

SS05H

Slider type

- High lead: Lead 20
- CE compliance
- Origin on the non-motor side is selectable



SS05H

Model	Lead	Model	Brake	Origin position	Grease option	Stroke	Cable length
	20: 20mm 12: 12mm 06: 6mm	S: Straight model R: Space-saving model (motor installed on right) L: Space-saving model (motor installed on left)	N: With no brake B: With brake	N: Standard Z: Non-motor side	N: Standard grease C: Clean room grease	50 to 800 (50mm pitch)	1K: 1m 3K: 3m 5K: 5m 10K: 10m

S2	I/O	
Robot positioner	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFIBET GW: No I/O board	
SH	I/O	
Robot positioner	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFIBET GW: No I/O board	Battery
		B: With battery (Absolute) N: None (Incremental)
SD	1	
Robot driver	I/O cable	
	1: 1m	

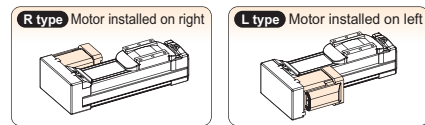
Note. Brake-equipped models can be selected only when the lead is 12mm or 6mm.
 Note. If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.
 Note. The robot cable is flexible and resists bending.
 Note. See P.60 for DIN rail mounting bracket.
 Note. Select this selection when using the gateway function. For details, see P.10.

Basic specifications

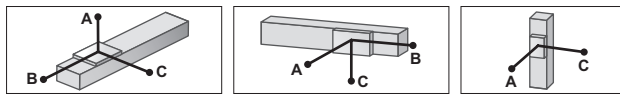
Motor	42 □ Step motor		
Resolution (Pulse/rotation)	20480		
Repeatability (mm)	+/-0.02		
Deceleration mechanism	Ball screw φ12 (Class C10)		
Maximum motor torque (N·m)	0.47		
Ball screw lead (mm)	20	12	6
Maximum speed (mm/sec)	Horizontal	1000	600
	Vertical	-	500
Maximum payload (kg)	Horizontal	6	8
	Vertical	-	2
Max. pressing force (N)	Horizontal	36	60
	Vertical	-	120
Stroke (mm)	50 to 800 (50pitch)		
Overall length (mm)	Horizontal	Stroke+286	
	Vertical	Stroke+306	
Maximum outside dimension of body cross-section (mm)	W55 × H56		
Cable length (m)	Standard: 3 / Option: 1, 5, 10		

Note. Positioning repeatability in one direction.
 Note. When the stroke is longer than 600mm, 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.

Motor installation (Space-saving model)



Allowable overhang Note



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
Lead 12	4kg	500	118	179	4kg	146	96	449	Lead 6	4kg	113	113
	6kg	399	79	118	6kg	85	55	334				
	8kg	403	56	88	8kg	55	34	305				
Lead 6	6kg	573	83	136	6kg	101	62	519				
	8kg	480	61	100	8kg	64	39	413				
	10kg	442	47	78	10kg	43	26	355				
	12kg	465	39	64	12kg	28	17	338				

Note. Distance from center of slider upper surface to carrier center-of-gravity at a guide service life of 10,000 km (Service life is calculated for 600mm stroke models).

