

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.634 for DIN rail mounting bracket.
 Note 5. Select this selection when using the gateway function. For details, see P.96.

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 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 ^{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)
Lead 20	A B C	A B C	A C
2kg	413 139 218	192 123 372	0.5kg 578 579
4kg	334 67 120	92 51 265	1kg 286 286
4kg	347 72 139	4kg 109 300	1kg 312 312
6kg	335 47 95	6kg 63 31 263	2kg 148 148
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

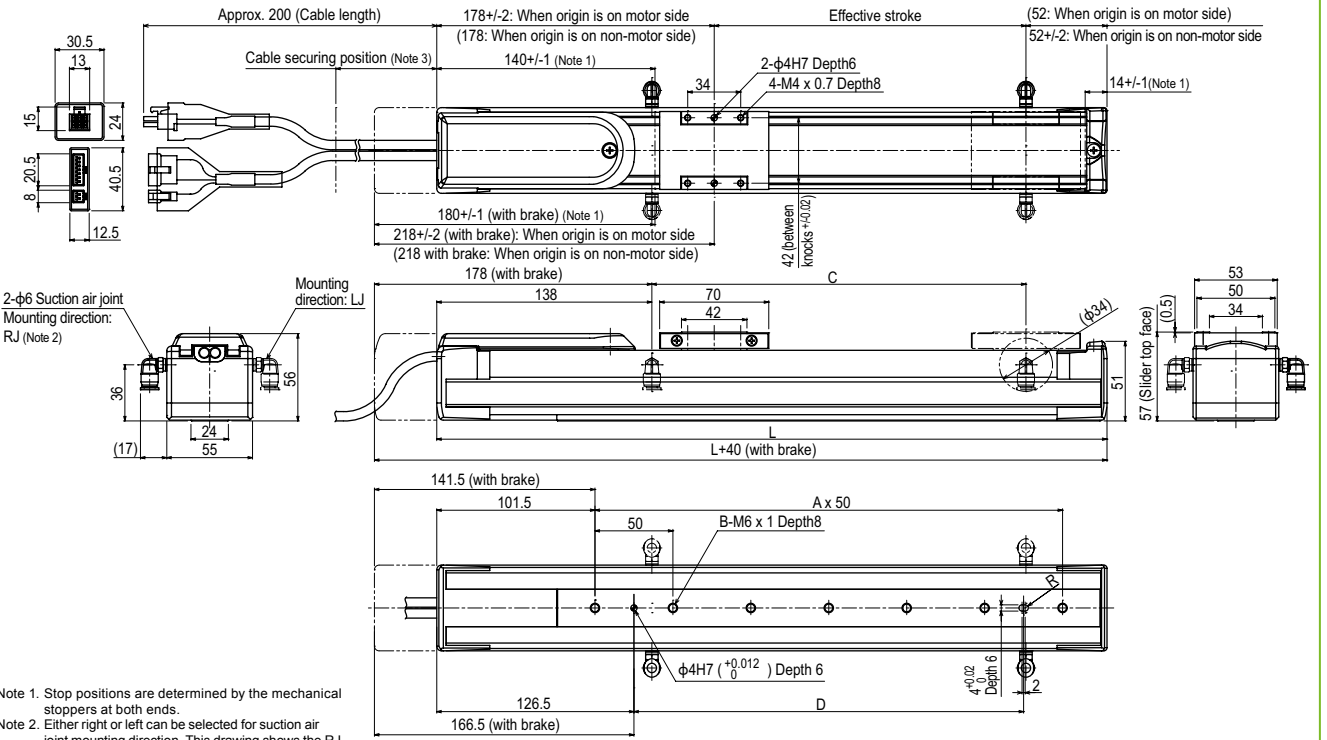
	MY	MP	MR
	25	33	30

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).

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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}	1000															
Lead 20	933															
Lead 12	560															
Lead 6	280															