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	1: 1m

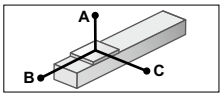
Note 1. Only the model with a lead of 12mm or 6mm can select specifications with brake.
Note 2. If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.
Note 3. The robot cable is flexible and resists bending.
Note 4.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

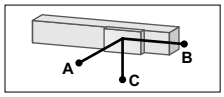
Basic specifications

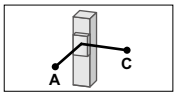
Motor		42 □ Step motor		
Repeatability Note 1 (mm)		+/-0.02		
Deceleration mechanism		Ball screw ϕ12		
Maximum motor torque (N·m)		0.27		
Ball screw lead (mm)		20	12	6
Maximum speed (mm/sec) Note 2		1000	600	300
Maximum payload (kg)	Horizontal	4	6	10
	Vertical	–	1	2
Max. pressing force (N)		27	45	90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







Horizontal installation (Unit: mm)

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

Wall installation (Unit: mm)

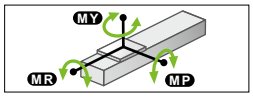
		A	B	C
Lead 20	2kg	192	123	372
	4kg	92	51	265
Lead 12	4kg	109	57	300
	6kg	63	31	263
Lead 6	4kg	134	63	496
	6kg	76	35	377
	8kg	47	22	355

Vertical installation (Unit: mm)

		A	C
Lead 12	0.5kg	578	579
	1kg	286	286
Lead 6	1kg	312	312
	2kg	148	148

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



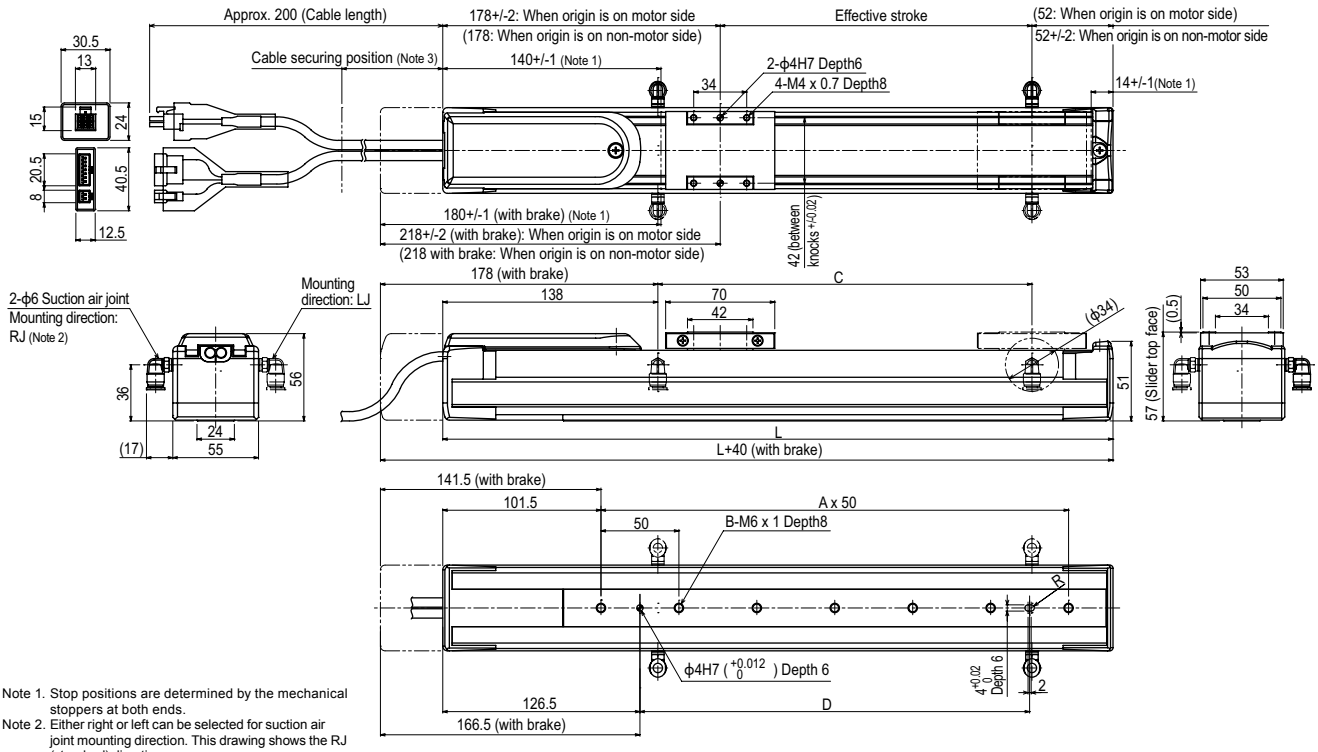
(Unit: N·m)

MY	MP	MR
25	33	30

Controller

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

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	1000												933	833	733	633
	Lead 12	600												560	500	440	380
	Lead 6	300												280	250	220	190

Controller TS-S2 ▶ 592 | TS-SH ▶ 592 | TS-SD ▶ 602