



CLEAN ROBOTS

CLEAN

TYPE

CONTENTS

■ CLEAN ROBOTS SPECIFICATION SHEET.....514

SINGLE-AXIS

● TRANSERVO

SSC04	517
SSC05	518
SSC05H	519

● FLIP-XC

C4L	520
C4LH	521
C5L	522
C5LH	523
C6L	524
C8	525
C8L	526
C8LH	527
C10	528
C14	529
C14H	530
C17	531
C17L	532
C20	533

CARTESIAN XY-XC

● 2 axes

SXYxC	534
-------------	-----

● 3 axes / ZSC

SXYxC	536
-------------	-----

● 4 axes / ZRSC

SXYxC	538
-------------	-----

SCARA YK-XC

YK180XC	540
YK220XC	541
YK250XGC	542
YK350XGC	544
YK400XGC	546
YK400XEC-4	548
YK500XGLC	549
YK500XC	551
YK510XEC-10	552
YK600XGLC	553
YK600XC	555
YK610XEC-10	556
YK700XC	557
YK710XEC-10	558
YK800XC	559
YK1000XC	560

CLEAN ROBOTS SPECIFICATION SHEET

Clean single-axis robots

●TRANSERVO

- Degree of cleanliness Equivalent to ISO CLASS 3 (ISO14644-1)
- Intake air 15 to 80Nℓ/min

Model	Lead (mm)	Payload (kg)		Stroke (mm) and maximum speed (mm/sec)																Detailed info page
		Horizontal	Vertical	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	
SSC04	12	2	1	600																P.517
	6	4	2	300																
	2	6	4	100																
SSC05	20	4	—	1000												933	833	733	633	P.518
	12	6	1	600												560	500	440	380	
	6	10	2	300												280	250	220	190	
SSC05H	20	6	—	1000												933	833	733	633	P.519
		8	—	600												560	500	440	380	
		—	2	500														440	380	
	12	—	—	300												280	250	220	190	
		—	—	250														220	190	
		—	4																	

●FLIP-XC

- Degree of cleanliness Equivalent to ISO CLASS 3 (ISO14644-1)
- Intake air 20 to 90Nℓ/min

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

																							Detailed info page
	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	
																							C4L : P.520 C4LH : P.521
																							C5L : P.522 C5LH : P.523
																							P.524
																							P.525
	550	500																					
	270	240																					P.526
	135	120																					
	500	450																					
	240	210																					P.527
	120	105																					
	600	500																					
	300	250																					P.528
	150	125																					
	600	500																					
	300	250																					P.529
	150	125																					
	600	500																					
	300	250																					P.530
	150	125																					
	800	700		600	500																		
	400	350		300	250																		P.531
				1000		1000		1000		1000		1000		1000		1000		900		800		800	P.532
	800	700		600	500																		
	400	350		300	250																		P.533



Ordering method

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

S2	I/O
Robot positioner S2: TS-S2	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board
SH	Battery
Robot positioner SH: TS-SH	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board
SD	1
Robot driver SD: TS-SD	I/O cable 1: 1m

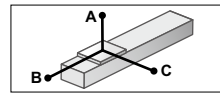
Note 1. If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.
 Note 2. The robot cable is flexible and resists bending.
 Note 3. See P.600 for DIN rail mounting bracket.
 Note 4. Select this selection when using the gateway function.

Basic specifications

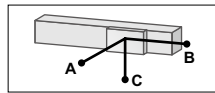
Motor	42 □ Step motor
Repeatability (mm)	+/-0.02
Deceleration mechanism	Ball screw φ8
Maximum motor torque (N·m)	0.27
Ball screw lead (mm)	12 6 2
Maximum speed (mm/sec)	600 300 100
Maximum payload (kg)	Horizontal 2 2 4 Vertical 1 2 4
Max. pressing force (N)	45 90 150
Stroke (mm)	50 to 400 (50mm pitch)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

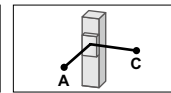
Allowable overhang



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

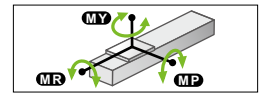


Wall installation (Unit: mm)	A	B	C
Lead 12	1kg 274	204	776
Lead 6	2kg 133	93	611
Lead 2	2kg 149	102	656
Lead 6	3kg 92	62	516
Lead 2	4kg 63	43	507
Lead 2	4kg 72	48	829
Lead 2	6kg 39	29	789



Vertical installation (Unit: mm)	A	C
Lead 12	0.5kg 407	408
Lead 6	1kg 204	204
Lead 2	1kg 223	223
Lead 6	2kg 107	107
Lead 2	2kg 118	118
Lead 2	4kg 53	53

Static loading moment

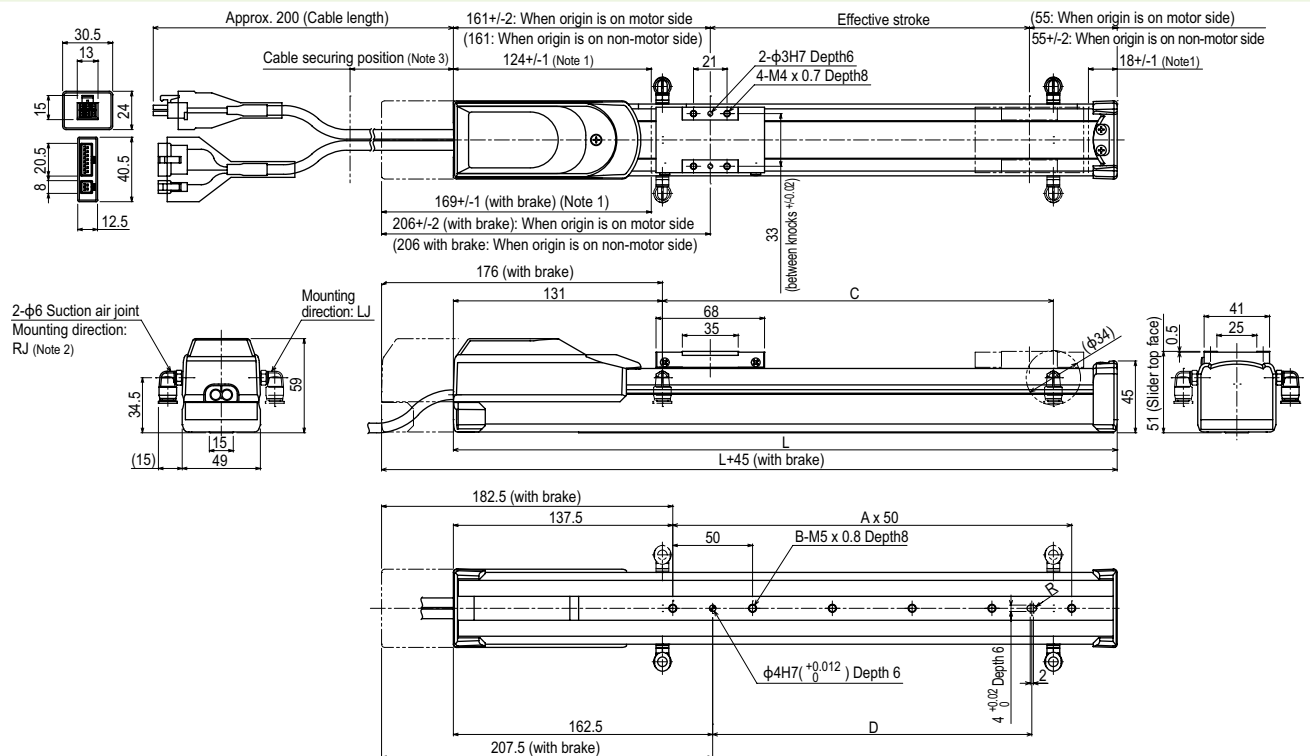


MY	MP	MR
16	19	17

Controller

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

SSC04



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

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

SSC05

Slider type



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

Ordering method

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

S2	I/O
Robot positioner S2: TS-S2	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board
SH	Battery
Robot positioner SH: TS-SH	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board
SD	1
Robot driver SD: TS-SD	I/O cable 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.600 for DIN rail mounting bracket.
Note 5. Select this selection when using the gateway function.

Basic specifications

Motor	42 □ Step motor
Repeatability	±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)

		A	B	C
Lead 20	2kg	413	139	218
	4kg	334	67	120
	4kg	347	72	139
	6kg	335	47	95
Lead 12	4kg	503	78	165
	8kg	332	37	79
	10kg	344	29	62
	Lead 6	4kg	347	72

Wall installation (Unit: mm)

		A	B	C
Lead 20	2kg	192	123	372
	4kg	92	51	265
	4kg	109	57	300
	6kg	63	31	263
Lead 12	4kg	134	63	496
	6kg	76	35	377
	8kg	47	22	355
	Lead 6	4kg	347	72

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

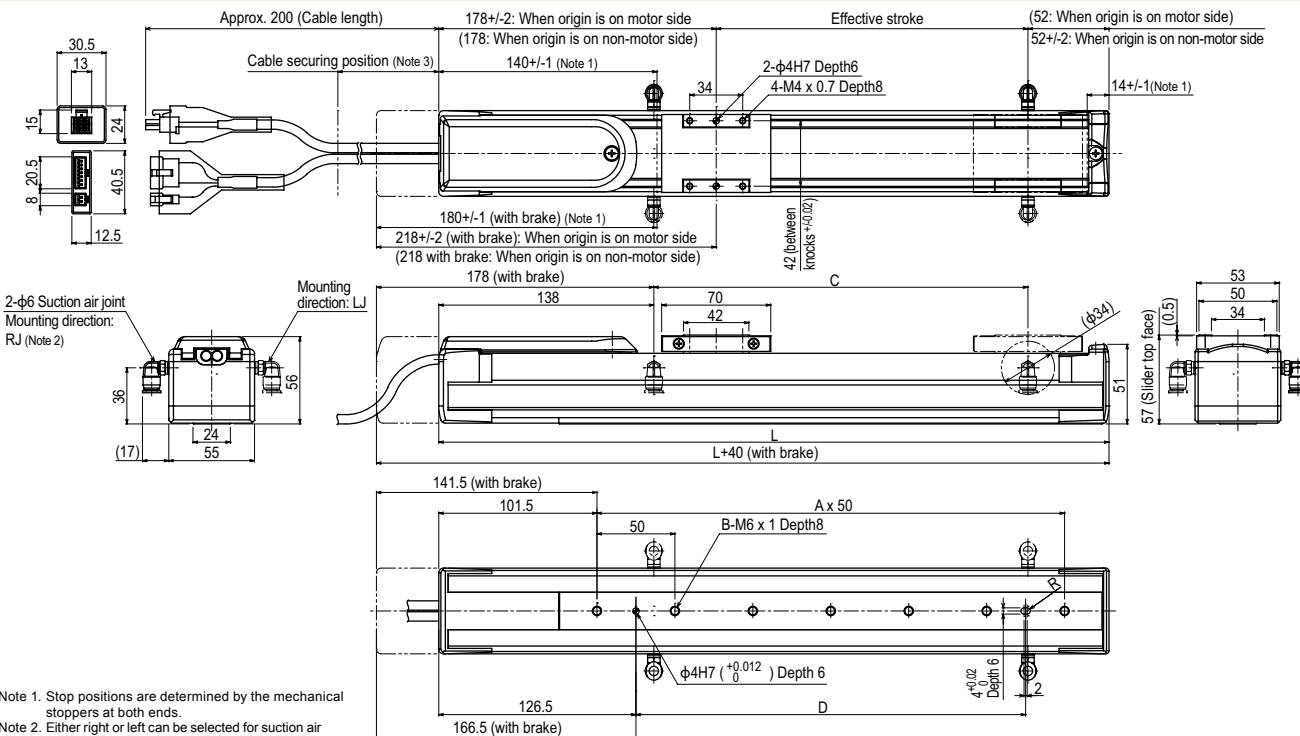
Static loading moment

MY	MP	MR
25	33	30

Controller

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

SSC05



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

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

Slider type



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

Ordering method

SSC05H		S					
Model	Lead	Type	Brake Note 1	Direction of air coupler installation	Origin position	Stroke	Cable length Note 2
	20: 20mm 12: 12mm 6: 6mm	S: Straight	N: With no brake B: With brake	RJ: Right (Standard) LJ: Left	N: Standard Note 2 Z: Non-motor side	50 to 800 (50mm pitch)	1L: 1m 3L: 3m 5L: 5m 90L: 10m

Note 1. Only the model with a lead of 12mm or 6mm can select specifications with brake.

Note 2: If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.

Note 3. The robot cable is flexible and resists bending.

Note 4. See P.600 for DIN rail mounting bracket.

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

Basic specifications

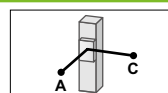
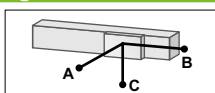
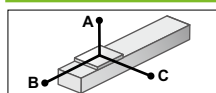
Motor	42 □ Step motor			
Repeatability ^{Note 1} (mm)	+/- 0.02			
Deceleration mechanism	Ball screw φ12			
Maximum motor torque (N·m)	0.47			
Ball screw lead (mm)	20	12	6	
Maximum speed ^{Note 2} (mm/sec)	Horizontal	1000	600	300
	Vertical	—	500	250
Maximum payload (kg)	Horizontal	6	8	12
	Vertical	—	2	4
Max. pressing force (N)	36	60	120	
Stroke (mm)	50 to 800 (50mm pitch)			
Overall length (mm)	Horizontal	Stroke+286		
	Vertical	Stroke+306		
Maximum outside dimension of body cross-section (mm)	W55 × H56			
Cable length (m)	Standard: 1 / Option: 3, 5, 10			
Degree of cleanliness	CLASS 10 ^{Note 3}			
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 Note

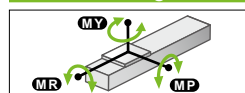


		A	B	C
Lead 12	2kg	599	225	297
	4kg	366	109	148
	6kg	352	71	104
	4kg	500	118	175
	6kg	399	79	118
	8kg	403	56	88
Lead 6	6kg	573	83	136
	8kg	480	61	100
	10kg	442	47	78
	12kg	465	39	64

Wall installation		(Unit: mm)		
		A	B	C
Lead 20	2kg	262	203	554
	4kg	118	88	309
	6kg	71	49	262
Lead 12	4kg	146	96	444
	6kg	85	55	334
	8kg	55	34	309
Lead 6	6kg	101	62	519
	8kg	64	39	413
	10kg	43	26	358
	12kg	28	17	334

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

■ **Static loading moment**



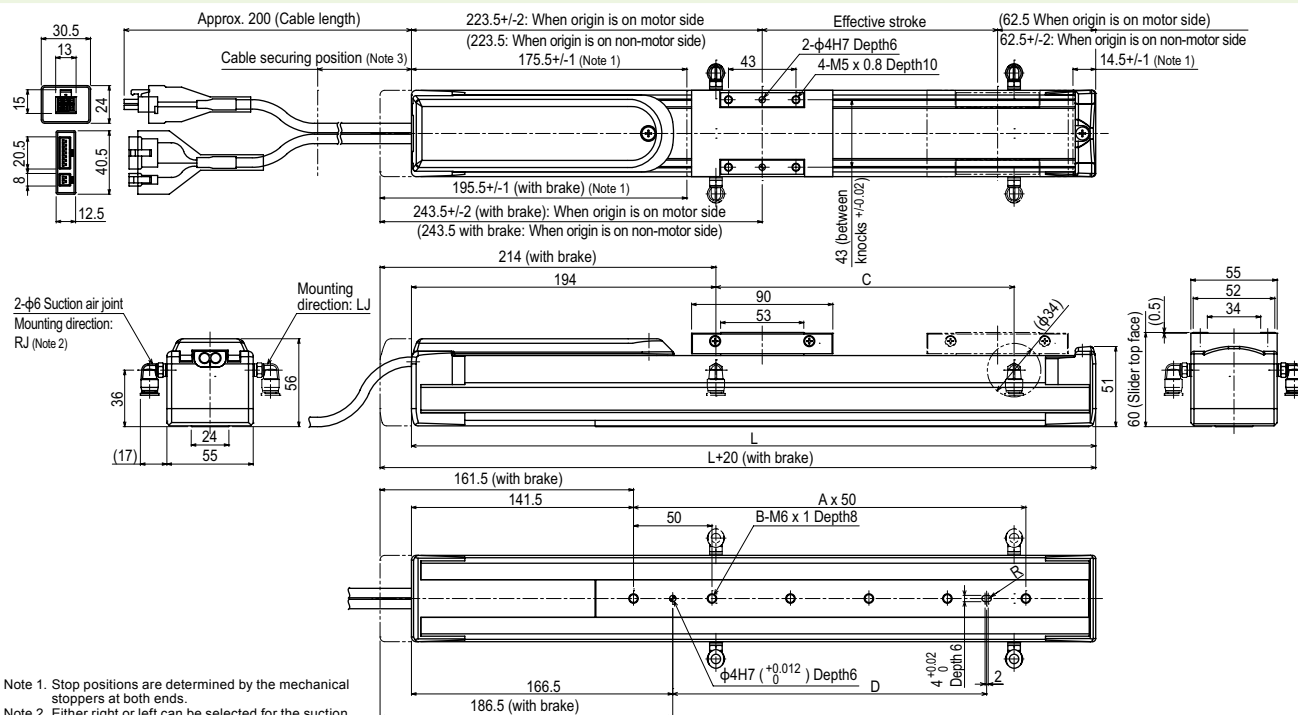
(Unit: N-m)		
MY	MP	MR
32	38	34

■ **Controller**

Controller	Operation method
TS-S2	I/O point trace /
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).

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

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) ^{Note 5}	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
	Lead 20	1000											933	833	733	633
Maximum speed for each stroke (mm/sec) ^{Note 6}	Lead 12 (Horizontal)	600											560	500	440	380
	Lead 12 (Vertical)	500													440	380
	Lead 6 (Horizontal)	300											280	250	220	190
	Lead 6 (Vertical)	250													220	190

- Origin on the non-motor side is selectable



Ordering method

C4LH

C4LH							TSX				
Model	Lead designation	Brake	Direction of air coupler installation	Origin position change	Stroke	Cable length ^{Note 1}	Positioner ^{Note 2}	Driver: Power-supply voltage / Power capacity	LCD monitor	I/O selection	Battery
	12: 12mm 6: 6mm 2: 2mm	No entry: With no brake BK: With brake	LJ: Left (Standard) RJ: Right	None: Standard Z: Non-motor side	50 to 400 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	TS-X	10S: 100V/100W or less 20S: 200V/100W or less	No entry: None L: With LCD	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFIBUS GW: No I/O board ^{Note 3}	B: With battery (Absolute) N: None (Incremental)
							SR1-X				
							Controller	05 Driver: Power capacity	Usable for CE	I/O selection	Battery
								05: 100W or less	No entry: Standard E: CE marking	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	B: With battery (Absolute) N: None (Incremental)
							RDV-X				
							Driver	2 Power-supply voltage	05 Driver: Power capacity		
								2: AC200V	05: 100W or less		

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

See P.692 for details on robot cable.

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

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

Basic specifications

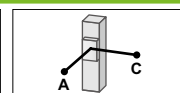
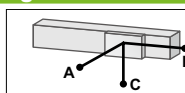
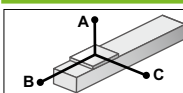
AC servo motor output (W)		30		
Repeatability ^{Note 1} (mm)		+/-0.02		
Deceleration mechanism		Ball screw φ8		
Ball screw lead (mm)		12	6	2
Maximum speed (mm/sec)		720	360	120
Maximum payload (kg)	Horizontal	4.5	6	6
	Vertical	1.2	2.4	7.2
Rated thrust (N)		32	64	153
Stroke (mm)		50 to 400 (50mm pitch)		
Overall length (mm)	Horizontal	Stroke+205		
	Vertical	Stroke+243		
Maximum outside dimension of body cross-section (mm)		W45×H55		
Cable length (m)		Standard: 3.5 / Option: 5, 10		
Degree of cleanliness		ISO CLASS 3 (ISO14644-1) ^{Note 2}		
Intake air (N ₂ /min) ^{Note 3}		50	30	15

Note 1. Positioning repeatability in one direction.

