5 Depth 6
The weight of the tool attached here should be added to the tip mass.

R32 (Min. cable bending radius)
Do not move the cable.

4- $\phi 11$

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

YK500XC

Clean type: Medium type

- Arm length 500mm
- Maximum payload 10kg

Ordering method

YK500XC

Model	Z axis stroke	Cable length
	200: 200mm 300: 300mm	3L: 3.5m 5L: 5m 10L: 10m

RCX340-4

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

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
	Rotation angle (°)	250	250	200 300	—
		+/-120	+/-142	—	+/-180
AC servo motor output (W)		400	200	200	100
Repeatability ^{Note 1} (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 ^{Note 2} (kgm ²)				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 ^{Note 3}	
Intake air (Nl/min)				60 ^{Note 4}	

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.

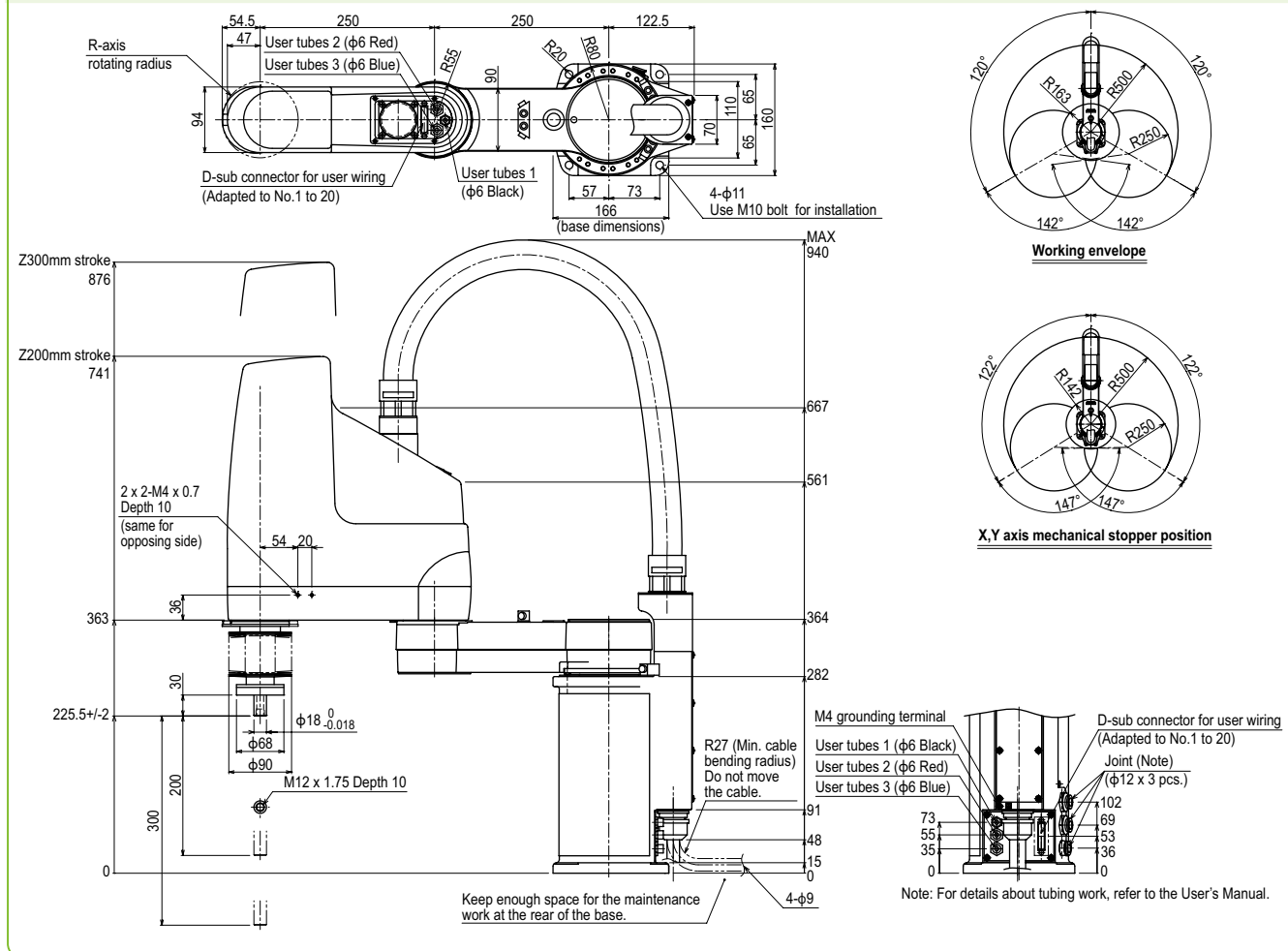
Controller

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.

