SS04 Slider type

CE compliance | Origin at non-motor side


SS04-S


SS04-R

Ordering method

SS04										
Model	Lead	Model	Brake	Origin position	Grease option	Stroke	Cable length Note 1	Controller Note 2	I/O
	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 Z: Non-motor side	N: Standard grease C: Clean room grease	50 to 400 (50mm pitch)	1L: 1m 3L: 3m 5L: 5m 10L: 10m	S: TS-S	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet

SD	1
Controller	I/O cable
SD: TS-SD	1: 1m

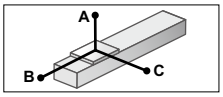
Note 1. The robot cable is flexible and resists bending.
Note 2. See P.404 for DIN rail mounting bracket.

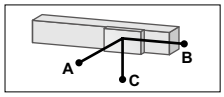
Basic specifications

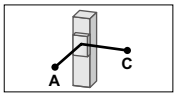
Motor		42 □ Step motor		
Repeatability Note 1 (mm)		+/-0.02		
Deceleration mechanism		Ball screw ϕ8 (Class C10)		
Maximum motor torque (N·m)		0.27		
Ball screw lead (mm)		12	6	2
Maximum speed (mm/sec)		600	300	100
Maximum payload (kg)	Horizontal	2	4	6
	Vertical	1	2	4
Max. pressing force (N)		45	90	150
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.

Allowable overhang Note







Horizontal installation (Unit: mm)

		A	B	C
Lead 12	1kg	807	218	292
	2kg	667	107	152
Lead 6	2kg	687	116	169
	3kg	556	76	112
	4kg	567	56	84
Lead 2	4kg	869	61	92
	6kg	863	40	60

Wall installation (Unit: mm)

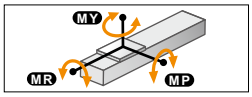
		A	B	C
Lead 12	1kg	274	204	776
	2kg	133	93	611
Lead 6	2kg	149	102	656
	3kg	92	62	516
	4kg	63	43	507
Lead 2	4kg	72	48	829
	6kg	39	29	789

Vertical installation (Unit: mm)

		A	C
Lead 12	0.5kg	407	408
	1kg	204	204
Lead 6	1kg	223	223
	2kg	107	107
Lead 2	2kg	118	118
	4kg	53	53

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)

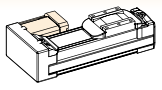
MY	MP	MR
16	19	17

Controller

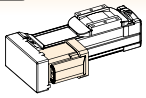
Controller	Operation method
TS-S	I/O point trace / Remote command
TS-SD	Pulse train control

Motor installation (Space-saving model)

