Slider type

CE compliance Origin on the non-motor side is selectable



SH

SD

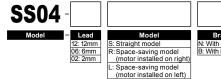
PN: PNF

PN: PNF

GW: No I/O board

Cable length Note 2

■ Ordering method



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.

Lead 12

Lead 6

- Note 3. See P.634 for DIN rail mounting bracket.

 Note 4. Select this selection when using the gateway function. For details, see P.96.

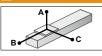
			5 5	,		
Basic sp	ecificati	ons				
Motor		42	Step mo	otor		
Resolution (Pul			20480			
Repeatability No	te 1 (mm)		+/-0.02			
Deceleration me	echanism	Ва	all screw d	8		
Maximum motor	torque (N·m)		0.27			
Ball screw lead	(mm)	12	6	2		
Maximum speed	d (mm/sec)	600	300	100		
Maximum	Horizontal	2	4	6		
payload (kg)	Vertical	1	2	4		
Max. pressing f	orce (N)	45	90	150		
Stroke (mm)		50 to 4	00 (50mm	pitch)		
Overall length	Horizontal	5	Stroke+21	3		
(mm)	Vertical	Stroke+261				
Maximum outsid of body cross-se		W49 × H59				

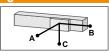
Note 1. Positioning repeatability in one direction.

Motor installation (Space-saving model)

Cable length (m)

Allowable overhang Note







c	rizonta	l instal	lation (Unit: mm)	W	Wall installation (Unit: mm)			Vertical installation (Unit: mm)				
		Α	В	С			Α	В	С			Α	С
	1kg	807	218	292	d 12	1kg	274	204	776	Lead 12	0.5kg	407	408
1	2kg	667	107	152	Lea	2kg	133	93	611		1kg	204	204
,	2kg	687	116	169	9	2kg	149	102	656	d 6	1kg	223	223
5	3kg	556	76	112	ead	3kg	92	62	516	Lead	2kg	107	107
Í	4kg	567	56	84	ت	4kg	63	43	507	d 2	2kg	118	118
5	4kg	869	61	92	d 2	4kg	72	48	829	Lea	4kg	53	53

6kg 863 40 60 **9 6kg** 39 29 789 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).

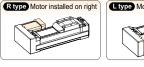
Static loading moment

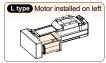
B: With batt

(Absolute) N: None (Incremental)

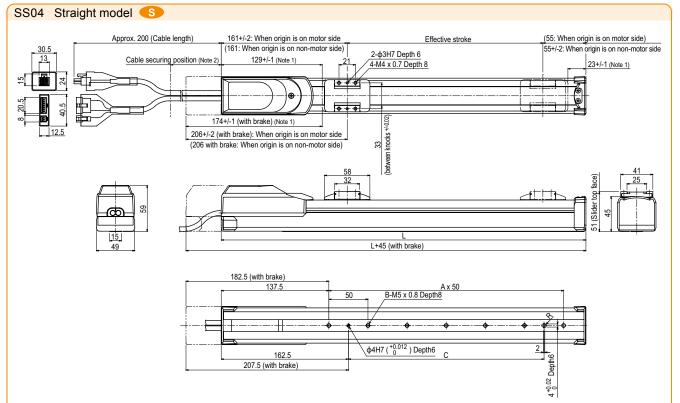
MR ✓										
		(Unit: N·m								
MY	MP	MR								

