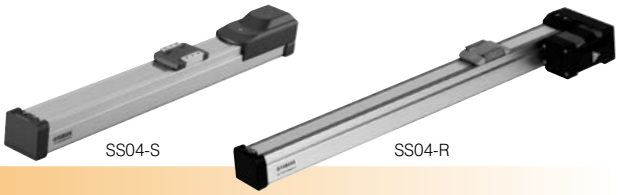
SS04 Slider type

CE compliance | Origin on the non-motor side is selectable



Ordering method

SS04 – [Lead] – [Model] – [Brake] – [Origin position] – [Grease option] – [Stroke] – [Cable length Note 2] – [S2 / SH / SD] – [I/O] – [Battery] – [1]

Model	Lead	Model	Brake	Origin position	Grease option	Stroke	Cable length Note 2
	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 Note 1 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: S2: TS-S2 Note 3 – I/O: NP: NPN; PN: PNP; CC: CC-Link; DN: DeviceNet™; EP: EtherNet/IP™; PT: PROFINET; GW: No I/O board Note 4

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

SD – Robot driver: SD: TS-SD – **1** – I/O cable: 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.498 for DIN rail mounting bracket.
Note 4. Select this selection when using the gateway function. For details, see P.60.

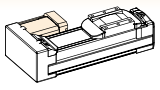
Basic specifications

Motor		42 □ Step motor		
Resolution (Pulse/rotation)		20480		
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		

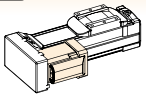
Note 1. Positioning repeatability in one direction.

Motor installation (Space-saving model)

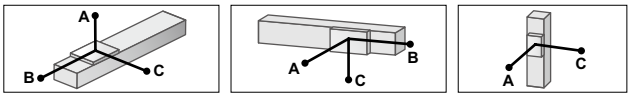
R type Motor installed on right



L type Motor installed on left



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)

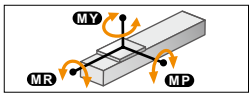
		A	B	C
Lead 12	1kg	274	204	776
	2kg	133	93	611
Lead 6	2kg	149	102	656
	3kg	92	62	516
	4kg	63	43	507
Lead 2	4kg	72	48	829
	6kg	39	29	789

Vertical installation (Unit: mm)

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



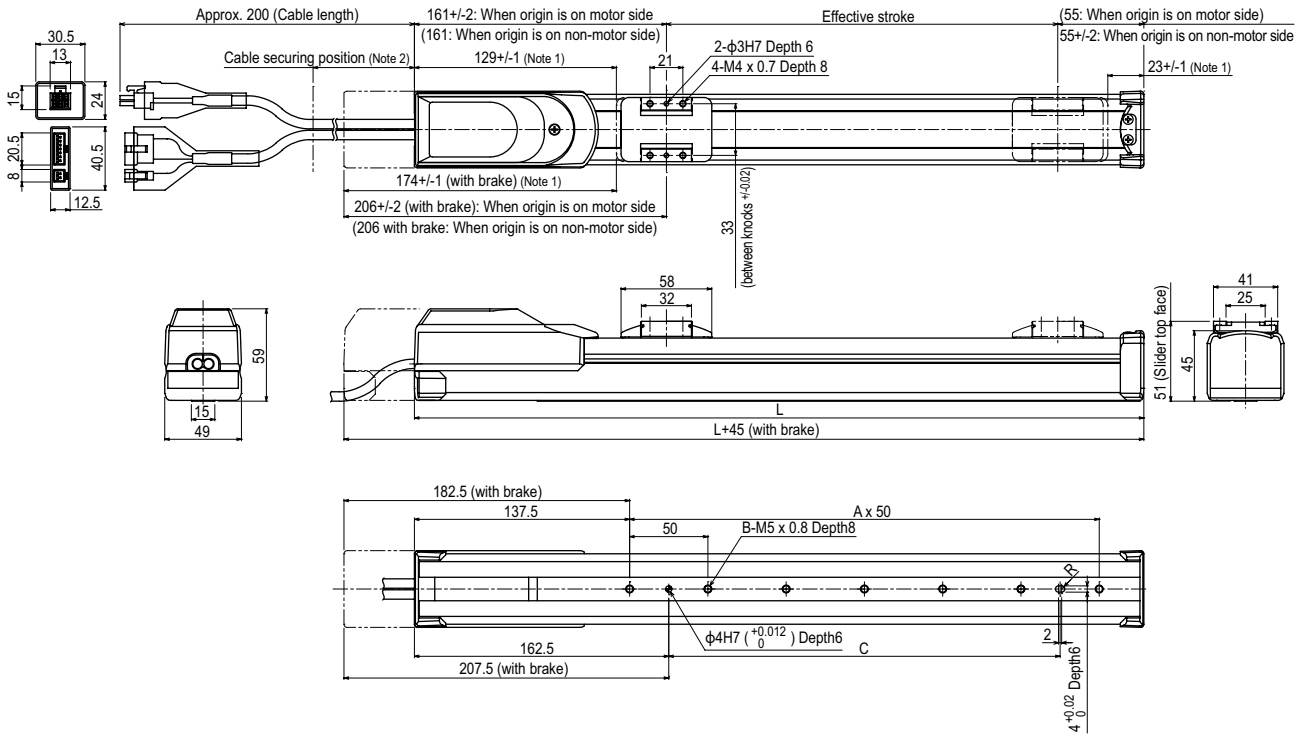
(Unit: N·m)