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YK500XC



YK600XGLC

Clean type: Medium type

- Arm length 600mm
- Maximum payload 4kg

Ordering method

YK600XGLC	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 ▶ **P636**

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
	Rotation angle (°)	+/-129	+/-144	-	+/-360
AC servo motor output (W)		200	150	50	100
Repeatability ^{Note 1} (XYZ: mm) (R: °)		+/-0.01		+/-0.01	+/-0.004
Maximum speed (XYZ: m/sec) (R: °/sec)		4.9		1.1	1020
Maximum payload (kg)				4	
Standard cycle time: with 2kg payload (sec) ^{Note 2}				0.71	
R-axis tolerable moment of inertia ^{Note 3} (kgm ²)				0.05	
User wiring (sq x wires)				0.2x10	
User tubing (Outer diameter)				φ4x4	
Travel limit		1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
Robot cable length (m)		Standard: 3.5 Option: 5, 10			
Weight (kg)		26			
Degree of cleanliness		ISO CLASS 3 (ISO 14644-1) ^{Note 4} +ESD ^{Note 5}			
Intake air (Nl/min)		30 ^{Note 6}			

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. ESD (ElectroStatic discharge) specifications are custom-ordered. Please contact our distributor.

Note 5. The necessary intake amount varies depending on the use conditions and environment.

Controller

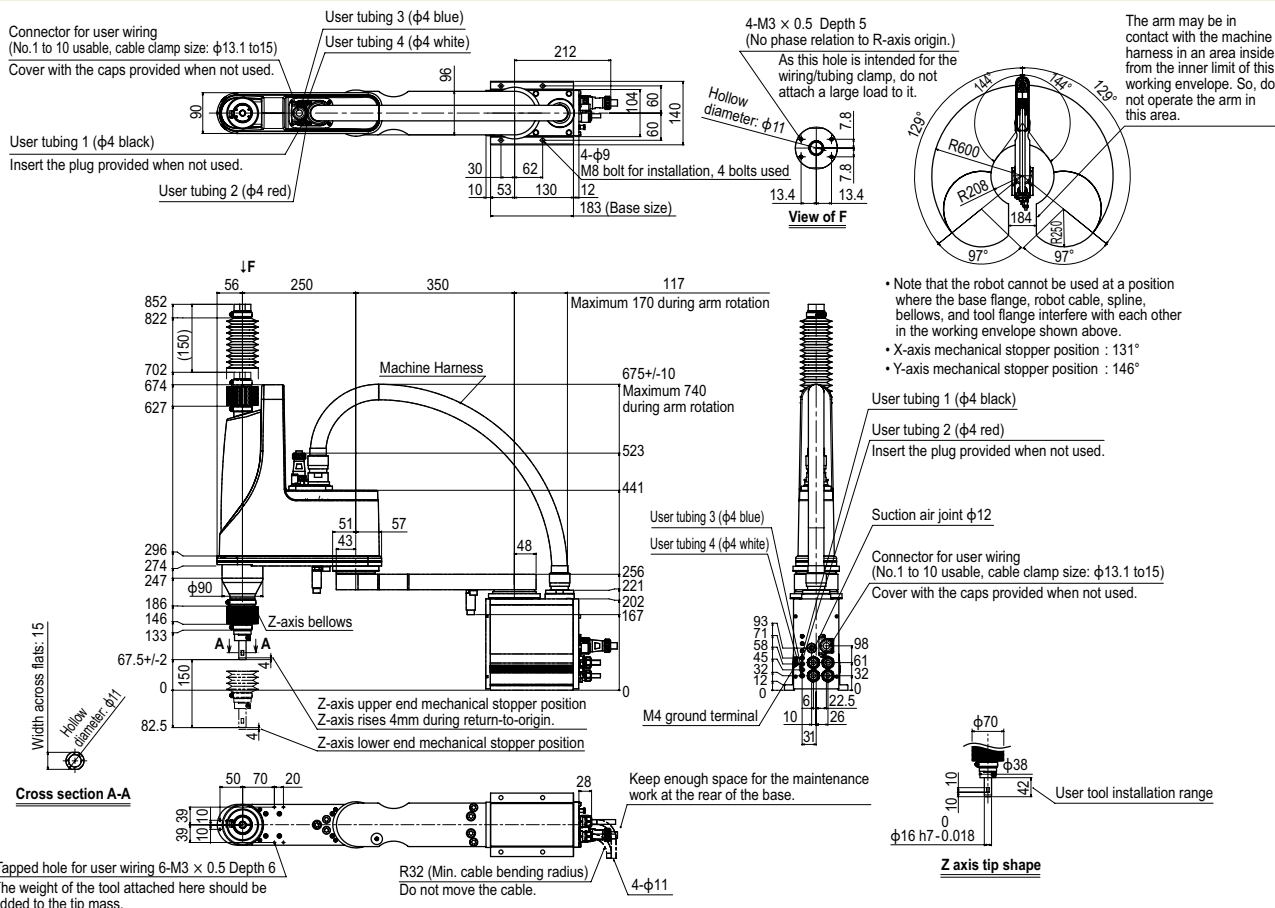
Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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.

