

# SS05H

Slider type



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

## Ordering method

<b>SS05H</b>							
<b>Model</b>	<b>Lead</b>	<b>Model</b>	<b>Brake</b> <sup>Note 1</sup>	<b>Origin position</b>	<b>Grease option</b>	<b>Stroke</b>	<b>Cable length</b> <sup>Note 3</sup>
	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 <sup>Note 2</sup> Z: Non-motor side	N: Standard grease C: Clean room grease	50 to 800 (50mm pitch)	1K: 1m 3K: 3m 5K: 5m 10K: 10m

<b>S2</b>	<b>I/O</b>
<b>Robot positioner</b> S2: TS-S2 <sup>Note 4</sup>	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board <sup>Note 5</sup>
<b>SH</b>	<b>Battery</b>
<b>Robot positioner</b> SH: TS-SH	B: With battery (Absolute) N: None (Incremental)
<b>SD</b>	<b>1</b>
<b>Robot driver</b> SD: TS-SD	I/O cable 1: 1m

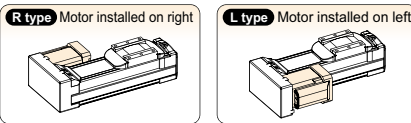
Note 1. Brake-equipped models can be selected only when the lead is 12mm or 6mm.  
 Note 2. If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.  
 Note 3. The robot cable is flexible and resists bending.  
 Note 4. 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

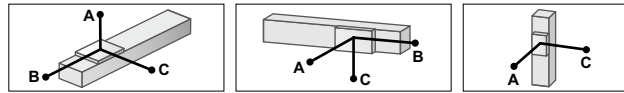
<b>Motor</b>	42 □ Step motor
<b>Resolution (Pulse/rotation)</b>	20480
<b>Repeatability</b> <sup>Note 1</sup> (mm)	+/-0.02
<b>Deceleration mechanism</b>	Ball screw φ12 (Class C10)
<b>Maximum motor torque (N·m)</b>	0.47
<b>Ball screw lead (mm)</b>	20    12    6
<b>Maximum speed</b> <sup>Note 2</sup> (mm/sec)	<b>Horizontal</b> 1000    600    300 <b>Vertical</b> -    500    250
<b>Maximum payload (kg)</b>	<b>Horizontal</b> 6    8    12 <b>Vertical</b> -    2    4
<b>Max. pressing force (N)</b>	36    60    120
<b>Stroke (mm)</b>	50 to 800 (50pitch)
<b>Overall length (mm)</b>	<b>Horizontal</b> Stroke+286 <b>Vertical</b> Stroke+306
<b>Maximum outside dimension of body cross-section (mm)</b>	W55 × H56
<b>Cable length (m)</b>	Standard: 1 / Option: 3, 5, 10

Note 1. Positioning repeatability in one direction.  
 Note 2. 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 <sup>Note</sup>



Horizontal installation (Unit: mm)				Wall installation (Unit: mm)				Vertical installation (Unit: mm)				
	A	B	C		A	B	C		A	C		
<b>Lead 20</b>	2kg	599	225	291	2kg	262	203	554	<b>Lead 12</b>	1kg	458	459
	4kg	366	109	148	4kg	118	88	309		2kg	224	224
	6kg	352	71	104	6kg	71	49	262	<b>Lead 6</b>	2kg	244	245
	4kg	500	118	179	4kg	146	96	449		4kg	113	113
<b>Lead 12</b>	6kg	399	79	118	6kg	85	55	334				
	8kg	403	56	88	8kg	55	34	305				
	6kg	573	83	136	6kg	101	62	519				
<b>Lead 6</b>	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).

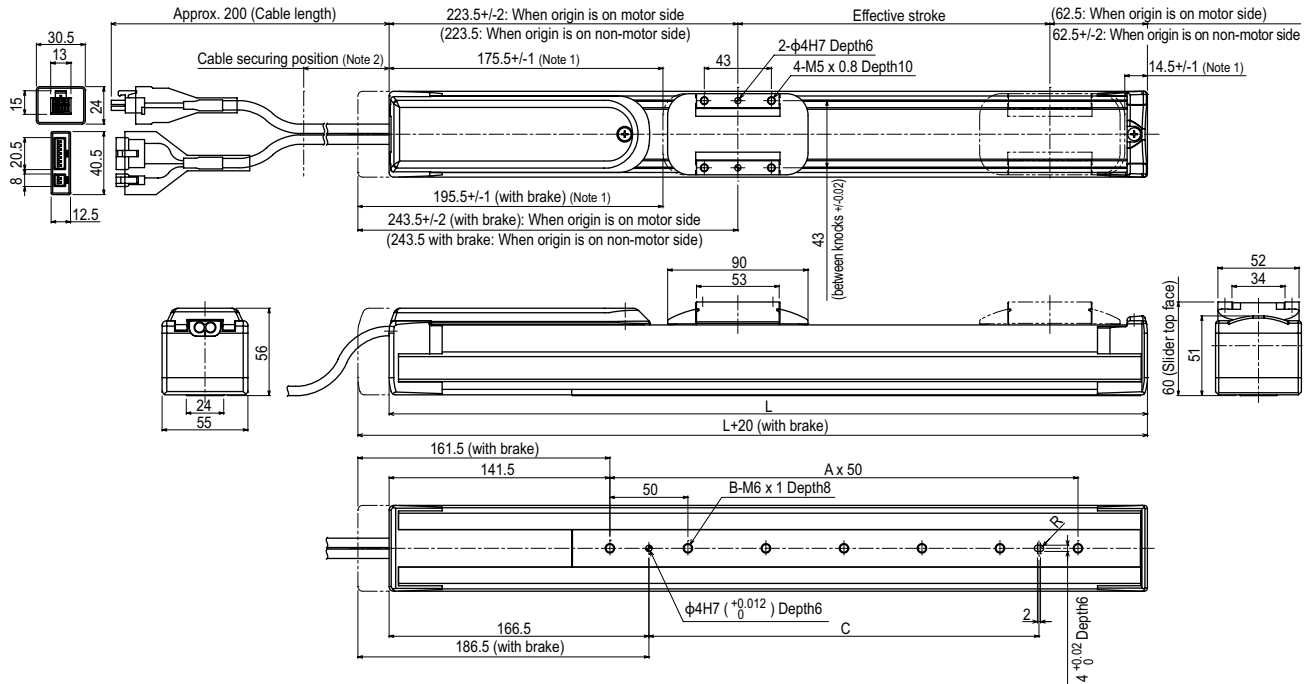
## Static loading moment

(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	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
<b>L</b>	336	386	436	486	536	586	636	686	736	786	836	886	936	986	1036	1086
<b>A</b>	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<b>B</b>	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
<b>C</b>	100	150	200	250	300	350	400	450	500	500	500	500	500	500	500	500
<b>Weight (kg)</b> <sup>Note 4</sup>	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
<b>Maximum speed for each stroke</b> <sup>Note 5</sup> (mm/sec)	<b>Lead20</b>	1000														
	<b>Lead12 (Horizontal)</b>	600														
	<b>Lead12 (Vertical)</b>	500														
	<b>Lead6 (Horizontal)</b>	300														
	<b>Lead6 (Vertical)</b>	250														
<b>Speed setting</b>	-															
													93%	83%	73%	63%

Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
 Note 2. 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 3. The cable's minimum bend radius is R30.  
 Note 4. These are the weights without a brake. The weights are 0.2kg heavier when equipped with a brake.  
 Note 5. 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.