Note 2. When suction blower is used.

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

Allowable overhang Note

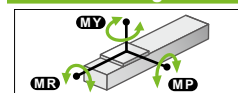


Horizontal installation (Unit: mm)					Wall installation (Unit: mm)					Vertical installation (Unit: mm)			
	A	B	C			A	B	C		A	C		
Lead 2 Lead 6 Lead 12	2kg	339	90	174	Lead 2 Lead 6 Lead 12	2kg	136	72	295	Lead 2 Lead 6 Lead 12	1.2kg	118	118
	4.5kg	169	37	72		4.5kg	44	20	111		2.4kg	52	54
	3kg	352	58	133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

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

Note. Service life is calculated for 300mm stroke models.

Static loading moment

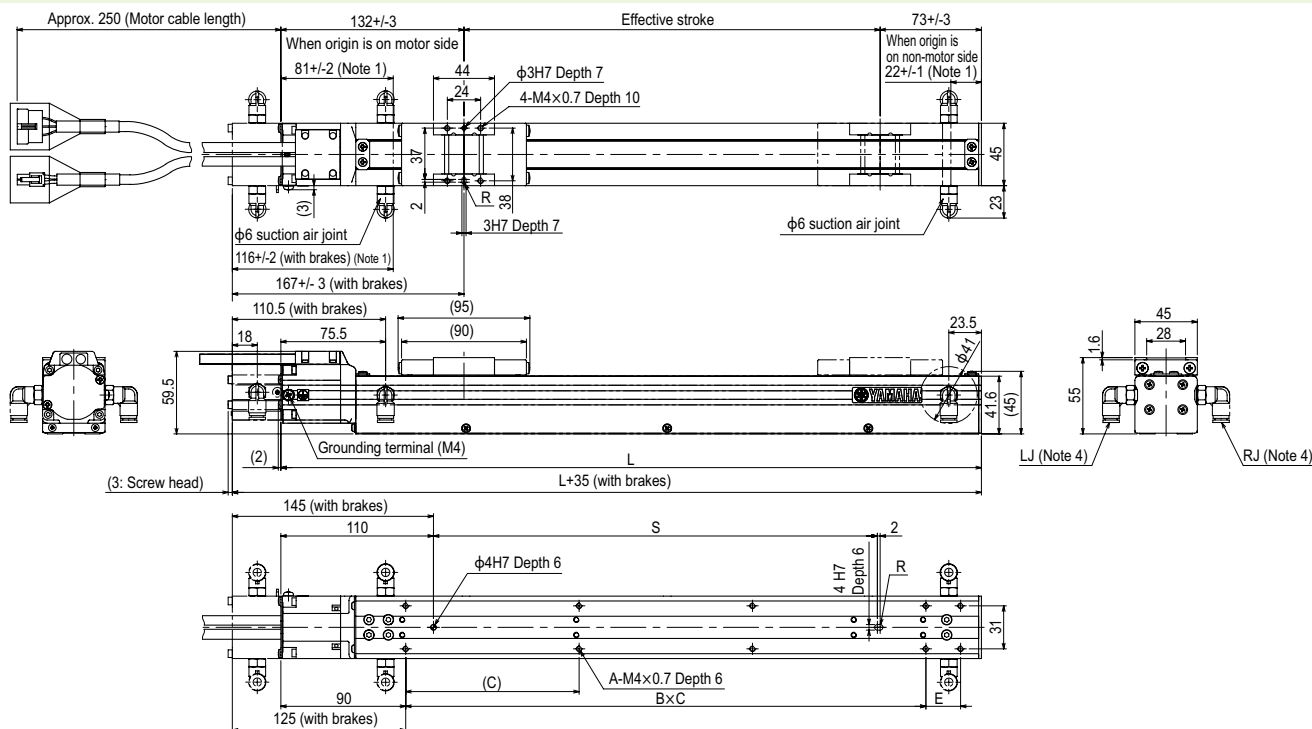


(Unit: N-m)		
MY	MP	MR
15	19	18

Controller

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

C4LH



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

Note 1. Stop positions are determined by the mechanical stoppers at both ends.

Note 2. Minimum bend radius of motor cable is R30

Note 3. Weight of models with no brake. The weight of brake-attached models is 0.2 kg heavier than the models with no brake shown in the table.

Note 4. Either right or left can be selected for the installation direction for the $\phi 6$ intake air joint. (The left side is the standard.)

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

Controller

SR1-X ▶ 618	TS-X ▶ 592	RDV-X ▶ 606
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C5LH

● High lead: Lead 20

● Origin on the non-motor side is selectable



Ordering method

C5LH		TSX		SR1-X		RDV-X	
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)	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 N: None B: With battery (Absolute) I: None (Incremental)
							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 N: None (Incremental) B: With battery (Absolute)
							2
							05
							Driver: Power supply voltage 2: AC200V
							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.692 for details on robot cable.

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

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

Basic specifications

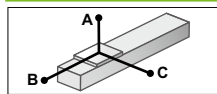
AC servo motor output (W)	30
Repeatability (mm) Note 1	+/- 0.02
Deceleration mechanism	Ball screw $\phi 12$
Ball screw lead (mm)	20 12 6
Maximum speed (mm/sec)	1000 800 400
Maximum payload (kg)	3 5 9
Rated thrust (N)	19 32 64
Stroke (mm)	50 to 800 (50mm pitch)
Overall length (mm)	Stroke+201.5
Maximum 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.

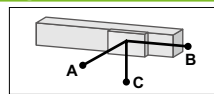
Note 2. When suction blower is used.

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

Allowable overhang



Horizontal installation (Unit: mm)	A	B	C
Lead 20	1099	324	645
Lead 12	488	104	241
Lead 6	916	159	398
Lead 20	436	60	152
Lead 12	1194	105	294
Lead 6	624	31	89

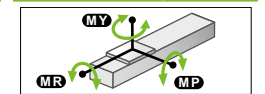


Wall installation (Unit: mm)	A	B	C
Lead 20	602	303	950
Lead 12	197	87	432
Lead 6	347	141	800
Lead 20	119	44	355
Lead 12	259	87	950
Lead 6	50	15	385

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

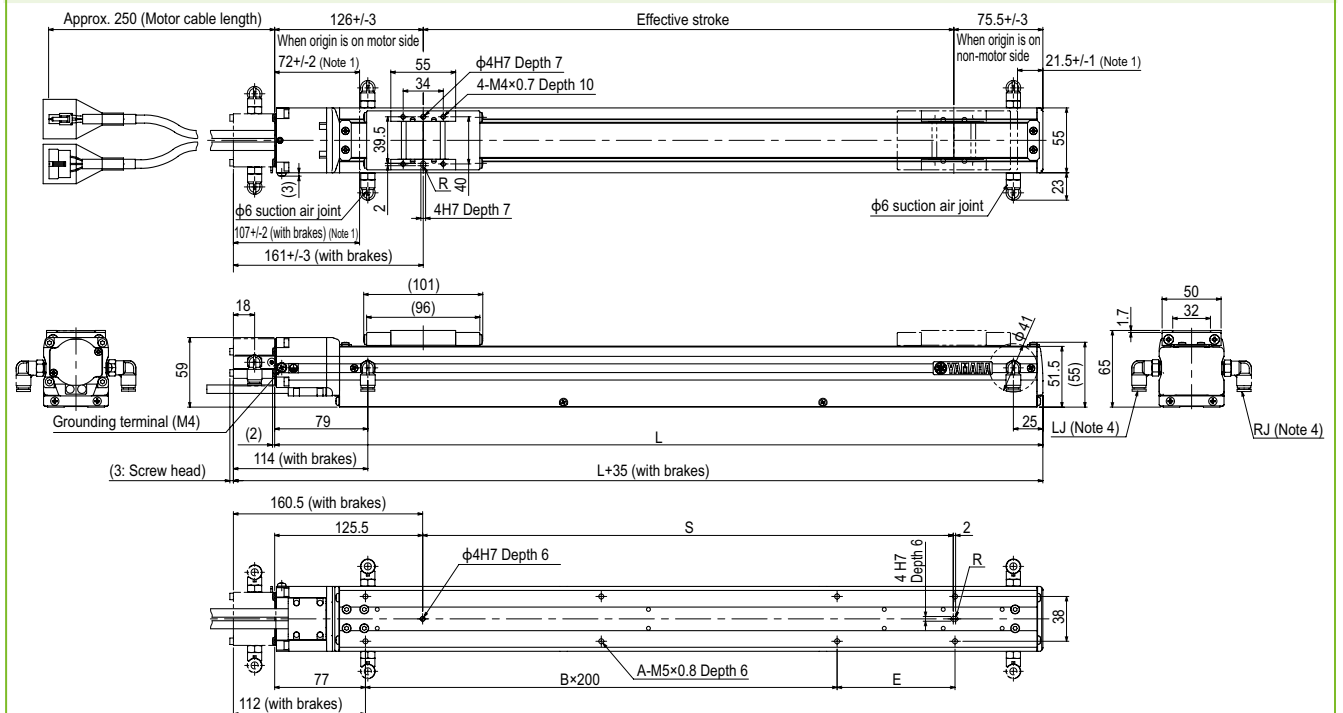


(Unit: N·m)	MY	MP	MR
Lead 20	30	34	40
Lead 12	1.2kg	240	239
Lead 6	2.4kg	109	110

Controller

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

C5LH



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

Note 1. Stop positions are determined by the mechanical stoppers at both ends.

Note 2. Minimum bend radius of motor cable is R30.

Note 3. Weight of models with no brake. The weight of brake-attached models is 0.2 kg heavier than the models with no brake shown in the table.

Note 4. Either right or left can be selected for the installation direction for the $\phi 6$ intake air joint. (The left side is the standard.)

Note 5. When the stroke is longer than 600mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

Note 6. External view of C5LH is identical to C5L.

Controller

SR1-X ▶ 618

TS-X ▶ 592

RDV-X ▶ 606

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 10S: 100V/100W or less 20S: 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 ^{Note 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 ^{Note 3} With battery (Absolute) N: None (Incremental)
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RDV-X

Driver	2	Power supply voltage 2: AC200V	05	Driver: Power capacity 05: 100W or less	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.692 for details on robot cable.

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

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

Note 1. The model with a lead of 20mm cannot select specifications with brake (vertical specifications).

Note 2. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.692 for details on robot cable.

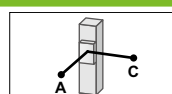
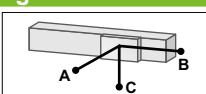
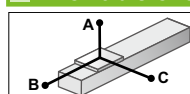
Note 3. See P.600 for DIN rail mounting bracket.

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

Basic specifications

AC servo motor output (W)		60		
Repeatability ^{Note 1} (mm)		+/- 0.02		
Deceleration mechanism		Ball screw φ12		
Ball screw lead (mm)		20	12	6
Maximum speed (mm/sec)		1000	800	400
Maximum payload (kg)	Horizontal	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 (N2/min) ^{Note 3}		80	50	30

■ Allowable overhang Note

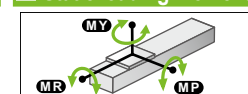


Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)						
	A	B	C		A	B	C		A	B	C			
Lead 20	2kg	433	192	295	Lead 20	2kg	300	174	365	Lead 12	1kg	353	357	
	6kg	145	59	104		Lead 12	6kg	83	44		105	Lead 12	2kg	163
Lead 12	10kg	110	33	75	Lead 12		10kg	43	18	71	Lead 6		4kg	68
	3kg	622	125	336		Lead 12	3kg	291	96	317		Lead 6	2kg	169
Lead 6	8kg	271	41	121	Lead 6		8kg	87	13	110	Lead 6		4kg	71
	12kg	214	24	76		Lead 6	12kg	41	0	126		Lead 6	8kg	21
Lead 6	5kg	692	73	236	Lead 6		5kg	202	45	237				
	10kg	372	33	109		Lead 6	10kg	70	5	97				
	30ka	157	0	25			Lead 6	30ka	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

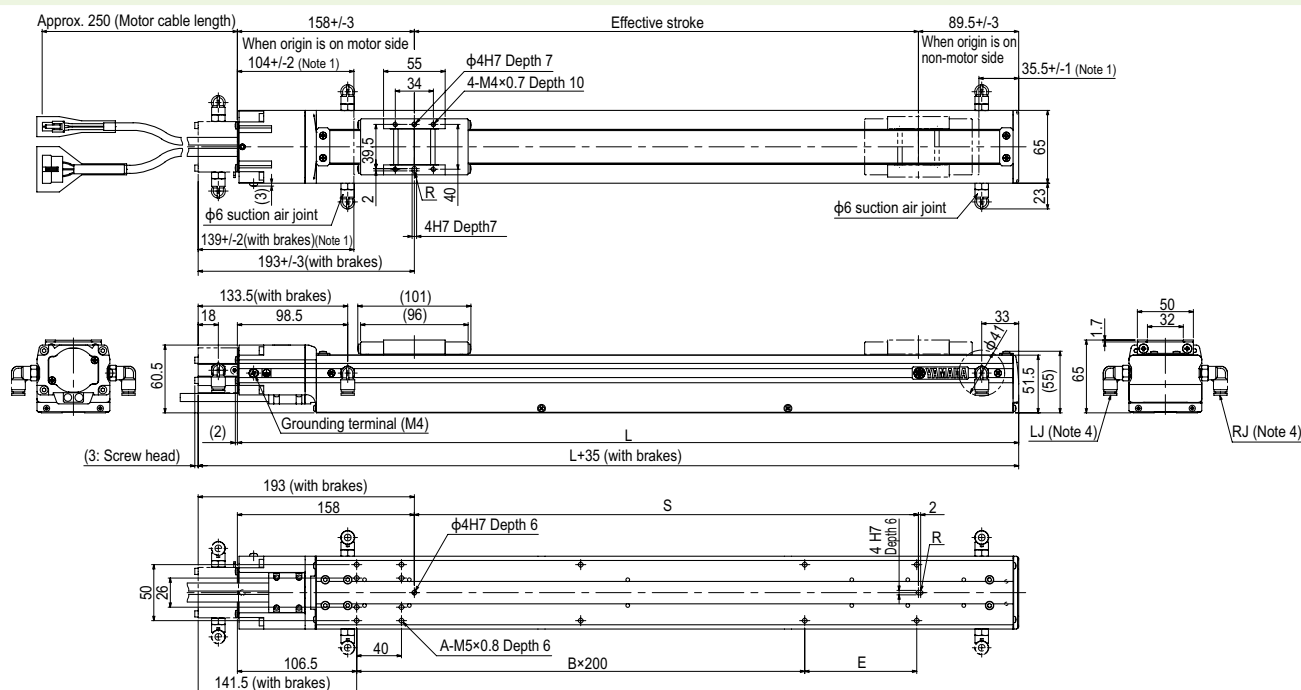


(Unit: N-m)		
MY	MP	MR
35	40	50

Controller

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

C6L



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	297.5	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5	747.5	797.5	847.5	897.5	947.5	997.5	1047.5
A	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18
B	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4
E	150	200	200	100	100	200	200	100	100	200	200	100	100	200	200	100
S	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Weight (kg) ^{Note 3}	2.6	2.9	3.1	3.4	3.7	4.0	4.3	4.6	4.9	5.2	5.4	5.7	6.0	6.3	6.6	6.8
Maximum speed for each stroke ^{Note 5} (mm/sec)	Lead 20	1000												900	800	700
	Speed setting	-												90%	80%	70%
	Lead 12	800												680	600	520
	Lead 6	400												340	300	260
	Speed setting	-												85%	75%	65%

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



Ordering method

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

Note 1. The model with a lead of 20mm cannot select specifications with brake (vertical specifications).

Note 2. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.692 for details on robot cable.

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

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

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

Basic specifications

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

Note 1. Positioning repeatability in one direction.

Note 2. When the stroke is longer than 600mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.

Note 3. Per 1cf (0.1um base), when suction blower is used.

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

Allowable overhang ^{Note}

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

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

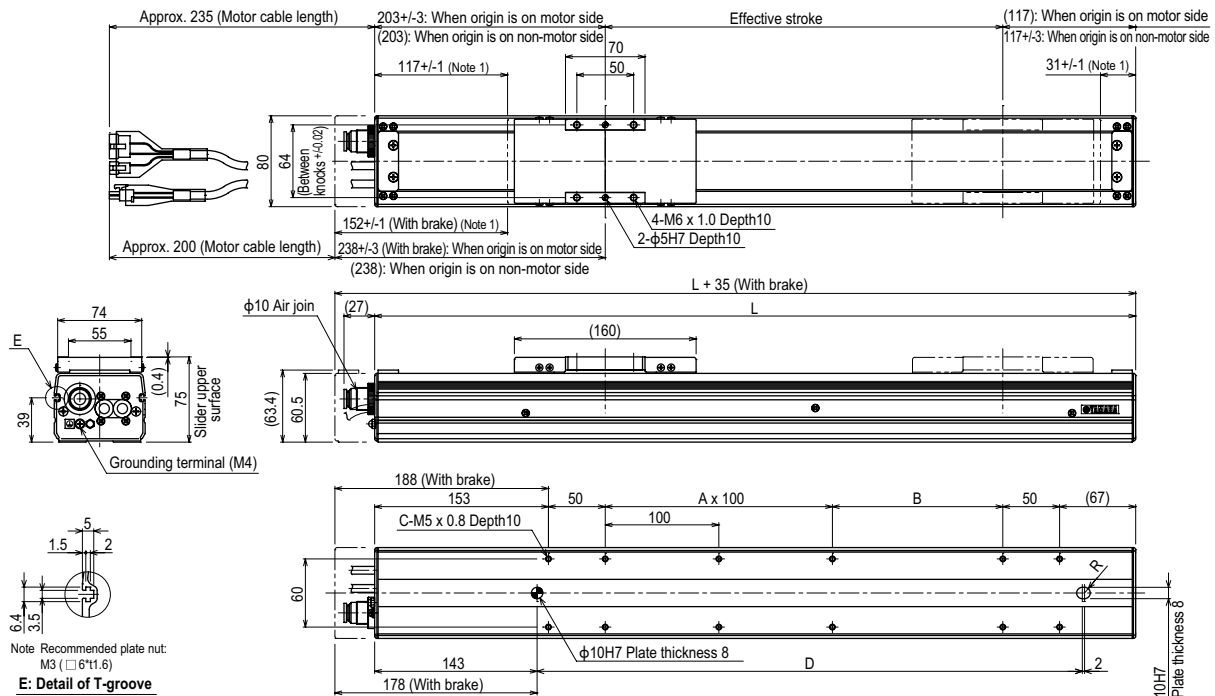
Static loading moment

	MY	MP	MR
(Unit: N·m)	70	95	110

Controller

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

C8



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

Note 1. Stop positions are determined by the mechanical stoppers at both ends.

Note 2. Minimum bend radius of motor cable is R50.

Note 3. Weight of models with no brake. The weight of brake-attached models is 0.3 kg heavier than the models with no brake shown in the table.