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YK600XGLC



YK600XC

Clean type: Medium type

- Arm length 600mm
- Maximum payload 10kg



Ordering method

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
YK600XC	200: 200mm 300: 300mm	3L: 3.5m 5L: 5m 10L: 10m	RCX340-4							

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

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 ^{Note 1} (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 ^{Note 2} (kgm ²)				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 ^{Note 3}	
Intake air (Nl/min)				60 ^{Note 4}	

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.

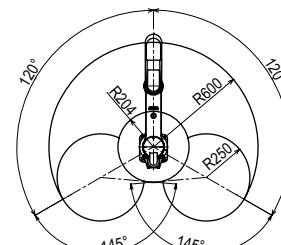
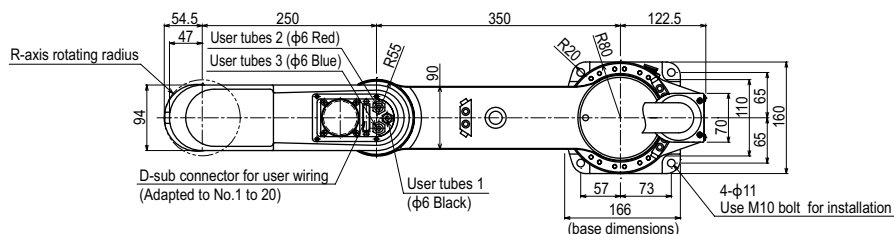
Controller

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

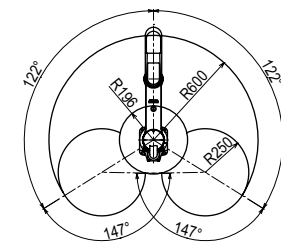
Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)
See our robot manuals (installation manuals) for detailed information.

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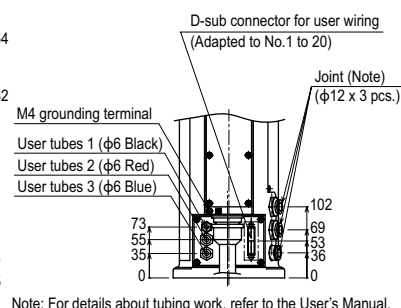
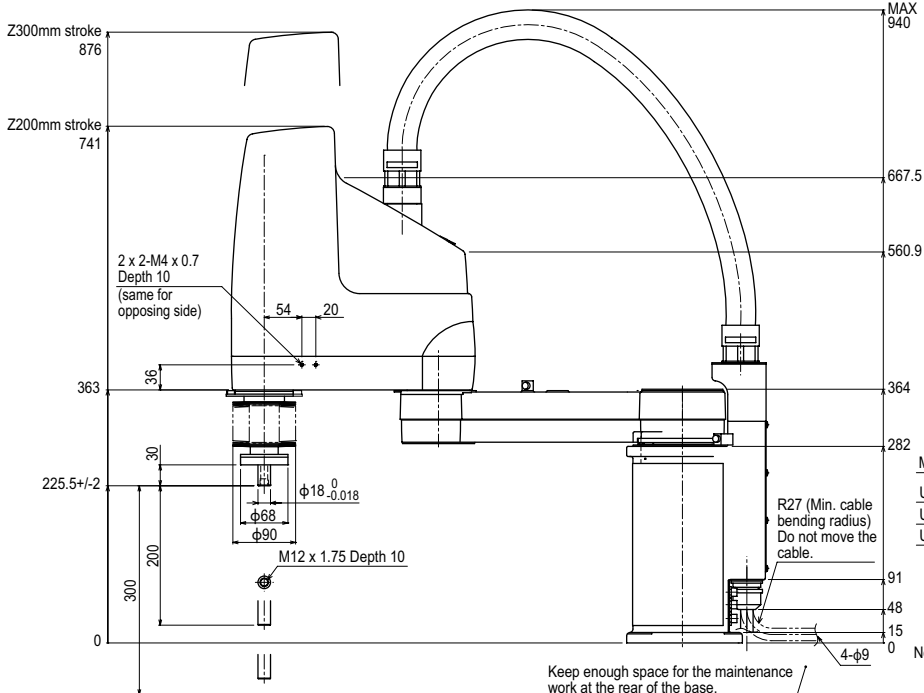
YK600XC



