

SSC04

Slider type



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

Ordering method

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

S2	I/O
Robot positioner S2: TS-S2 ^{Note 3}	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board ^{Note 4}
SH	Battery
Robot positioner SH: TS-SH	B: With battery (Absolute) N: None (Incremental)
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 ^{Note 1} (mm)	+/-0.02
Deceleration mechanism	Ball screw φ8
Maximum motor torque (N·m)	0.27
Ball screw lead (mm)	12 6 2
Maximum speed (mm/sec)	600 300 100
Maximum payload (kg)	Horizontal: 2 4 6 Vertical: 1 2 4
Max. pressing force (N)	45 90 150
Stroke (mm)	50 to 400 (50mm pitch)
Overall length (mm)	Horizontal: Stroke+216 Vertical: Stroke+261
Maximum outside dimension of body cross-section (mm)	W49 × H59
Cable length (m)	Standard: 1 / Option: 3, 5, 10
Degree of cleanliness	CLASS 10 ^{Note 2}
Intake air (Nl/min)	Lead 12: 50 Lead 6: 30 Lead 2: 15

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

Allowable overhang

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

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

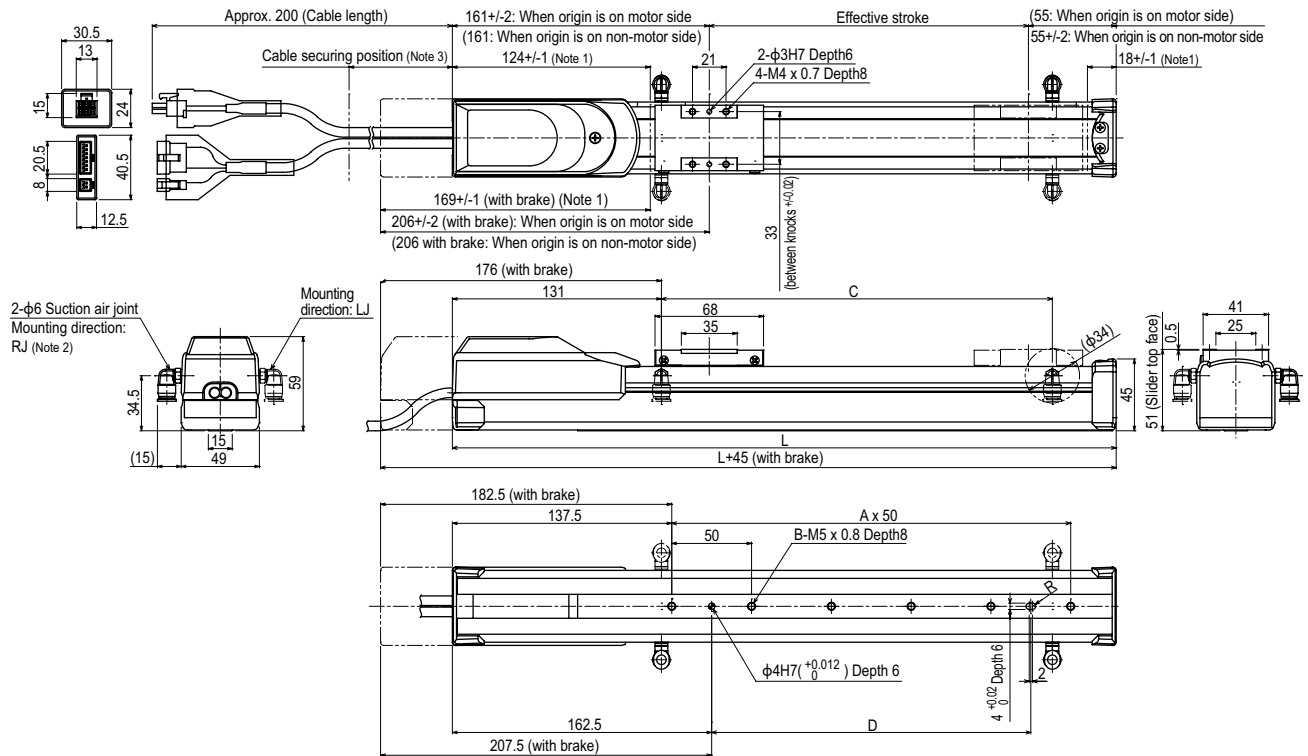
Static loading moment

(Unit: N·m)		
MY	MP	MR
16	19	17

Controller

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

SSC04



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

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

SSC05

Slider type



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

Ordering method

SSC05		S					
Model	Lead	Type	Brake ^{Note 1}	Direction of air coupler installation	Origin position	Stroke	Cable length ^{Note 3}
	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 10L: 10m