Note 4. When the stroke is longer than 600mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

Ordering method

C8L						TSX			
Model	Lead	Brake	Option	Stroke	Cable length	Positioner	Driver: Power-supply voltage / Power capacity	LCD monitor	I/O selection
	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)	TS-X	105: 100V/100W or less 205: 200V/100W or less	No entry: None L: With LCD	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board
						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
						RDV-X	2	05	RBR1
						Driver	Power-supply voltage 2: AC200V	Driver: Power capacity 05: 100W or less	Regenerative unit

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

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

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

Basic specifications

AC servo motor output (W)	100		
Repeatability ^{Note 1} (mm)	+/-0.01		
Deceleration mechanism	Ball screw φ15		
Ball screw lead (mm)	20	10	5
Maximum speed ^{Note 2} (mm/sec)	1000	600	300
Maximum payload (kg)	Horizontal	20	40
	Vertical	4	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 × 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)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)			
	A	B	C		A	B	C		A	B	C
Lead 20				Lead 20				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				Lead 10				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				Lead 5				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.

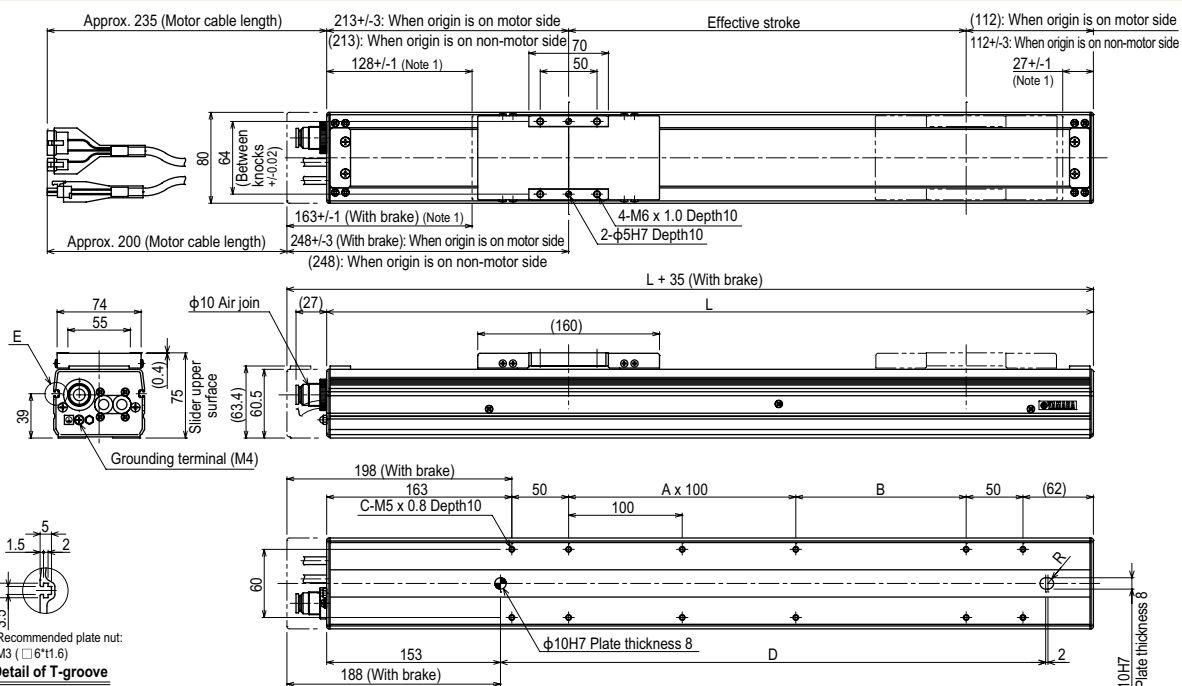
Static loading moment

(Unit: N·m)		
MY	MP	MR
70	95	110

Controller

Controller	Operation method
SR1-X05 RCX320 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)	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.4	6.7	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.2	9.5
Maximum speed (mm/sec)																			
Lead 20	1000																		
Speed setting	-																		
Lead 10	600																		
Lead 5	300																		
Speed setting	-																		

Note 1. Stop positions are determined by the mechanical stoppers at both ends.

Note 2. Minimum bend radius of motor cable is R50.

Note 3. Weight of models with no brake. The weight of brake-attached models is 0.3 kg heavier than the models with no brake shown in the table.

Note 4. When the stroke is longer than 700mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

Ordering method

C8LH	Model	Lead	Option	Stroke	Cable length	TSX	SR1-X	RDV-X
		20: 20mm 10: 10mm 5: 5mm	Origin position change None: Standard Z: Non-motor side	150 to 1050 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	Positioner TS-X Driver: Power-supply voltage / Power capacity 105: 100V/100W or less 205: 200V/100W or less LCD monitor No entry: None L: With LCD	Controller 05 Driver: Power capacity 05: 100W or less Usable for CE No entry: Standard E: CE marking	Driver 2 Power-supply voltage 2: AC200V Driver: Power capacity 05: 100W or less
							I/O selection N: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	Battery B: With battery (Absolute) N: None (Incremental)
							I/O selection N: NPN PN: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	Regenerative unit RBR1

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

Basic specifications

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

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

Allowable overhang

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

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

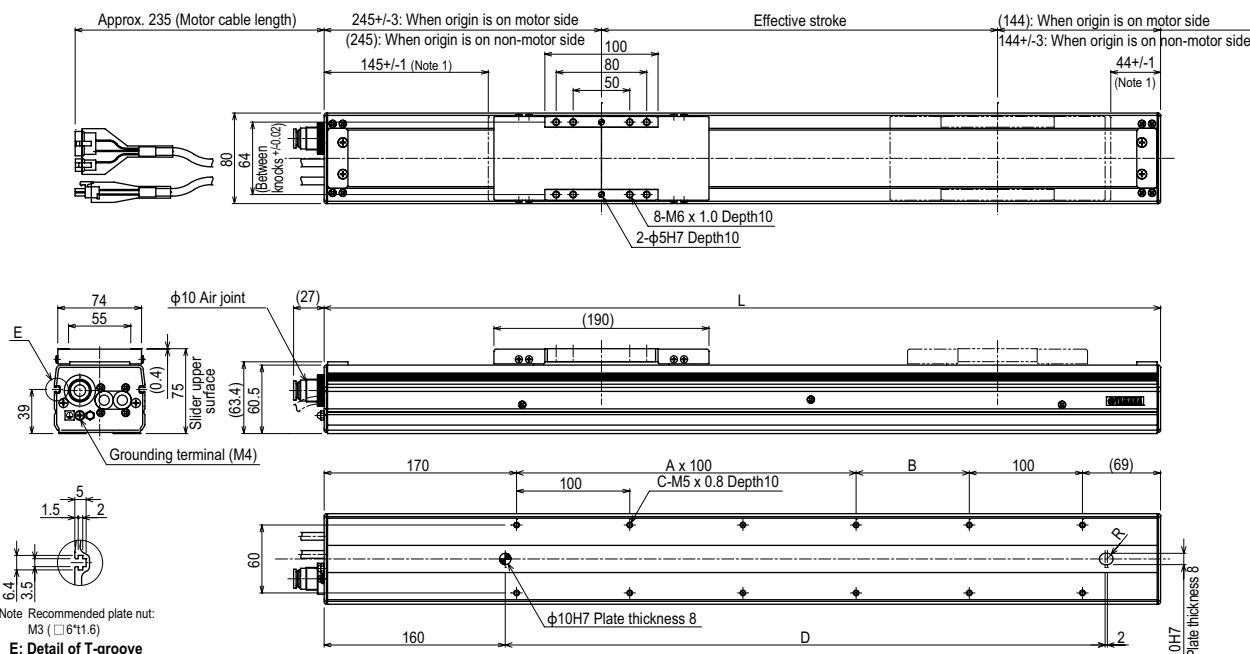
Static loading moment

	MY	MP	MR
(Unit: N·m)	128	163	143

Controller

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

C8LH



Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	539	589	639	689	739	789	839	889	939	989	1039	1089	1139	1189	1239	1289	1339	1389	1439
A	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10
B	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100
C	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26
D	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230
Weight (kg)	4.7	5.0	5.3	5.6	5.9	6.2	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.7	10.0	10.3
Maximum speed (mm/sec)																			
Lead 20																			
Speed setting																			
Lead 10																			
Speed setting																			
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						TSX					
Model	Lead	Brake	Option	Stroke	Cable length Note 2	Positioner Note 3	Driver: Power-supply voltage / Power capacity	Regenerative unit	LCD monitor	I/O selection	Battery
	20: 20mm 10: 10mm 5: 5mm	No entry: With no brake BK: With brake	Origin position change None: Standard Z: Non-motor side Note 1	150 to 1050 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	TS-X	105: 100V/100W or less 205: 200V/100W or less	No entry: None R: With RGT	No entry: None L: With LCD	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board Note 4	B: With battery (Absolute) N: None (Incremental)
SR1-X						05					
Controller	Driver: Power capacity	Usable for CE	Regenerative unit	I/O selection	Battery						
	05: 100W or less	No entry: Standard E: CE marking	No entry: None R: With RGT	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	B: With battery (Absolute) N: None (Incremental)						
RDV-X						2					
Driver	Power-supply voltage	Driver: Power capacity	Regenerative unit								
	2: AC200V	05: 100W or less									

Note 1. If selecting 5mm lead specifications then the origin point cannot be changed to the non-motor side.

Note 2. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.692 for details on robot cable.

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

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

- Note 1. If selecting 5mm lead specifications then the origin point cannot be changed to the non-motor side.
 Note 2. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.692 for details on robot cable.
 Note 3. See P.600 for DIN rail mounting bracket.
 Note 4. Select this selection when using the gateway function.

Basic specifications

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

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

Allowable overhang

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)			
	A	B	C		A	B	C		A	C	
Lead 20	1875	530	510	Lead 20	496	451	1826	Lead 20	2461	2492	
10kg	1079	247	242	10kg	218	168	1002	2kg	1213	1244	
20kg	628	106	107	20kg	78	27	497	4kg	585	617	
Lead 10	765	156	164	Lead 10	230	170	1036	Lead 10	627	658	
15kg	425	62	66	15kg	80	29	506	8kg	280	312	
30kg	350	38	42	30kg	30	0	311	10kg	210	242	
Lead 5	960	63	68	Lead 5	234	170	2716	10kg	213	244	
30kg	565	25	28	20kg	82	29	1206	15kg	119	151	
60kg	470	16	17	30kg	31	0	711	20kg	72	104	

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

Static loading moment

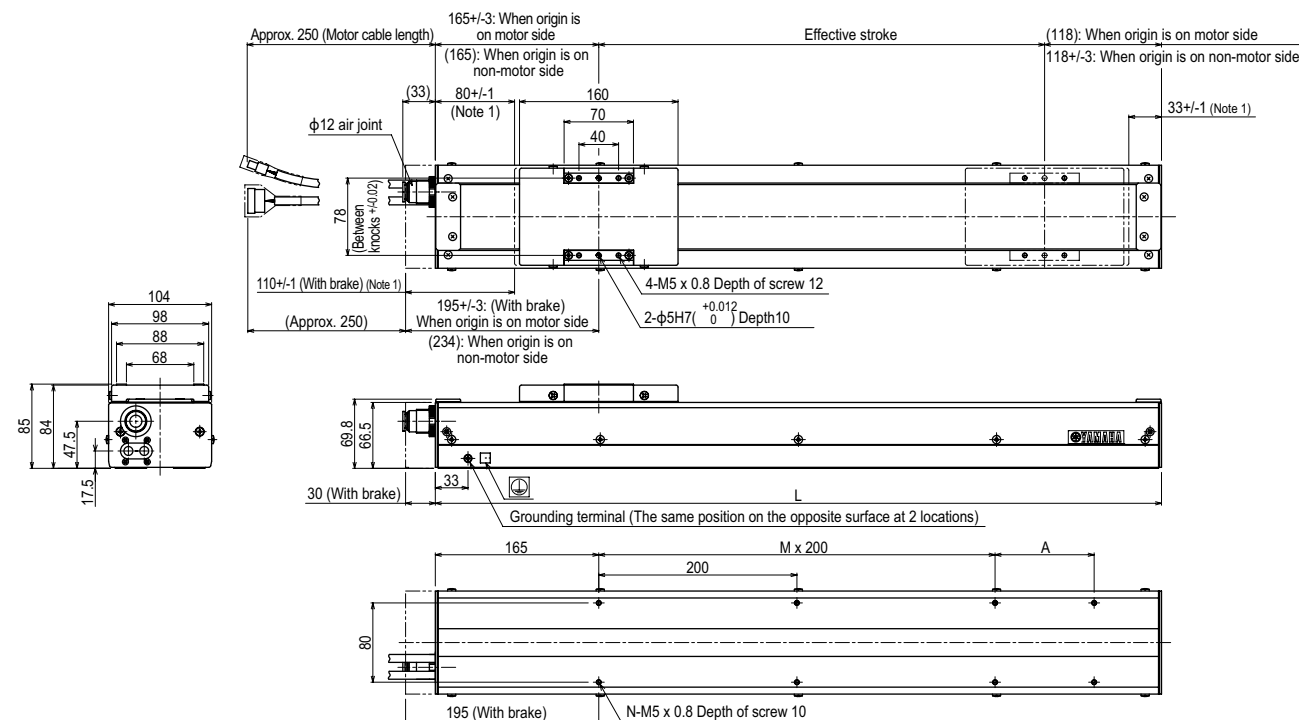
MY	MP	MR
119	119	105

Controller

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

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

C10



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

Note 1. Stop positions are determined by the mechanical stoppers at both ends.
 Note 2. Minimum bend radius of motor cable is R50.
 Note 3. Weight of models with no brake. The weight of brake-attached models is 0.4 kg heavier than the models with no brake shown in the table.
 Note 4. When the stroke is longer than 750mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.



Ordering method

C14						TSX						SR1-X						RDV-X					
Model	Lead	Brake	Option		Stroke	Cable length ^{Note 1}	Positioner ^{Note 2}	Driver: Power-supply voltage / Power capacity	Regenerative unit	LCD monitor	I/O selection	Battery	Controller	05	Usable for CE	Regenerative unit	I/O selection	Battery	2	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)	TS-X	105: 100V/100W or less 205: 200V/100W or less	No entry: None R: With RGT	No entry: None L: With LCD	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board ^{Note 3}	B: With battery (Absolute) N: None (Incremental)		05: 100W or less	No entry: Standard E: CE marking	No entry: None R: With RG1	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	B: With battery (Absolute) N: None (Incremental)					
Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.692 for details on robot cable.																							
Note 2. See P.600 for DIN rail mounting bracket.																							
Note 3. Select this selection when using the gateway function.																							

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

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

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

Basic specifications

AC servo motor output (W)	100
Repeatability (mm)	+/-0.01
Deceleration mechanism	Ball screw $\phi 15$
Ball screw lead (mm)	20 10 5
Maximum speed (mm/sec)	1000 500 250
Maximum payload (kg)	Horizontal 30 55 80 Vertical 4 10 20
Rated thrust (N)	84 169 339
Stroke (mm)	150 to 1050 (50mm pitch)
Overall length (mm)	Horizontal Stroke+285 Vertical Stroke+315
Maximum outside dimension of body cross-section (mm)	W136 x H96
Cable length (m)	Standard: 3.5 / Option: 5, 10
Degree of cleanliness	CLASS 10
Intake air (Nl/min)	30 to 90

Note 1. Positioning repeatability in one direction.

Note 2. When the stroke is longer than 750mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.

Note 3. Per 1cf (0.1um base), when suction blower is used.

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

Allowable overhang

Horizontal installation (Unit: mm)

		A	B	C
Lead 20	5kg	2127	1384	968
	15kg	1177	459	425
	30kg	1247	242	291
Lead 10	20kg	1120	349	353
	40kg	857	179	215
	55kg	932	138	182
Lead 5	50kg	2017	250	335
	60kg	1477	134	192
	80kg	1452	106	157

Wall installation (Unit: mm)

		A	B	C
Lead 20	5kg	1047	968	1553
	15kg	387	264	748
	30kg	206	97	633
Lead 10	20kg	299	180	658
	40kg	127	49	363
	55kg	79	16	296
Lead 5	50kg	233	103	1033
	60kg	75	13	433
	80kg	35	0	242

Vertical installation (Unit: mm)

		A	B
Lead 20	1kg	600	600
	2kg	1200	1200
	4kg	1141	885
Lead 10	4kg	1216	943
	8kg	621	482
	10kg	503	390
Lead 5	10kg	574	445
	15kg	370	287
	20kg	268	208

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

Static loading moment

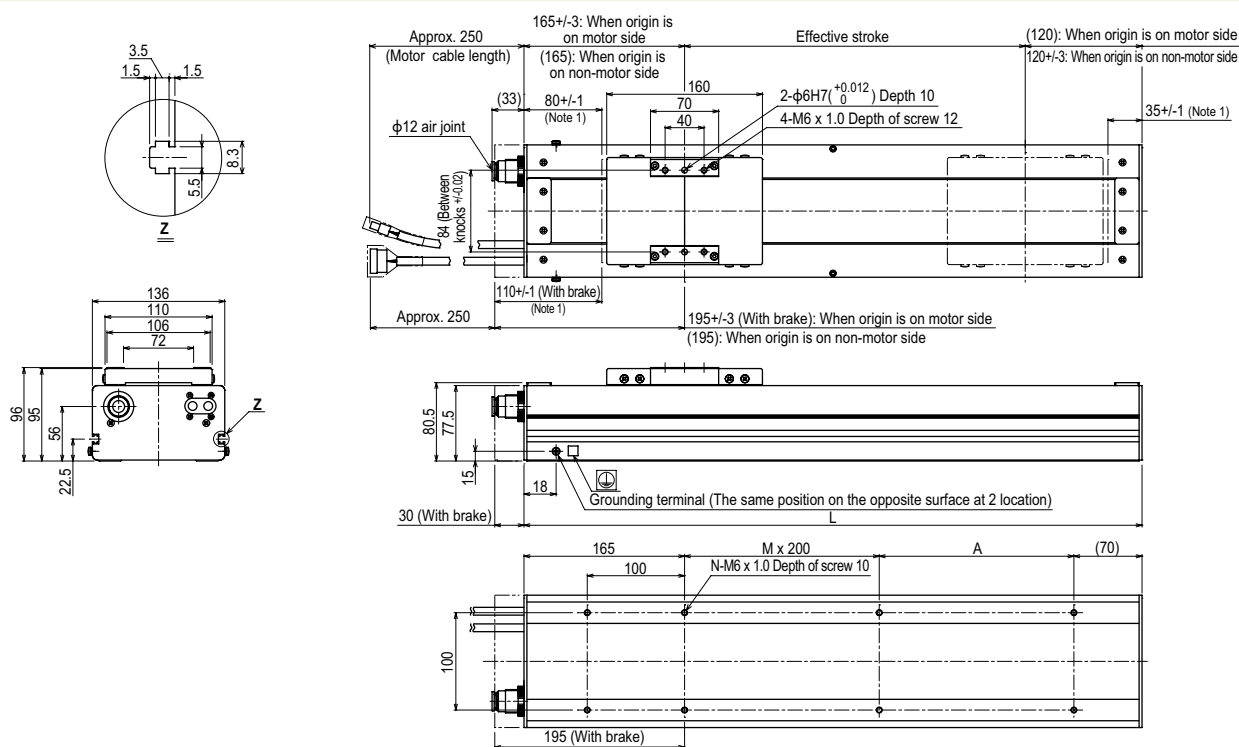
			(Unit: N·m)
MY	MP	MR	
232	233	204	

Controller

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

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

C14



Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	
L	435	485	535	585	635	685	735	785	835	885	935	985	1035	1085	1135	1185	1235	1285	1335	
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	
N	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	
Weight (kg) ^{Note 3}	9.2	9.9	10.5	11.2	11.7	12.4	13.0	13.7	14.3	15.0	15.5	16.2	16.8	17.5	18.1	18.8	19.3	20.0	20.6	
Maximum speed (mm/sec) ^{Note 4}	Lead 20													950	950	750	750	600	600	500
	Lead 10													475	475	375	375	300	300	250
	Lead 5													237	237	187	187	150	150	125
	Speed setting													95%	95%	75%	75%	60%	60%	50%

Note 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.