Working envelope



X,Y axis mechanical stopper position



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.

YK610XEC-10

Clean type: Medium type

LOW COST HIGH PERFORMANCE MODEL



- Arm length 610mm
- Maximum payload 10kg

Ordering method

YK610XEC - 10 - 200

Model	Maximum payload	Z axis stroke	Tool flange	Brake release switch	Cable length
			No entry: None F: With tool flange	No entry: None BS: With brake release switch	3L: 3.5m 5L: 5m 10L: 10m

RCX340-4

Controller / Number of controllable axes	Safety standard	Option A to E (OPA to E)	Absolute battery
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Specify various controller setting items. RCX340 ▶ **P.636**

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
		335	275	200	—
	Rotation angle (°)	+/-134	+/-147.5	—	+/-360
AC servo motor output (W)		400	200	200	200
Deceleration mechanism	Transmission method	Direct-coupled		Timing belt	
	Motor to speed reducer	Direct-coupled		Timing belt	
	Speed reducer to output	Direct-coupled		Timing belt	
Repeatability ^{Note 1} (XYZ: mm) (R: °)		+/-0.01	+/-0.01	+/-0.01	+/-0.01
Maximum speed (XYZ: m/sec) (R: °/sec)		8.6	2	2600	
Maximum payload (kg)		10 kg (Standard specification) 9 kg (With tool flange)			
Standard cycle time: with 2kg payload (sec) ^{Note 2}		0.44			
R-axis tolerable moment of inertia ^{Note 3} (kgm ²)		0.3			
User wiring (sq × wires)		0.2×20			
User tubing (Outer diameter)		φ6×3			
Travel limit		1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
Robot cable length (m)		Standard: 3.5 Option: 5, 10			
Weight (kg)		27			
Degree of cleanliness		ISO CLASS 3 (ISO 14644-1)			
Intake air (Nl/min)		60 ^{Note 4}			

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

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

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

Note 4. Set within the range of ±1Nl/min. When the suction volume is not appropriate, it may adversely affect the cleanliness degree or deform the bellows.

Controller

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

Note. User wiring/tubing can be passed through from the top to the tip of the Z-axis shaft. For details, see the manual (installation manual).

Note. The movement range can be restricted by adding the X- and Y-axis mechanical stoppers. (The maximum movement range was set at shipment.) See our robot manuals (installation manuals) for detailed information.

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

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

YK610 XEC-10

Connector for user wiring (No. 1 to 20 usable, socket contact)

NANABOSHI ELECTRIC MFG CO.,LTD

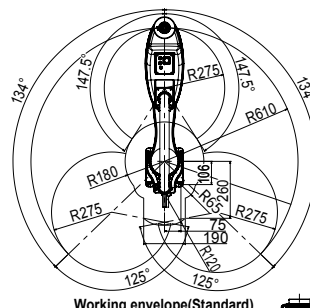
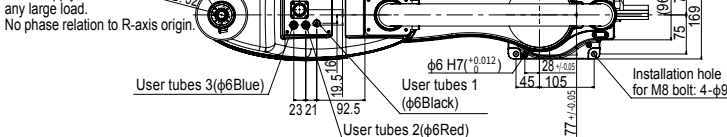
Receptacle: NR-2424-RF

