



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

CLEAN ROBOTS

CLEAN

TYPE

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CLEAN ROBOTS SPECIFICATION SHEET

Clean single-axis robots

●TRANSERVO

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

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

●FLIP-XC

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

- Intake air 20 to 90Nℓ/min

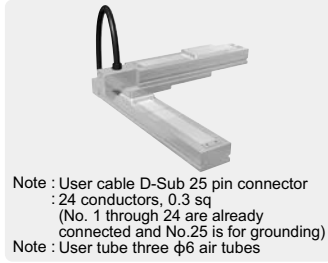
Model	AC servo motor output (W)	Repeatability (mm)	Lead (mm)	Payload (kg)		Stroke (mm) and maximum speed (mm/sec)																			
				Horizontal	Vertical	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	
C4L / C4LH	30	+/-0.02	12	4.5	1.2	720																			
			6	6	2.4	360																			
			2	6	7.2	120																			
C5L / C5LH	30	+/-0.02	20	3	–	1000																			
			12	5	1.2	800																			
			6	9	2.4	400																			
C6L	60	+/-0.02	20	10	–	1000																			
			12	12	4	800																			
			6	30	8	400																			
C8	100	+/-0.02	20	12	–	1000						900	800	700	650										
			12	20	4	720						648	540	468	432	360									
			6	40	8	360						324	270	234	216	180									
C8L	100	+/-0.01	20	20	4	1000						900	800	700	650	600									
			10	40	8	600						510	450	390	360	330	300								
			5	50	16	300						255	225	195	180	165	150								
C8LH	100	+/-0.01	20	30	–	1000						900	800	700	650	600	550								
			10	60	–	600						510	450	390	360	330	300	270							
			5	80	–	300						255	225	195	180	165	150	135							
C10	100	+/-0.01	20	20	4	1000						950	850	750	600										
			10	40	10	500						475	425	375	300										
			5	60	20	250						237	212	187	150										
C14	100	+/-0.01	20	30	4	1000						950	850	750	600										
			10	55	10	500						475	425	375	300										
			5	80	20	250						237	212	187	150										
C14H	200	+/-0.01	20	40	8	1000						950	850	750	600										
			10	80	20	500						475	425	375	300										
			5	100	30	250						237	212	187	150										
C17	400	+/-0.01	20	80	15	1000						800													
			10	120	35	500						400													
C17L	600	+/-0.02	50	50	10																				
C20	600	+/-0.01	20	120	25	1000						800													
			10	–	45	500						400													

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

Clean cartesian robots

● XY-XC

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

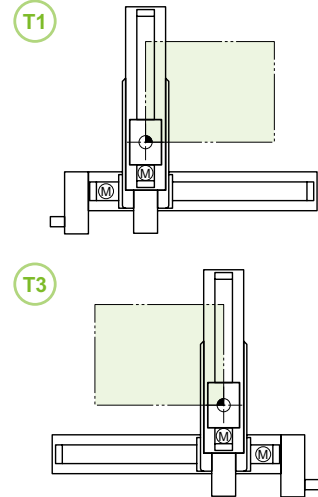


Type	Model	Axis	Moving range	Maximum speed (mm/sec)	Maximum payload (kg)	Detailed info page
2 axes	SXYXC	X	150 to 1050mm	1000	20	P.480
		Y	150 to 650mm	1000		
3 axes	SXYXC (ZSC12)	X	150 to 1050mm	1000	3	P.482
		Y	150 to 650mm	1000		
		Z	150mm	1000		
	SXYXC (ZSC6)	X	150 to 1050mm	1000	5	P.482
		Y	150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

Arm variations



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



Clean SCARA robots

● YK-XC/YK-XGC/YK-XGLC

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

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

- Bellows cover fitted in axial tip



Passed 20 million stroke durability test

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

SSC04

Slider type



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

Ordering method

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

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

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

Basic specifications

Motor	42 □ Step motor
Repeatability ^{Note 1} (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 ^{Note 2}
Intake air (Nl/min)	Lead 12 Lead 6 Lead 2 50 30 15

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

Allowable overhang

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

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

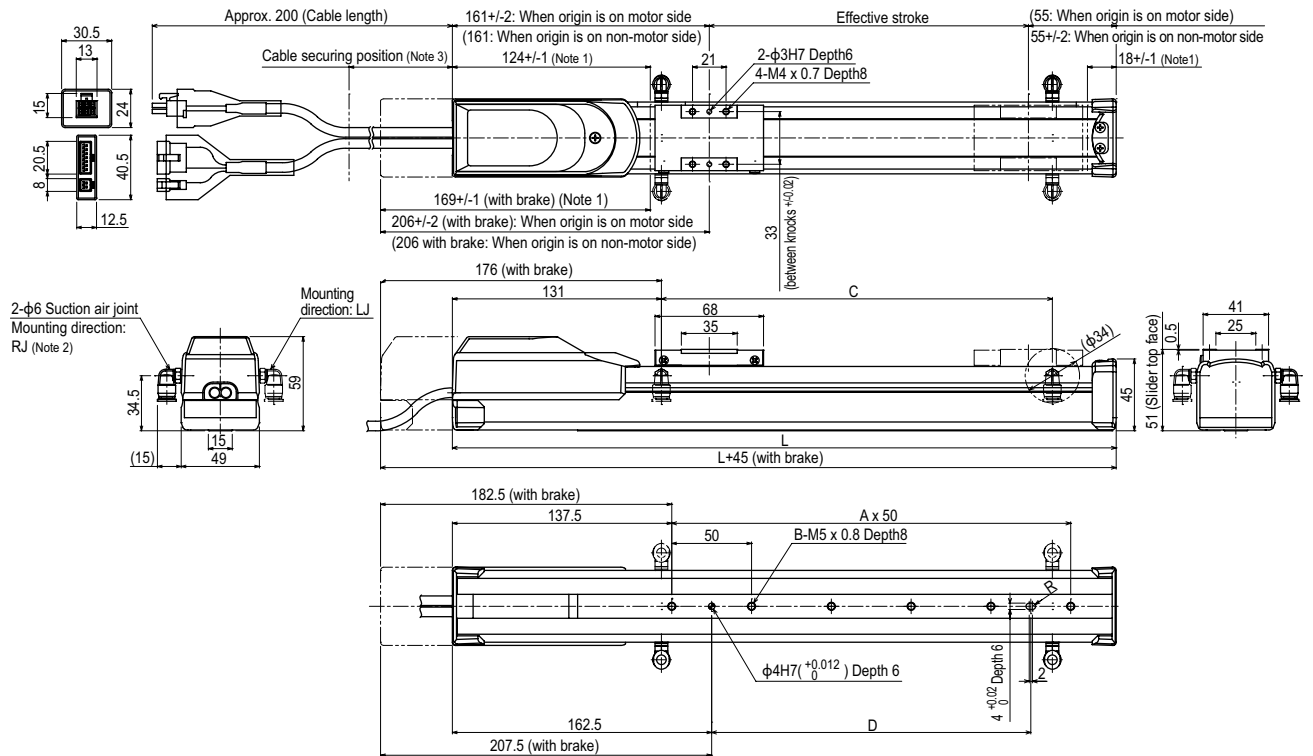
Static loading moment

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

Controller

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

SSC04



Effective stroke	50	100	150	200	250	300	350	400
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) ^{Note 5}	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.

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SSC05

Slider type



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

Ordering method

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

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

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

Basic specifications

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	Lead 20	Lead 12	Lead 6	
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 20	6kg	335	47	95	6kg	63	31	263	2kg	148	148
Lead 12	4kg	503	78	165	4kg	134	63	496			
Lead 6	8kg	332	37	79	6kg	76	35	377			
Lead 20	10kg	344	29	62	8kg	47	22	355			

Static loading moment

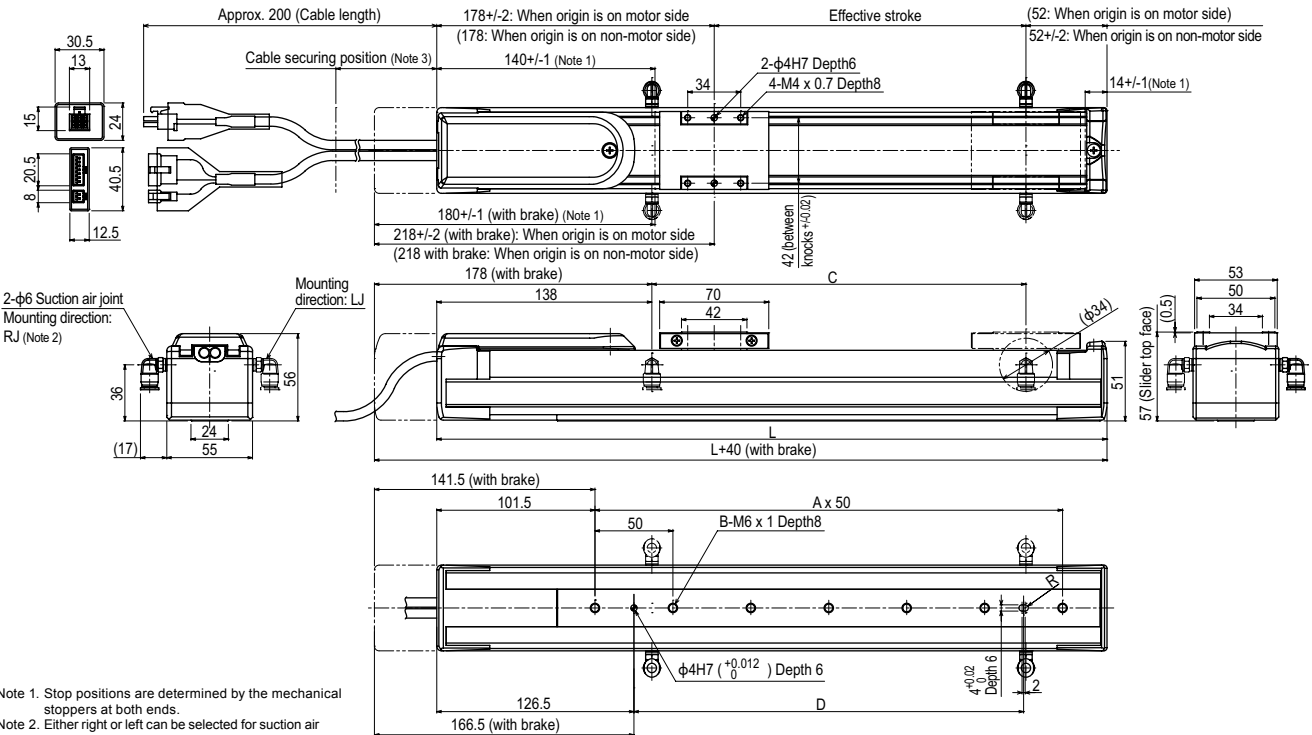
MY	MP	MR
25	33	30

Controller

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

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

SSC05



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

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

SSC05H

Slider type



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

Ordering method

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

Model	Lead	Type	Brake	Direction of air coupler installation	Origin position	Stroke	Cable length	S2	I/O	SH	Battery	SD	I/O cable
	20: 20mm 12: 12mm 6: 6mm	S: Straight	N: With no brake B: With brake	R: Right (Standard) L: Left	N: Standard Z: Non-motor side	50 to 800 (50mm pitch)	1L: 1m 3L: 3m 5L: 5m 10L: 10m	Robot positioner S2: TS-S2	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	SH: TS-SH	B: With battery (Absolute) N: None (Incremental)	Robot driver SD: TS-SD	1 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.522 for DIN rail mounting bracket.
 Note 5. Select this selection when using the gateway function. For details, see P.66.

Basic specifications

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

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

Allowable overhang

	A	B	C
Lead 20	2kg 599	225	291
Lead 12	4kg 366	109	148
Lead 6	6kg 352	71	104
Lead 12	4kg 500	118	179
Lead 6	6kg 399	79	118
Lead 6	8kg 403	56	88
Lead 6	6kg 573	83	136
Lead 6	8kg 480	61	100
Lead 6	10kg 442	47	78
Lead 6	12kg 465	39	64

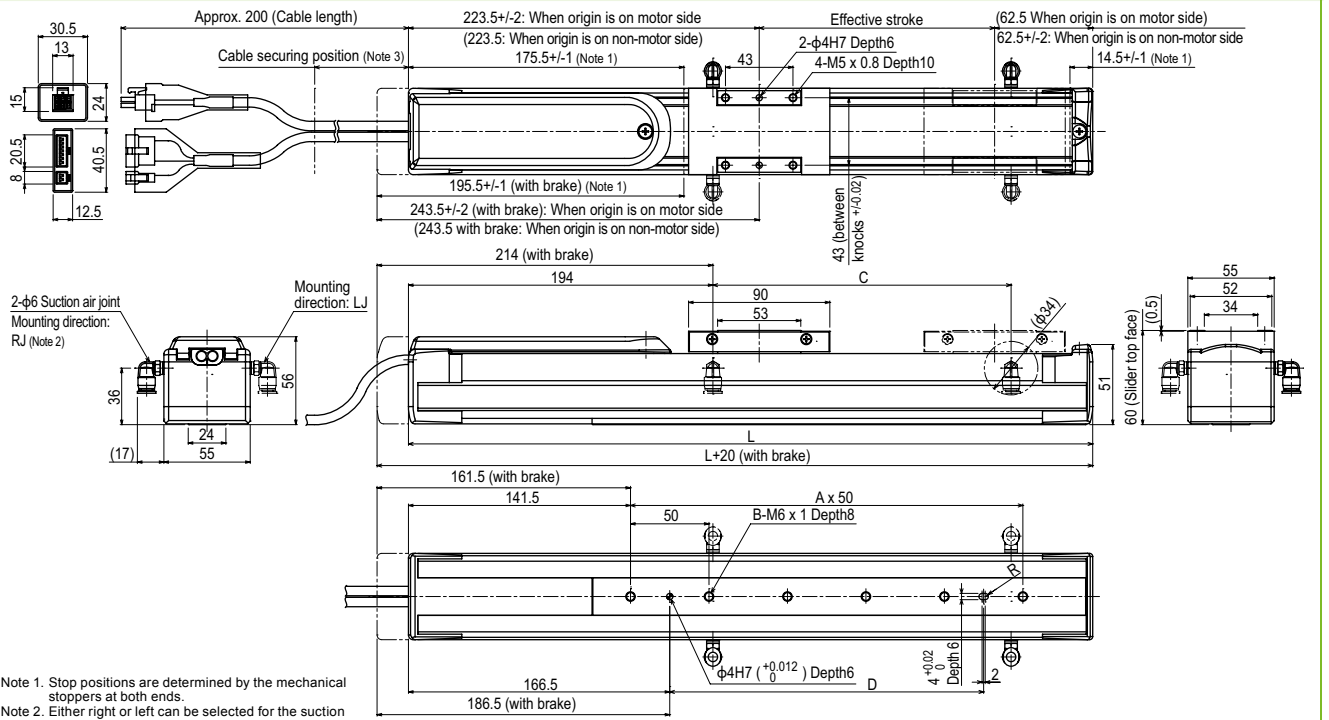
	A	B	C
Lead 20	2kg 262	203	554
Lead 12	4kg 118	88	309
Lead 6	6kg 71	49	262
Lead 12	4kg 146	96	449
Lead 6	6kg 85	55	334
Lead 6	8kg 55	34	305
Lead 6	6kg 101	62	519
Lead 6	8kg 64	39	413
Lead 6	10kg 43	26	355
Lead 6	12kg 28	17	338