C₁₄H

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



Ordering method

C14H					
Model	Lead	Brake	Option	Stroke	Cable length Note 2
	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)
TSX					
Positioner Note 3					
TS-X					
SR1-X					
Controller	10				
	Driver: Power capacity 10: 200W	Usable for CE No entry: Standard E: CE marking	Regenerative unit No entry: None R: With RG1	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
RDV-X					
Driver	2	10	RBR1		
	Power-supply voltage 24V AC/24V	Driver: Power capacity 10: 200W/100W	Regenerative unit No entry: None R: With RG1		

Note 1. If selecting 5mm lead specifications then the origin point cannot be changed to the non-motor side.

Note 2. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.692 for details on robot cable.

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

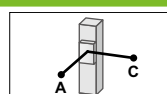
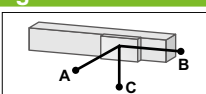
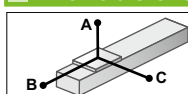
Note 4. Select this selection when using the gateway function.

Basic specifications

AC servo motor output (W)	200		
Repeatability ^{Note 1} (mm)	+/-0.01		
Deceleration mechanism	Ball screw $\phi 15$		
Ball screw lead (mm)	20	10	5
Maximum speed ^{Note 2} (mm/sec)	1000	500	250
Maximum payload (kg)	Horizontal	40	80
	Vertical	8	20
Rated thrust (N)		170	341
Stroke (mm)		150 to 1050	50(mm pitch)
Overall length (mm)	Horizontal	Stroke+349	
	Vertical	Stroke+379	
Maximum outside dimension of body cross-section (mm)		W136 x H96	
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 750mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, the speed setting on the program by referring to the maximum speeds shown in the table below.
 Note 3. Per 1Cf (0.1μm base), when suction blower is used.
 Note 4. The necessary intake amount varies depending on the use conditions and environment.

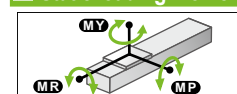
Allowable overhang ^{Note}



Horizontal installation (Unit: mm)					Wall installation (Unit: mm)					Vertical installation (Unit: mm)				
		A	B	C			A	B	C			A	C	
Lead 20	10kg	2247	1675	958	Lead 20	10kg	987	1210	1678	Lead 20	4kg	2400	2008	
	20kg	1397	855	528		20kg	497	548	958		6kg	1687	1358	
	40kg	1037	445	318		40kg	247	217	598		8kg	1287	1033	
	30kg	1937	583	478		30kg	402	328	1238		10kg	1347	1088	
Lead 10	50kg	1637	364	323	Lead 10	50kg	227	152	878	Lead 10	15kg	887	718	
	80kg	1717	242	235		80kg	119	74	678		20kg	657	538	
	60kg	2443	311	313		60kg	197	108	1308		20kg	747	608	
	80kg	2193	242	250		80kg	127	53	1008		25kg	663	484	
Lead 5	100kg	2000	202	213	Lead 5	100kg	85	20	788	Lead 5	30kg	491	396	

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

■ Static loading moment



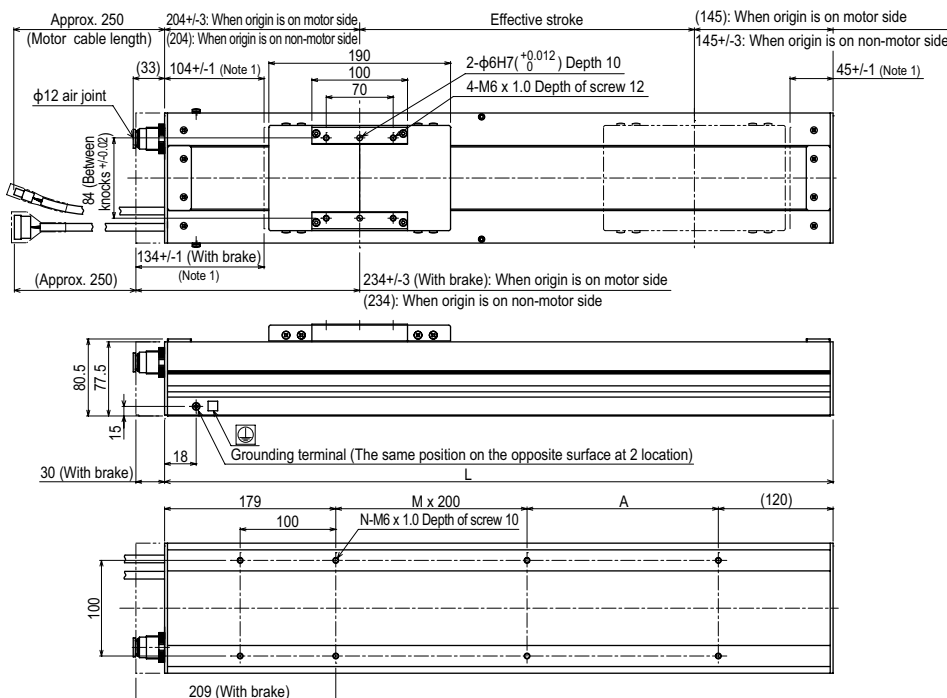
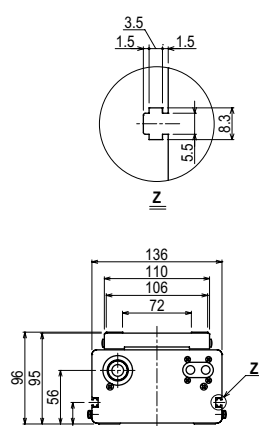
(Unit: N·m)		
MY	MP	MR
293	294	258

Controller

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

Note. Regenerative unit is required when used vertically.

C14H



Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	499	549	599	649	699	749	799	849	899	949	999	1049	1099	1149	1199	1249	1299	1349	1399
A	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
M	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5
N	6	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16
Weight (kg)	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 ^{Note 4} (mm/sec)	Lead 20	1000											950	950	750	500	600	600	500
	Lead 10	500											475	475	375	375	300	300	250
	Lead 5	250											237	237	187	187	150	150	125
	Speed setting	—											95%	95%	75%	75%	60%	60%	50%

Note 1. Stop positions are determined by the mechanical stoppers at both ends.

Note 2. Minimum bend radius of motor cable is R50.

Note 3. Weight of models with no brake. The weight of brake-attached models is 0.4 kg heavier than the models with no brake shown in the table.

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



Ordering method

C17

Model	Lead	Brake	Option	Stroke	Cable length Note 1
	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)

TSX

Positioner Note 2	Driver: Power-supply voltage / Power capacity 220: 200V/400 to 600W	Regenerative unit	LCD monitor	I/O selection	Battery
TS-X		No entry: None R: With RGT	No entry: None L: With LCD	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board Note 3	B: With battery (Absolute) N: None (Incremental)

SR1-X

Controller	Driver: Power capacity 20: 400 to 600W	Usable for CE	Regenerative unit	I/O selection	Battery
		No entry: None 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	Power-supply voltage 2: AC200V	Driver: Power capacity 20: 400W or less	Regenerative unit
			RBR1 (Horizontal) RBR2 (Vertical)

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

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

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

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

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

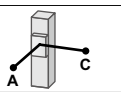
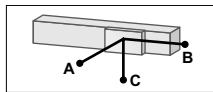
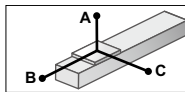
Note 3. Select this selection when using the gateway function.

Basic specifications

AC servo motor output (W)		400	
Repeatability ^{Note 1} (mm)		+/-0.01	
Deceleration mechanism		Ball screw φ20	
Ball screw lead (mm)		20	10
Maximum speed ^{Note 2} (mm/sec)		1000	600
Maximum	Horizontal	80	120
payload (kg)	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 ^{Note 3}	
Intake air (Nl/min)		30 to 90 ^{Note 4}	

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

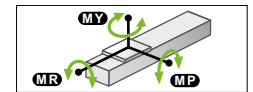
Allowable overhang Note



Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)					
Lead 20	30kg	2660	871	1040	Lead 20	30kg	1017	789	2576	Lead 20	5kg	3000	3000
	50kg	1911	508	615		50kg	583	426	1808		10kg	2443	2443
Lead 40	80kg	1541	303	377	Lead 40	80kg	338	221	1380	Lead 40	15kg	1633	1633
	60kg	2443	418	580		60kg	525	336	2443		15kg	1728	1728
Lead 100	100kg	2000	237	330	Lead 100	100kg	271	155	2000	Lead 100	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

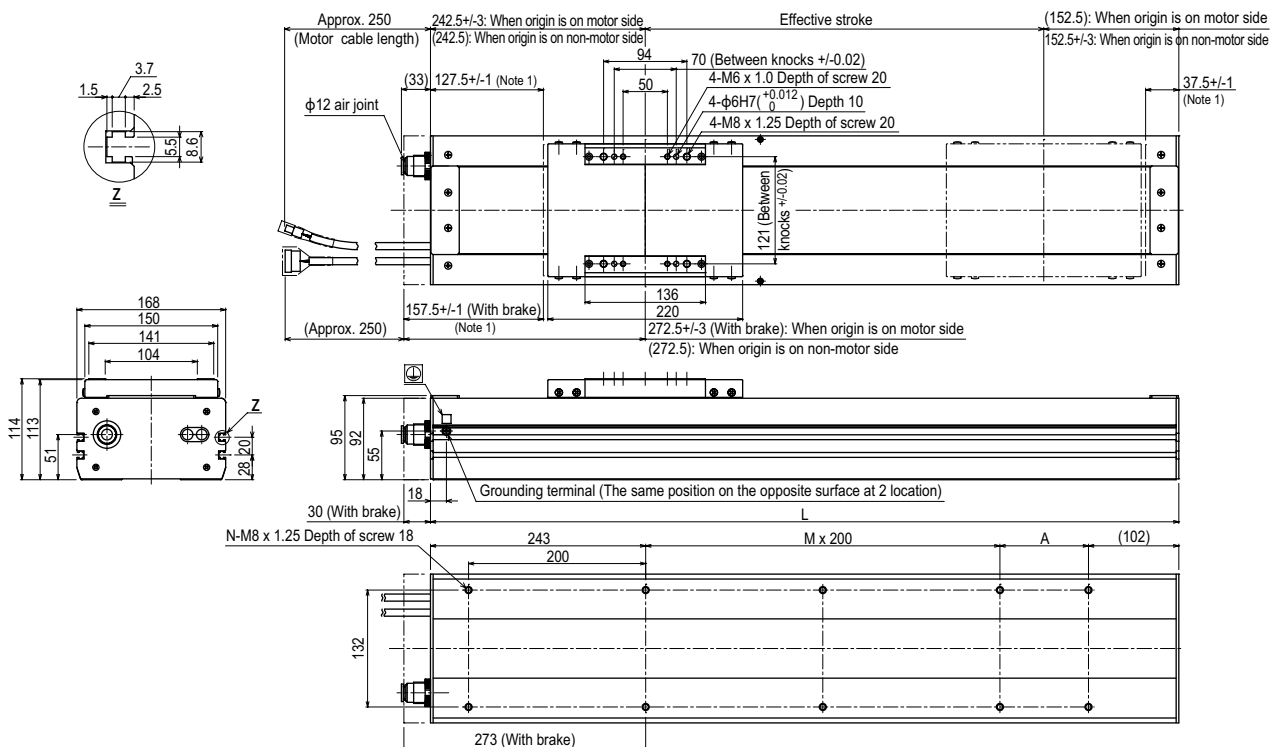
Controller

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

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

- 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	145	155	160	165										
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	6	6	6										
N	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	18	18	18										
Weight (kg)	Note 3																15.0	16.0	17.0	17.9	18.9	19.8	20.8	21.7	22.7	23.6	24.6	25.5	26.5	27.4	28.4	
Maximum speed (mm/sec)	Lead 20								1000								800								600							
	Lead 10								500								400								300							
	Speed setting								—								80%								80%							

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

C17L

● Origin on the non-motor side is selectable

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

Ordering method

C17L - 50					
Model	Lead	Brake	Option	Stroke	Cable length
		No entry: With no brake BK: With brake	Origin position change None: Standard Z: Non-motor side	1150 to 2050 (100mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)

TSX	220	R			
Positioner Note 2 TS-X	Driver: Power-supply voltage / Power capacity Note 3 220: 200V/400 to 600W	Regenerative unit 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 N: None I: Incremental

SR1-X	20		R		
Controller	Driver: Power capacity Note 3 20: 400 to 600W	Usable for CE No entry: Standard E: CE marking	Regenerative unit 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)

RDV-X	2	20			
Driver	Power-supply voltage 2: AC200V	Driver: Power capacity Note 3 20: 400W or less	Regenerative unit RBR1 (Horizontal) RBR2 (Vertical)		

Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.692 for details on robot cable.
Note 2. See P.600 for DIN rail mounting bracket.
Note 3. Acceleration / deceleration is different depending the Positioner or Controller or Driver.
Note 4. Select this selection when using the gateway function.

Basic specifications

AC servo motor output (W)	600
Repeatability Note 1 (mm)	+/- 0.02
Deceleration mechanism	Ball screw $\phi 25$
Ball screw lead (mm)	50
Maximum speed Note 2 (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 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 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 Note

	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			Vertical installation (Unit: mm)		
	A	B	C	A	B	C	A	C	
Lead 50									
10kg	4000	2687	3327	10kg	3436	2605	4000	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.

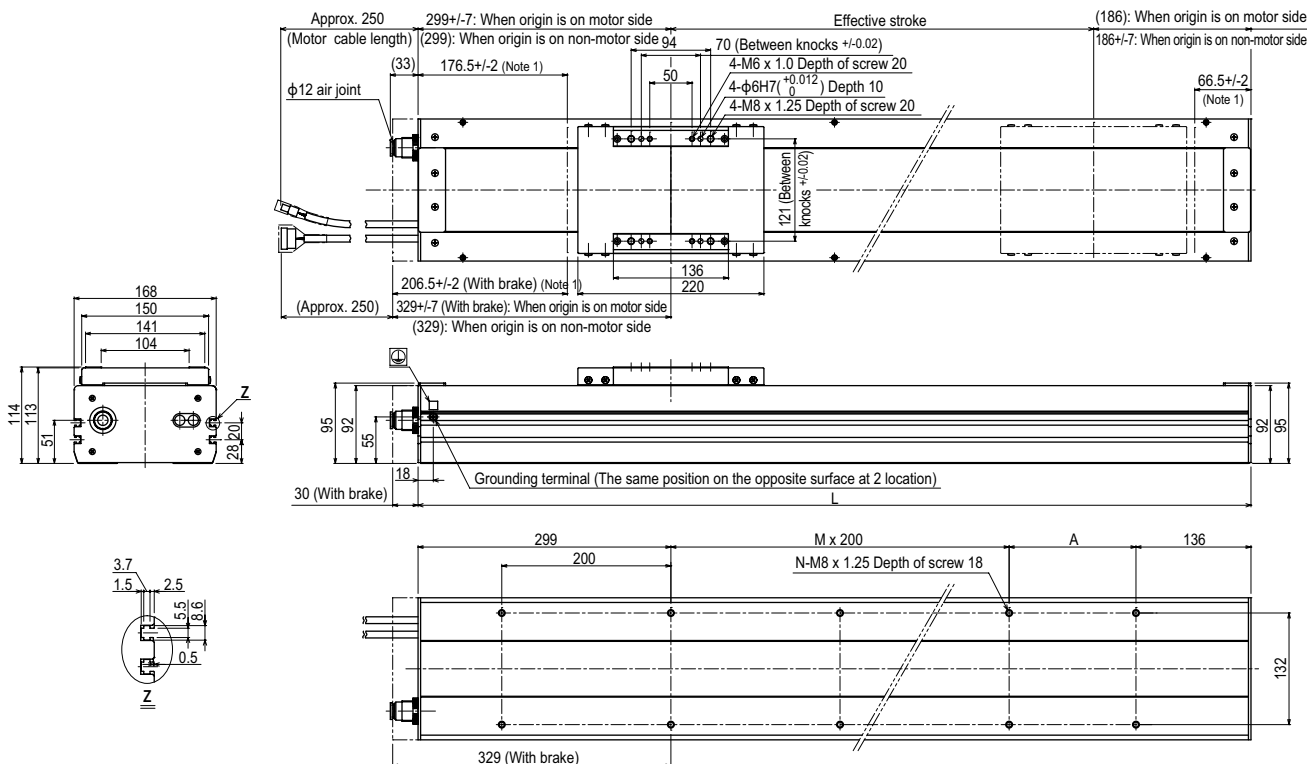
Static loading moment

(Unit: N·m)		
MY	MP	MR
1032	1034	908

Controller

Controller	Operation method
SR1-X20-R RCX320 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	—									

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.



Ordering method

C20						TSX 220					
Model	Lead	Brake	Option	Stroke	Cable length	Positioner	Driver	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	220: 200V/400 to 600W	No entry: None R: With RGT	No entry: None L: With LCD	N: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	B: With battery (Absolute) N: None (Incremental)
SR1-X 20						RDV-X 2					
Controller	Driver	Usable for CE	Regenerative unit	I/O selection	Battery	Driver	Power supply voltage	Driver	Power capacity	Regenerative unit	Battery
	20: 400 to 600W	No entry: Standard E: CE marking	No entry: None R: With RG1	N: NPN PN: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	B: With battery (Absolute) N: None (Incremental)		2: AC200V		20: 400W or less	RBR1 (Horizontal) RBR2 (Vertical)	

- Note 1. Only the model with specifications with brake (vertical specifications) can select a lead of 10mm.
 Note 2. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.692 for details on robot cable.
 Note 3. See P.600 for DIN rail mounting bracket.
 Note 4. Acceleration / deceleration is different depending the Positioner or Controller or Driver.
 Note 5. Select this selection when using the gateway function.

Basic specifications

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

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

Allowable overhang

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

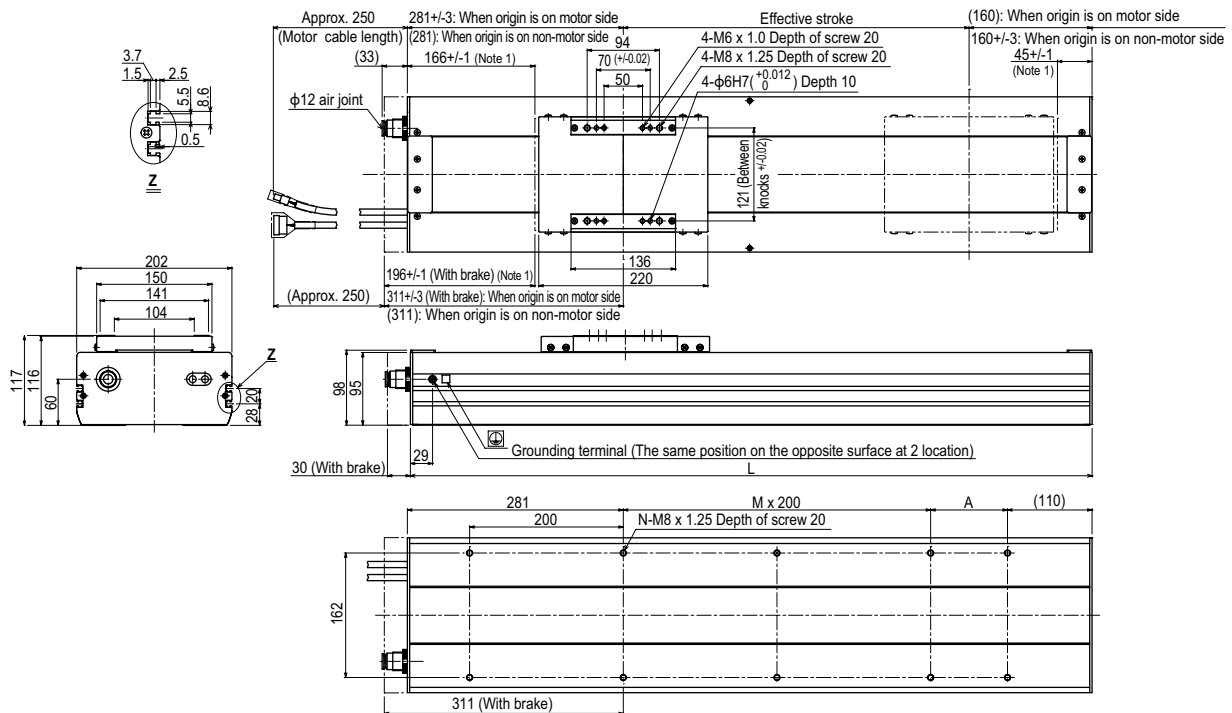
Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

Controller

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

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

C20



Effective stroke	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
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	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
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	Lead 20	1000										800										
	Lead 10	500										400										
(mm/sec)	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 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.