For wiring/tubing clamp:

4-M3x0.5 Depth 4.5 (90°-equal division)

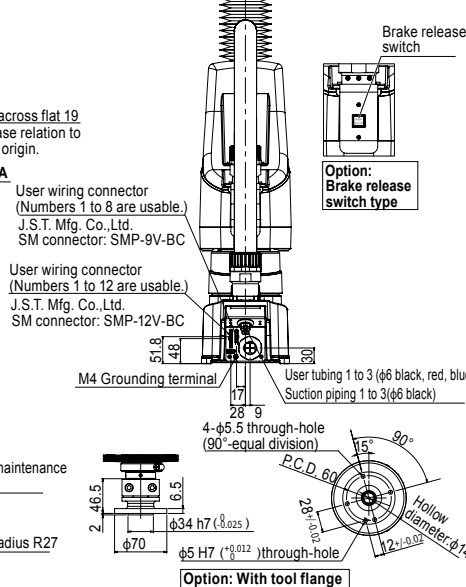
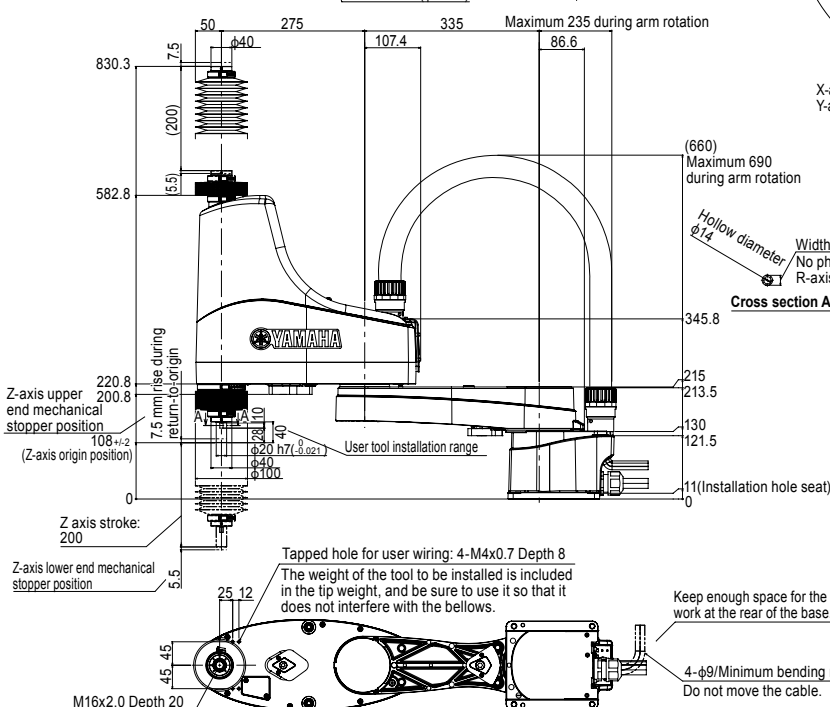
Do not apply any large load.

No phase relation to R-axis origin.



Working envelope(Standard)

X-axis mechanical stopper position:136°
Y-axis mechanical stopper position:149.5°



Clean type: Large type

- Arm length 700mm
- Maximum payload 20kg



Ordering method

YK700XC			RCX340-4							
Model	Z axis stroke 200: 200mm 400: 400mm	Cable length 3L: 3.5m 5L: 5m 9L: 9m 10L: 10m	Controller / Number of controllable axes	Safety standard	Option A (O.P.A)	Option B (O.P.B)	Option C (O.P.C)	Option D (O.P.D)	Option E (O.P.E)	Absolute battery

Specify various controller setting items. RCX340 ▶ **P636**

Basic specifications

		X axis	Y axis	Z axis		R axis
Axis specifications	Arm length (mm)	350	350	200	400	–
	Rotation angle (°)	+/-120	+/-145	–		+/-180
AC servo motor output (W)		800	400	400		200
Repeatability ^{Note 1} (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 ^{Note 2} (kgm ²)		0.32				
User wiring (sq × wires)		0.2 × 20				
User tubing (Outer diameter)		φ6 × 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 ^{Note 3}				
Intake air (Nℓ/min)		60 ^{Note 4}				

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.

