

# SSC05

- High lead: Lead 20
- CE compliance

## Ordering method

**SSC05** - **S** - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

Model	Lead	Type	Brake	Direction of air coupler installation	Origin position	Stroke	Cable length	Robot positioner	I/O	Battery
	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: TS-S2 PN: PNP SH: TS-SH	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ GW: No I/O board	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. The robot cable is flexible and resists bending.  
 Note 3. See P.446 for DIN rail mounting bracket.  
 Note 4. Select this selection when using the gateway function. For details, see P.439.  
 Note 5. Select whether or not the battery is provided only when using the TS-SH.

## Basic specifications

Motor	42 □ Step motor		
Repeatability	±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)	1000	600	300
Maximum payload (kg)	Horizontal	4	6
	Vertical	-	1
Max. pressing force (N)	Horizontal	27	45
	Vertical	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		
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
Lead 20	2kg: 413	139	218	2kg: 192	123	372
Lead 12	4kg: 334	67	120	4kg: 92	51	265
	4kg: 347	72	139	4kg: 109	57	300
Lead 6	6kg: 335	47	95	6kg: 63	31	263
	4kg: 503	78	165	4kg: 134	63	496
Lead 6	8kg: 332	37	79	6kg: 76	35	377
	10kg: 344	29	62	8kg: 47	22	355

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).

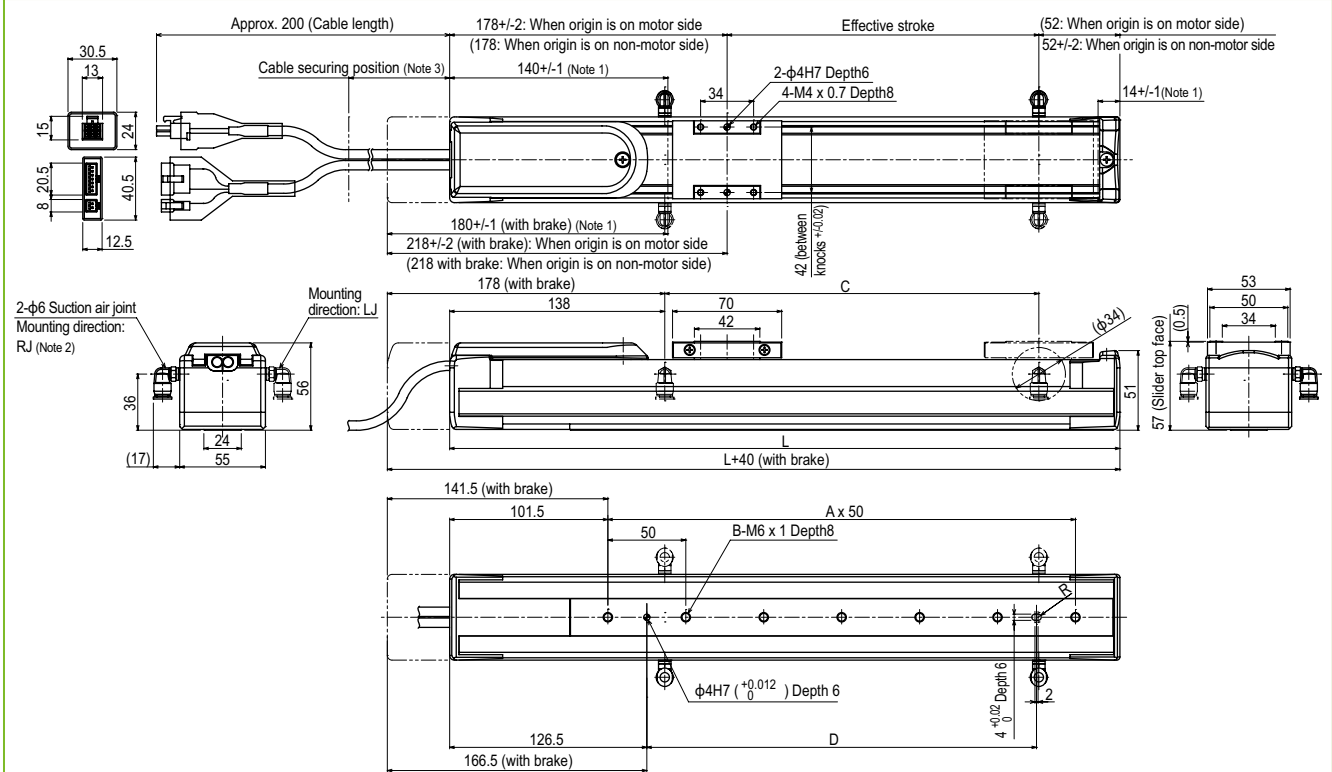
## Static loading moment

(Unit: N·m)		
MY	MP	MR
25	33	30

## Controller

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

## SSC05



Effective stroke	Stroke (mm)																
	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															

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.