	A	C
Lead 12	1kg 458	459
Lead 6	2kg 224	224
Lead 6	2kg 244	245
Lead 6	4kg 113	113

	MY	MP	MR
	32	38	34

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

SSC05H

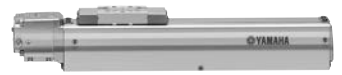


Note 1. Stop positions are determined by the mechanical stoppers at both ends.
 Note 2. Either right or left can be selected for the suction air joint mounting direction. This drawing shows the RJ (standard) direction.
 Note 3. Secure the cable with a tie-band 100mm or less from unit's end face to prevent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

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

Controller

TS-S2 ▶ 514 TS-SH ▶ 514 TS-SD ▶ 524



C5L

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

Ordering method

C5L							ERCD	
Model	Lead designation 20: 20mm 12: 12mm 6: 6mm	Brake ^{Note 1} 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 ^{Note 2} 1K: 1m 3K: 3.5m 5K: 5m 10K: 10m	Controller	I/O connector specification CN1: I/O flat cable 1m (Standard) CN2: Twisted-pair cable 2m (pulse train function)

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

Basic specifications

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	Vertical	
	3	5	9
	-	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. CLASS 10 (0.1 μ m) FED-STD-209D or equivalent when a suction blower is used.
 Note 3. The necessary intake amount varies depending on the use conditions and environment.

Allowable overhang

	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)	
	A	B	C	A	B	C	A	C
Lead 20	1584	324	745	679	303	1505		
Lead 12	699	104	251	215	87	605	1.2kg	246
Lead 6	1166	159	406	364	126	1073	2.4kg	110
Lead 20	551	59	155	123	28	438		
Lead 12	1194	104	294	3kg	259	72	354	
Lead 6	624	31	89	9kg	50	0	154	

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

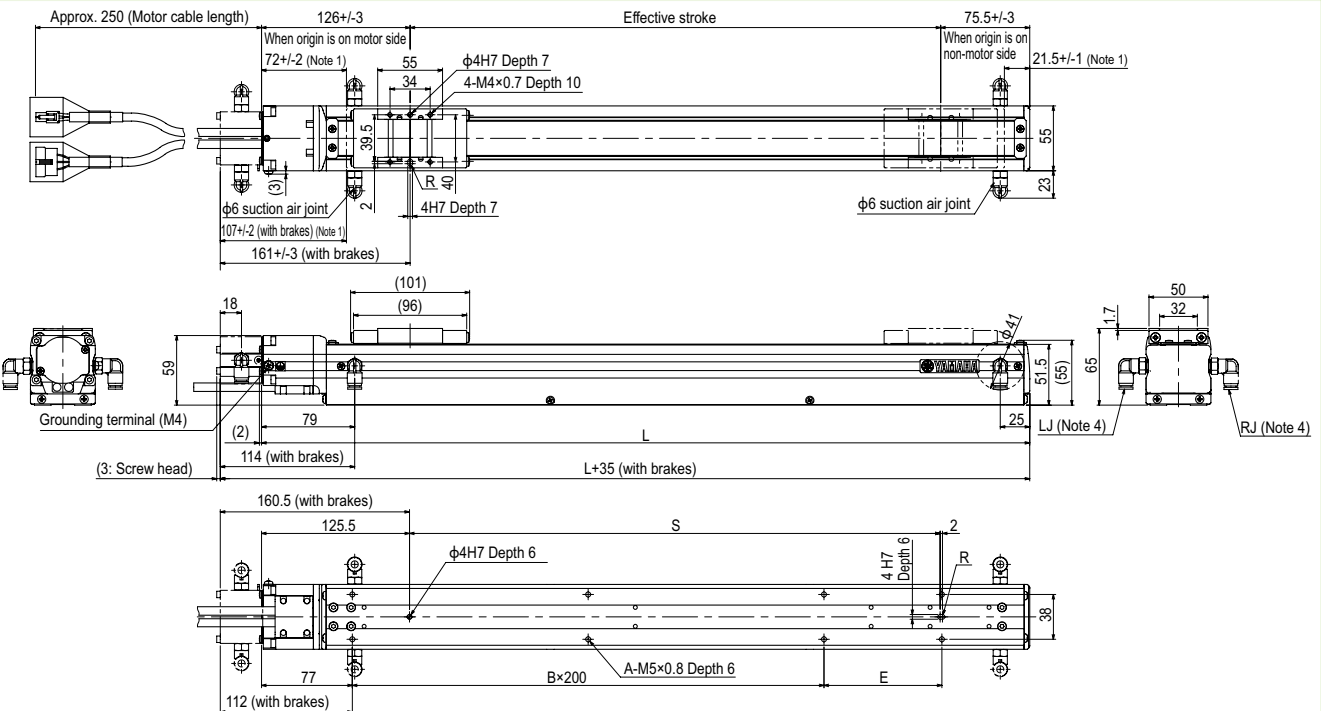
Static loading moment

(Unit: N·m)		
MY	MP	MR
30	34	40

Controller

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

C5L



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

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

C5LH

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



Ordering method

C5LH	Model	Lead designation 20: 20mm 12: 12mm 6: 6mm	Brake Note 1 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 Note 2 3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	TSX	Positioner Note 3 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 Note 4	Battery B: With battery (Absolute) N: None (Incremental)
	SR1-X	05						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 B: With battery (Absolute) N: None (Incremental)	
	RDV-X	2						Driver	Power supply voltage 2: AC200V		05	Driver: Power capacity 05: 100W or less	

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

Basic specifications

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

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

Allowable overhang Note

	Horizontal installation (Unit: mm)	Wall installation (Unit: mm)	Vertical installation (Unit: mm)
	A B C	A B C	A C
Lead 20	1kg 1099 324 645	1kg 602 303 950	
	3kg 488 104 241	3kg 197 87 432	
Lead 12	2kg 916 159 398	2kg 347 141 800	1.2kg 240 239
	5kg 436 60 152	5kg 119 44 355	
Lead 6	3kg 1194 105 294	3kg 259 87 950	2.4kg 109 110
	9kg 624 31 89	9kg 50 15 385	

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

Static loading moment

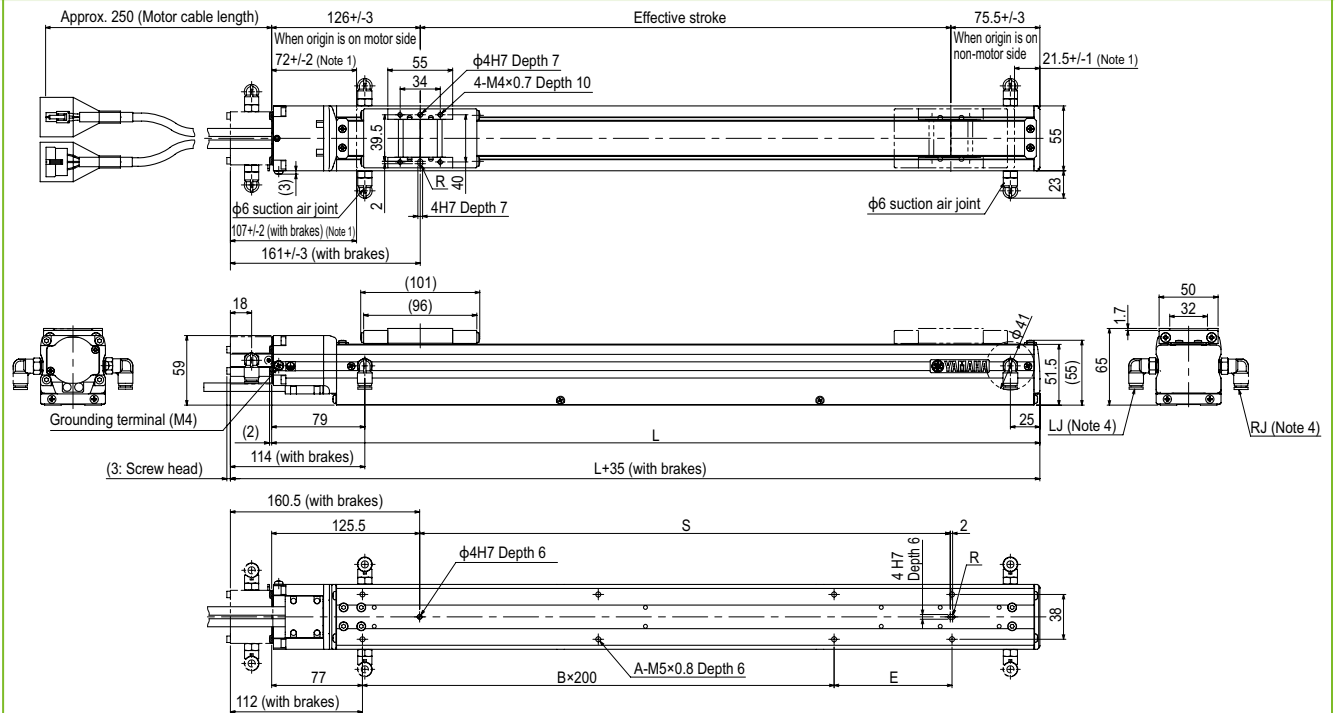
	MY	MP	MR
	30	34	40

(Unit: N·m)

Controller

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

C5LH

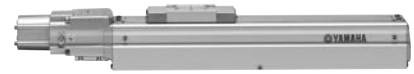


Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	251.5	301.5	351.5	401.5	451.5	501.5	551.5	601.5	651.5	701.5	751.5	801.5	851.5	901.5	951.5	1001.5
A	4	4	4	6	6	6	6	8	8	8	8	10	10	10	10	12
B	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4
E	100	200	200	100	100	200	200	100	100	200	200	100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

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

C6L

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



Ordering method

C6L

Model	Lead designation 20: 20mm 12: 12mm 6: 6mm	Brake Note 1 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 Note 2 3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)
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TSX

Positioner Note 3 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 Note 4	Battery 3: With battery (Absolute) N: None (Incremental)
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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 3: With battery (Absolute) N: None (Incremental)
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RDV-X

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

Basic specifications

AC servo motor output (W)	60
Repeatability Note 1 (mm)	+/-0.02
Deceleration mechanism	Ball screw ϕ 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) Note 2
Intake air (Nl/min) Note 3	80 50 30

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

Allowable overhang

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

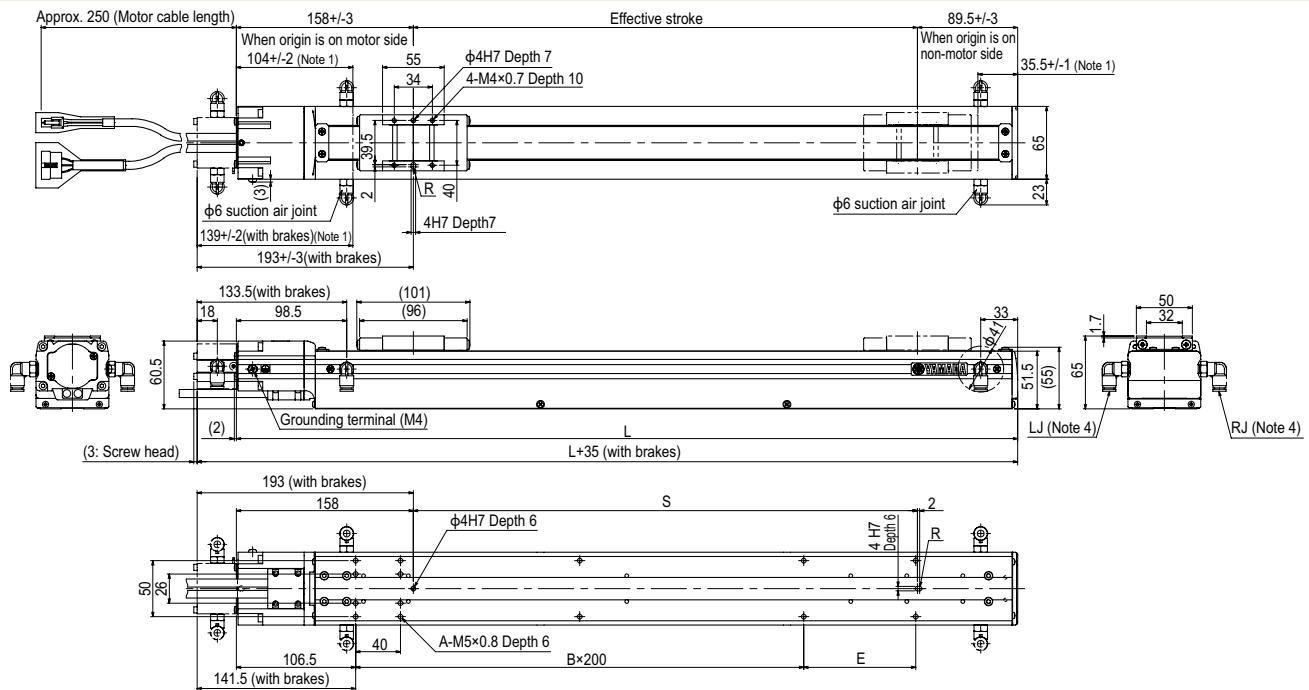
Static loading moment

(Unit: N·m)		
MY	MP	MR
35	40	50

Controller

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

C6L



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	297.5	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5	1047.5
A	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18
B	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4
E	150	200	200	100	100	200	200	100	100	200	200	100	100	200	200	100
S	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Weight (kg) Note 3	2.6	2.9	3.1	3.4	3.7	4.0	4.3	4.6	4.9	5.2	5.4	5.7	6.0	6.3	6.6	6.8
Maximum speed for each stroke Note 5 (mm/sec)	1000															
	-															
	800															
	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 ϕ 6 intake air joint. (The left side is the standard.)
 Note 5. When the stroke is longer than 600mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

