

SSC05H



- 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	SH	SD	I/O	Battery
	20: 20mm 12: 12mm 6: 6mm	S: Straight	N: With no brake B: With brake	N: Right (Standard) L: Left	N: Standard Z: Non-motor side	50 to 800 (50mm pitch)	1K: 1m 3K: 3m 5K: 5m 10K: 10m	Robot positioner S2: TS-S2	Robot positioner SH: TS-SH	Robot driver SD: TS-SD	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board	B: With battery (Absolute) N: None (Incremental)
											1	I/O cable 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.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	+/-0.02	
Deceleration mechanism	Ball screw φ12 (Class C10)	
Maximum motor torque (N·m)	0.47	
Ball screw lead (mm)	20	12
Maximum speed (mm/sec)	Horizontal	1000
	Vertical	600
Maximum payload (kg)	Horizontal	6
	Vertical	300
Max. pressing force (N)	Horizontal	36
	Vertical	60
Stroke (mm)	50 to 800 (50mm pitch)	
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
	80	50
	Lead 6	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		
	A	B	C
Lead 20	2kg	599	225
	4kg	366	109
	6kg	352	71
	4kg	500	118
	6kg	399	79
	8kg	403	56
	6kg	573	83
	8kg	480	61
	10kg	442	47
	12kg	465	39

Wall installation	Unit: mm		
	A	B	C
Lead 20	2kg	262	203
	4kg	118	88
	6kg	71	49
	4kg	146	96
	6kg	85	55
	8kg	55	34
	6kg	101	62
	8kg	64	39
	10kg	43	26
	12kg	28	17

Vertical installation	Unit: mm		
	A	C	
Lead 12	1kg	458	459
	2kg	224	224
	2kg	244	245
	4kg	113	113

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).

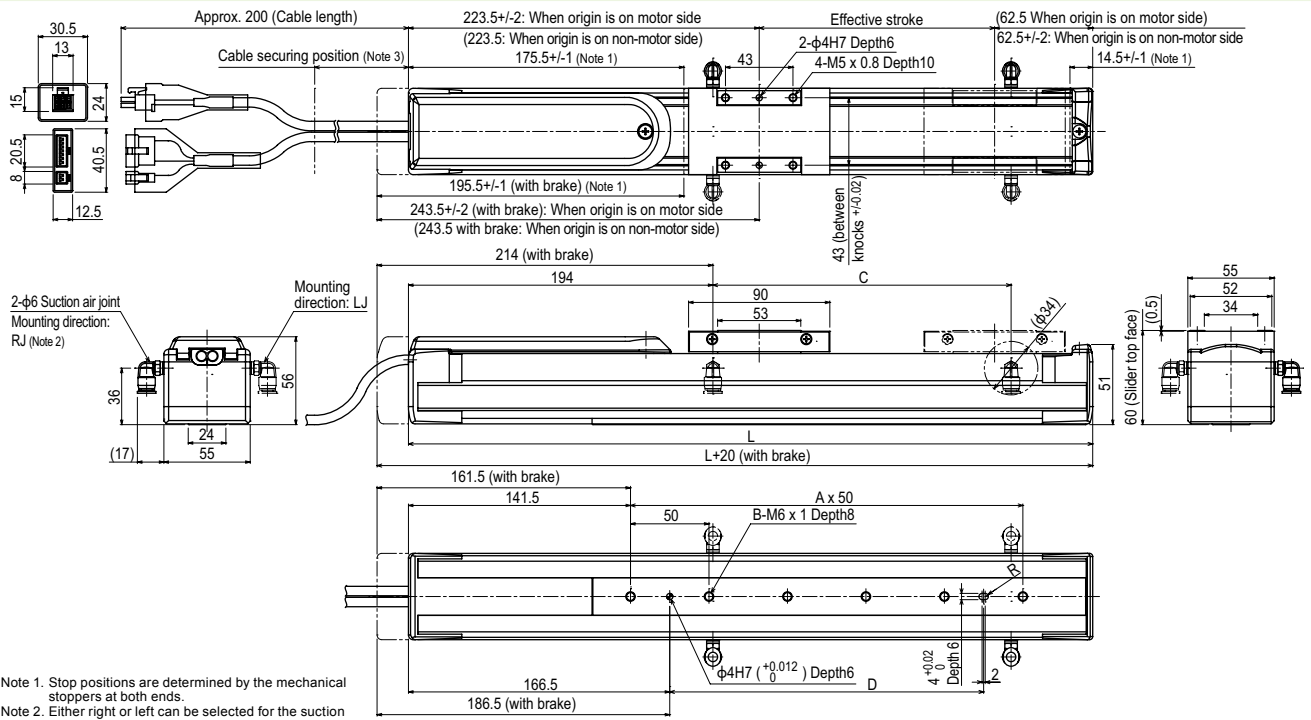
Static loading moment

Unit: N·m		
MY	MP	MR
32	38	34

Controller

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

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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 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	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
	L	336	386	436	486	536	586	636	686	736	786	836	886	936	986	1036
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)	2.4	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	5.3
Maximum speed for each stroke (mm/sec)	Lead 20	1000														
	Lead 12 (Horizontal)	600														
	Lead 12 (Vertical)	500														
	Lead 6 (Horizontal)	300														
	Lead 6 (Vertical)	250														
		280			250			220			190			190		

Articulated robots
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CONTROLLER INFORMATION

Single-axis
Cartesian
SCARA