

# SS04

**Slider type**
**CE compliance**
**Origin on the non-motor side is selectable**


SS04-S



SS04-R

## Ordering method

### SS04

Model	Lead	Model	Brake	Origin position	Grease option	Stroke	Cable length <sup>Note 1</sup>
	12: 12mm 06: 6mm 02: 2mm	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 1</sup> Z: Non-motor side	N: Standard grease C: Clean room grease	50 to 400 (50mm pitch)	1K: 1m 3K: 3m 5K: 5m 10K: 10m

### S2

Robot positioner	I/O
S2: TS-S2 <sup>Note 3</sup>	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board <sup>Note 4</sup>

### SH

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

### SD

Robot driver	I/O cable
SD: TS-SD	1: 1m

Note 1. 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 2. The robot cable is flexible and resists bending.

Note 3. See P.600 for DIN rail mounting bracket.

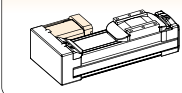
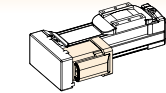
Note 4. Select this selection when using the gateway function.

## Basic specifications

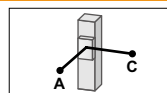
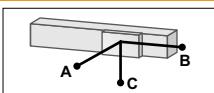
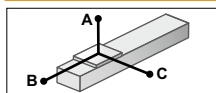
Motor	42 □ Step motor		
Resolution (Pulse/rotation)	20480		
Repeatability <sup>Note 1</sup> (mm)	±0.02		
Deceleration mechanism	Ball screw φ8		
Maximum motor torque (N·m)	0.27		
Ball screw lead (mm)	12	6	2
Maximum speed (mm/sec)	600	300	100
Maximum payload (kg)	Horizontal	4	6
	Vertical	1	4
Max. pressing force (N)	45	90	150
Stroke (mm)	50 to 400 (50mm pitch)		
Overall length (mm)	Horizontal	Stroke+216	
	Vertical	Stroke+261	
Maximum outside dimension of body cross-section (mm)	W49 × H59		
Cable length (m)	Standard: 1 / Option: 3, 5, 10		

Note 1. Positioning repeatability in one direction.

## Motor installation (Space-saving model)

**R type** Motor installed on right

**L type** Motor installed on left


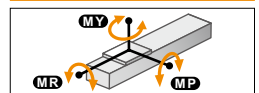
## Allowable overhang <sup>Note</sup>



Horizontal installation (Unit: mm)					Wall installation (Unit: mm)					Vertical installation (Unit: mm)				
		A	B	C			A	B	C			A	C	
Lead 12	1kg	807	218	292	Lead 12	1kg	274	204	776	Lead 12	0.5kg	407	408	
	2kg	667	107	152		2kg	133	93	611		1kg	204	204	
Lead 6	2kg	687	116	169	Lead 6	2kg	149	102	656	Lead 6	1kg	223	223	
	3kg	556	76	112		3kg	92	62	516		2kg	107	107	
Lead 2	4kg	567	56	84	Lead 2	4kg	63	43	507	Lead 2	2kg	118	118	
	4kg	869	61	92		4kg	72	48	829		4kg	53	53	
Lead 2	6kg	863	40	60	Lead 2	6kg	39	29	789	Lead 2				

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 400mm stroke models).

## Static loading moment

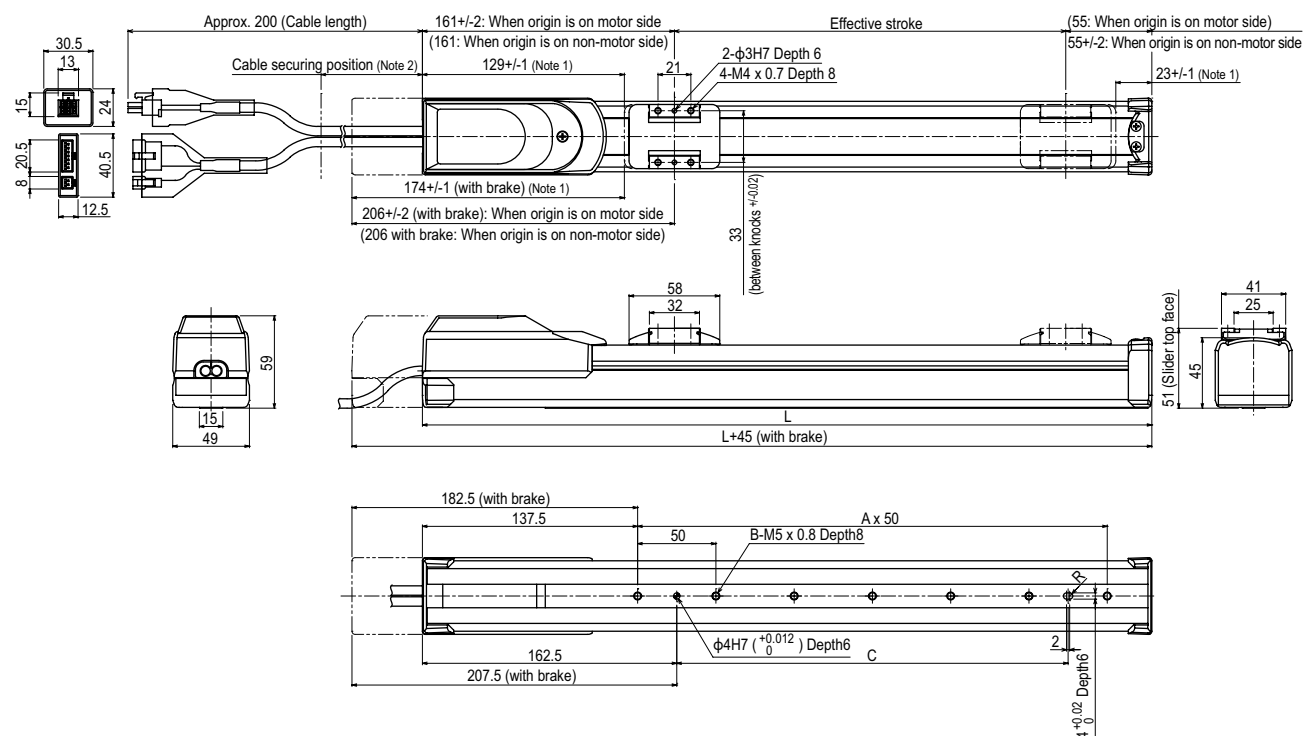


(Unit: N·m)			
MY	MP	MR	
16	19	17	

## Controller

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

## SS04 Straight model **S**



Effective stroke	50	100	150	200	250	300	350	400
L	266	316	366	416	466	516	566	616
A	2	3	4	5	6	7	8	9
B	3	4	5	6	7	8	9	10
C	50	100	150	200	250	300	350	400
Weight (kg) <sup>Note 4</sup>	1.5	1.6	1.7	1.8	2.0	2.1	2.2	2.3

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.