C8

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



Ordering method

C8

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

TSX	SR1-X	RDV-X
Positioner ^{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)	

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

Basic specifications

AC servo motor output (W)	100
Repeatability ^{Note 1} (mm)	+/-0.02
Deceleration mechanism	Ball screw ϕ 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}

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

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

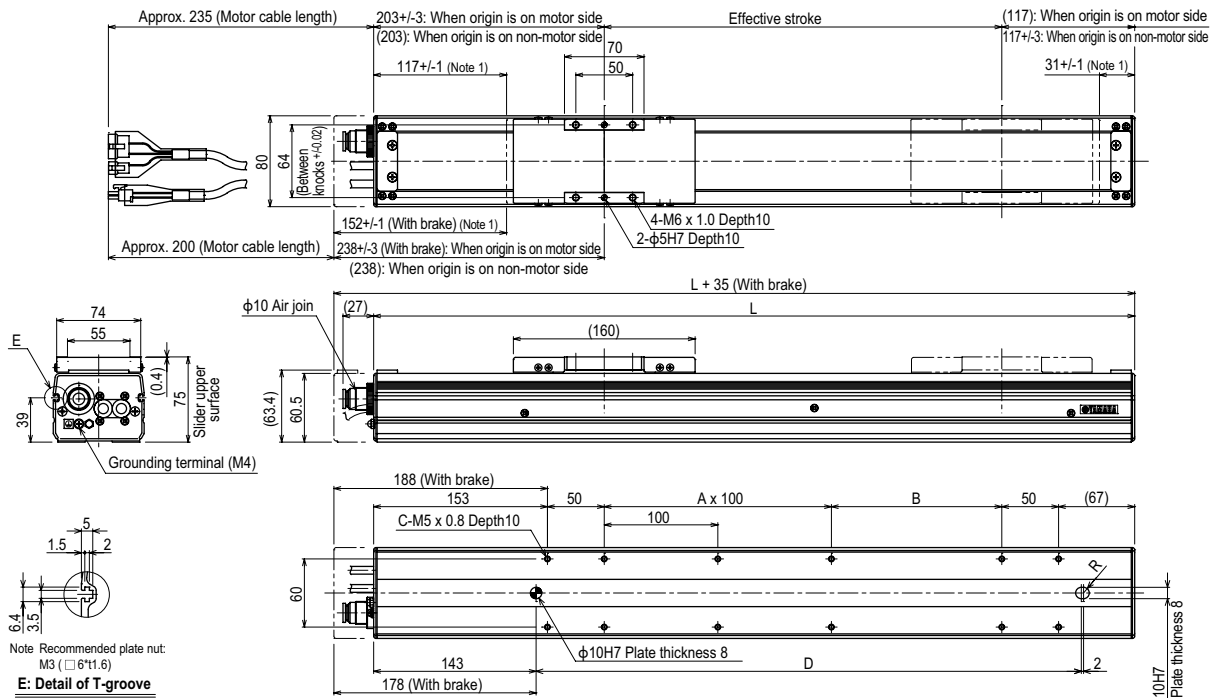
Static loading moment

(Unit: N·m)		
MY	MP	MR
70	95	110

Controller

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

C8



Effective stroke	Stroke (mm)														
	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}	Lead 20	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
	1000											950	800	700	650
Maximum speed ^{Note 4} (mm/sec)	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%	60%

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

C8L

Origin on the non-motor side is selectable

Ordering method

C8L	Model	Lead 20: 20mm 10: 10mm 5: 5mm	Brake No entry: With no brake BK: With brake	Option Origin position change None: Standard Z: Non-motor side	Stroke 150 to 1050 (50mm pitch)	Cable length ^{Note 1} 3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	TSX	Positioner ^{Note 2} 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 ^{Note 3}	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	Driver: Power capacity 05: 100W or less	RBR1	Regenerative unit					

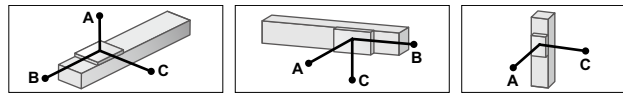
Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.614 for details on robot cable.
 Note 2. See P.522 for DIN rail mounting bracket.
 Note 3. Select this selection when using the gateway function. For details, see P.66.

Basic specifications

AC servo motor output (W)	100
Repeatability ^{Note 1} (mm)	+/-0.01
Deceleration mechanism	Ball screw ϕ 15
Ball screw lead (mm)	20 10 5
Maximum speed ^{Note 2} (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 ^{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 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.

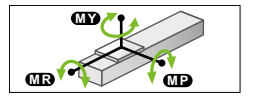
Allowable overhang



Horizontal installation (Unit: mm)	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)				
	A	B	C	A	B	C	A	B	C		
Lead 20	5kg	259	122	179	5kg	147	100	220	2kg	255	260
	10kg	149	55	89	10kg	53	32	97	4kg	111	115
	15kg	100	33	56	15kg	17	10	39	2kg	300	302
	20kg	95	22	41	20kg	0	0	0	4kg	131	133
Lead 10	10kg	251	61	130	10kg	87	41	197	6kg	75	77
	20kg	127	25	55	20kg	10	4	37	8kg	47	49
	30kg	90	14	31	30kg	0	0	0	5kg	113	114
	40kg	69	8	18	40kg	0	0	0	10kg	37	38
Lead 5	20kg	256	29	76	20kg	24	9	152	15kg	12	12
	30kg	188	16	43	30kg	0	0	0	16kg	9	9
	40kg	96	10	28	40kg	0	0	0			
	50kg	33	6	18	50kg	0	0	0			

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

Static loading moment

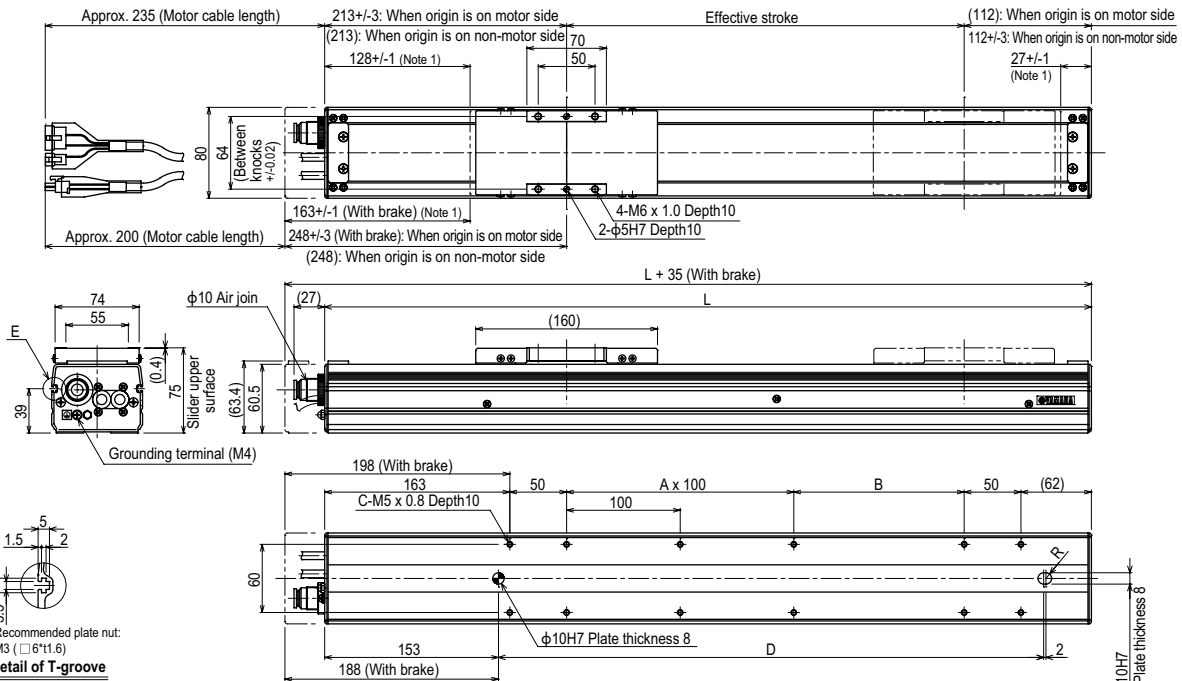


(Unit: N·m)		
MY	MP	MR
70	95	110

Controller

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

C8L



Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
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) ^{Note 3}	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.4	6.7	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.2	9.5	
Maximum speed ^{Note 4} (mm/sec)	1000																			
	Lead 20	-																		
	Lead 10	600																		
	Lead 5	300																		
Speed setting	-																			
	85% 75% 65% 60% 55% 50% 45% 40%																			

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

C8LH

Origin on the non-motor side is selectable

Ordering method

C8LH

Model	Lead	Option	Stroke	Cable length ^{Note 1}	TSX	SR1-X	RDV-X	Battery
	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 ^{Note 2} TS-X	Controller SR1-X	Driver RDV-X	Battery
					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	B: With battery (Absolute) N: None (Incremental)
					LCD monitor No entry: None L: With LCD	Usable for CE No entry: Standard E: CE marking	Driver: Power capacity 05: 100W or less	B: With battery (Absolute) N: None (Incremental)
					I/O selection NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board ^{Note 3}	I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	Regenerative unit RBR1	B: With battery (Absolute) N: None (Incremental)

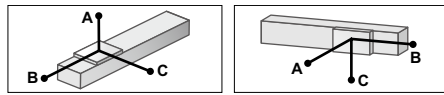
Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.614 for details on robot cable.
 Note 2. See P.522 for DIN rail mounting bracket.
 Note 3. Select this selection when using the gateway function. For details, see P.66.

Basic specifications

AC servo motor output (W)	100
Repeatability ^{Note 1} (mm)	+/-0.01
Deceleration mechanism	Ball screw $\phi 15$
Ball screw lead (mm)	20 10 5
Maximum speed ^{Note 2} (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 ^{Note 3}
Intake air (N ℓ /min)	30 to 90 ^{Note 4}

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.

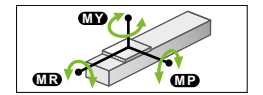
Allowable overhang ^{Note}



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

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

Static loading moment

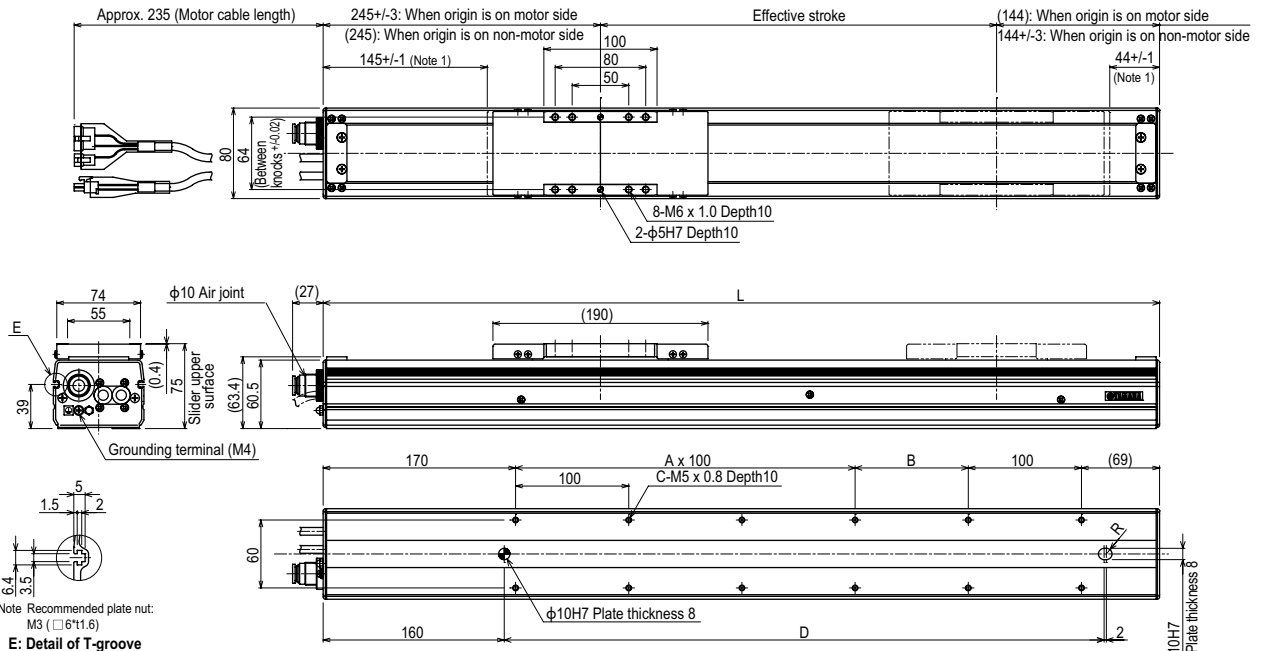


(Unit: N·m)		
MY	MP	MR
128	163	143

Controller

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

C8LH



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

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

C10

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



Ordering method

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

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

Basic specifications

AC servo motor output (W)	100
Repeatability ^{Note 1} (mm)	+/-0.01
Deceleration mechanism	Ball screw φ15
Ball screw lead (mm)	20 10 5
Maximum speed (mm/sec)	1000 500 250
Maximum payload (kg)	Horizontal 20 40 60 Vertical 4 10 20
Rated thrust (N)	84 169 339
Stroke (mm)	150 to 1050 (50mm pitch)
Overall length (mm)	Horizontal Stroke+283 Vertical Stroke+313
Maximum outside dimension of body cross-section (mm)	W104 × H85
Cable length (m)	Standard: 3.5 / Option: 5, 10
Degree of cleanliness	CLASS 10 ^{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 750mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.
 Note 3. Per 1cf (0.1um base), when suction blower is used.
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

Allowable overhang

Installation	Lead	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)	
		A	B	C	A	B	C	A	C
Horizontal	Lead 20	5kg	1875	530	510	5kg	496	451	1826
		10kg	1079	247	242	10kg	218	168	1002
		20kg	628	106	107	20kg	78	27	497
	Lead 10	15kg	765	156	164	10kg	230	170	1036
		30kg	425	62	66	20kg	80	29	506
Wall	Lead 10	15kg	350	38	42	30kg	30	0	311
	Lead 5	30kg	960	63	68	10kg	234	170	2716
		50kg	565	25	28	20kg	82	29	1206
		60kg	470	16	17	30kg	31	0	711
	Lead 5	30kg	31	0	711				
Vertical	Lead 20	1kg	2461	2492	1kg	2461	2492		
		2kg	1213	1244	2kg	1213	1244		
		4kg	585	617	4kg	585	617		
	Lead 10	4kg	627	658	4kg	627	658		
		8kg	280	312	8kg	280	312		