SXYxuC

2 axes

● Clean type ● Cable duct

Ordering method

SXYxuC

D

RCX320-2

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

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

Basic specifications

	X axis	Y axis
Axis construction ^{Note 1}	C14H	C14
AC servo motor output (W)	200	100
Repeatability ^{Note 2} (mm)	+/-0.01	+/-0.01
Drive system	Ball screw ϕ 15	Ball screw ϕ 15
Ball screw lead ^{Note 3} (Deceleration ratio) (mm)	20	20
Maximum speed ^{Note 4} (mm/sec)	1000	1000
Moving range (mm)	150 to 1050	150 to 650
Robot cable length (m)	Standard: 3.5 Option: 5, 10	
Degree of cleanliness	CLASS 10 ^{Note 5}	
Intake air (Nl/min)	60 ^{Note 6}	

Note 1. Use caution that the frame machining (installation holes, tap holes) differs from single-axis robots'.

Note 2. Positioning repeatability in one direction.

Note 3. Leads not listed in the catalog are also available. Contact us for details.

Note 4. When the X-axis stroke is longer than 850mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.

Note 5. Per 1cf (0.1µm base), when suction blower is used.

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

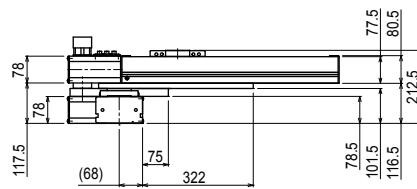
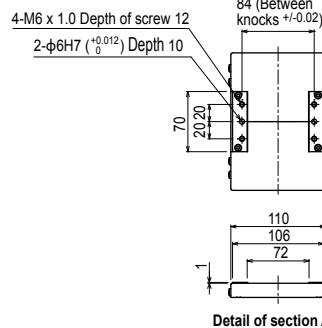
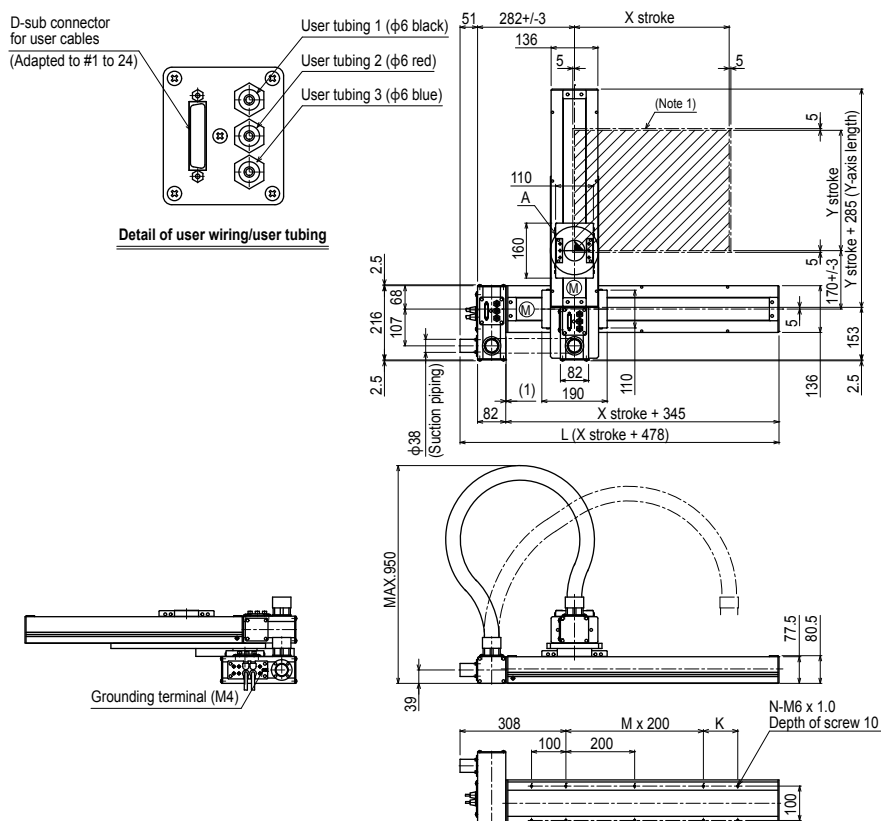
Maximum payload (kg)

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

Controller

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

SXYxuC 2 axes T1

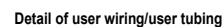


X stroke	150	250	350	450	550	650	750	850	950	1050
L	628	728	828	928	1028	1128	1228	1328	1428	1528
K	200	100	200	100	200	100	200	100	200	100
M	0	1	1	2	2	3	3	4	4	5
N	6	8	8	10	10	12	12	14	14	16
Y stroke	150	250	350	450	550	650				
Maximum speed for each stroke (mm/sec) ^{Note 2}	1000					800	650	550		
Speed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

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

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

T3



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

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

SXYxC

3 axes / ZSC

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

Ordering method

SXYxC	D					15		RCX340-3								
Model	Cable D: Cable duct	Combination T1 T3	X axis stroke 15 to 105cm	Y axis stroke 15 to 65cm	ZR axis ZSC12 ZSC6	Z axis stroke	Cable length 3L: 3.5m 5L: 5m 10L: 10m	Controller / Number of controllable axes	Safety standard	Option A (OP.A)	Option B (OP.B)	Option C (OP.C)	Option D (OP.D)	Option E (OP.E)	Absolute battery	

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

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

Basic specifications

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

Note 1. Use caution that the frame machining (installation holes, tap holes) differs from single-axis robots'.

Note 2. Positioning repeatability in one direction.

Note 3. Leads not listed in the catalog are also available. Contact us for details.

Note 4. When the X-axis stroke is longer than 850mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.

Note 5. Per 1cf (0.1μm base), when suction blower is used.

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

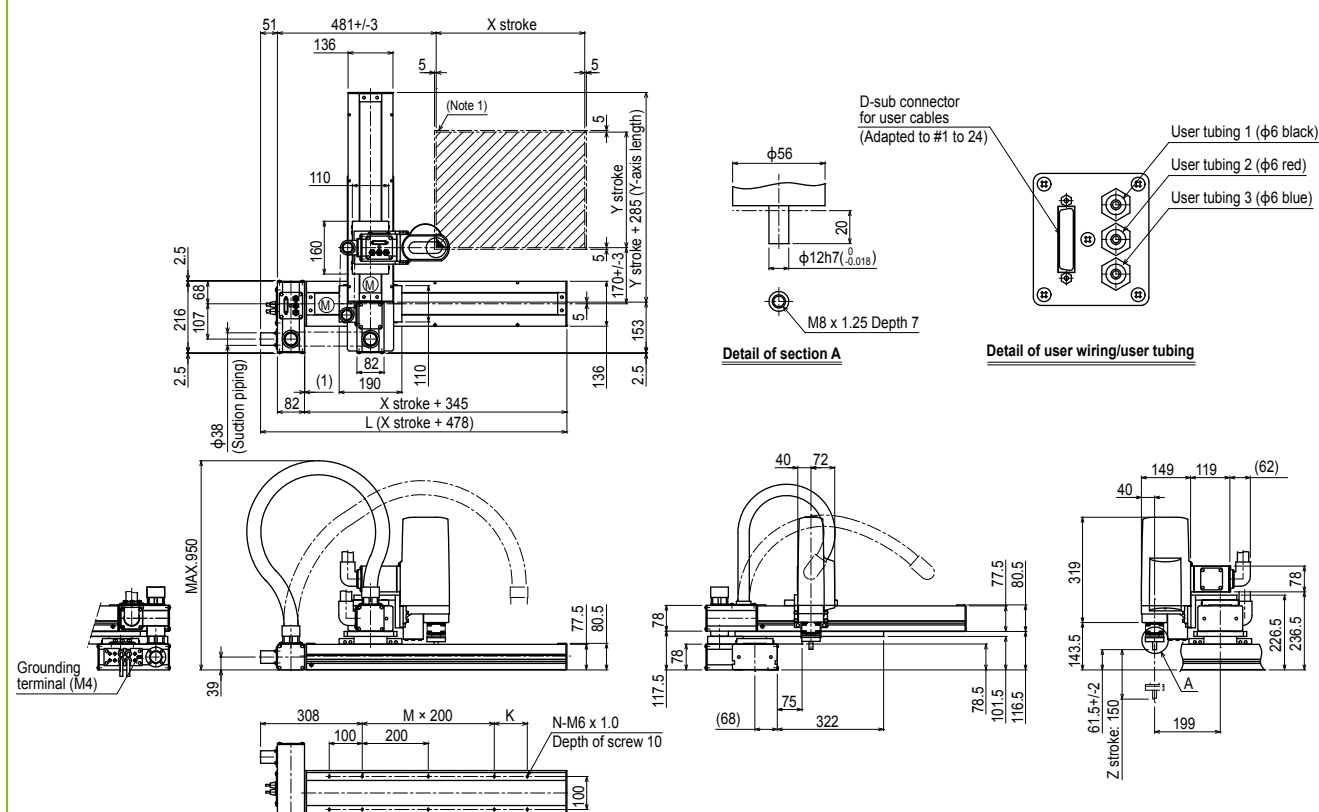
Maximum payload (kg)

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

Controller

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

SXYxC 3 axes / ZSC T1

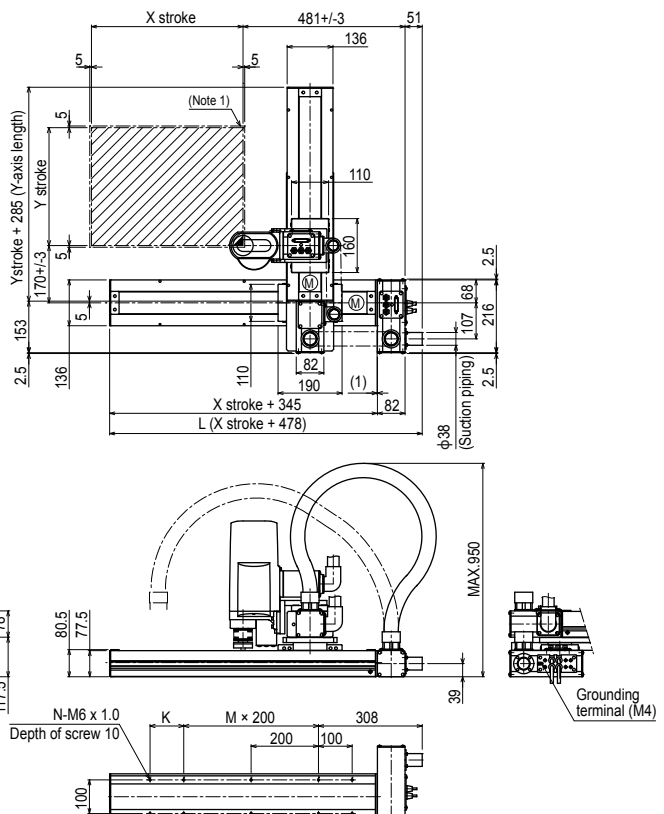
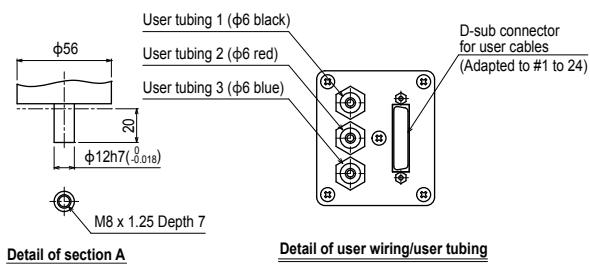


X stroke	150	250	350	450	550	650	750	850	950	1050
L	628	728	828	928	1028	1128	1228	1328	1428	1528
K	200	100	200	100	200	100	200	100	200	100
M	0	1	1	2	2	3	3	4	4	5
N	6	8	8	10	10	12	12	14	14	16
Y stroke	150	250	350	450	550	650				
Z stroke	150									
Maximum speed for each stroke (mm/sec) ^{Note 2}	X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

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

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

SXYxC 3 axes / ZSC T3



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

4 axes / ZRSC

- Clean type
- Cable duct
- ZR-axis integrated type

Ordering method

SXYxC

D

15

RCX340-4

Model

Cable

Combination

X axis stroke

Y axis stroke

ZR axis

Z axis stroke

Cable length

Controller / Number of controllable axes

Safety standard

Option A (OP.A)

Option B (OP.B)

Option C (OP.C)

Option D (OP.D)

Option E (OP.E)

Absolute battery

D: Cable duct

T1

T3

15 to 105cm

15 to 65cm

ZRSC12

ZRSC6

3L: 3.5m

5L: 5m

10L: 10m

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

Basic specifications

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

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

Maximum payload (kg)

Y stroke (mm)	ZRSC12	ZRSC6
150	3	5
250		
350		
450		
550		
650		4

Controller

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

SXYxC 4 axes / ZRSC T1

Grounding terminal (M4)

MAX 950

39

77.5

80.5

308

100

200

M x 200

K

N-M6 x 1.0

Depth of screw 10

100

78

78

117.5

78

75

322

78.5

101.5

116.5

78.5

140.5

58.5+/-2

150

199

322

40

149

119

(62)

78

226.5

236.5

Detail of section A

Detail of user wiring/user tubing

X stroke	150	250	350	450	550	650	750	850	950	1050
L	628	728	828	928	1028	1128	1228	1328	1428	1528
K	200	100	200	100	200	100	200	100	200	100
M	0	1	1	2	2	3	3	4	4	5
N	6	8	8	10	10	12	12	14	14	16

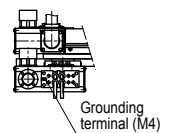
Y stroke	150	250	350	450	550	650
Z stroke	150					

Maximum speed for each stroke (mm/sec) ^{Note 2}	X axis	1000	800	650	550
Speed setting		—	80%	65%	55%

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

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

T3



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

YK180XC

Clean type: Extra small type

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

- Arm length 180mm
- Maximum payload 1kg

Ordering method

YK180XC - 100

RCX340-4

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

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

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		+/-120	+/-140	-	+/-360
AC servo motor output (W)		50	30	30	30
Repeatability ^{Note 1} (XYZ: mm) (R: °)		+/-0.01		+/-0.01	+/-0.004
Maximum speed (XYZ: m/sec) (R: °/sec)		3.3		0.7	1700
Maximum payload (kg)		1.0			
Standard cycle time: with 0.1kg payload ^{Note 2} (sec)		0.42			
R-axis tolerable moment of inertia ^{Note 3} (kgm ²)		0.01			
User wiring (sq × wires)		0.1 × 8			
User tubing (Outer diameter)		φ3 × 2			
Travel limit		1.Soft limit, 2.Mechanical limit (X, Y, Zaxis)			
Robot cable length (m)		Standard: 3.5 Option: 5, 10			
Weight (kg) (Excluding robot cable) ^{Note 4}		6.5			
Robot cable weight		1.5kg (3.5m) 2.1kg (5m) 4.2kg (10m)			
Degree of cleanliness		CLASS 10 (0.1 μm base)			
Intake air (Nℓ/min)		30			

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

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

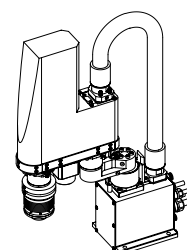
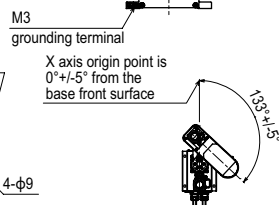
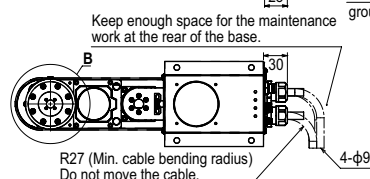
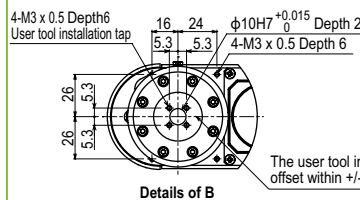
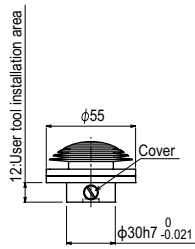
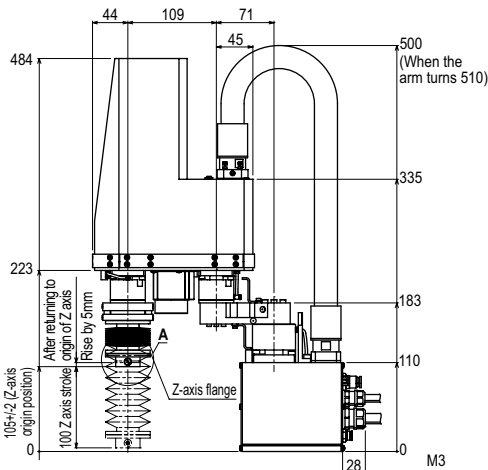
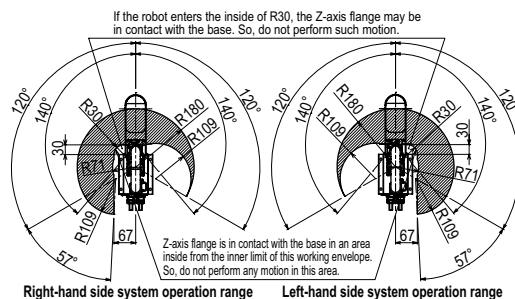
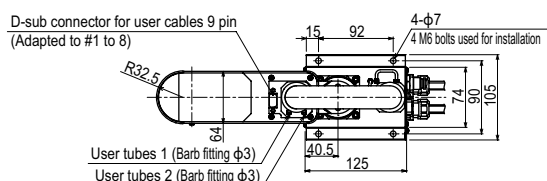
Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

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

Controller

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

YK180XC



YK220XC

Clean type: Extra small type

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

- Arm length 220mm
- Maximum payload 1kg

Ordering method

YK220XC - 100

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

RCX340-4

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

Basic specifications

	X axis	Y axis	Z axis	R axis
Axis specifications				
Arm length (mm)	111	109	100	—
Rotation angle (°)	+/-120	+/-140	—	+/-360
AC servo motor output (W)	50	30	30	30
Repeatability ^{Note 1} (XYZ: mm) (R: °)	+/-0.01		+/-0.01	+/-0.004
Maximum speed (XYZ: m/sec) (R: °/sec)	3.4		0.7	1700
Maximum payload (kg)	1.0			
Standard cycle time: with 0.1kg payload ^{Note 2} (sec)	0.45			
R-axis tolerable moment of inertia ^{Note 3} (kgm ²)	0.01			
User wiring (sq x wires)	0.1 x 8			
User tubing (Outer diameter)	φ3 x 2			
Travel limit	1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
Robot cable length (m)	Standard: 3.5 Option: 5, 10			
Weight (kg) (Excluding robot cable) ^{Note 4}	6.5			
Robot cable weight	1.5kg (3.5m) 2.1kg (5m) 4.2kg (10m)			
Degree of cleanliness	CLASS 10 (0.1μm base)			
Intake air (Nℓ/min)	30			