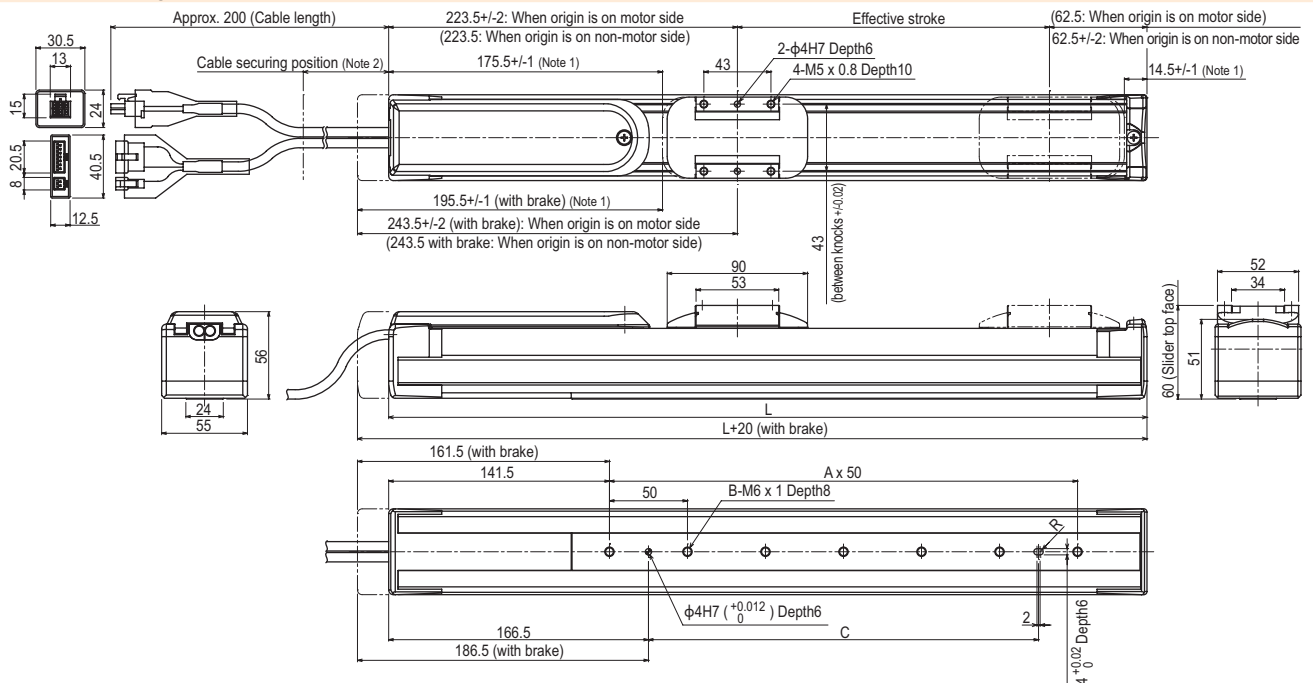
Static loading moment

(Unit: N·m)		
MY	MP	MR
32	38	34

Controller

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

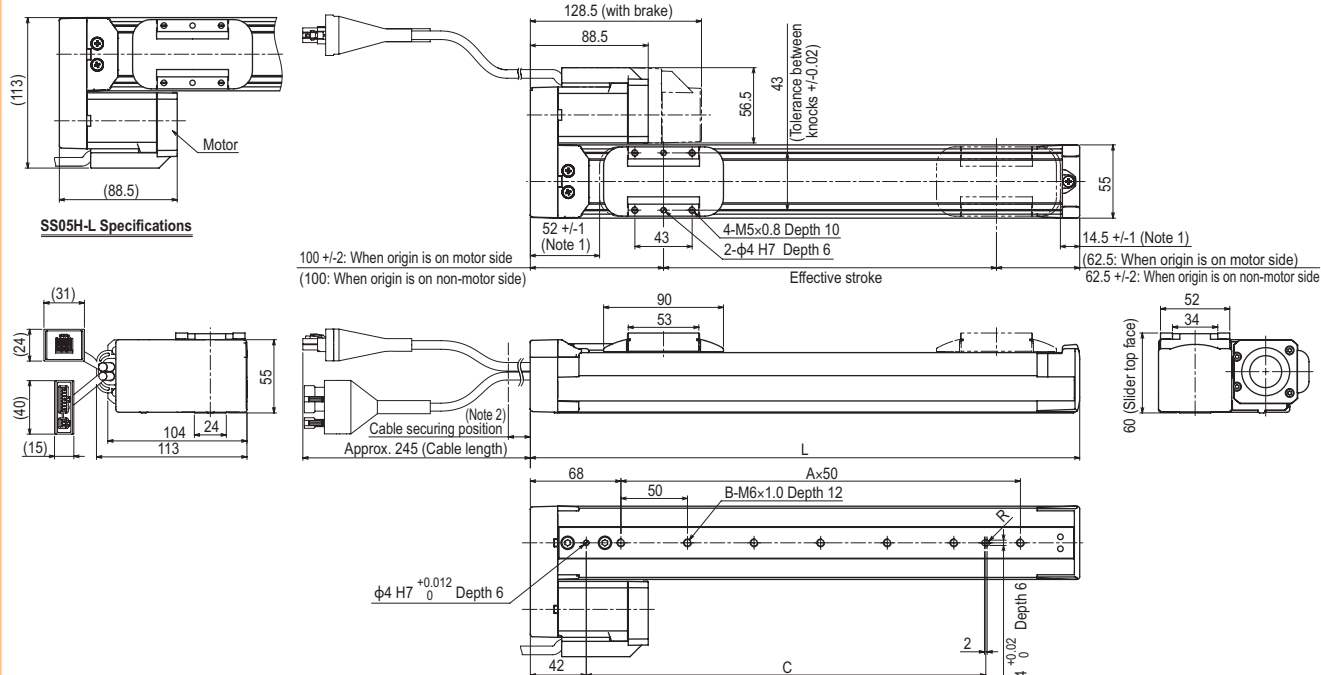
SS05H Straight model S



Effective stroke	Stroke (mm)																
	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	1086	
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)	Lead20	1000															
	Lead12 (Horizontal)	600															
	Lead12 (Vertical)	500															
	Lead6 (Horizontal)	300															
Speed setting	Lead6 (Vertical)	250															
		-															
		93%															
		83%															
		73%															
		63%															

Note. Stop positions are determined by the mechanical stoppers at both ends.
 Note. 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. The cable's minimum bend radius is R30.
 Note. These are the weights without a brake. The weights are 0.2kg heavier when equipped with a brake.
 Note. When the stroke is longer than 600mm, 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.

SS05H Space-saving model R L



Effective stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800				
L	212.5	262.5	312.5	362.5	412.5	462.5	512.5	562.5	612.5	662.5	712.5	762.5	812.5	862.5	912.5	962.5				
A	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				
B	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18				
C	100	150	200	250	300	350	400	450	500	500	500	500	500	500	500	500				
Weight (kg) ^{Note 4}	1.7	1.9	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				
Maximum speed for each stroke ^{Note 5} (mm/sec)	Lead20	1000																		
	Lead12 (Horizontal)	600																		
	Lead12 (Vertical)	500																		
	Lead6 (Horizontal)	300												280			250		190	
	Lead6 (Vertical)	250												220		190				
Speed setting	-												93%		83%		73%		63%	

Note. Stop positions are determined by the mechanical stoppers at both ends.

Note. Secure the cable with a tie-band 80mm or less from unit's end face to prevent the cable from being subjected to excessive loads.

Note. The cable's minimum bend radius is R30.

Note. These are the weights without a brake. The weights are 0.2kg heavier when equipped with a brake.

Note. When the stroke is longer than 600mm, 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.

Note. The belt cover's left and right sides are asymmetrical. Therefore, if the motor mounting orientation is changed, the cover cannot be attached.