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

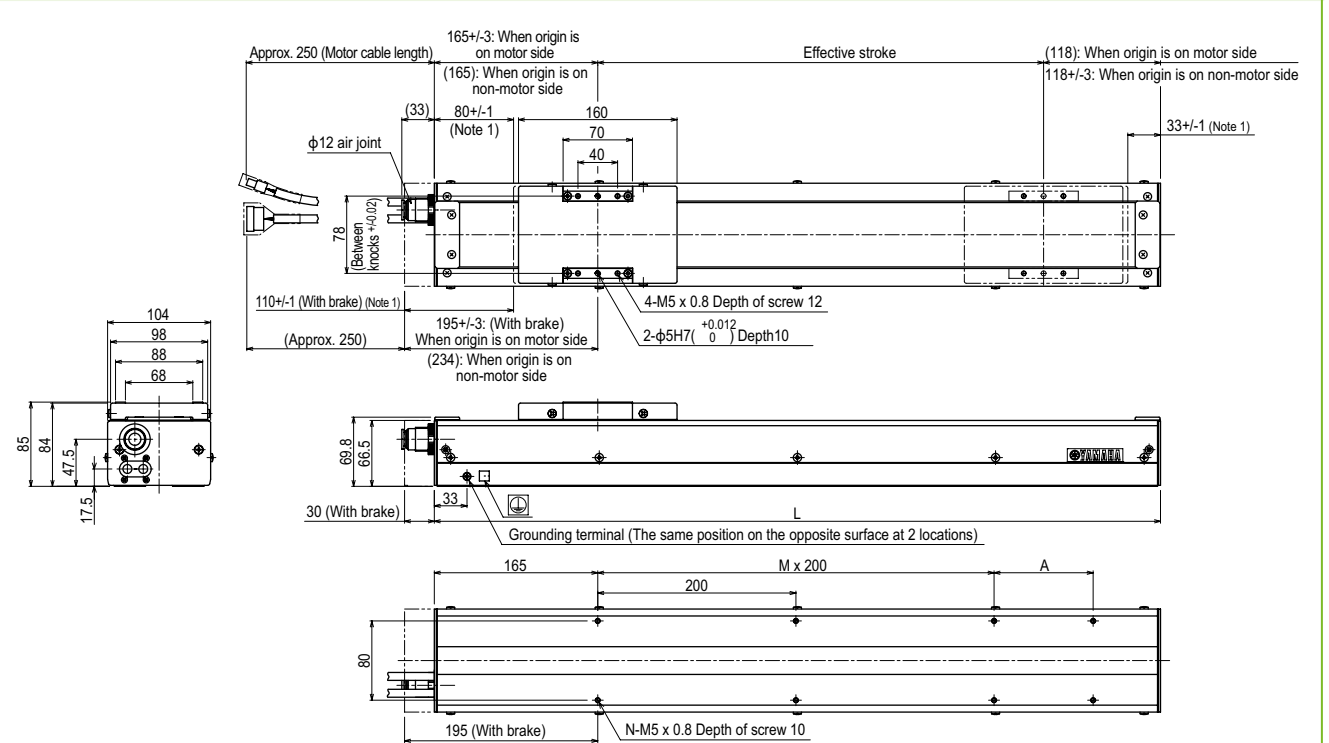
(Unit: N·m)		
MY	MP	MR
119	119	105

Controller

Controller	Operation method
SR1-X05 ^{Note}	Programming / I/O point trace / Remote command / Operation using RS-232C communication
RCX320	
RCX221/222	
RCX340	
TS-X105 ^{Note}	I/O point trace / Remote command
TS-X205 ^{Note}	
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) ^{Note 3}	4.4	5.0	5.5	6.1	6.7	7.3	7.8	8.4	9.0	9.6	10.1	10.7	11.3	11.9	12.4	13.0	13.6	14.2	14.7	
Maximum speed (mm/sec) ^{Note 4}	Lead 20	1000																		
	Lead 10	500																		
	Lead 5	250																		
Speed setting	95% 95% 75% 75% 60% 60% 50%																			

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

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

C14

Origin on the non-motor side is selectable



Ordering method

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

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

Basic specifications

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

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

Allowable overhang

	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C	A	C	
Lead 20	5kg 2127	1384	968	5kg 1047	968	1553	1kg 600	600	
	15kg 1177	459	425	15kg 387	264	748	2kg 1200	1200	
	30kg 1247	242	291	30kg 206	97	633	4kg 1141	885	
Lead 10	20kg 1120	349	353	20kg 299	180	658	8kg 1216	943	
	40kg 857	179	215	40kg 127	49	363	10kg 503	390	
	55kg 932	138	182	55kg 79	16	296	15kg 370	287	
Lead 5	50kg 2017	250	335	50kg 233	103	1033	20kg 268	208	
	60kg 1477	134	192	60kg 75	13	433			
	80kg 1452	106	157	80kg 35	0	242			

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

Static loading moment

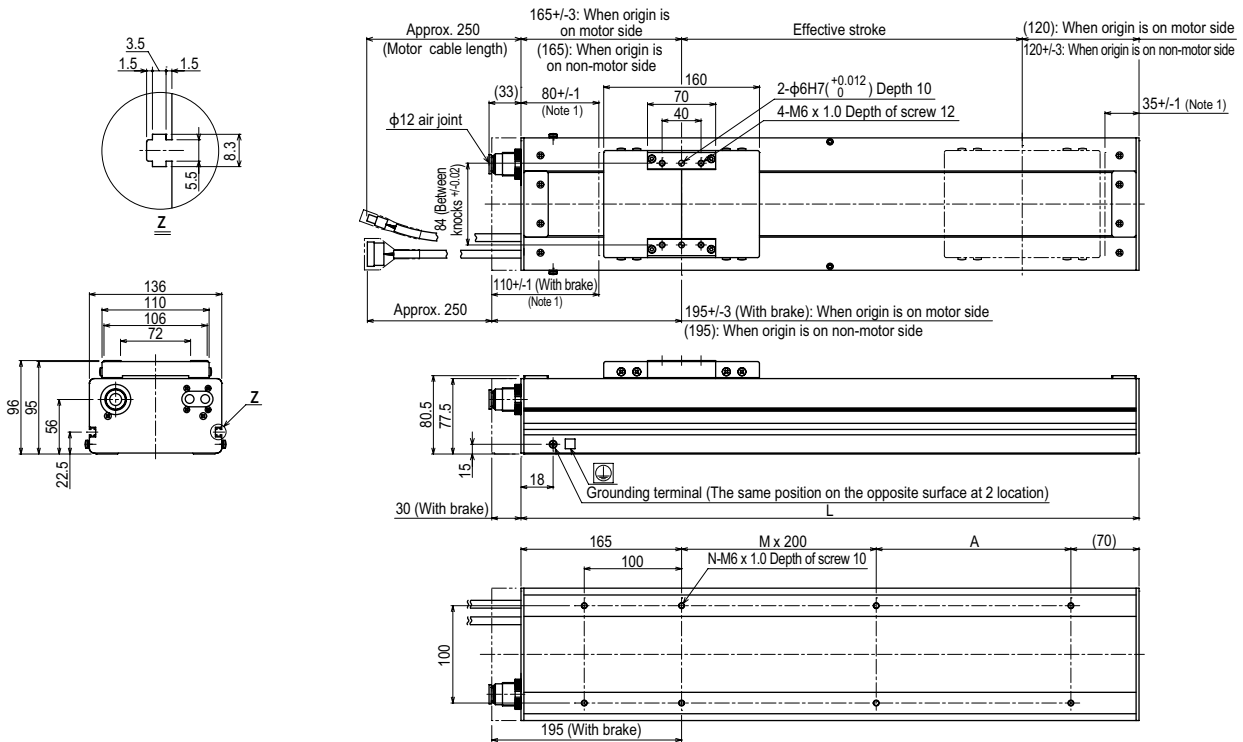
(Unit: N·m)		
MY	MP	MR
232	233	204

Controller

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

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

C14



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

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

Controller

SR1-X ▶ 540 TS-X ▶ 514 RDV-X ▶ 528

C14H

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



Ordering method

C14H

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

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

Basic specifications

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

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

Allowable overhang

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

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

Static loading moment

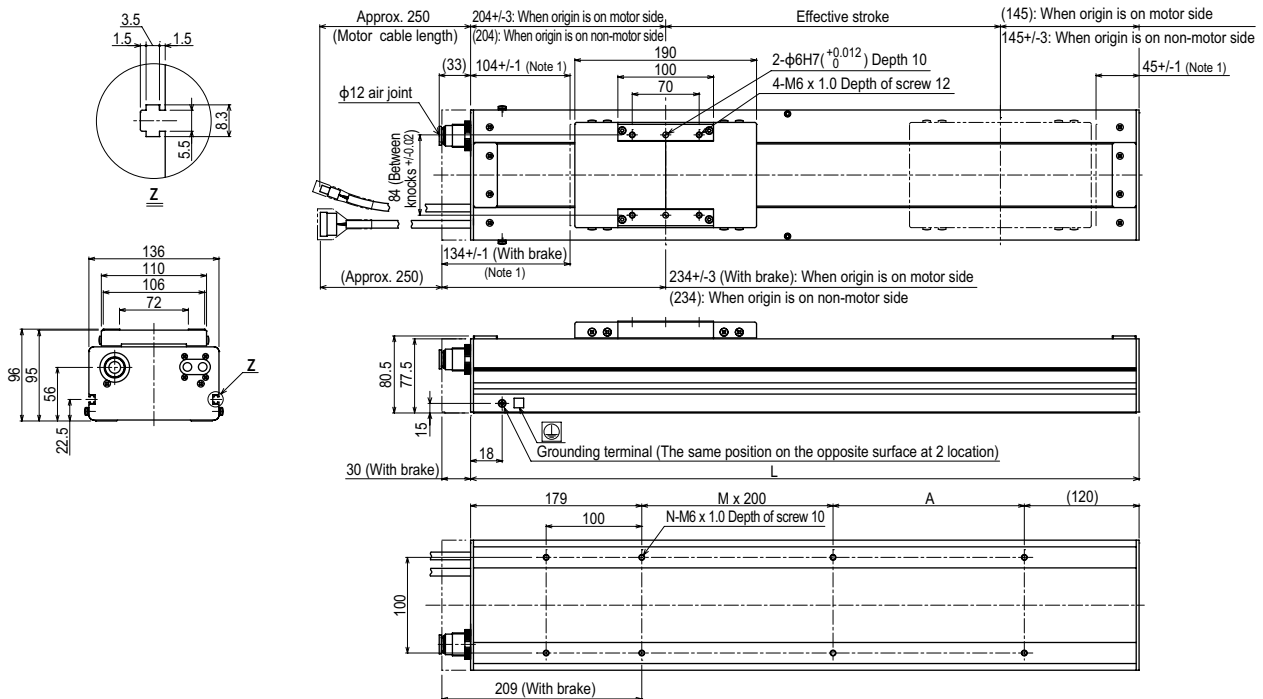
(Unit: N·m)		
MY	MP	MR
293	294	258

Controller

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

Note. Regenerative unit is required when used vertically.

C14H



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

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

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



Ordering method

C17

Model	Lead	Brake	Option	Stroke	Cable length	Positioner	220	Regenerative unit	LCD monitor	I/O selection	Battery
	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	Driver: Power supply voltage / Power capacity 220: 200V/400 to 600W	No entry: None R: With RGT	No entry: None L: With LCD	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	N: None B: With battery (Absolute) I: None (Incremental)
SR1-X						Controller	20	Usable for CE	Regenerative unit	I/O selection	Battery
						Driver: Power capacity 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)
RDV-X						Driver	2		20		Regenerative unit
						Power supply voltage 2: AC200V			Driver: Power capacity 20: 400W or less		RBR1 (Horizontal) RBR2 (Vertical)

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

Basic specifications

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

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

Allowable overhang

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

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

Static loading moment

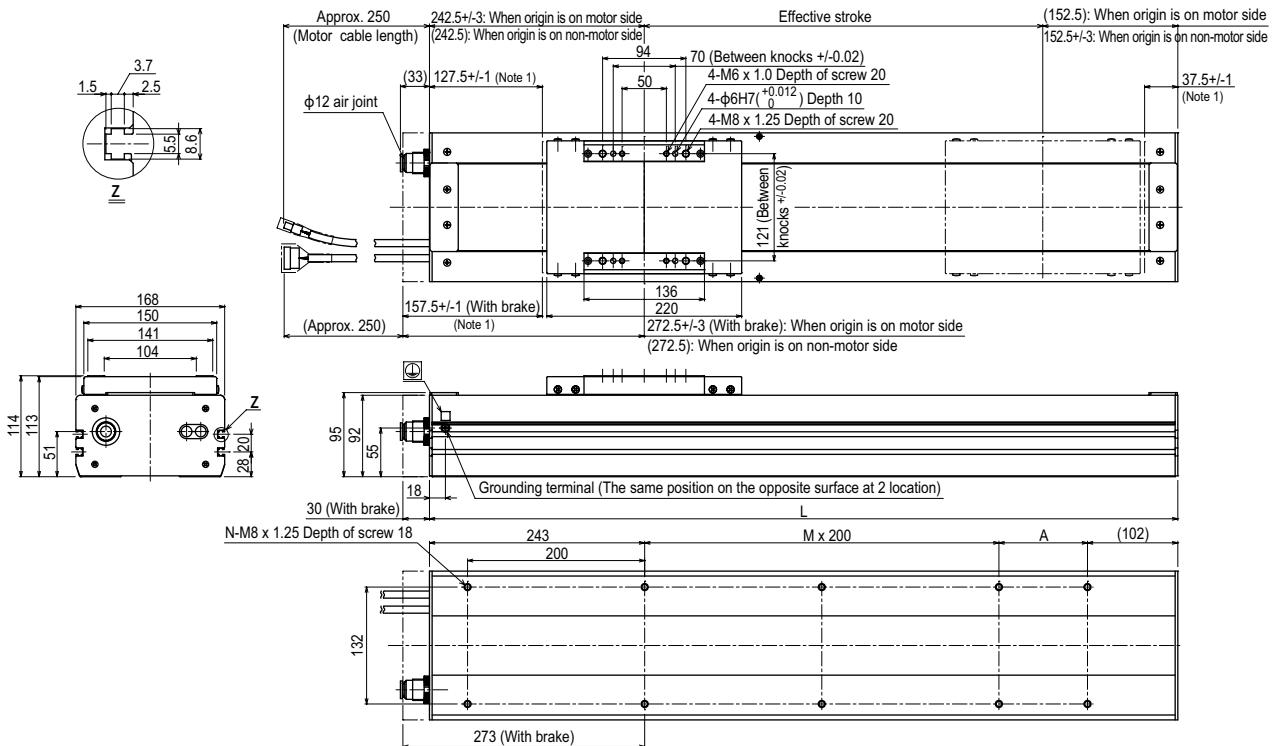
(Unit: N·m)		
MY	MP	MR
1032	1034	908

Controller

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

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

C17



Effective stroke	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
L	595	645	695	745	795	845	895	945	995	1045	1095	1145	1195	1245	1295	1345	1395	1445	1495	1545	1595	1645
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6
N	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18
Weight (kg)	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)	1000												800									
Lead 20	500												400									
Lead 10	-												80%									
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 R50.
 Note 3. Weight of models with no brake. The weight of brake-attached models is 1.5 kg heavier than the models with no brake shown in the table.