7	Contra	Ollei
3	Controller	Operation method
3	TS-S2	I/O point trace /
_	TS-SH	Remote command
	TS-SD	Pulse train control





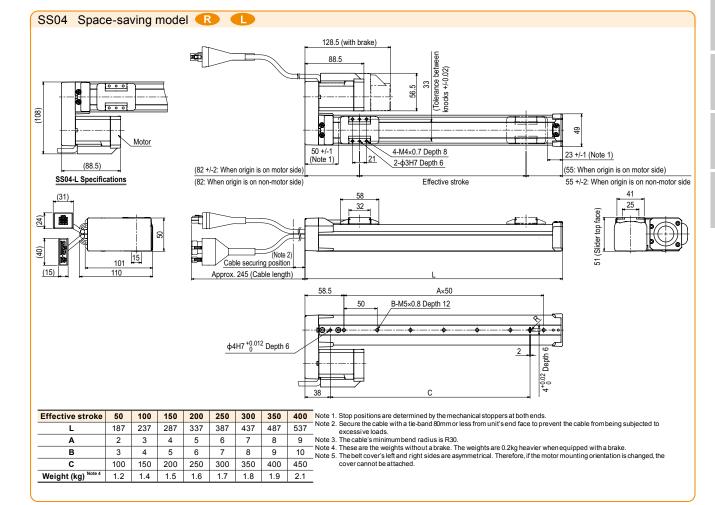
Standard: 1 / Option: 3, 5, 10



Effective stroke	50	100	150	200	250	300	350	400	ı
L	266	316	366	416	466	516	566	616	- 1
Α	2	3	4	5	6	7	8	9	- !
В	3	4	5	6	7	8	9	10	- 1
С	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. lote 3. The cable's minimum bend radius is R30.
- lote 4. These are the weights without a brake. The weights are 0.2kg heavier when equipped with a brake



High lead: Lead 20

CE compliance

Slider type

Origin on the non-motor side is selectable



PN: PNF PN: FINE
CC: CC-Link
DN: DeviceNet™
EP: EtherNet/IP™
PT: PROFINET GW: No I/O board

PN: PNP CC: CC-Lin

S2

SH

SD

Ordering method

SS05 -		_	_		
	Model S: Straight model R: Space-saving model (motor installed on right) L: Space-saving model (motor installed on left)	N: With no brake N: Sta	in position – Grease andard Note 2 n-motor side N: Standard C: Clean roo	grease 50 to 80	0 1K: 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.634 for DIN rail mounting bracket.

 Note 5. Select this selection when using the gateway function. For details, see P.96.

■ Basic sp	ecificati	ons			
Motor		42 [Step mo	otor	
Resolution (Puls	se/rotation)		20480		
Repeatability No	te 1 (mm)		+/-0.02		
Deceleration me	chanism	Ва	II screw ¢	12	
Maximum motor	torque (N·m)		0.27		
Ball screw lead	(mm)	20	12	6	
Maximum speed N	ote 2 (mm/sec)	1000	600	300	
Maximum	Horizontal	4	6	10	
payload (kg)	Vertical	_	1	2	
Max. pressing for	orce (N)	27	45	90	
Stroke (mm)		50 to 8	00 (50mn	n pitch)	
Overall length	Horizontal		Stroke+23		
(mm)	Vertical	5	Stroke+27	0	
Maximum outside of body cross-se	W55 × H56				
Cable length (m)	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.

Allowable overhang Note

в С

> 67 120

72 139

47 95

78 165

37

79



Horizontal installation (Unit: mm)

Α

347

335

503

2kg 413 139 218

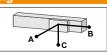
4kg 334

4kg

6kg

4kg

8kg 332



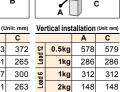
63 31 263

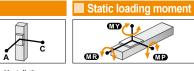
134

В С

> 63 496

> 35 377





		(Unit: N·m)
MY	MP	MR
25	33	30

Controller Operation method

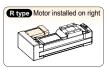
IO point trace /

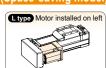
Remote command

œ

: With batte

(Absolute)





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

Wall installation

2kg 192 123 372

4kg 92 51 265

4kg 109 57 300

6kg

4kg

6kg 76

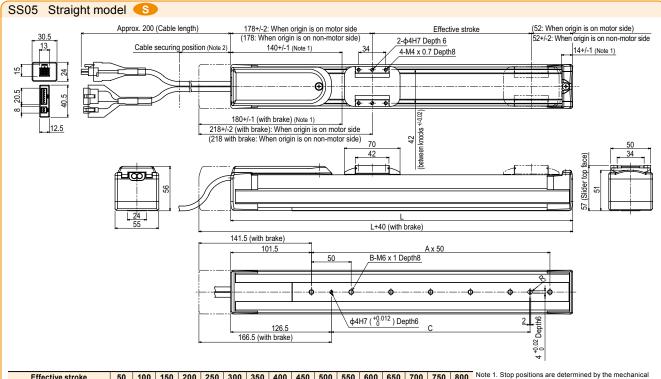
Lead

10kg 344 29 62 8kg 47 22 355

TSD Pulse train control 14+/-1 (Note 1)