S2		
Robot positioner	I/O	
S2: TS-S2 ^{Note 4}	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board ^{Note 5}	
SH		
Robot positioner	I/O	Battery
SH: TS-SH	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board ^{Note 5}	B: With battery (Absolute) N: None (Incremental)
SD	1	
Robot driver	I/O cable	
SD: TS-SD	t: 1m	

Note 1. Only the model with a lead of 12mm or 6mm can select specifications with brake.
 Note 2. If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.
 Note 3. The robot cable is flexible and resists bending.
 Note 4. See P.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)	0.27		
Ball screw lead (mm)	20	12	6
Maximum speed (mm/sec) ^{Note 2}	1000	600	300
Maximum payload (kg)	Horizontal	4	6
	Vertical	1	2
Max. pressing force (N)		27	45
		90	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 ^{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

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

Static loading moment

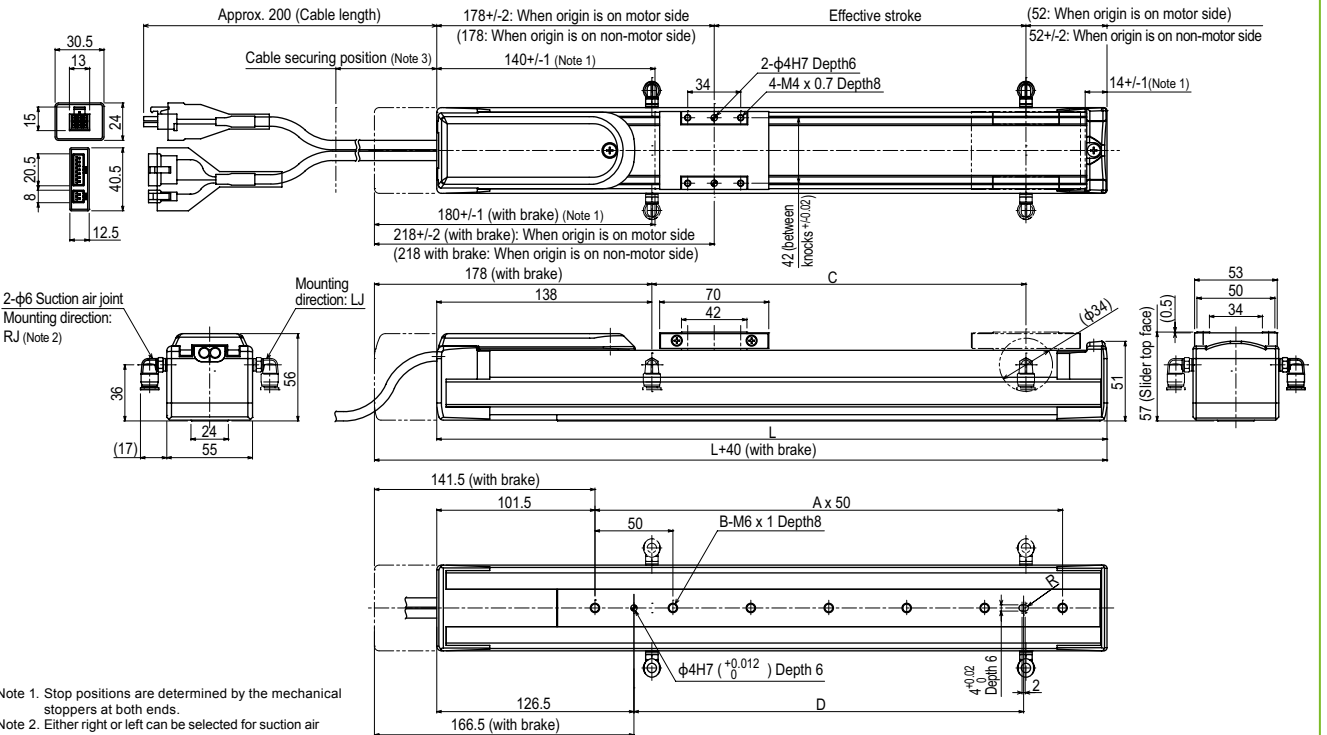
	Static loading moment (Unit: N·m)		
	MY	MP	MR
	25	33	30

Controller

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

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

SSC05



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

Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030
A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
B	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
C	100	150	200	250	300	350	400	450	500	500	500	500	500	500	500	500
Weight (kg) ^{Note 5}	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) ^{Note 6}	Lead 20			Lead 12			Lead 6									
	1000			600			300									
	933			560			280									
	880			500			250									
	830			440			190									
	780			380												
	730															
	680															
	630															
	580															
	530															
	480															
	430															
	380															
	330															
	280															