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

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

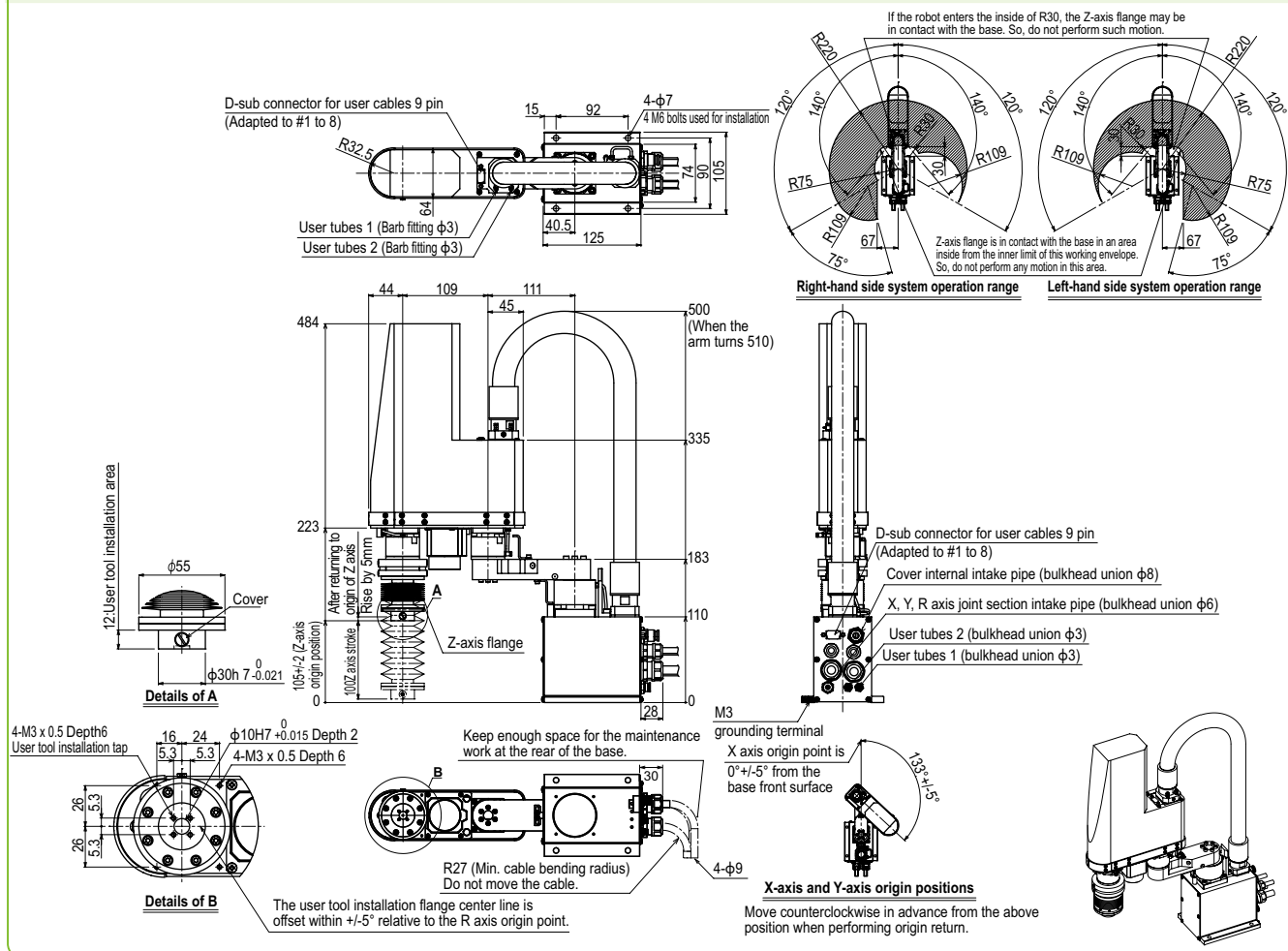
Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

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

Controller

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

YK220XC



YK250XGC

Clean type: Small type

- Arm length 250mm
- Maximum payload 4kg



Ordering method

YK250XGC - 150		S		RCX340-4								
Model	Z axis stroke 150: 150mm	Tool flange No entry: None F: With tool flange	Hollow shaft S: With hollow shaft	Cable length 3L: 3.5m 5L: 5m 10L: 10m	Controller / Number of controllable axes	Safety standard	Option A (OP.A)	Option B (OP.B)	Option C (OP.C)	Option D (OP.D)	Option E (OP.E)	Absolute battery

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

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		+/-129	+/-134	-	+/-360
AC servo motor output (W)		200	150	50	100
Repeatability ^{Note 1} (XYZ: mm) (R: °)		+/-0.01		+/-0.01	+/-0.004
Maximum speed (XYZ: m/sec) (R: °/sec)		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 × wires)		0.2×10			
User tubing (Outer diameter)		φ4×4			
Travel limit		1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
Robot cable length (m)		Standard: 3.5 Option: 5, 10			
Weight (kg)		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. ESD (ElectroStatic discharge) specifications are custom-ordered. Please contact our distributor.

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

Controller

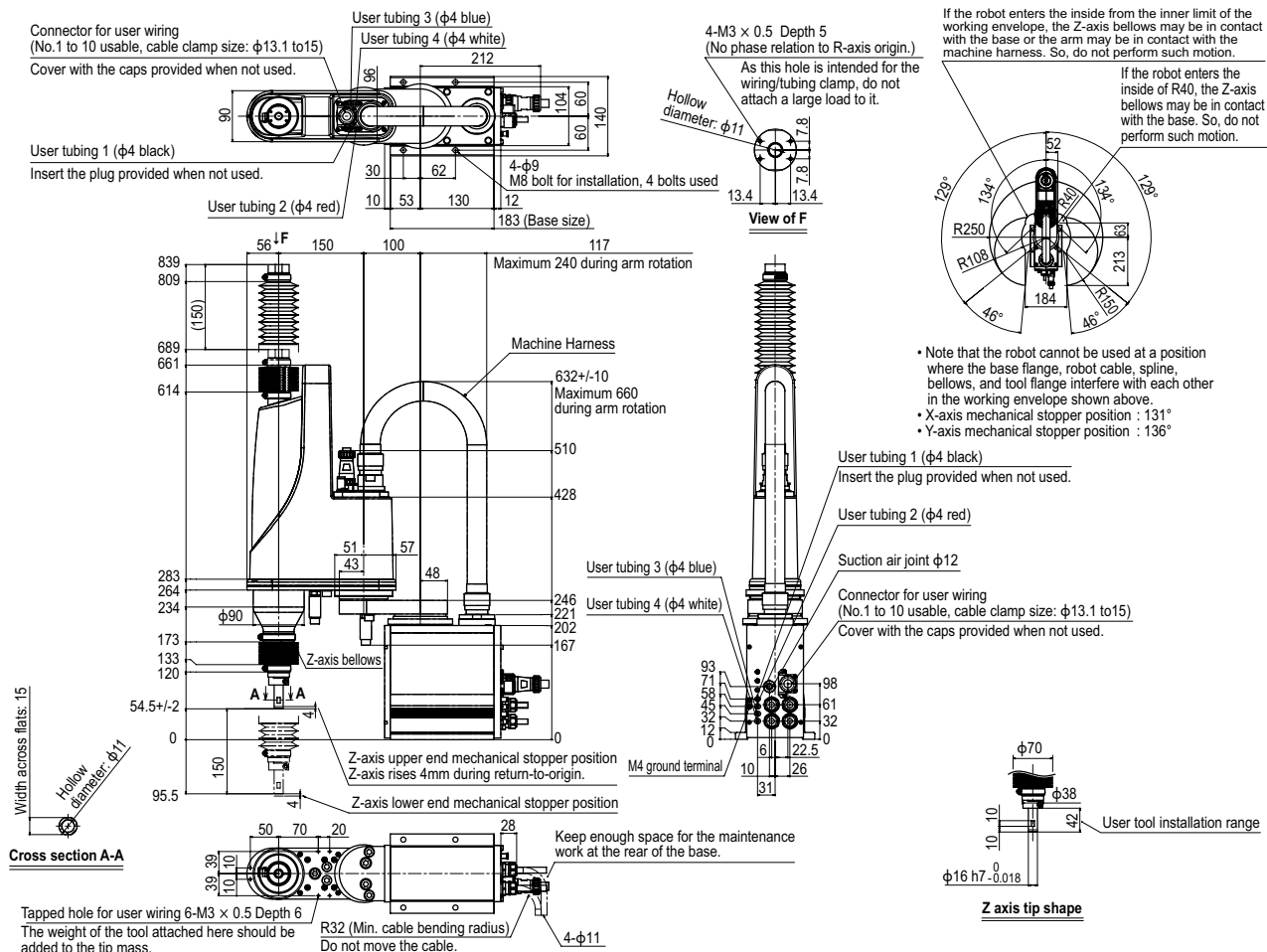
Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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

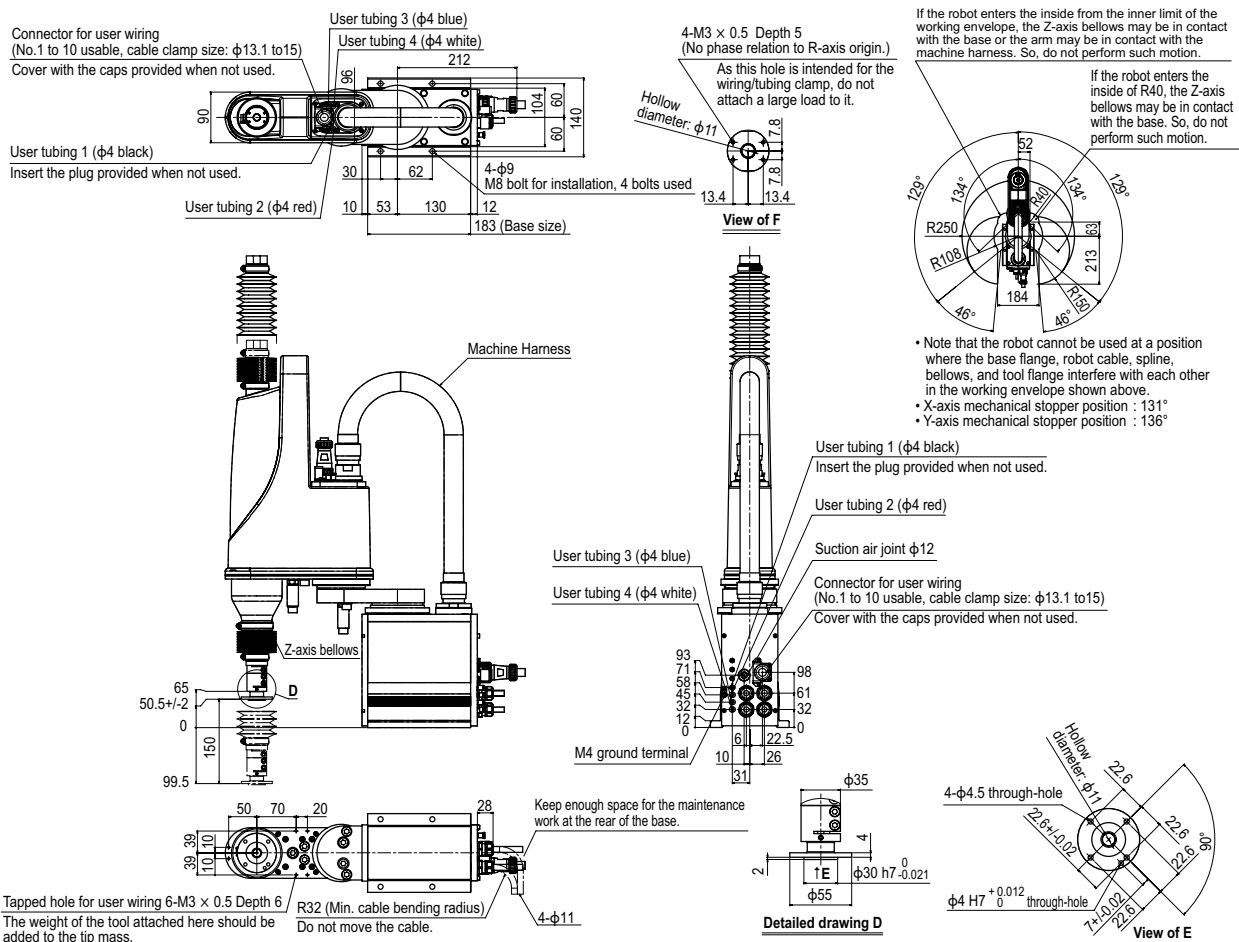
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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

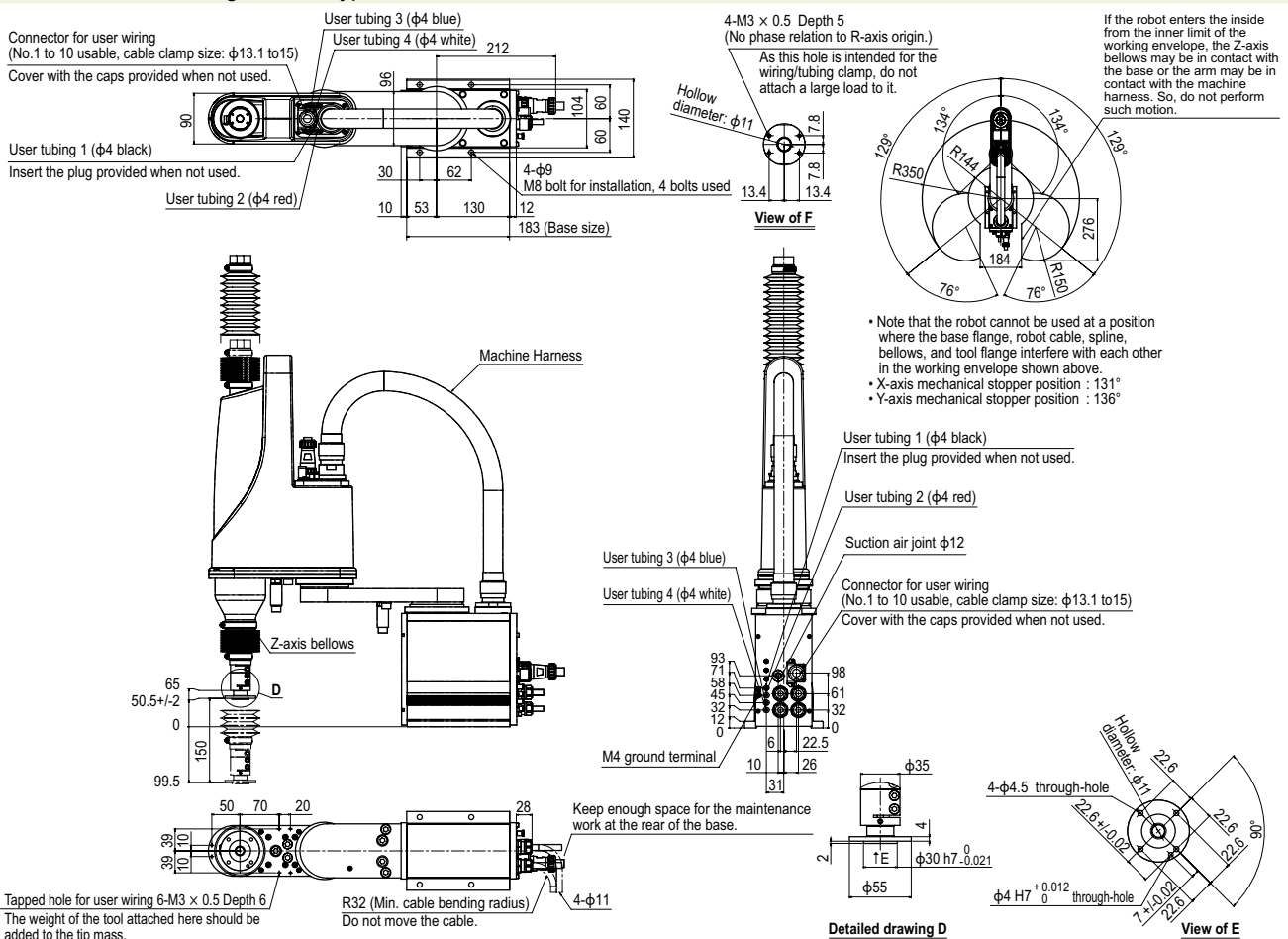
YK250XGC



YK250XGC Tool flange mount type



YK350XGC Tool flange mount type



YK400XGC

Clean type: Small type

- Arm length 400mm
- Maximum payload 4kg

Ordering method

YK400XGC - 150		S		RCX340-4								
Model	Z axis stroke	Tool flange	Hollow shaft	Cable length	Controller / Number of controllable axes	Safety standard	Option A (OP.A)	Option B (OP.B)	Option C (OP.C)	Option D (OP.D)	Option E (OP.E)	Absolute battery
	150: 150mm	No entry: None F: With tool flange	S: With hollow shaft	3L: 3.5m 5L: 5m 10L: 10m								

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

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		250	150	150	—
AC servo motor output (W)		+/-129	+/-144	—	+/-360
Repeatability ^{Note 1} (XYZ: mm) (R: °)		200	150	50	100
Maximum speed (XYZ: m/sec) (R: °/sec)		6.1		1.1	1020
Maximum payload (kg)		4			
Standard cycle time: with 2kg payload (sec) ^{Note 2}		0.50			
R-axis tolerable moment of inertia ^{Note 3} (kgm ²)		0.05			
User wiring (sq 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)		22.5			
Degree of cleanliness		ISO CLASS 3 (ISO 14644-1) ^{Note 4} +ESD ^{Note 5}			
Intake air (Nl/min)		30 ^{Note 6}			

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

Note 2. When reciprocating 25mm in vertical direction and 300mm in horizontal direction (rough-positioning arch motion).

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

Note 4. ESD (ElectroStatic discharge) specifications are custom-ordered. Please contact our distributor.