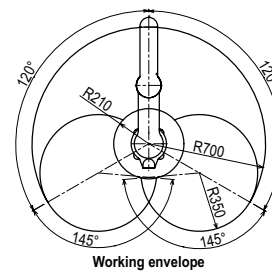
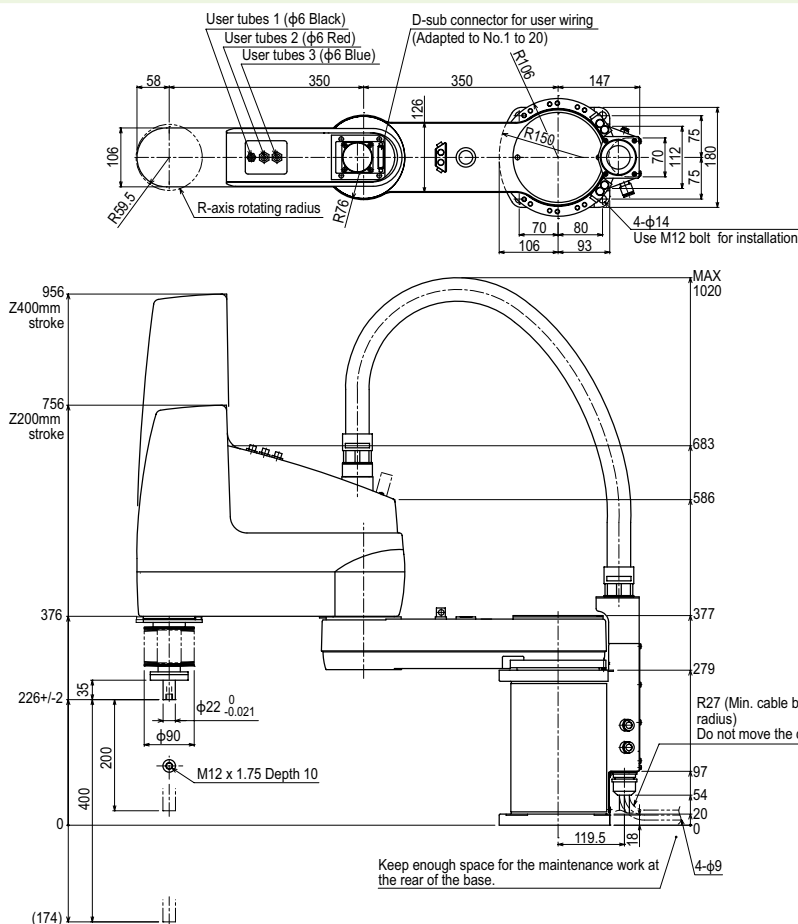
Controller

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

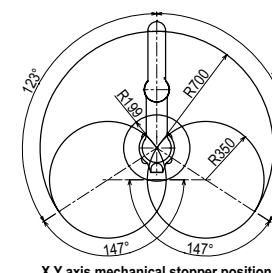
Note: The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.) See our robot manuals (installation manuals) for detailed information.

Our robot manuals (installation manuals) can be downloaded from our website at the address below:
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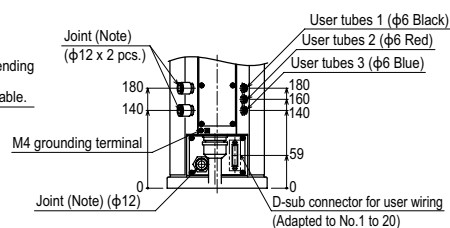
YK700XC



Working envelope



X,Y axis mechanical stopper position



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

YK710XEC-10

Clean type: Large type

LOW COST HIGH PERFORMANCE MODEL



● Arm length 710mm ● Maximum payload 10kg

Ordering method

YK710XEC-10-200

Model

Maximum payload

Z axis stroke

Tool flange

No entry: None
F: With tool flange

Brake release switch

No entry: None
BS: With brake release switch

Cable length

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

RCX340-4

Controller / Number of controllable axes

Safety standard

Option A to E (OPA to E)