SSC05H

Slider type



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

Ordering method

SSC05H		S						
Model	Lead	Type	Brake ^{Note 1}	Direction of air coupler installation	Origin position	Stroke	Cable length ^{Note 3}	
	20: 20mm 12: 12mm 6: 6mm	S: Straight	N: With no brake B: With brake	R: Right (Standard) L: Left	N: Standard ^{Note 2} 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 ^{Note 4}	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board ^{Note 5}
SH	Battery
Robot positioner SH: TS-SH	N: None I: Incremental
SD	1
Robot driver SD: TS-SD	I/O cable 1: 1m

- Note 1. Only the model with a lead of 12mm or 6mm can select specifications with brake.
 Note 2. If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.
 Note 3. The robot cable is flexible and resists bending.
 Note 4. See P.600 for DIN rail mounting bracket.
 Note 5. Select this selection when using the gateway function.

Basic specifications

Motor	42 □ Step motor
Repeatability ^{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: 80 Lead 12: 50 Lead 6: 30

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

Allowable overhang

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

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

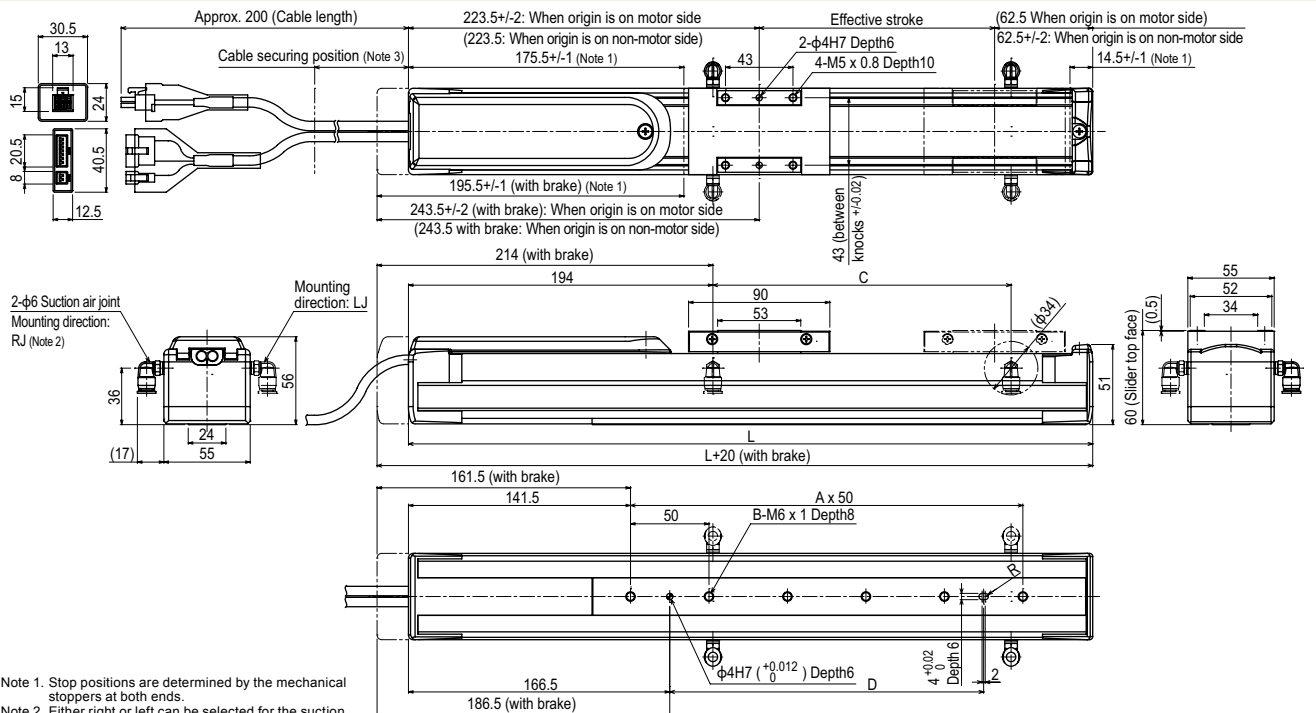
Static loading moment

(Unit: N·m)		
MY	MP	MR
32	38	34

Controller

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

SSC05H



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

Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	
L	336	386	436	486	536	586	636	686	736	786	836	886	936	986	1036	1086	
A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
B	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
C	100	150	200	250	300	350	400	450	500	500	500	500	500	500	500	500	
Weight (kg) ^{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	
Maximum speed for each stroke (mm/sec) ^{Note 6}	Lead 20	1000															
	Lead 12 (Horizontal)	600															
	Lead 12 (Vertical)	500															
	Lead 6 (Horizontal)	300															
	Lead 6 (Vertical)	250															
													280	250	220	190	
																220	190

Controller

TS-S2 ▶ 592 TS-SH ▶ 592 TS-SD ▶ 602