Note 4. When the stroke is longer than 950mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

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

C17L

Origin on the non-motor side is selectable

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

Ordering method

C17L - 50

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

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

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

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

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

Basic specifications

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

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

Allowable overhang

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

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

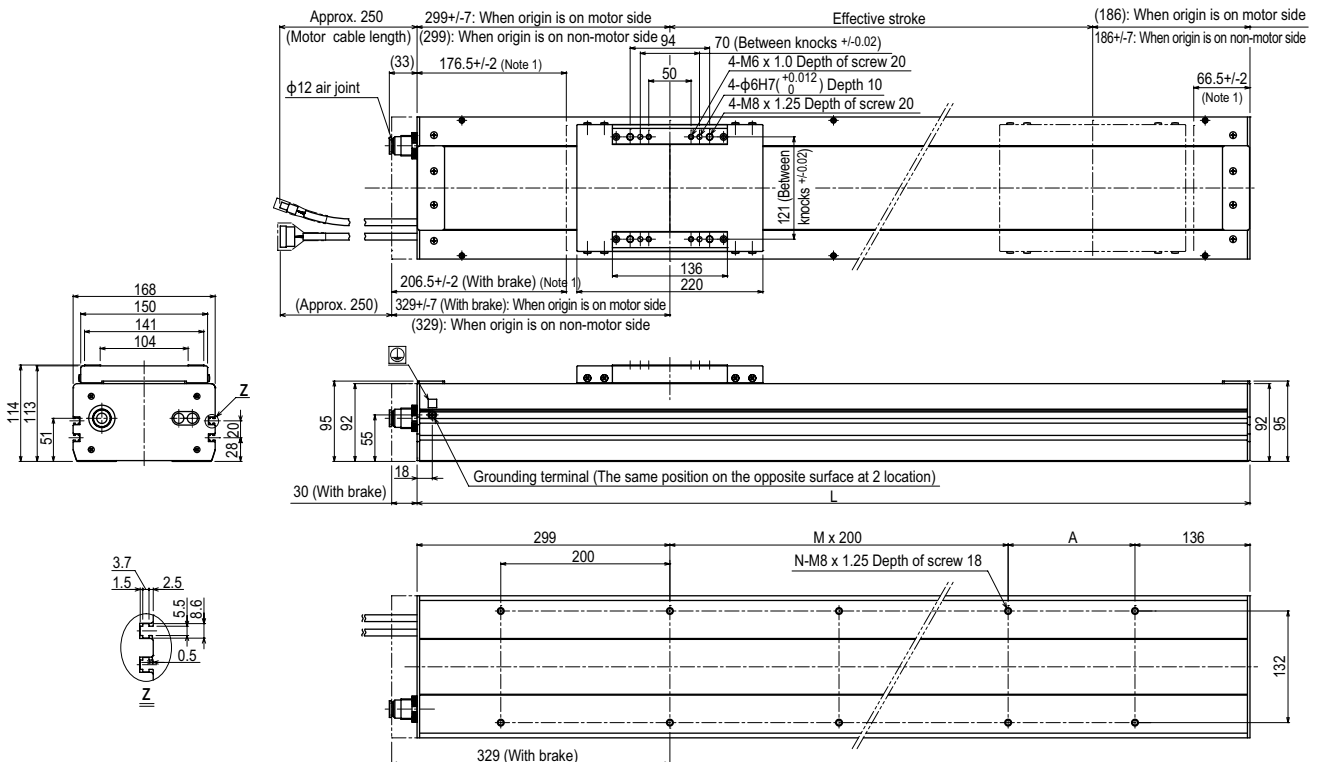
Static loading moment

(Unit: N·m)		
MY	MP	MR
1032	1034	908

Controller

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

C17L



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

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

C20

● Origin on the non-motor side is selectable



Ordering method

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

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

Basic specifications

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

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

Allowable overhang

Horizontal installation (Unit: mm)	A	B	C
	50kg	2602	869
Wall installation (Unit: mm)	A	B	C
	50kg	1144	798
Vertical installation (Unit: mm)	A	C	
	50kg	717	456

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

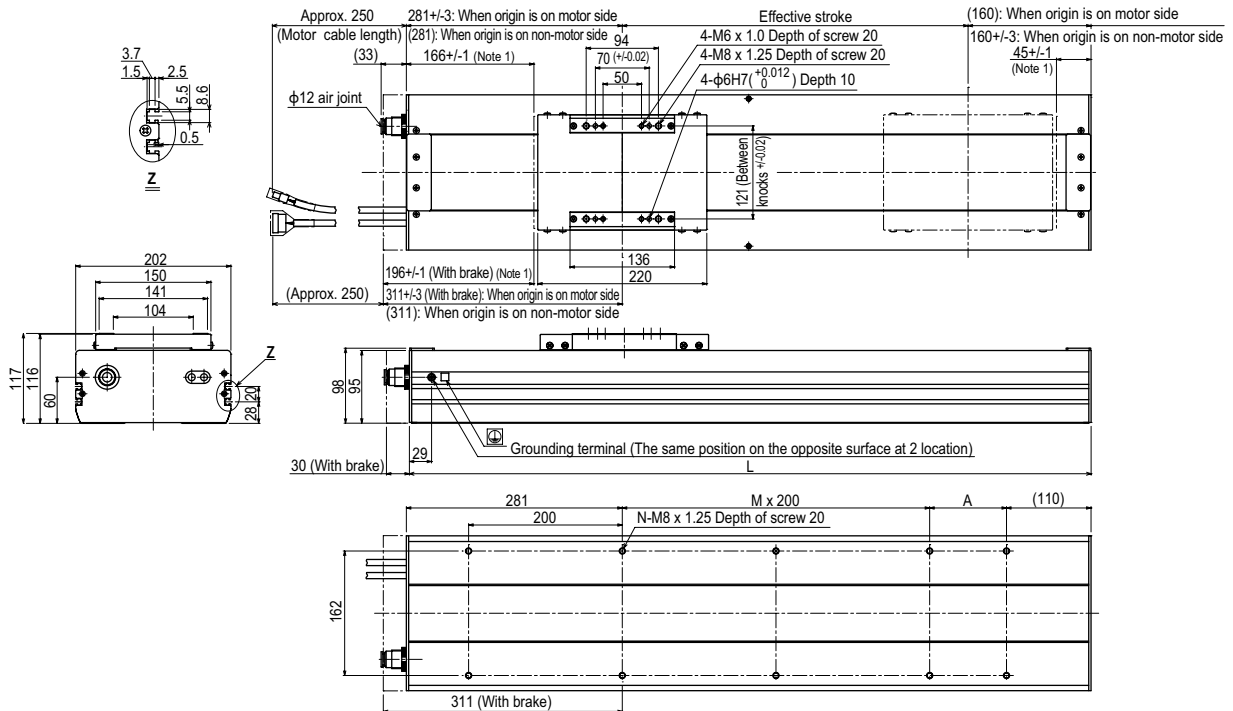
MY	MP	MR
1101	1103	968

Controller

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

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

C20



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

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

Controller

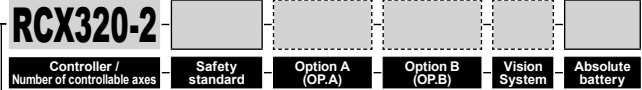
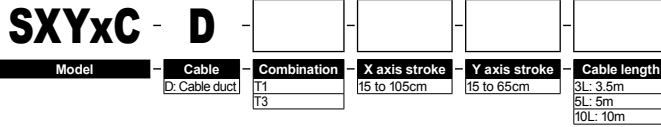
SR1-X ▶ 540 TS-X ▶ 514 RDV-X ▶ 528

SXYxC 2 axes

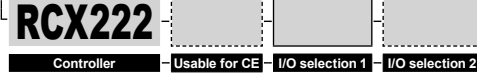
- Clean type
- Cable duct



Ordering method



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



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

Basic specifications

	X axis	Y axis
Axis construction <small>Note 1</small>	C14H	C14
AC servo motor output (W)	200	100
Repeatability <small>Note 2</small> (mm)	+/-0.01	+/-0.01
Drive system	Ball screw φ15	Ball screw φ15
Ball screw lead <small>Note 3</small> (Deceleration ratio) (mm)	20	20
Maximum speed <small>Note 4</small> (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 <small>Note 5</small>	
Intake air (Nℓ/min)	60 <small>Note 6</small>	

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

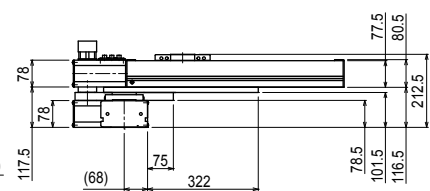
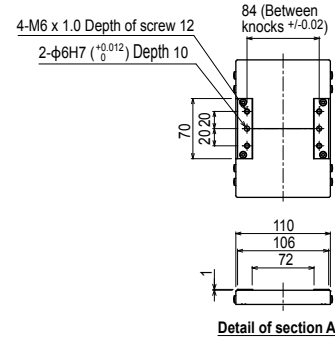
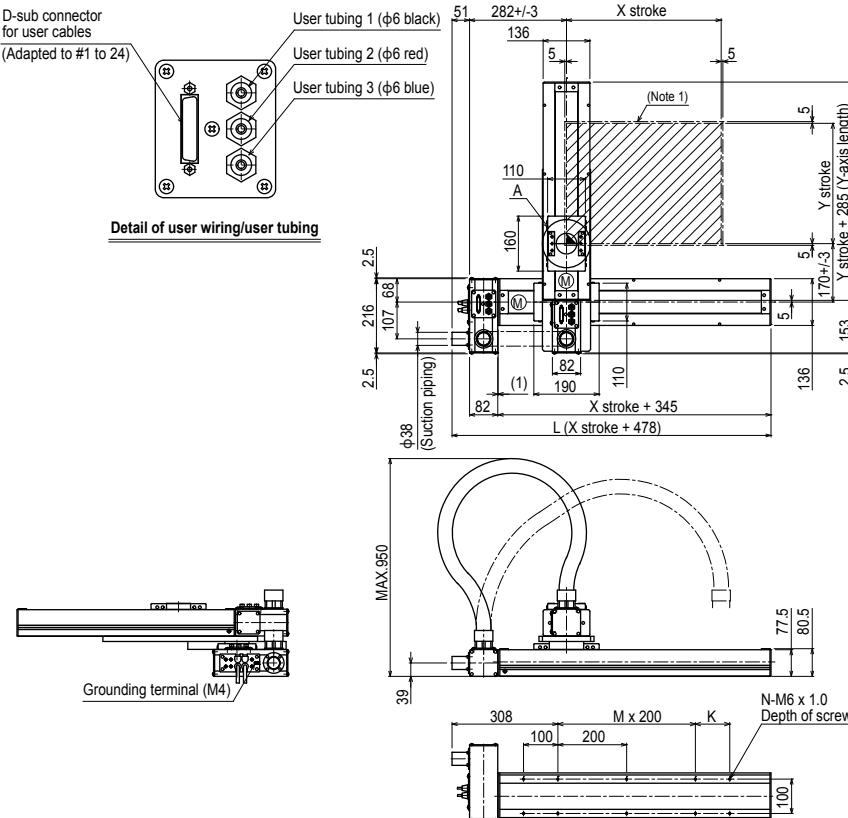
Maximum payload (kg)

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

Controller

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

SXYxC 2 axes T1

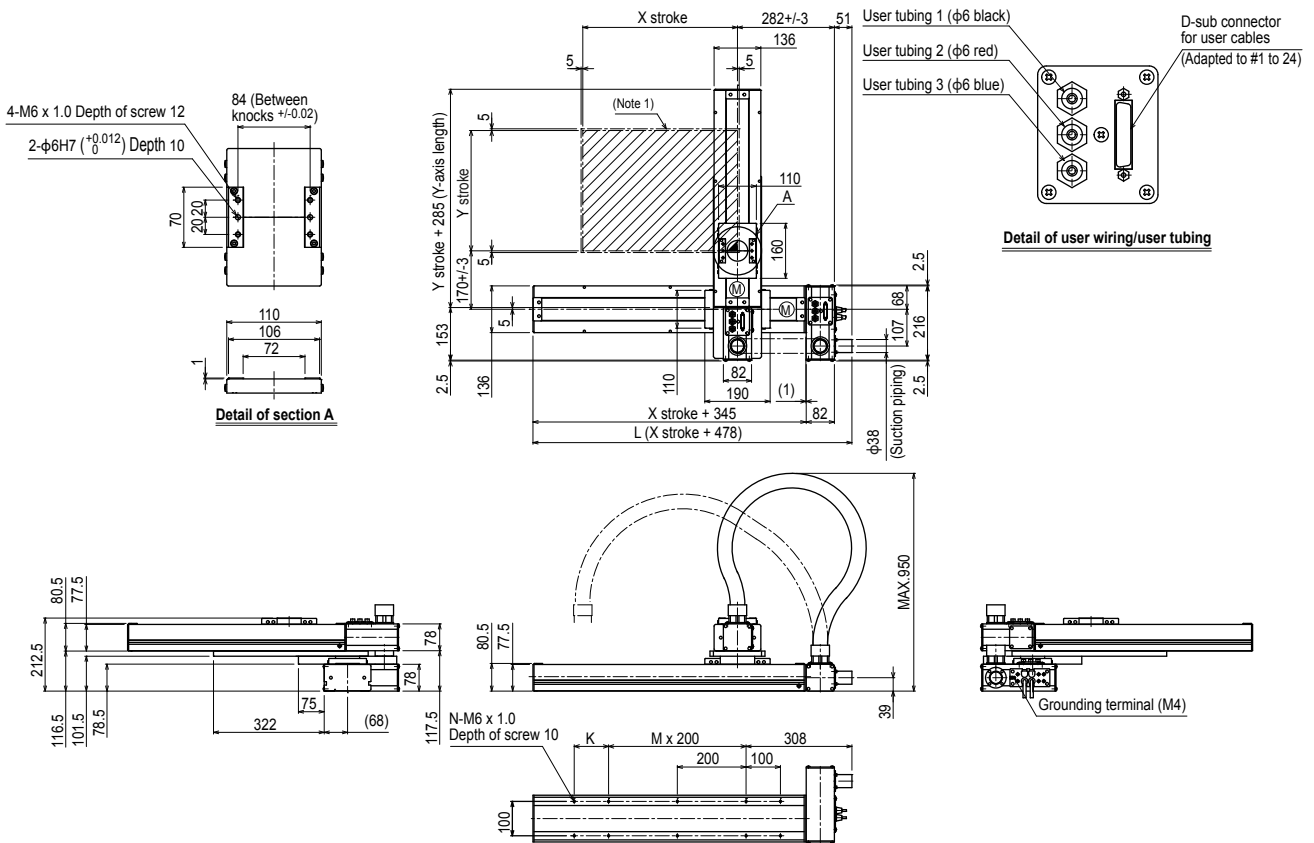


X stroke	150	250	350	450	550	650	750	850	950	1050	
	L	628	728	828	928	1028	1128	1228	1328	1428	1528
K	200	100	200	100	200	100	200	100	200	100	
M	0	1	1	2	2	3	3	4	4	5	
N	6	8	8	10	10	12	12	14	14	16	
Y stroke	150	250	350	450	550	650					
Maximum speed for each stroke (mm/sec) <small>Note 2</small>	1000	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

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

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

SXYxC

3 axes / ZSC

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

Ordering method

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

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

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

Basic specifications

	X axis	Y axis	Z axis: ZSC12	Z axis: ZSC6
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 ϕ 15	Ball screw ϕ 15		Ball screw ϕ 12
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.