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

Controller

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

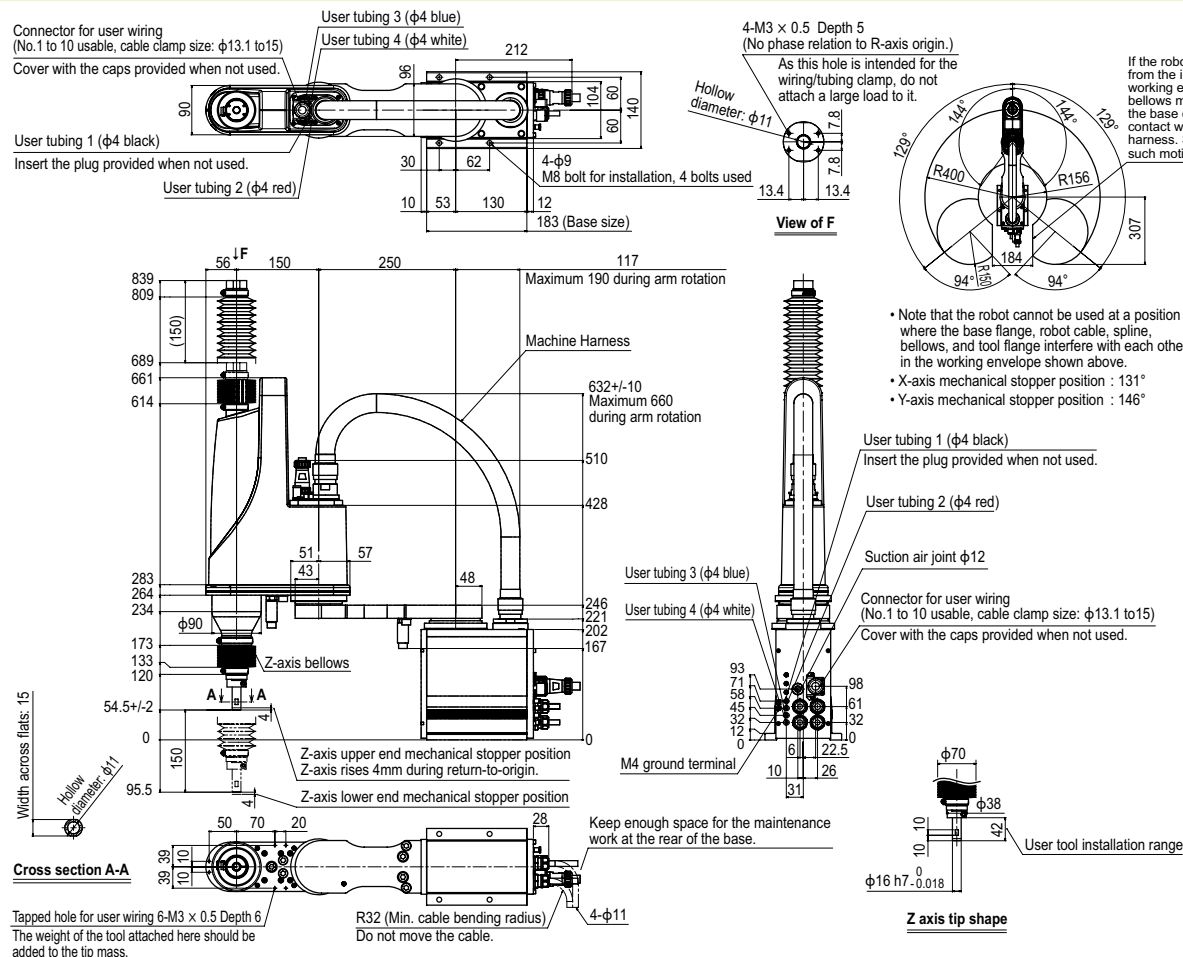
Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)

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

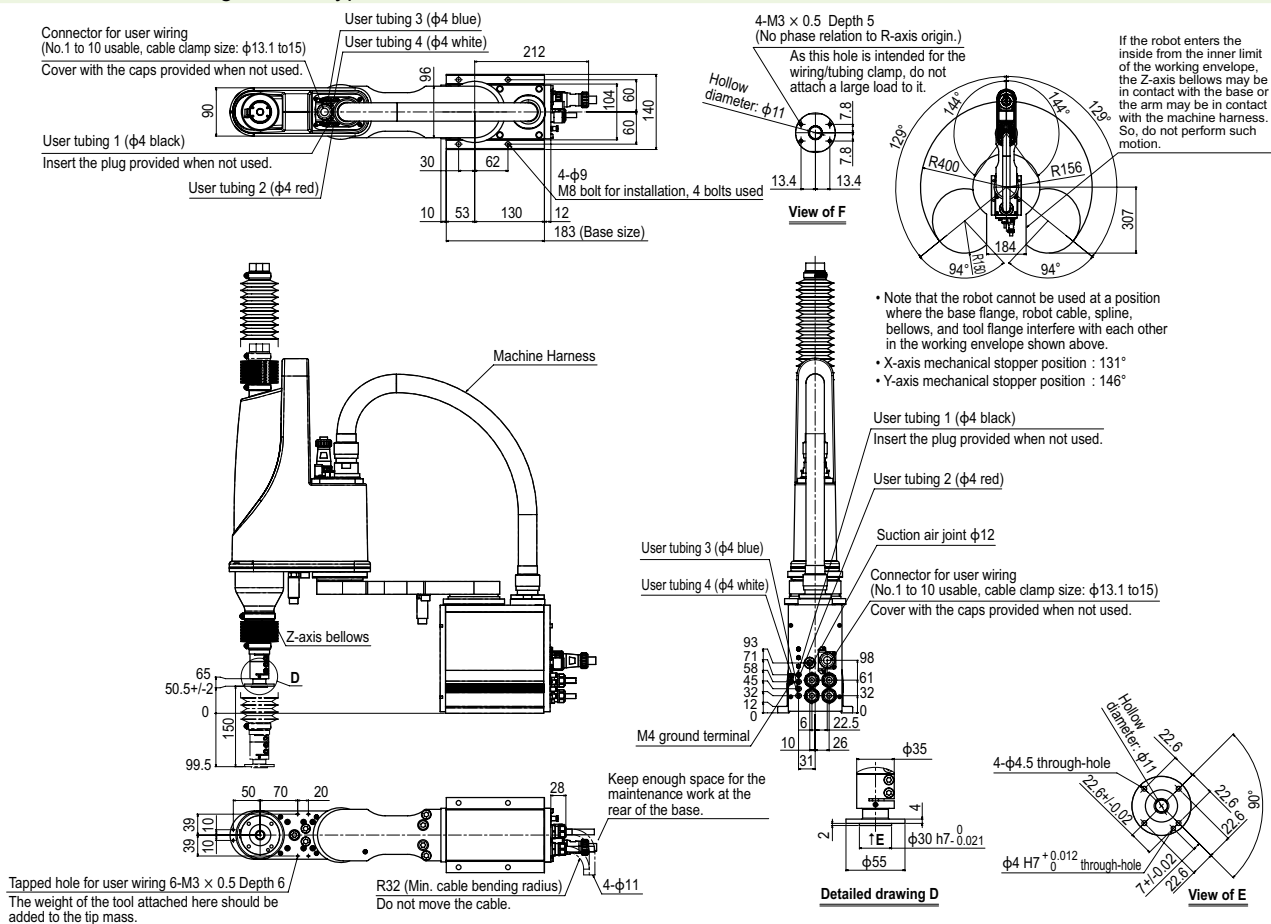
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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

YK400XGC



YK400XGC Tool flange mount type



YK400XEC-4

Clean type: Small type

LOW COST HIGH PERFORMANCE MODEL



- Arm length 400mm
- Maximum payload 4kg

Ordering method

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

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

Basic specifications

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

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

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

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

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

Controller

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

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

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

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

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

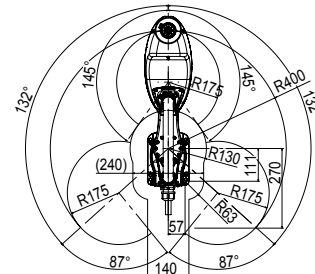
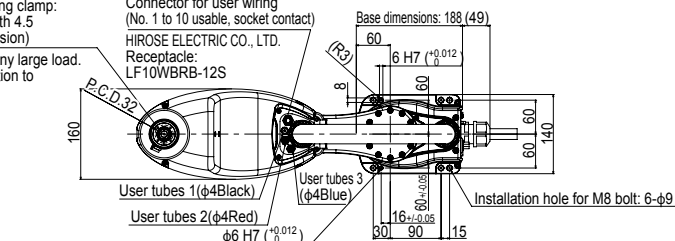
Our robot manuals (installation manuals) can be downloaded from our website at the address below:
<https://global.yamaha-motor.com/business/robot/>

YK400XEC-4

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

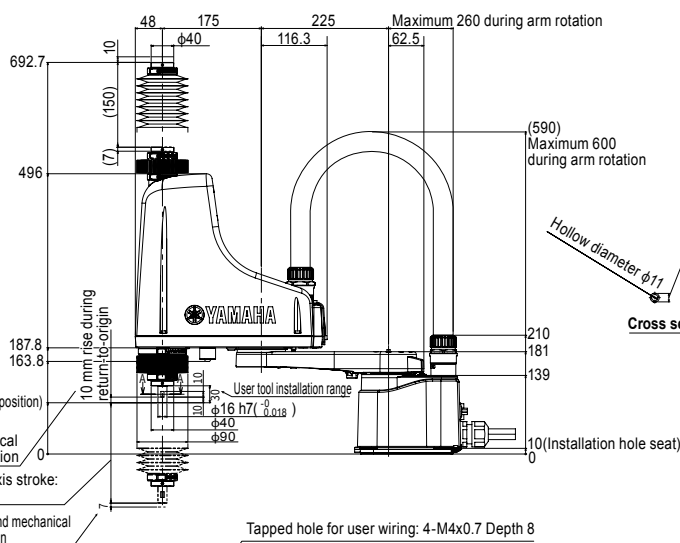
Connector for user wiring
(No. 1 to 10 usable, socket contact)
HIROSE ELECTRIC CO., LTD.
Receptacle:
LF10WBRB-12S

Base dimensions: 188 (49)



Working envelope(Standard)

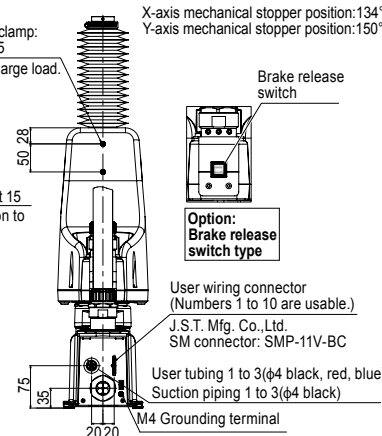
X-axis mechanical stopper position: 134°
Y-axis mechanical stopper position: 150°



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

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

Cross section A-A



Brake release switch
Option:
Brake release switch type

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

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

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

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

YK500XGLC

Clean type: Medium type

- Arm length 500mm
- Maximum payload 4kg

Ordering method

YK500XGLC - 150

S

RCX340-4

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

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

Basic specifications

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

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

Note 2. When reciprocating 25mm in vertical direction and 300mm in horizontal direction (rough-positioning arch motion).

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

Note 4. ESD (ElectroStatic discharge) specifications are custom-ordered. Please contact our distributor.

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

Controller

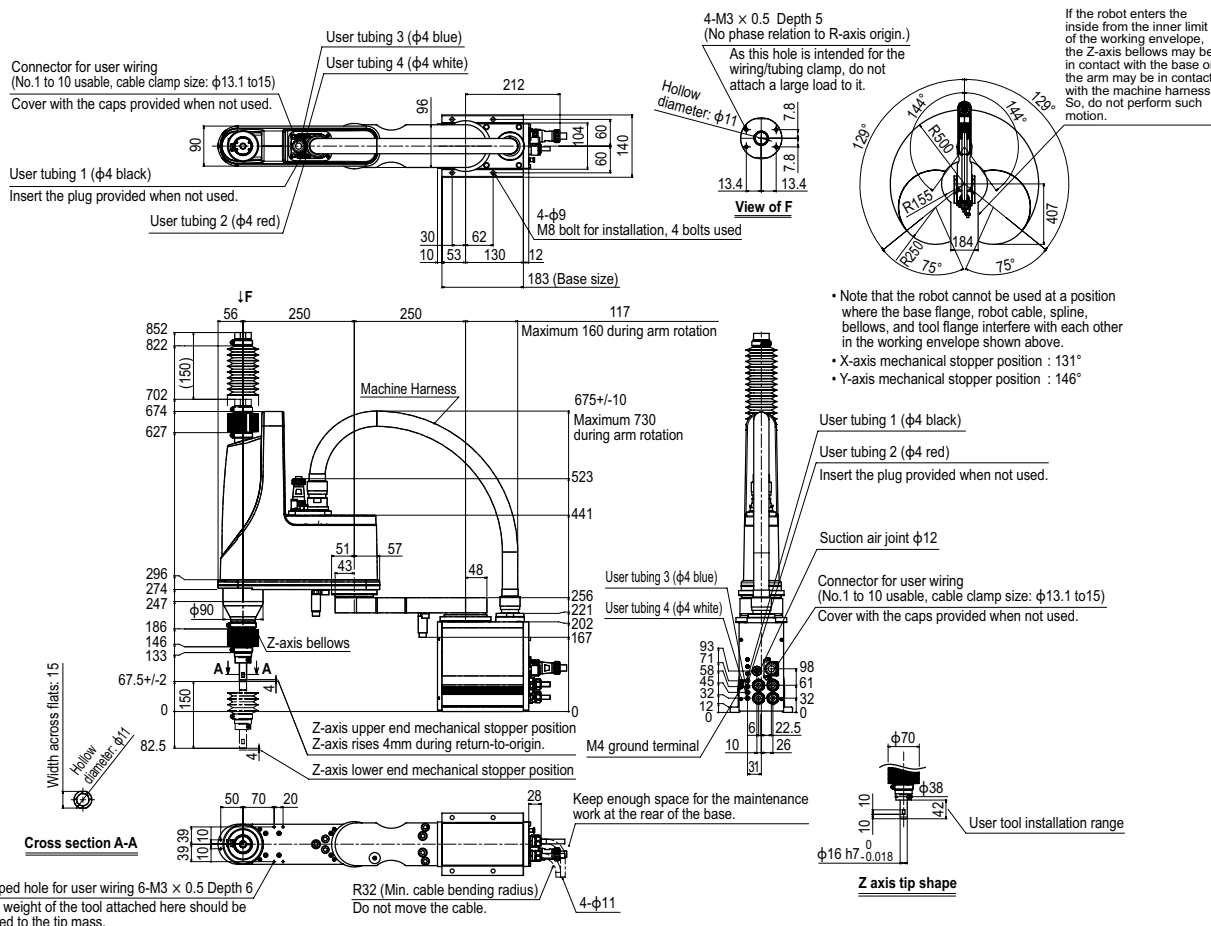
Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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

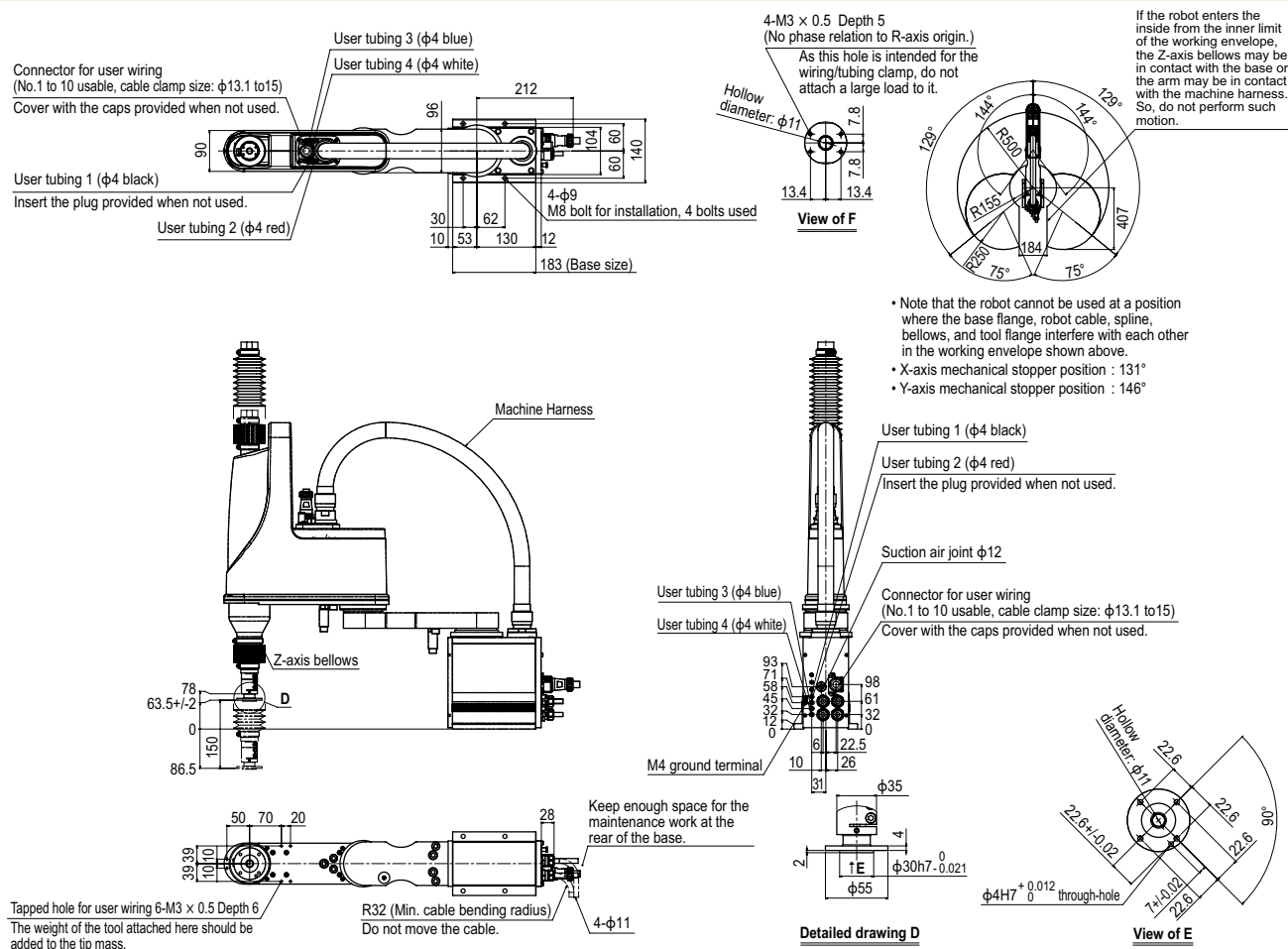
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

Our robot manuals (installation manuals) can be downloaded from our website at the address below:
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YK500XGLC



YK500XGLC Tool flange mount type



YK500XC

Clean type: Medium type

- Arm length 500mm
- Maximum payload 10kg

Ordering method

YK500XC

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

RCX340-4

Controller / Number of controllable axes

Safety standard

Option A (OP.A)

Option B (OP.B)

Option C (OP.C)

Option D (OP.D)

Option E (OP.E)

Absolute battery

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

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
	Rotation angle (°)	250	250	200 300	—
		+/-120	+/-142	—	+/-180
AC servo motor output (W)		400	200	200	100
Repeatability ^{Note 1} (XYZ: mm) (R: °)		+/-0.02		+/-0.01	+/-0.005
Maximum speed (XYZ: m/sec) (R: °/sec)		4.9		1.7	876
Maximum payload (kg)				10	
Standard cycle time: with 2kg payload (sec)				0.53	
R-axis tolerable moment of inertia ^{Note 2} (kgm ²)				0.12	
User wiring (sq x wires)				0.2 x 20	
User tubing (Outer diameter)				φ6 x 3	
Travel limit				1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)	
Robot cable length (m)				Standard: 3.5 Option: 5, 10	
Weight (kg)				31	
Degree of cleanliness				CLASS 10 ^{Note 3}	
Intake air (Nl/min)				60 ^{Note 4}	

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

Note 2. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

Note 3. Per 1cf (0.1μm base), when suction blower is used.