T\$2

T \$5H



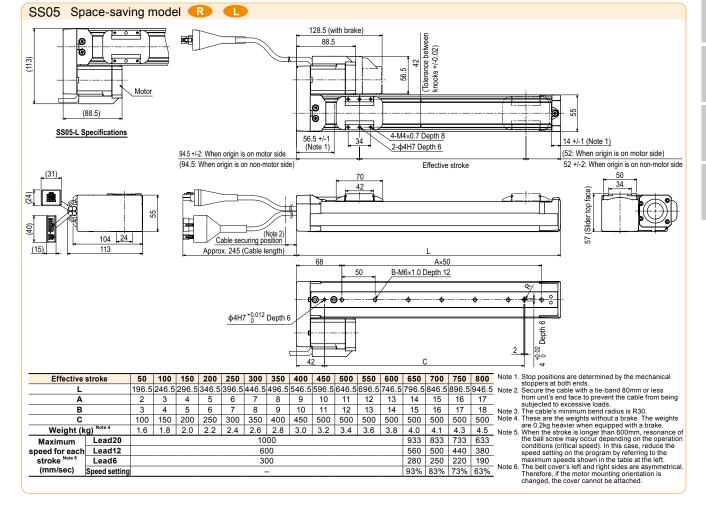
stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	NO
	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	Not
	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Not
	100	150	200	250	300	350	400	450	500	500	500	500	500	500	500	500	Not
(g) Note 4	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	4.8	5.0	Not
Lead20						10	00						933	833	733	633	
Lead12						60	00						560	500	440	380	
Lead6						30	00						280	250	220	190	
Speed setting						-							93%	83%	73%	63%	_
	(g) Note 4 Lead20 Lead12 Lead6	280 3 4 100 (g) Note 4 2.1 Lead20 Lead12	280 330 3 4 4 5 100 150 (g) Note 4 2.1 2.3 Lead20 Lead12 Lead6	280 330 380 3 4 5 4 5 6 100 150 200 (cg) Note 4 2.1 2.3 2.5 Lead20 Lead12 Lead6	280 330 380 430 3 4 5 6 4 5 6 7 100 150 200 250 (g) Note 4 2.1 2.3 2.5 2.7 Lead20 Lead12 Lead6	280 330 380 430 480 3 4 5 6 7 4 5 6 7 8 100 150 200 250 300 (g) Note 4 2.1 2.3 2.5 2.7 2.8 Lead20 Lead12 Lead6	280 330 380 430 480 530 3 4 5 6 7 8 4 5 6 7 8 9 100 150 200 250 300 350 (g) Note 4 2.1 2.3 2.5 2.7 2.8 3.0 Lead20 Lead12 Lead6 330 380 430 480 530 0 7 8 9 0 7 8 9 0 7 8 9 0 7 8 9 0 7 8 9 0 7 8 9 0 7 8 9 0 7 8 9 0 7 8 9 0 7 8 9 0 7 8 9 0 7 8 9 0 7 8 9 0 8 9	280 330 380 430 480 530 580 3 4 5 6 7 8 9 4 5 6 7 8 9 10 100 150 200 250 300 350 400 (cg) Note 4 2.1 2.3 2.5 2.7 2.8 3.0 3.2 Lead20 Lead12 Lead6	280 330 380 430 480 530 580 630 3 4 5 6 7 8 9 10 4 5 6 7 8 9 10 11 100 150 200 250 300 350 400 450 (cg) Note 4 2.1 2.3 2.5 2.7 2.8 3.0 3.2 3.4 Lead20 Lead12 Lead6	280 330 380 430 480 530 580 630 680 3	280 330 380 430 480 530 580 630 680 730 3 4 5 6 7 8 9 10 11 12 4 5 6 7 8 9 10 11 12 13 100 150 200 250 300 350 400 450 500 500 (cg) Note 4 2.1 2.3 2.5 2.7 2.8 3.0 3.2 3.4 3.6 3.8 Lead20 Lead12 Lead6	280 330 380 430 480 530 580 630 680 730 780 3 4 5 6 7 8 9 10 11 12 13 4 5 6 7 8 9 10 11 12 13 14 100 150 200 250 300 350 400 450 500 500 500 (cg) Note 4 2.1 2.3 2.5 2.7 2.8 3.0 3.2 3.4 3.6 3.8 4.0 Lead20 Lead12 Lead6 300	280 330 380 430 480 530 580 630 680 730 780 830 3 4 5 6 7 8 9 10 11 12 13 14 4 5 6 7 8 9 10 11 12 13 14 15 100 150 200 250 300 350 400 450 500 500 500 500 (cg) Note 4 2.1 2.3 2.5 2.7 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 Lead20 Lead12 Lead6	280 330 380 430 480 530 580 630 680 730 780 830 880 3	280 330 380 430 480 530 580 630 680 730 780 830 880 930 3	280 330 380 430 480 530 580 630 680 730 780 830 880 930 980 3	280 330 380 430 480 530 580 630 680 730 780 830 880 930 980 1030 3

Controller

- ote 1. Stop positions are determined by the mechanical stoppers at both ends.
- stoppers at both ends.

 lote 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.

 lote 3. The cable's minimum bend radius is R30. lote 4. These are the weights without a brake. The weights are 0.2kg heavier when equipped with a brake. lote 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.