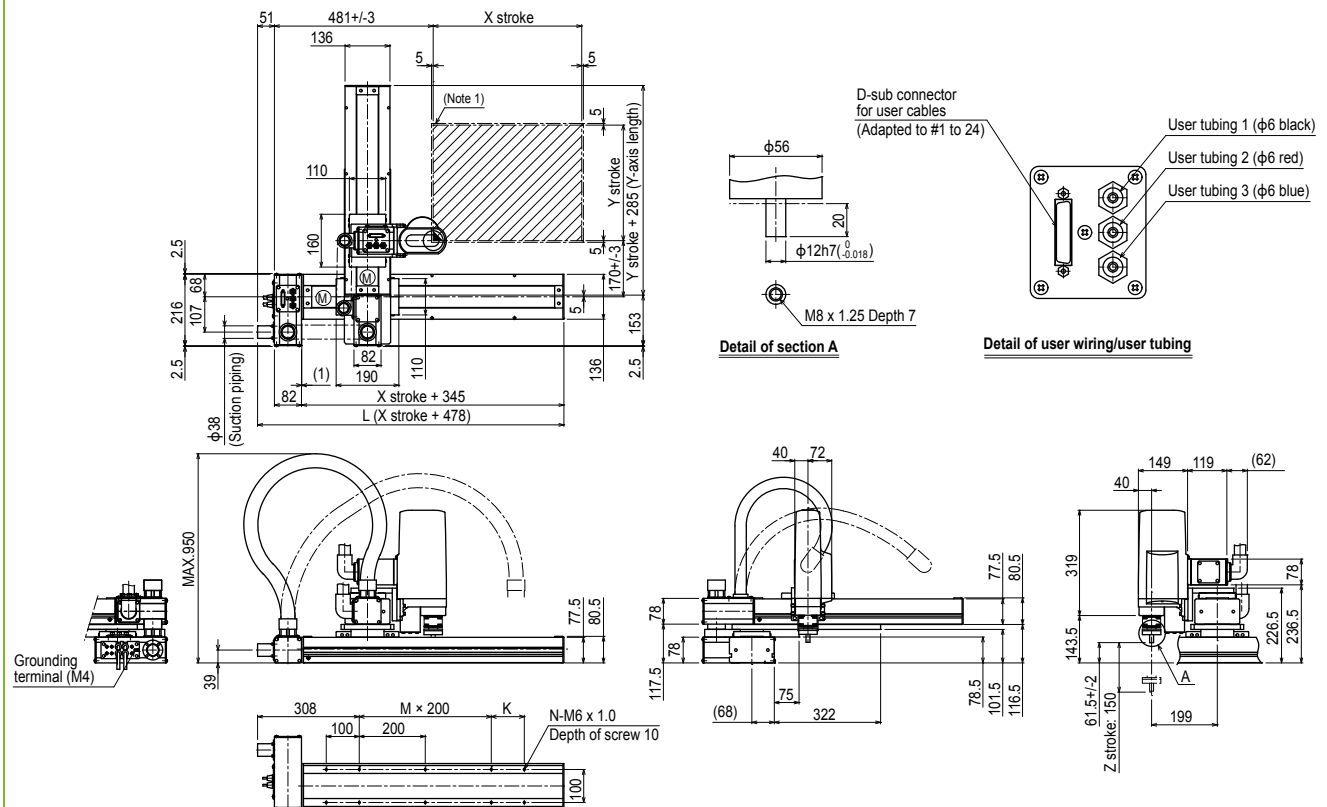
Maximum payload (kg)

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.

YK220XC

Clean type: Extra small type

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

- Arm length 220mm
- Maximum payload 1kg

Ordering method

YK220XC - 100

RCX340-4

Model	Z axis stroke 100: 100mm	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
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Specify various controller setting items. RCX340 ▶ **P.566**

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		+/-120	+/-140	-	+/-360
AC servo motor output (W)		50	30	30	30
Repeatability ^{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 (0.1 μm base)			
Intake air (Nℓ/min)		30			

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

Note 2. When reciprocating 100mm in horizontal and 25mm in vertical directions.

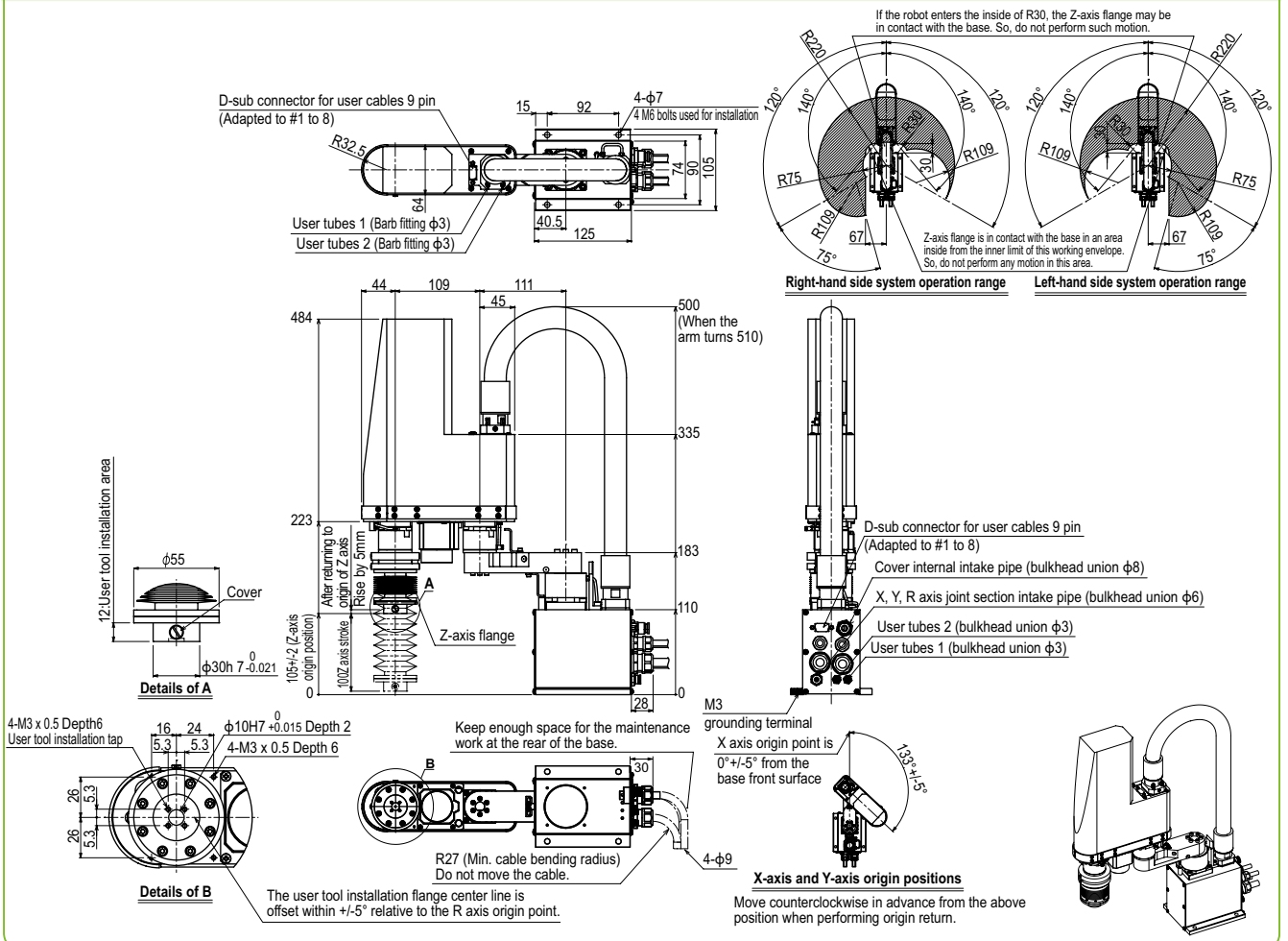
Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

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

Controller

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

YK220XC



Articulated robots
YA

Linear conveyor modules
LCM100

Motor-less single axis actuator
Robonity

Compact single-axis robots
TRANSEVO

Single-axis robots
FLIP-X

Linear motor single-axis robots
PHASER

Cartesian robots
XY-X

SCARA robots
YK-X

Pick & place robots
YP-X

CLEAN

CONTROLLER INFORMATION

Single-axis Cartesian
SCARA

YK250XGC

Clean type: Small type



- Arm length 250mm
- Maximum payload 4kg

Ordering method

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

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

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

Basic specifications

	X axis	Y axis	Z axis	R axis
Axis specifications				
Arm length (mm)	100	150	150	-
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)	4.5		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 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)	21.5			
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. Class 10 (0.1μm) equivalent to FED-STD-209D
 Note 5. ESD (ElectroStatic Discharge) prevention is an option. Please contact our distributor.
 Note 6. The necessary intake amount varies depending on the use conditions and environment.

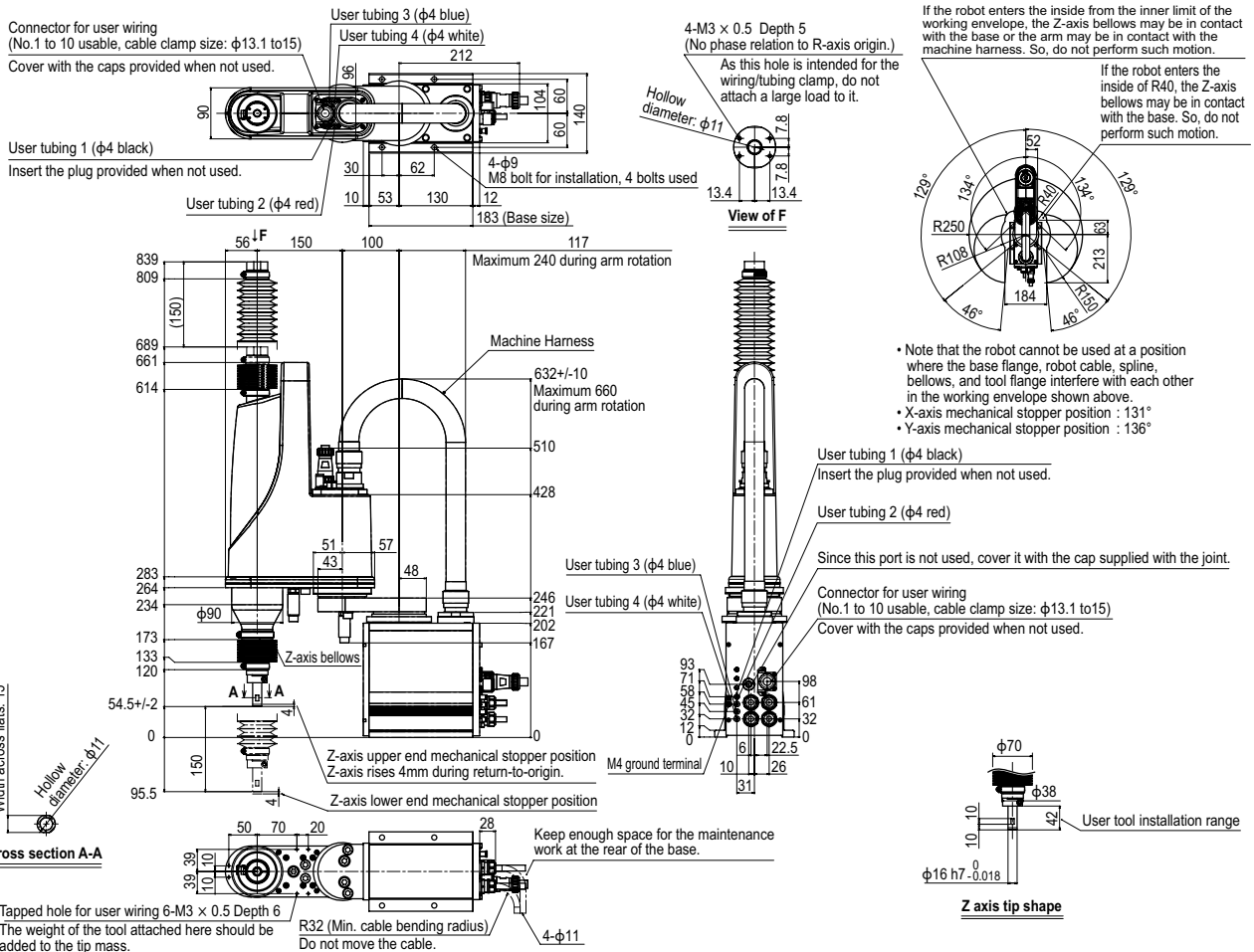
Controller

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

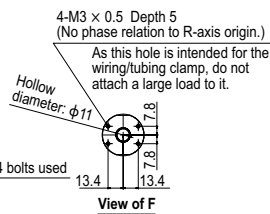
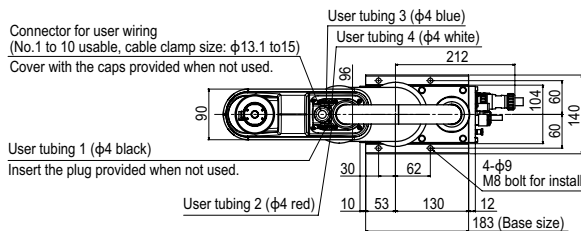
- Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)
 See our robot manuals (installation manuals) for detailed information.
 Note. To set the standard coordinates with high accuracy,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