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

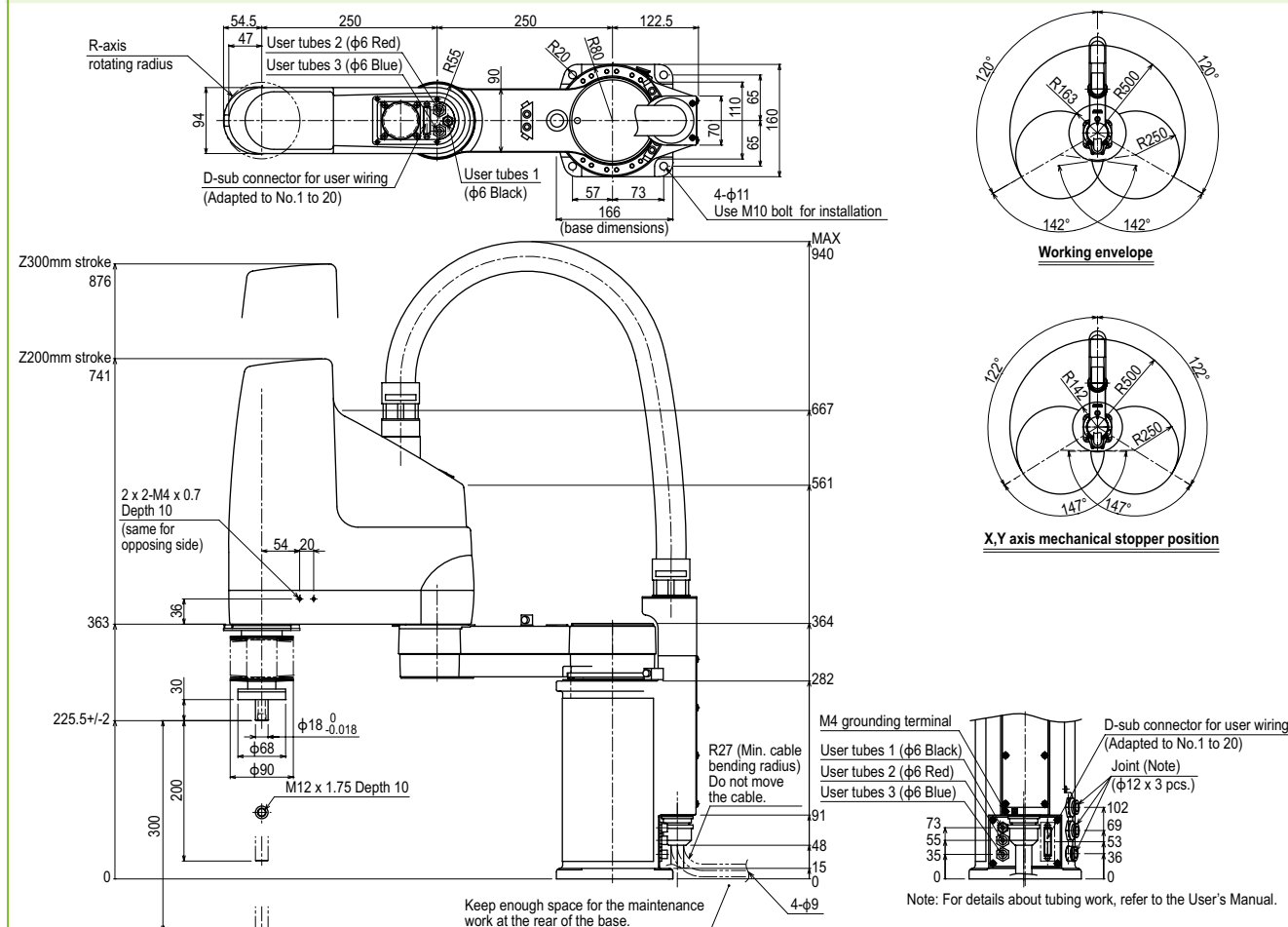
Controller

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

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

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YK500XC



YK600XGLC

Clean type: Medium type

- Arm length 600mm
- Maximum payload 4kg

Ordering method

YK600XGLC	150		S		RCX340-4							
Model	Z axis stroke	Tool flange	Hollow shaft	Cable length	Controller / Number of controllable axes	Safety standard	Option A (OP.A)	Option B (OP.B)	Option C (OP.C)	Option D (OP.D)	Option E (OP.E)	Absolute battery
	150: 150mm	No entry: None F: With tool flange	S: With hollow shaft	3L: 3.5m 5L: 5m 10L: 10m								

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

Basic specifications

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

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

Note 2. When reciprocating 25mm in vertical direction and 300mm in horizontal direction (rough-positioning arch motion).

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

Note 4. ESD (ElectroStatic discharge) specifications are custom-ordered. Please contact our distributor.

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

Controller

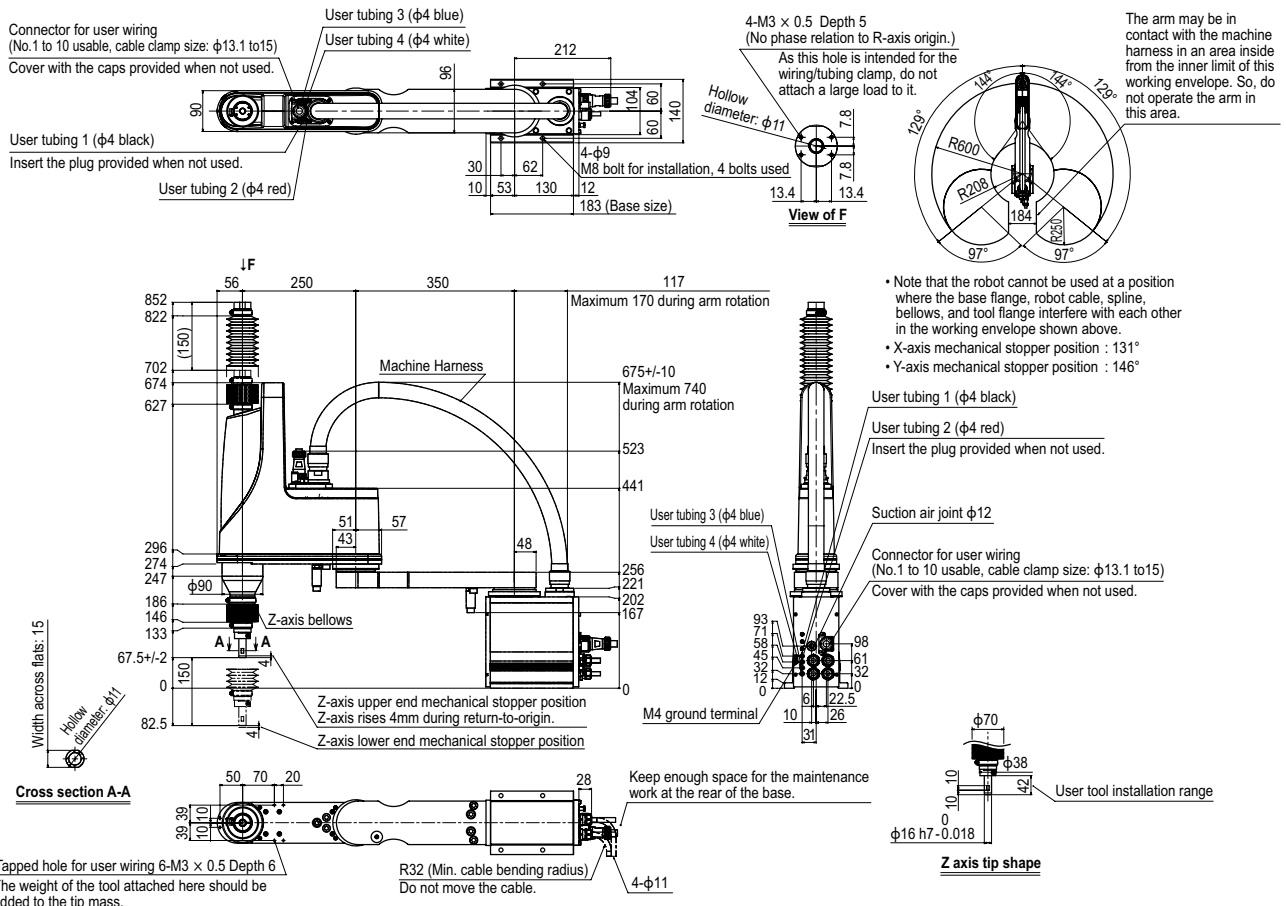
Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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

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

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YK600XGLC



YK600XC

Clean type: Medium type

- Arm length 600mm
- Maximum payload 10kg



Ordering method

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 ▶ **P.636**

Basic specifications

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

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

Note 2. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

Note 3. Per 1cf (0.1μm base), when suction blower is used.

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

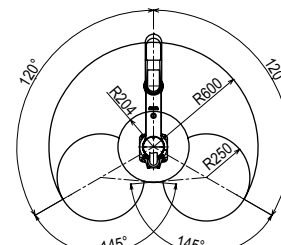
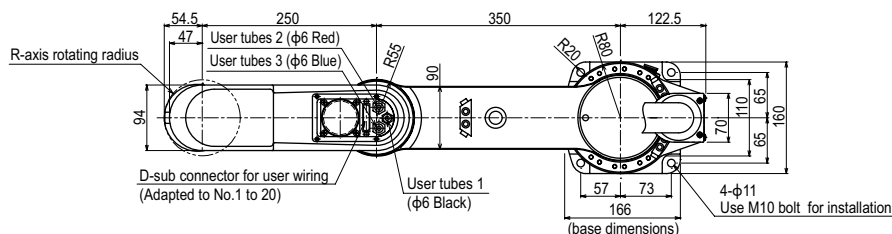
Controller

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

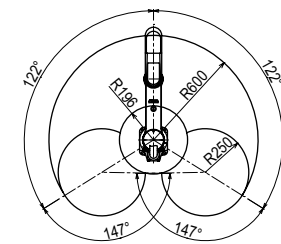
Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)
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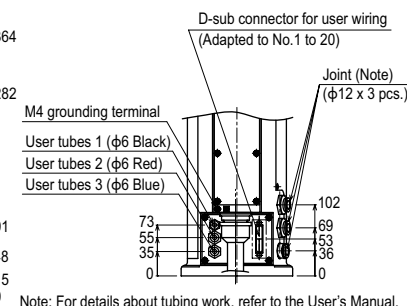
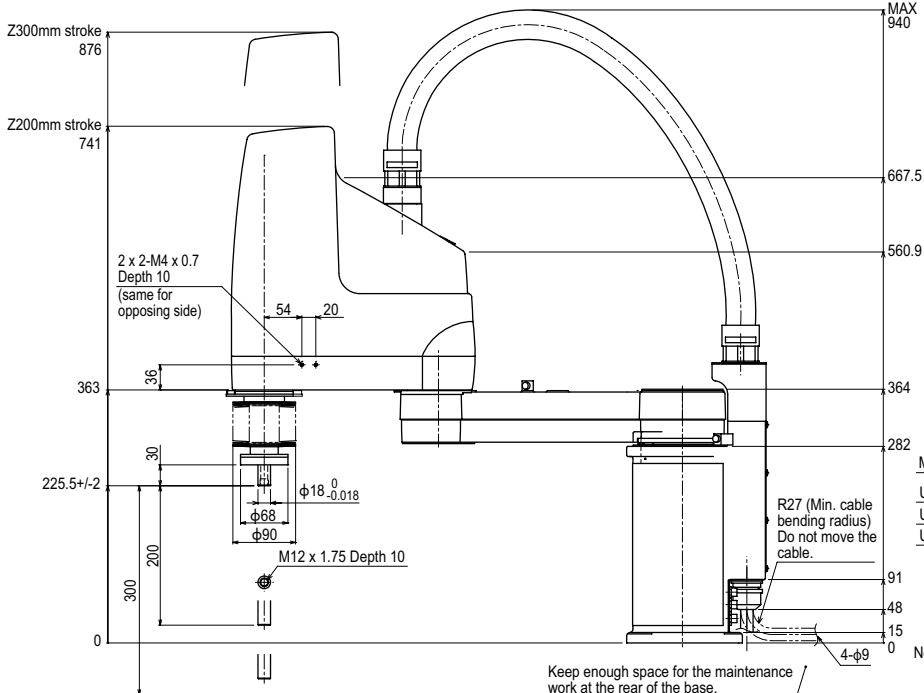
YK600XC



Working envelope



X,Y axis mechanical stopper position



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

Controller

RCX340 ▶ 636

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.636**

Basic specifications

Axis specifications	Arm length (mm)	X axis	Y axis	Z axis	R axis
Rotation angle (°)		350	350	200 / 400	—
AC servo motor output (W)		800	400	400	200
Repeatability ^{Note 1} (XYZ: mm) (R: °)		±0.02		±0.01	±0.005
Maximum speed (XYZ: m/sec) (R: °/sec)		6.7		1.7	600
Maximum payload (kg)		20			
Standard cycle time: with 2kg payload (sec)		0.57			
R-axis tolerable moment of inertia ^{Note 2} (kgm ²)		0.32			
User wiring (sq × wires)		0.2 × 20			
User tubing (Outer diameter)		φ6 × 3			
Travel limit		1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
Robot cable length (m)		Standard: 3.5 Option: 5, 10			
Weight (kg)		57			
Degree of cleanliness		CLASS 10 ^{Note 3}			
Intake air (Nl/min)		60 ^{Note 4}			

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

Note 2. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

Note 3. Per 1cf (0.1μm base), when suction blower is used.

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

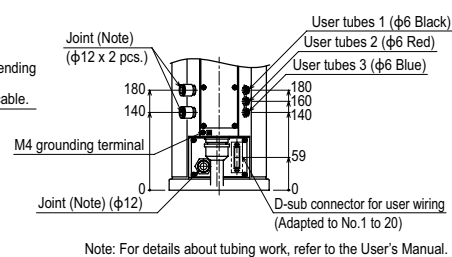
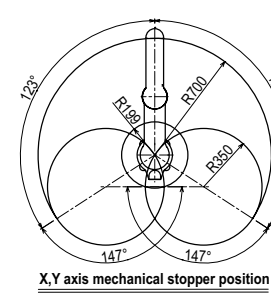
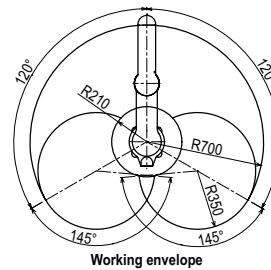
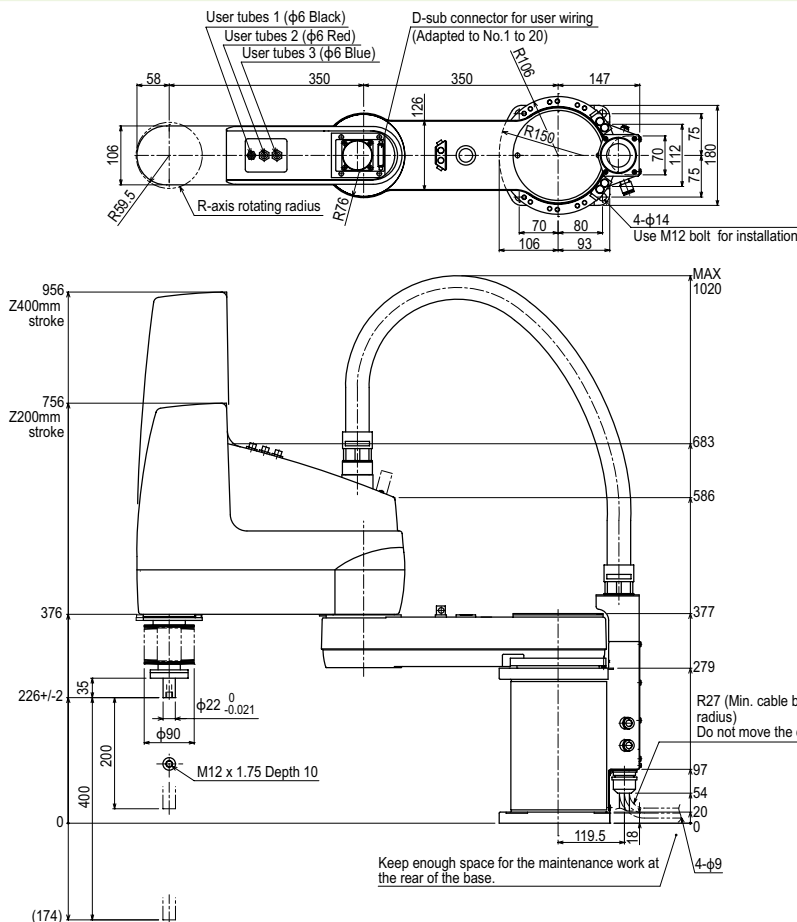
Controller

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

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

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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.636**

Basic specifications

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

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

Note 2. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

Note 3. Per 1cf (0.1μm base), when suction blower is used.

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

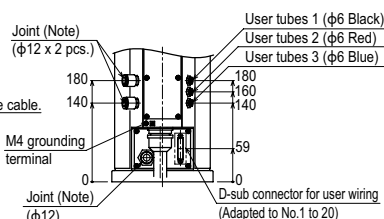
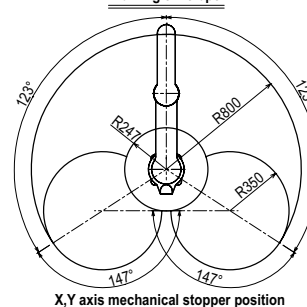
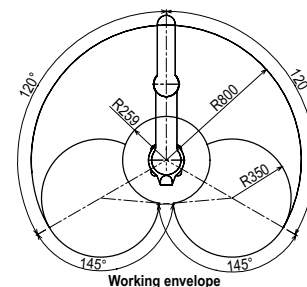
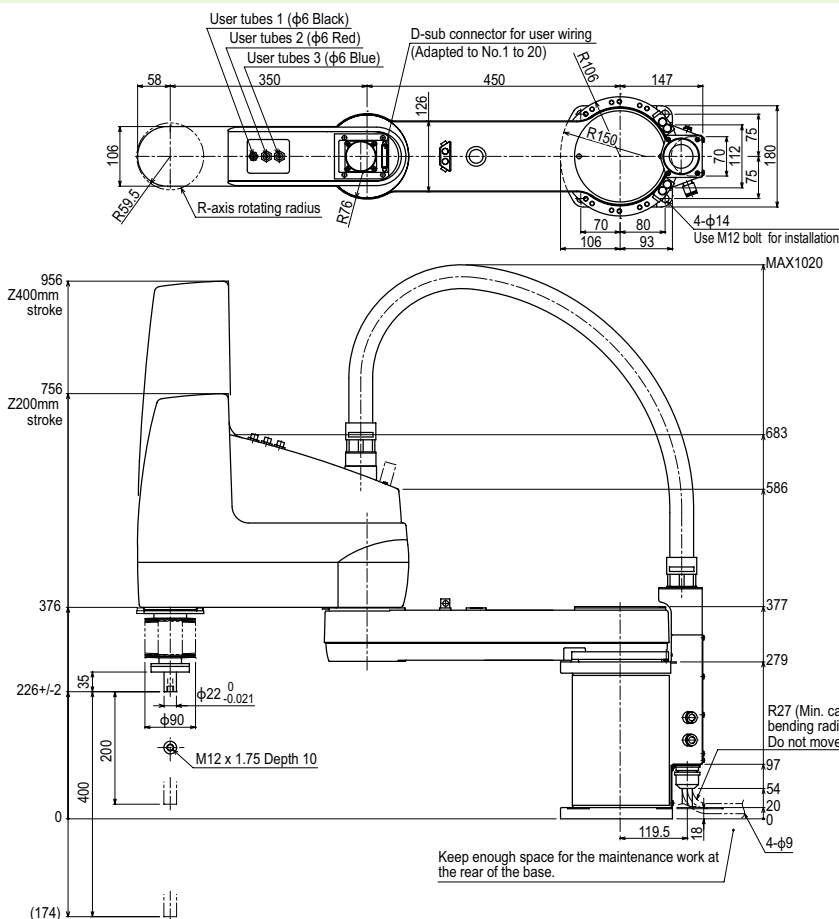
Controller

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

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

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YK800XC



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

YK1000XC

Clean type: Large type

- Arm length 1000mm
- Maximum payload 20kg

Ordering method

YK1000XC			RCX340-4								
Model	Z axis stroke	Cable length	Controller / Number of controllable axes	Safety standard	Option A (OP.A)	Option B (OP.B)	Option C (OP.C)	Option D (OP.D)	Option E (OP.E)	Absolute battery	
	200: 200mm 400: 400mm	3L: 3.5m 5L: 5m 10L: 10m									

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

Basic specifications

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)

Note 2. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

Note 3. Per 1cf (0.1μm base), when suction blower is used.

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

Controller

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

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

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YK1000XC