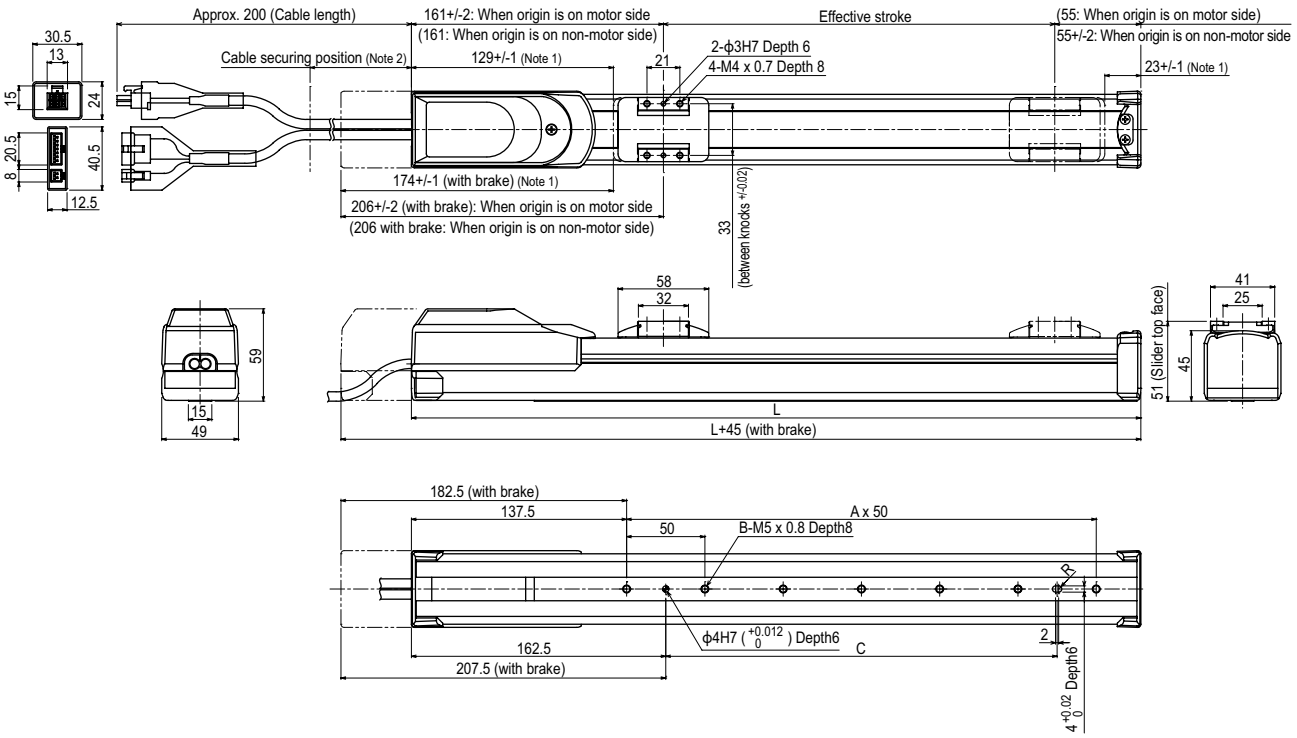
R type Motor installed on right



L type Motor installed on left



SS04 Straight model S

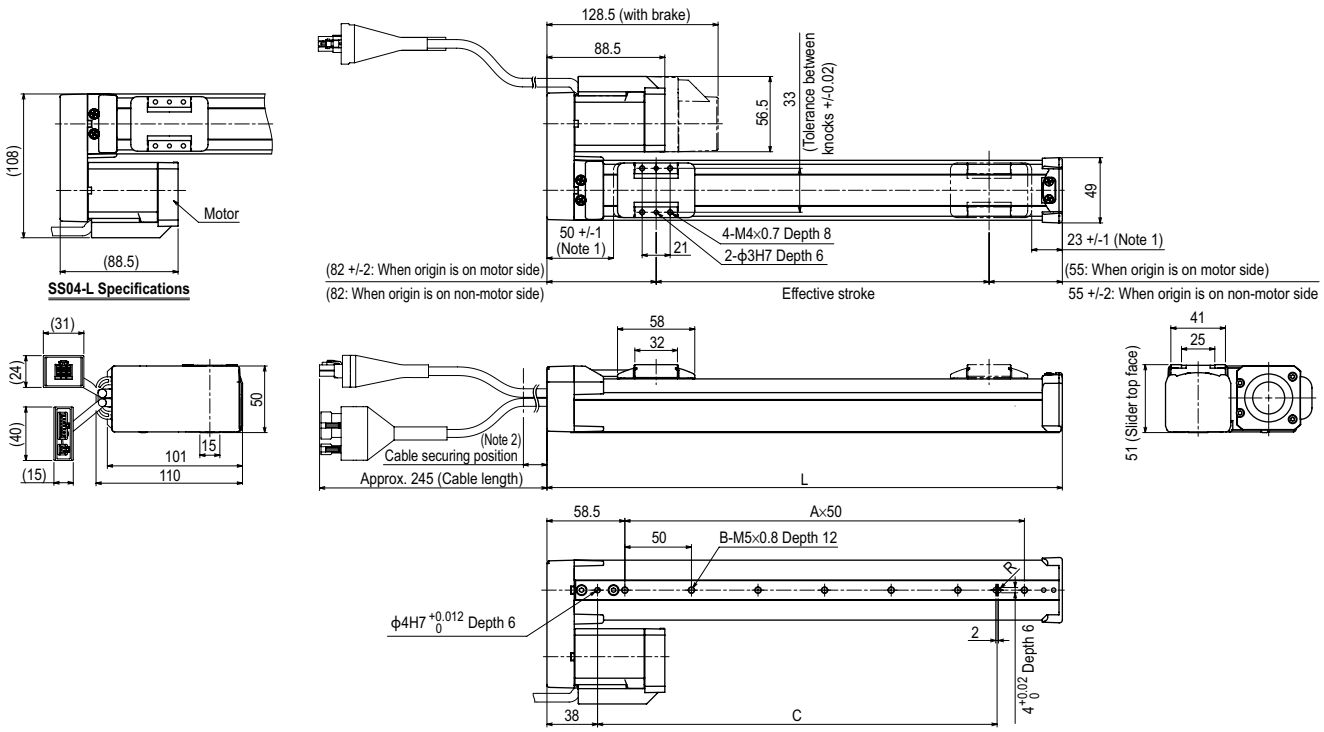


Effective stroke	50	100	150	200	250	300	350	400
L	266	316	366	416	466	516	566	616
A	2	3	4	5	6	7	8	9
B	3	4	5	6	7	8	9	10
C	50	100	150	200	250	300	350	400
Weight (kg) Note 4	1.5	1.6	1.7	1.8	2.0	2.1	2.2	2.3

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.

Controller TS-S ▶ 396 TS-SD ▶ 408

SS04 Space-saving model R L



Effective stroke	50	100	150	200	250	300	350	400
L	187	237	287	337	387	437	487	537
A	2	3	4	5	6	7	8	9
B	3	4	5	6	7	8	9	10
C	100	150	200	250	300	350	400	450
Weight (kg) Note 4	1.2	1.4	1.5	1.6	1.7	1.8	1.9	2.1

Note 1. Stop positions are determined by the mechanical stoppers at both ends.
Note 2. 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 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. The belt cover's left and right sides are asymmetrical. Therefore, if the motor mounting orientation is changed, the cover cannot be attached.

Controller TS-S ▶ 396 TS-SD ▶ 408