Absolute battery

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

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
	Rotation angle (°)	+/-134	+/-147.5	-	+/-360
AC servo motor output (W)		400	200	200	200
Deceleration mechanism	Transmission method	Direct-coupled		Timing belt	
	Motor to speed reducer	Direct-coupled		Timing belt	
	Speed reducer to output	Direct-coupled		Timing belt	
Repeatability ^{Note 1} (XYZ: mm) (R: °)		+/-0.01	+/-0.01	+/-0.01	+/-0.01
Maximum speed (XYZ: m/sec) (R: °/sec)		9.5	2	2	2600
Maximum payload (kg)		10 kg (Standard specification) 9 kg (With tool flange)			
Standard cycle time: with 2kg payload (sec) ^{Note 2}		0.49			
R-axis tolerable moment of inertia ^{Note 3} (kgm ²)		0.3			
User wiring (sq x wires)		0.2x20			
User tubing (Outer diameter)		φ6x3			
Travel limit		1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
Robot cable length (m)		Standard: 3.5 Option: 5, 10			
Weight (kg)		28			
Degree of cleanliness		ISO CLASS 3 (ISO 14644-1)			
Intake air (Nl/min)		60 ^{Note 4}			

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

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

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

Note 4. Set within the range of ±1Nl/min. When the suction volume is not appropriate, it may adversely affect the cleanliness degree or deform the bellows.

Controller

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

Note. User wiring/tubing can be passed through from the top to the tip of the Z-axis shaft. For details, see the manual (installation manual).

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

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

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

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YK710 XEC-10

Connector for user wiring (No. 1 to 20 usable, socket contact)

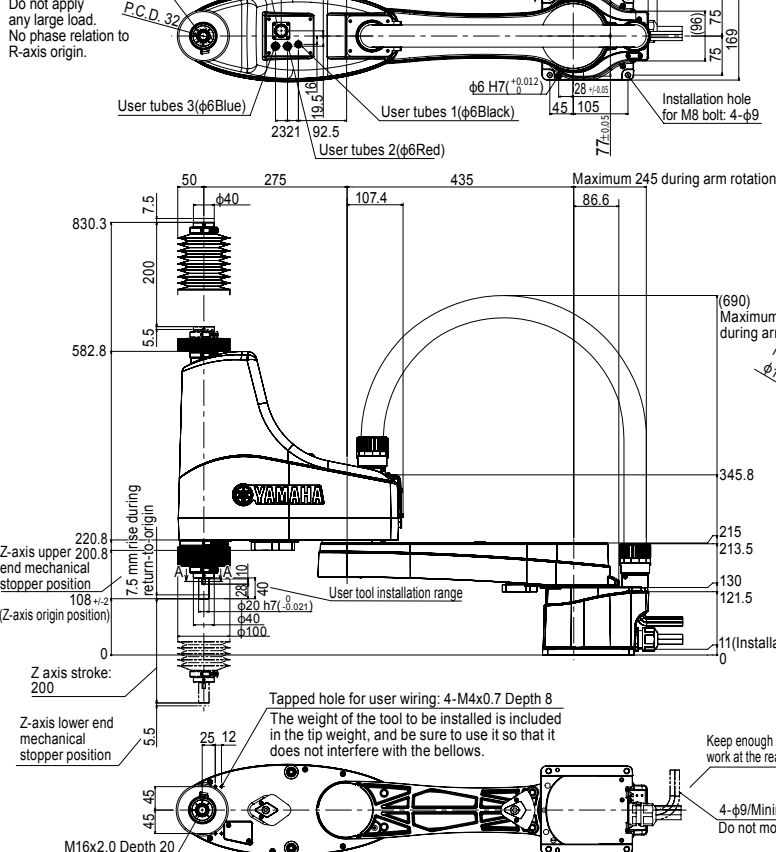
NANABOSHI ELECTRIC MFG CO.,LTD

Receptacle: NR-2424-RF

For wiring/tubing clamp: 4-M3x0.5 Depth 4.5(90°-equal division)

Do not apply any large load.

No phase relation to R-axis origin.



YK800XC

Clean type: Large type

- Arm length 800mm
- Maximum payload 20kg



Ordering method

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
YK800XC	200: 200mm 400: 400mm	3L: 3.5m 5L: 5m 10L: 10m	RCX340-4							

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

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 ^{Note 1} (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 ^{Note 2} (kgm ²)				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 ^{Note 3}	
Intake air (Nl/min)				60 ^{Note 4}	

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.