MY	MP	MR
16	19	17

Controller

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

SS04 Straight model S

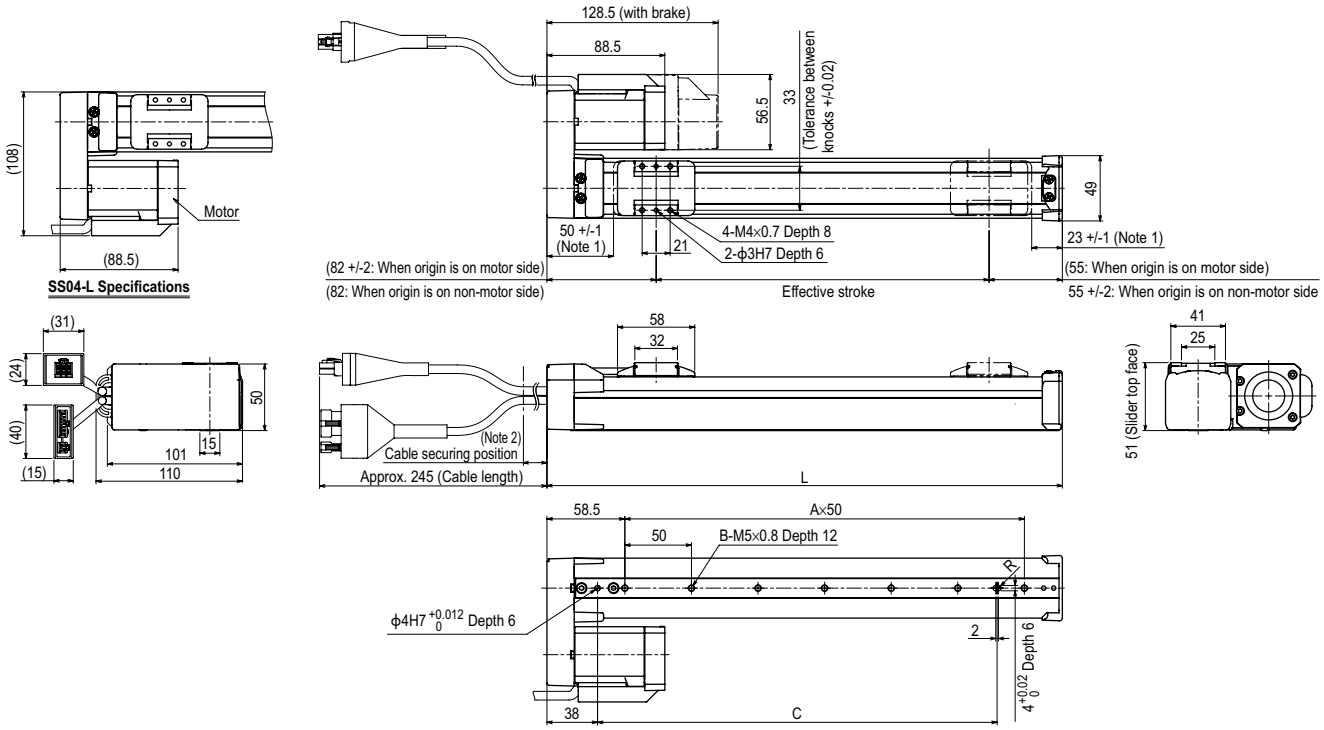


Effective stroke	50	100	150	200	250	300	350	400
L	266	316	366	416	466	516	566	616
A	2	3	4	5	6	7	8	9
B	3	4	5	6	7	8	9	10
C	50	100	150	200	250	300	350	400
Weight (kg) Note 4	1.5	1.6	1.7	1.8	2.0	2.1	2.2	2.3

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-S2 ▸ 490 | TS-SH ▸ 490 | TS-SD ▸ 500

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.