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

YK250XGC

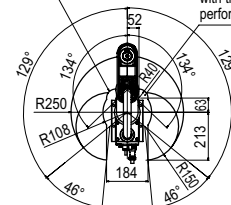


YK250XGC Tool flange mount type

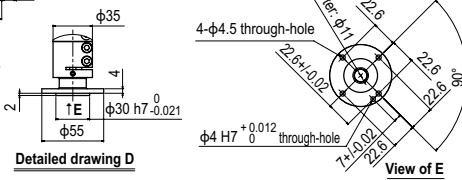
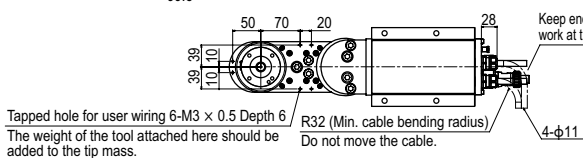
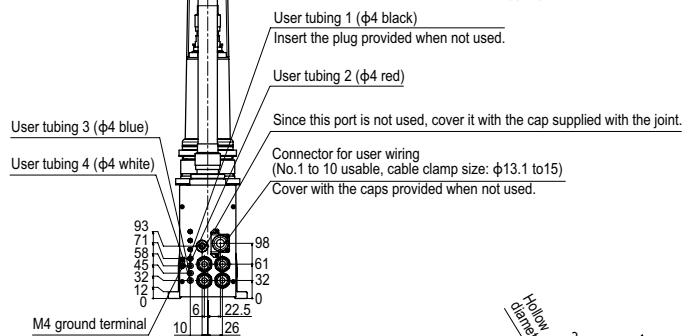
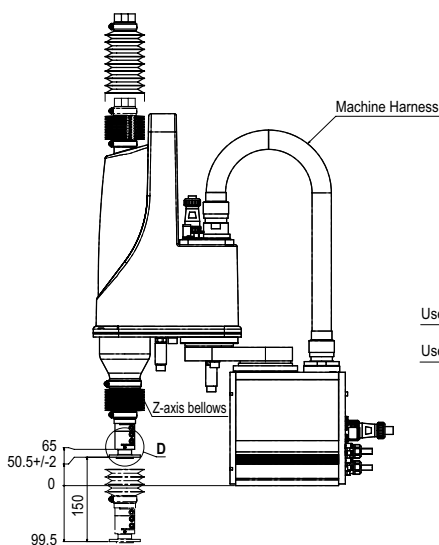


If the robot enters the inside from the inner limit of the working envelope, the Z-axis bellows may be in contact with the base or the arm may be in contact with the machine harness. So, do not perform such motion.

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



- Note that the robot cannot be used at a position where the base flange, robot cable, spline, bellows, and tool flange interfere with each other in the working envelope shown above.
- X-axis mechanical stopper position : 131°
- Y-axis mechanical stopper position : 136°



YK350XGC

Clean type: Small type

- Arm length 350mm
- Maximum payload 4kg

Ordering method

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

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

Basic specifications

	X axis	Y axis	Z axis	R axis
Axis specifications				
Arm length (mm)	200	150	150	-
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. Class 10 (0.1µm) equivalent to FED-STD-209D
 Note 5. ESD (ElectroStatic Discharge) prevention is an option. Please contact our distributor.
 Note 6. The necessary intake amount varies depending on the use conditions and environment.

Controller

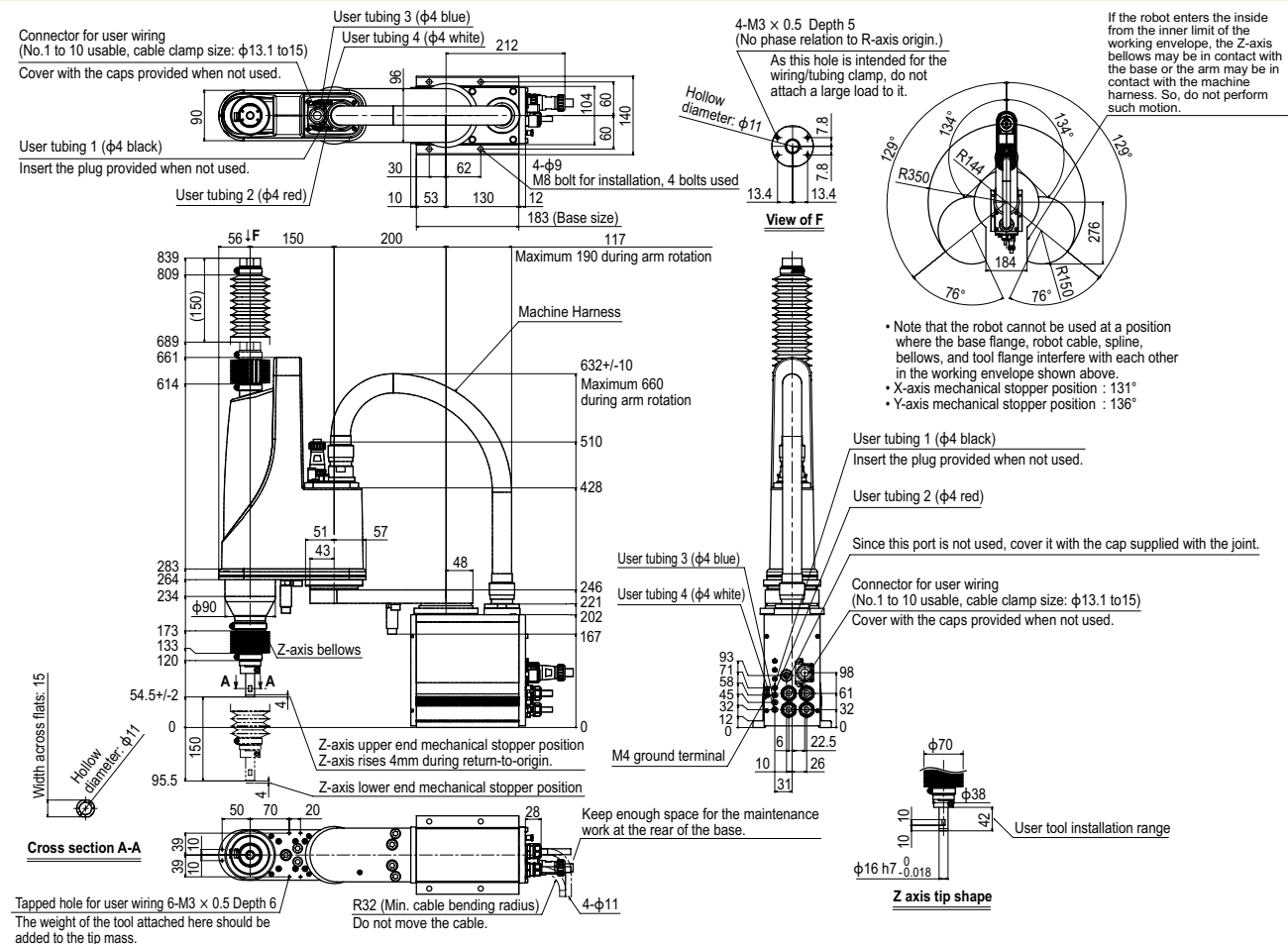
Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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

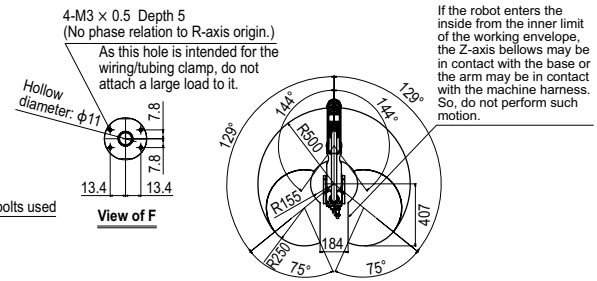
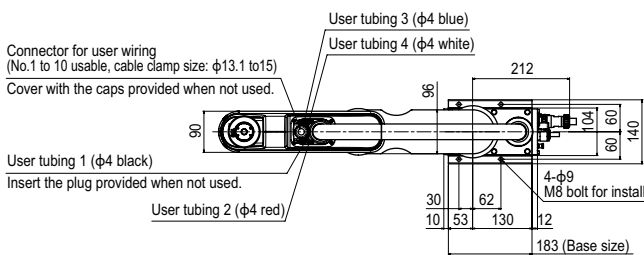
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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

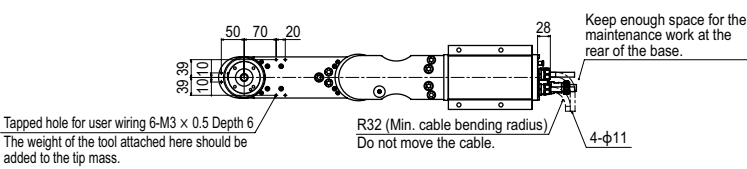
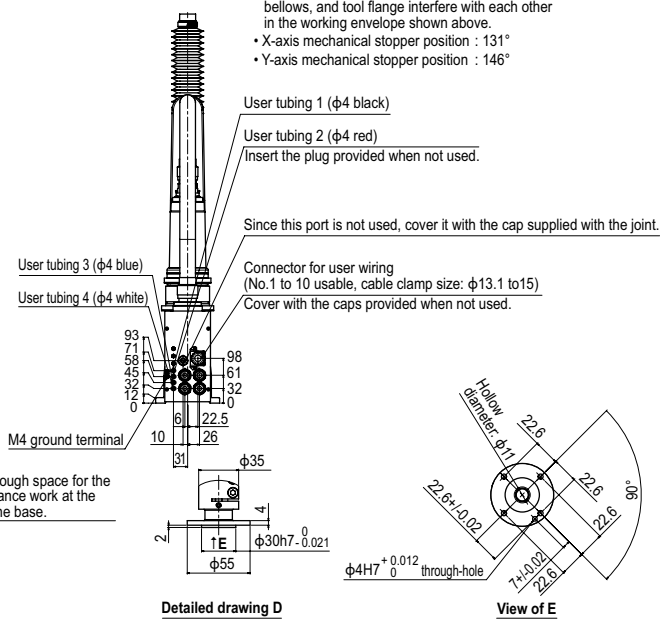
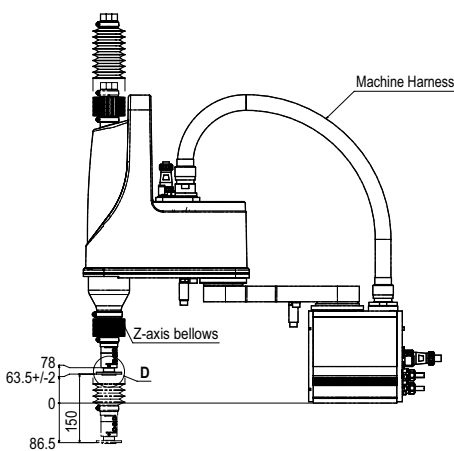
YK350XGC



YK500XGLC Tool flange mount type



- Note that the robot cannot be used at a position where the base flange, robot cable, spline, bellows, and tool flange interfere with each other in the working envelope shown above.
- X-axis mechanical stopper position : 131°
- Y-axis mechanical stopper position : 146°



YK500XC

Clean type: Medium type



- Arm length 500mm
- Maximum payload 10kg

Ordering method

YK500XC			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 300: 300mm	3L: 3.5m 5L: 5m 10L: 10m									

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

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis		R axis
		250	250	200	300	—
	Rotation angle (°)	+/-120	+/-142	—		+/-180
	AC servo motor output (W)	400	200	200	100	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.

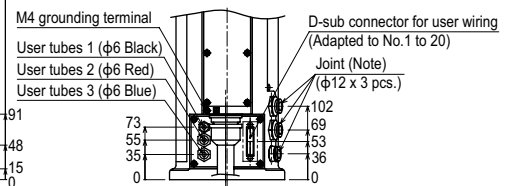
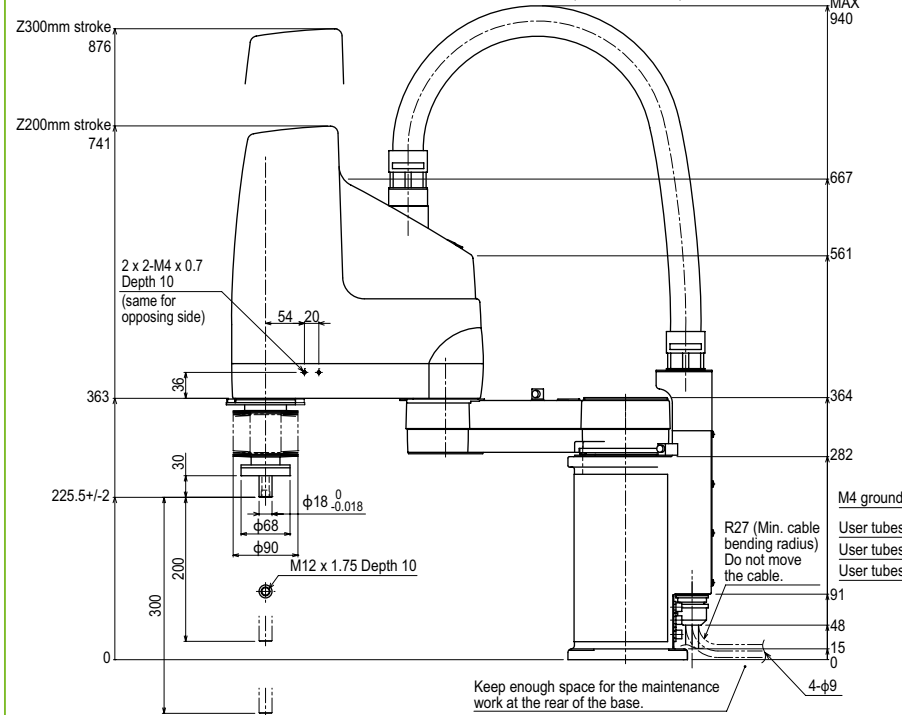
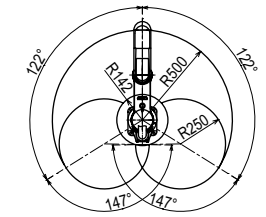
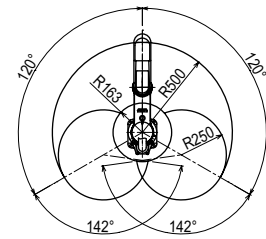
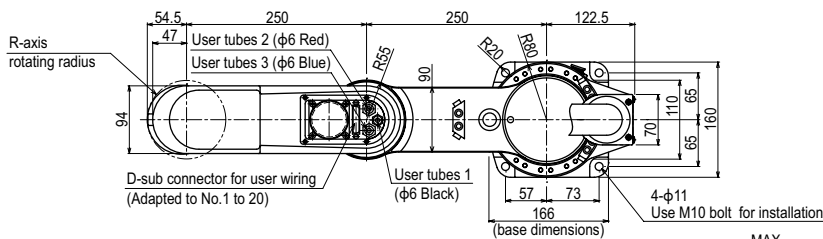
Controller

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.

