

SSC05



- 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)	1K: 1m 3K: 3m 5K: 5m 10K: 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	

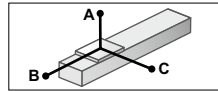
Note 1. Only the model with a lead of 12mm or 6mm can select specifications with brake.
 Note 2. If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.
 Note 3. The robot cable is flexible and resists bending.
 Note 4. See P.498 for DIN rail mounting bracket.
 Note 5. Select this selection when using the gateway function. For details, see P.60.

Basic specifications

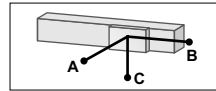
Motor	42 □ Step motor		
Repeatability ^{Note 1} (mm)	±0.02		
Deceleration mechanism	Ball screw φ12 (Class C10)		
Maximum motor torque (N·m)	0.27		
Ball screw lead (mm)	20	12	6
Maximum speed (mm/sec) ^{Note 2}	1000	600	300
Maximum payload (kg)	Horizontal	4	6
	Vertical	1	2
Max. pressing force (N)		27	45
		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.

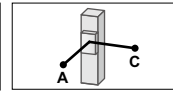
Allowable overhang ^{Note}



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

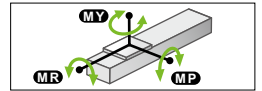


Wall installation (Unit: mm)		A	B	C
Lead 20	2kg	192	123	372
	4kg	92	51	265
	4kg	109	57	300
Lead 12	6kg	63	31	263
	4kg	134	63	496
	8kg	76	35	377
Lead 6	8kg	47	22	355



Vertical installation (Unit: mm)		A	C
Lead 12	0.5kg	578	579
	1kg	286	286
	1kg	312	312
Lead 6	2kg	148	148

Static loading moment



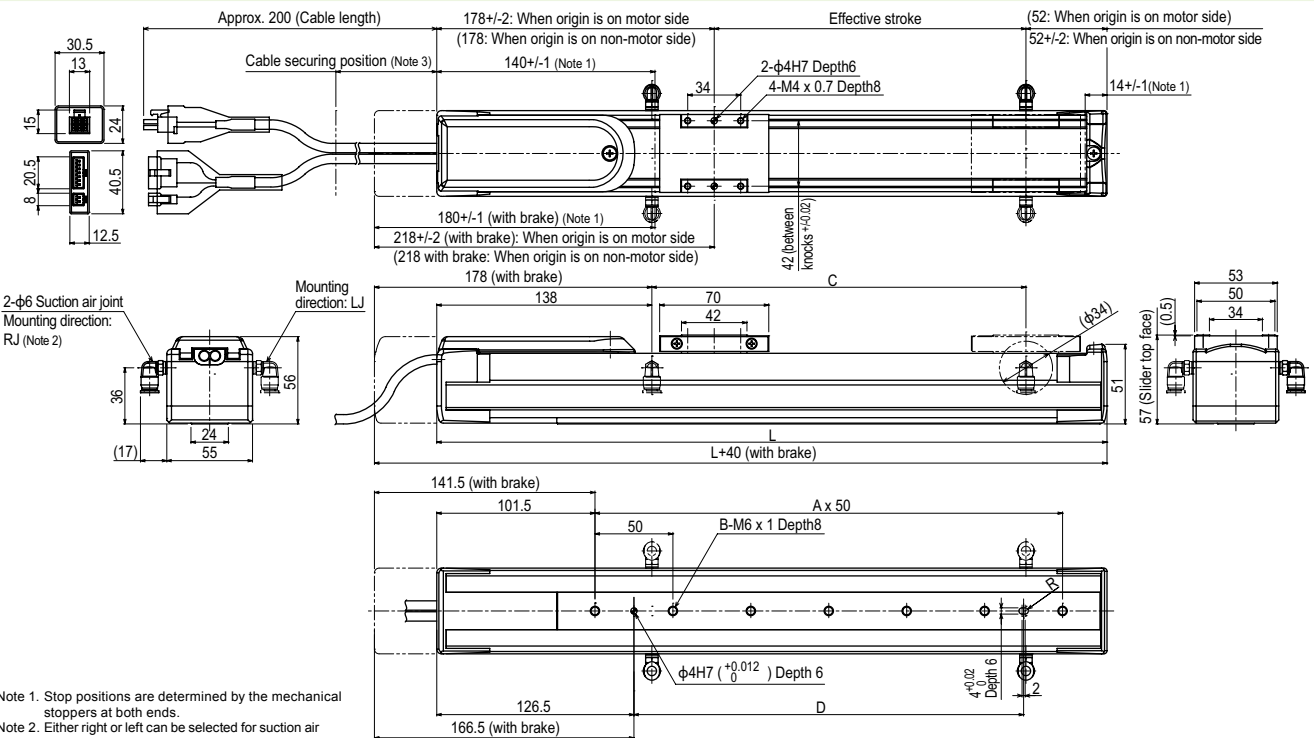
(Unit: N·m)		
MY	MP	MR
25	33	30

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
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														
	Lead 12	933														
	Lead 6	600														
Maximum speed for each stroke (mm/sec) ^{Note 6}	Lead 20	300														
	Lead 12	560														
	Lead 6	280														