

# 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	Direction of air coupler installation	Origin position	Stroke	Cable length	S2	I/O	SH	Battery	SD	I/O cable
	20: 20mm 12: 12mm 6: 6mm	S: Straight	N: With no brake B: With brake	R: Right (Standard) L: Left	N: Standard Z: Non-motor side	50 to 800 (50mm pitch)	1L: 1m 3L: 3m 5L: 5m 10L: 10m	Robot positioner S2: TS-S2	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	SH: TS-SH	B: With battery (Absolute) N: None (Incremental)	Robot driver SD: TS-SD	1 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.522 for DIN rail mounting bracket.  
 Note 5. Select this selection when using the gateway function. For details, see P.66.

## Basic specifications

Motor	42 □ Step motor		
Repeatability	±0.02 (mm)		
Deceleration mechanism	Ball screw φ12		
Maximum motor torque (N·m)	0.47		
Ball screw lead (mm)	20	12	
Maximum speed (mm/sec)	Horizontal	1000	
	Vertical	500	
Maximum payload (kg)	Horizontal	6	
	Vertical	2	
Max. pressing force (N)	Stroke	36	
	Stroke	60	
	Stroke	120	
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		
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.

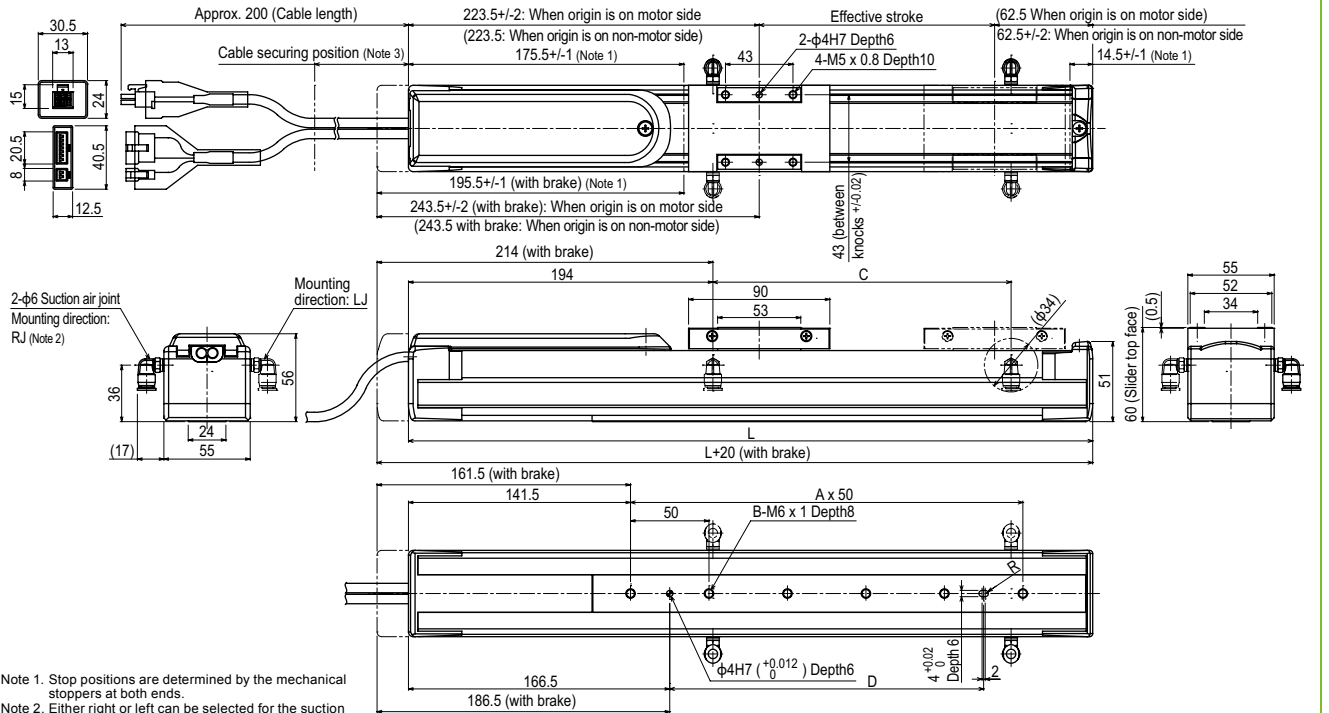
## Allowable overhang

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)					
	A	B	C		A	B	C		A	C			
Lead 20	2kg	599	225	291	2kg	262	203	554	Lead 12	1kg	458	459	
	4kg	366	109	148	4kg	118	88	309		2kg	224	224	
	6kg	352	71	104	6kg	71	49	262		2kg	244	245	
	4kg	500	118	179	4kg	146	96	449		4kg	113	113	
Lead 12	6kg	399	79	118	6kg	85	55	334	Lead 6	8kg	480	61	100
	8kg	403	56	88	8kg	55	34	305		10kg	442	47	78
	6kg	573	83	136	6kg	101	62	519		12kg	465	39	64
	8kg	480	61	100	8kg	64	39	413					
Lead 6	10kg	442	47	78	10kg	43	26	355					
	12kg	465	39	64	12kg	28	17	338					

Static loading moment (Unit: N·m)		
MY	MP	MR
32	38	34

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).

## 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	L											A											B											C																																														
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	100	150	200	250	300	350	400	450	500	500	500	500	500	500	500	500	500	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
Weight (kg)	Lead 20											Lead 12											Lead 6											Lead 20																																														
Maximum speed for each stroke (mm/sec)	1000											600											500											1000																																														
	600											500											300											933																																														
	500											300											280											833																																														
	250											250											220											733																																														

Controller

TS-S2 ▶ 514 TS-SH ▶ 514 TS-SD ▶ 524