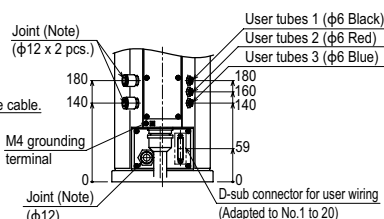
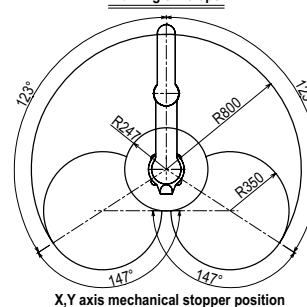
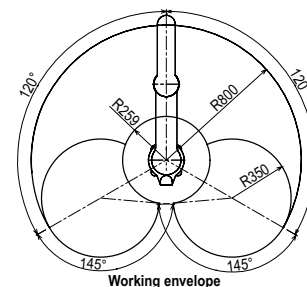
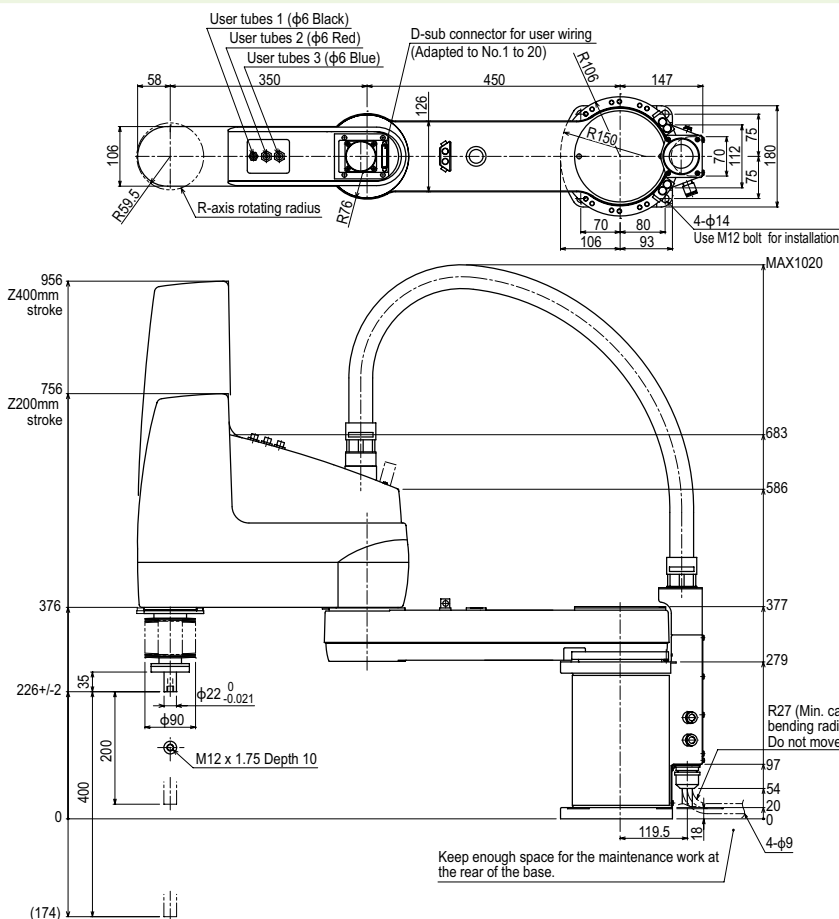
Controller

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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YK800XC



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

YK1000XC

Clean type: Large type



- Arm length 1000mm
- Maximum payload 20kg

Ordering method

YK1000XC			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
	200: 200mm 400: 400mm	3L: 3.5m 5L: 5m 10L: 10m								

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

Basic specifications

	X axis	Y axis	Z axis	R axis
Axis specifications				
Arm length (mm)	550	450	200 400	—
Rotation angle (°)	+/-120	+/-145	—	+/-180
AC servo motor output (W)	800	400	400	200
Repeatability ^{Note 1} (XYZ: mm) (R: °)	+/-0.02		+/-0.01	+/-0.005
Maximum speed (XYZ: m/sec) (R: °/sec)	8.0		1.7	600
Maximum payload (kg)	20			
Standard cycle time: with 2kg payload (sec)	0.60			
R-axis tolerable moment of inertia ^{Note 2} (kgm ²)	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)	59			
Degree of cleanliness	CLASS 10 ^{Note 3}			
Intake air (Nl/min)	60 ^{Note 4}			

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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YK1000XC