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

YK500XC



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

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
YK600XGLC - 150	150: 150mm	No entry: None F: With tool flange	S: With hollow shaft	3L: 3.5m 5L: 5m 10L: 10m	RCX340-4							

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

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		+/-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. Class 10 (0.1µm) equivalent to FED-STD-209D
 Note 5. ESD (ElectroStatic Discharge) prevention is an option. Please contact our distributor.
 Note 6. The necessary intake amount varies depending on the use conditions and environment.

Controller

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

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

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

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YK600XGLC

Connector for user wiring (No.1 to 10 usable, cable clamp size: φ13.1 to 15)
 Cover with the caps provided when not used.

User tubing 1 (φ4 black)
 Insert the plug provided when not used.

User tubing 2 (φ4 red)

User tubing 3 (φ4 blue)

User tubing 4 (φ4 white)

4-M3 x 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.

Hollow diameter: φ11

View of F

The arm may be in contact with the machine harness in an area inside from the inner limit of this working envelope. So, do not operate the arm in this area.

Machine Harness

Z-axis bellows

Z-axis upper end mechanical stopper position
 Z-axis rises 4mm during return-to-origin.

Z-axis lower end mechanical stopper position

Cross section A-A

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

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

4-φ11

M4 ground terminal

User tubing 1 (φ4 black)
 Insert the plug provided when not used.

User tubing 2 (φ4 red)
 Insert the plug provided when not used.

User tubing 3 (φ4 blue)

User tubing 4 (φ4 white)

Since this port is not used, cover it with the cap supplied with the joint.

Connector for user wiring (No.1 to 10 usable, cable clamp size: φ13.1 to 15)
 Cover with the caps provided when not used.

M4 ground terminal

Z axis tip shape

φ70

φ38

φ16 h7-0.018

User tool installation range

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°

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

YK600XC

Clean type: Medium type



- Arm length 600mm
- Maximum payload 10kg

Ordering method

YK600XC			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 300: 300mm	3L: 3.5m 5L: 5m 10L: 10m								

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

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		+/-120	+/-145	-	+/-180
AC servo motor output (W)		400	200	200	100
Repeatability ^{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.

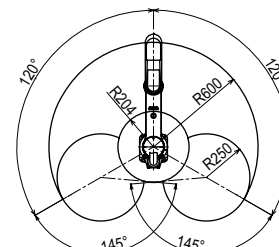
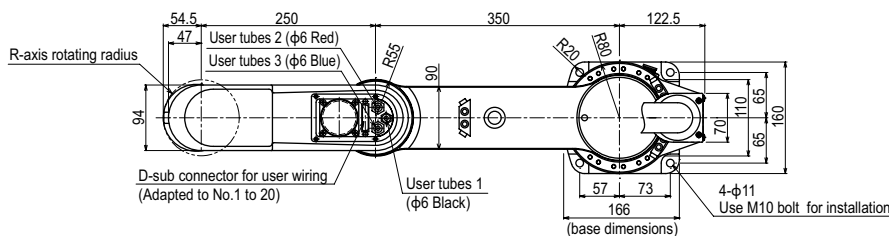
Controller

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

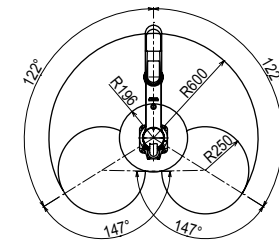
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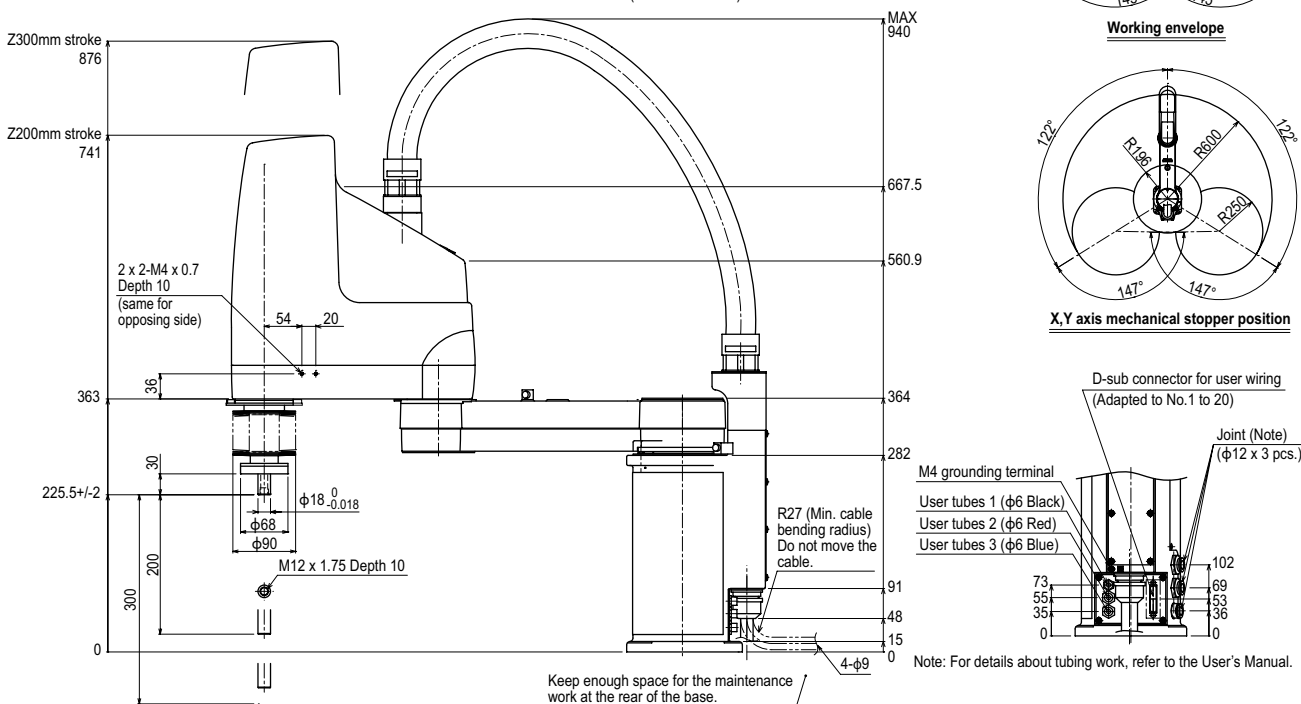
YK600XC



Working envelope



X,Y axis mechanical stopper position



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

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

YK700XC

Clean type: Large type



- Arm length 700mm
- Maximum payload 20kg

Ordering method

YK700XC			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.566**

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		+/-120	+/-145	-	+/-180
AC servo motor output (W)		800	400	400	200
Repeatability ^{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 x wires)		0.2 x 20			
User tubing (Outer diameter)		φ6 x 3			
Travel limit		1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
Robot cable length (m)		Standard: 3.5 Option: 5, 10			
Weight (kg)		57			
Degree of cleanliness		CLASS 10 ^{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.

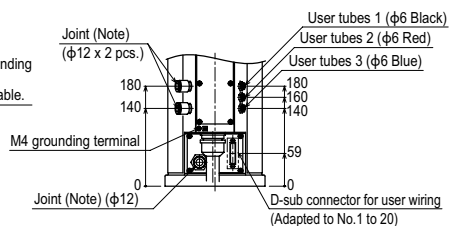
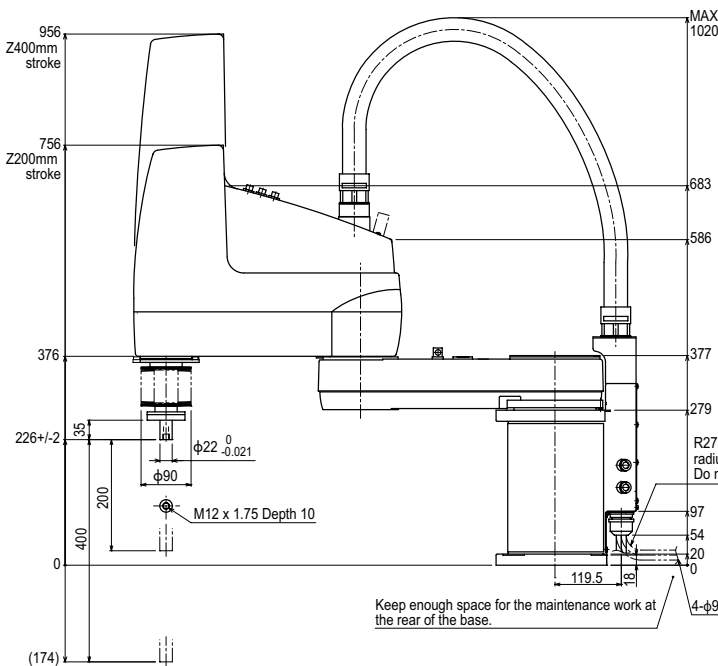
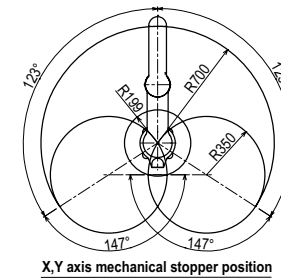
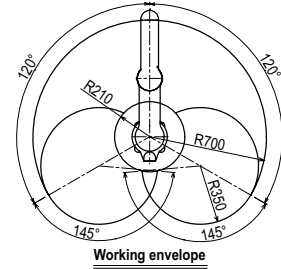
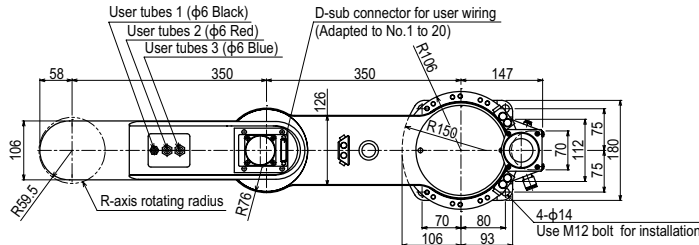
Controller

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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YK700XC



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

YK800XC

Clean type: Large type

- Arm length 800mm
- Maximum payload 20kg



Ordering method

YK800XC			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.566**

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		+/-120	+/-145	-	+/-180
AC servo motor output (W)		800	400	400	200
Repeatability ^{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.

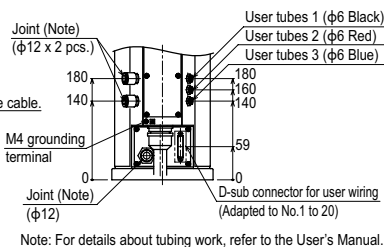
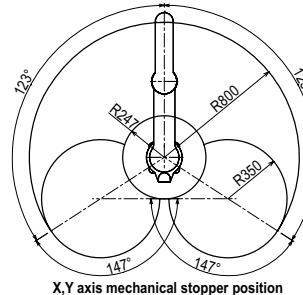
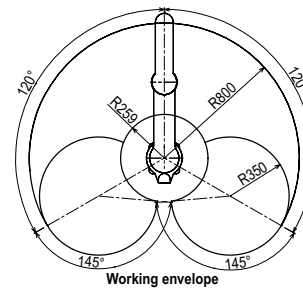
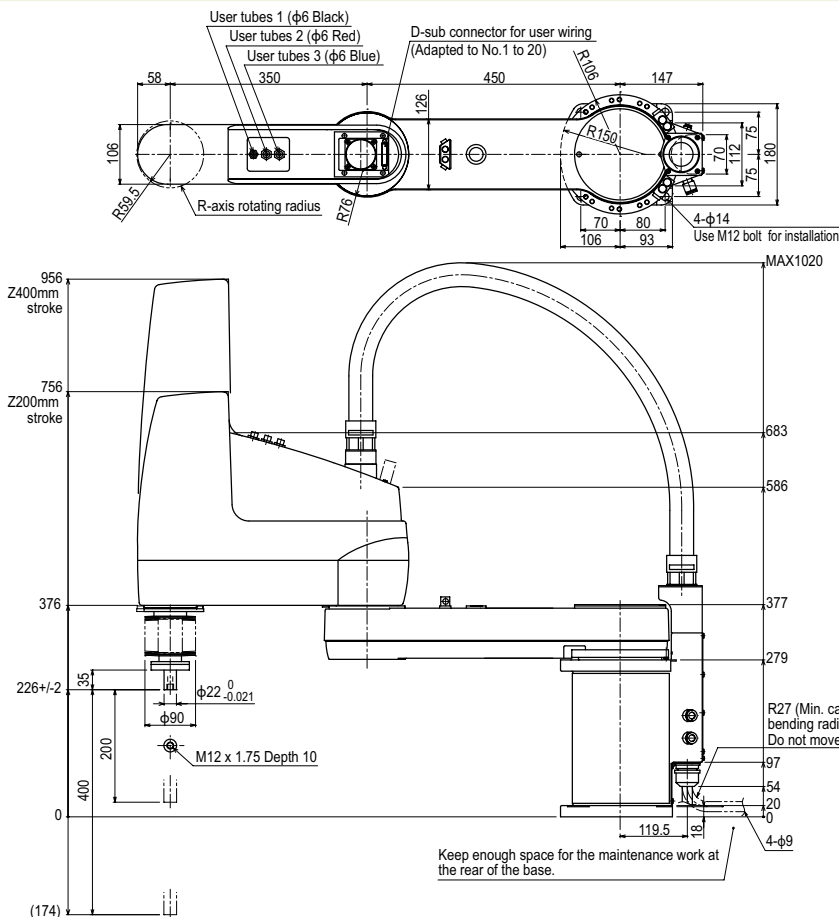
Controller

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.)
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YK800XC



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

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

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.566**

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
	Rotation angle (°)	+/-120	+/-145	-	+/-180
	AC servo motor output (W)	800	400	400	200
	Repeatability ^{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)
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YK1000XC