Slider type

High lead: Lead 20

CE compliance Origin on the non-motor side is selectable

: Standard grease

N: Standard grease C: Clean room grease



Ordering method

SS05H	-			_
Model	Lead	Model	Brake Note 1	- Origin positi
	20: 20mm	S: Straight model	N: With no brake	N: Standard N
	12: 12mm	R:Space-saving model	B: With brake	Z: Non-motor s
	06: 6mm	(motor installed on right)		
		L: Space-saving model		
		(motor installed on left)		

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.

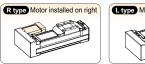
Note 4. See P.634 for DIN rail mounting bracket.

Note 5. Select this selection when using the gateway function. For details, see P.96.

Basic sp	ecificati	ons				
Motor		42	Step mo	ntor		
Resolution (Pul	so/rotation)	72	20480	J.(J)		
Repeatability No			+/-0.02			
Deceleration me		Ra	II screw d	12		
Maximum motor		Da	0.47	12		
		00		_		
Ball screw lead		20	12	6		
Maximum speed Note 2	Horizontal	1000	600	300		
(mm/sec)	Vertical	_	500	250		
Maximum	Horizontal	6	8	12		
payload (kg)	Vertical	_	2	4		
Max. pressing f	orce (N)	36	60	120		
Stroke (mm)		50 to 800 (50pitch)				
Overall length	Horizontal	5	Stroke+28	6		
(mm)	Vertical		Stroke+30	6		
Maximum outsid of body cross-se	W55 × H56					
Cable length (m)	Standard	1 / Option	n: 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 Note

В

71 104

79 118

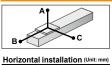
56 83

61

39 64

88 136

100



599 225 291

399

480

4kg 366 109 148

6kg 352

4kg 500 118 179

6ka

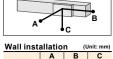
8kg 403 573

6kg

8kg

10kg 442

12kg 465



262 203 554

85 55

64 39

49 262

334

413

355

338

t: mm)	Vertical installation (Unit: mm)									
С			Α	С						
554	Lead 12	1kg	458	459						
309	Lea	2kg	224	224						
262	9 p	2kg	244	245						
449	Lead 6	4kg	113	113						
334										
305										
519										

S2

Cable length N

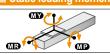
PN: PNF GW: No I/O board

SH

SD

3: With bat PN: PNF (Absolute) N: None (Incremental)

Static loading moment



		(Unit: N·m)
MY	MP	MR
32	38	34

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

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)

2kg

4kg 118 88 309

6kg

4kg 146 96 449

6ka

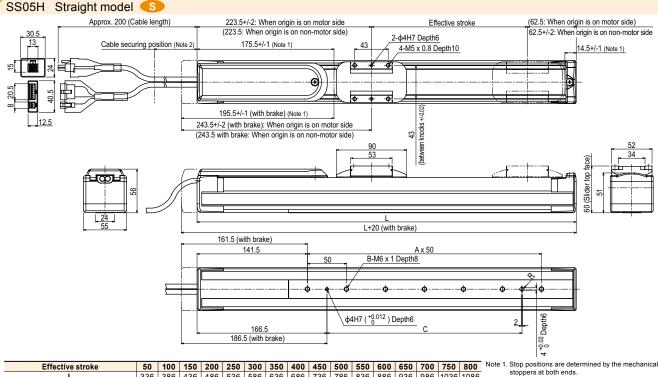
8kg 55 101

6kg

8kg

10kg

12kg



Effec	tive stroke	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	1
	Α	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	В	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
	С	100	150	200	250	300	350	400	450	500	500	500	500	500	500	500	500	
Weig	ht (kg) Note 4	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	
speed for each stroke Note 5 Lead6 (Horizont	Lead20	1000 933 833										733	633	1				
	Lead12 (Horizontal)	600									560	500	440	380				
	Lead12(Vertical)		500													440	380	
	Lead6 (Horizontal)	300 280 250										220	190					
	Lead6 (Vertical)	250										220	190					
	Speed setting							_						93%	83%	73%	63%	

Controller

- 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.
- are U.zkg neavier when equipped with a brake.

 Note 5. When the stroke is longer than 600mm,
 resonance of the ball screw may occur depend
 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.

