www.bergab.ru Берг АБ bergab@ya.ru Тел. (495)-228-06-21, факс (495) 223-3071

ACCURACY

Three accuracy grades are available: normal-grade (no suffix), high-grade (H), and precision-grade (P).

Table 1 Accuracy unit/mm

part number	SGW17,21			SGW27,35		
accuracy grade	normal	high	precision	normal	high	precision
accuracy symbol	blank	H	P	blank	H	P
allowable dimensional tolerance for height H	±0.1	±0.03	–0.03~0	±0.1	±0.04	–0.04~0
paired difference for height H	0.02	0.01	0.006	0.02	0.015	0.007
allowable dimensional tolerance for width W	±0.1	±0.03	–0.03~0	±0.1	±0.04	–0.04~0
paired difference for width W	0.02	0.01	0.006	0.03	0.015	0.007
Running parallelism of surface C to surface A Running parallelism of surface D to surface B	refer to Figure 1					

Figure 1 Motion Accuracy

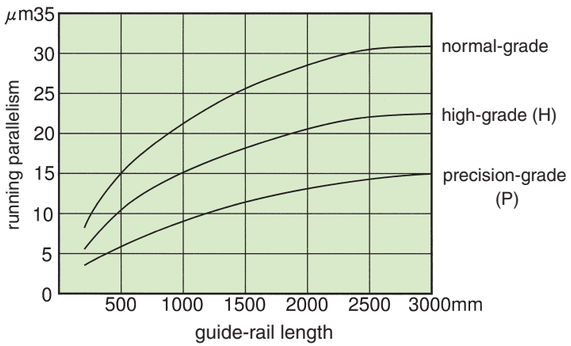
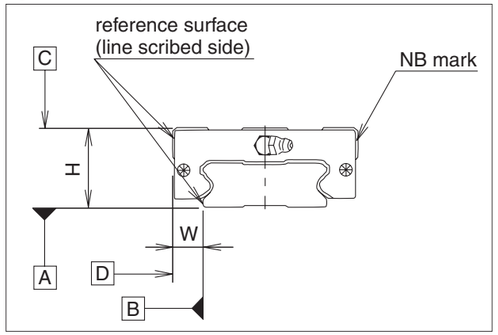


Figure 2 Accuracy



PRE-LOAD

Three levels of pre-load are available for SGW slide guides: standard, light (T1), and medium (T2).

Table 2 Pre-Load Call Out and Radial Clearance unit/μm

category	standard	light	medium
symbol	blank	T1	T2
SGW17	–3~+2	– 7~–3	–
SGW21	–4~+2	– 8~–4	–
SGW27	–5~+2	–11~–5	–
SGW35	–8~+4	–18~–8	–28~–18

Table 3 Operating Conditions and Pre-Load

pre-load category	symbol	operating condition
standard	blank	Minute vibration is applied. Precision motion is required. Moment in a given direction is applied.
light	T1	Light vibration is applied. Light torsion is applied. Moment is applied.
medium	T2	Shock/vibration is applied. Over-hang load is applied. Torsional load is applied.

NIPPON BEARING CO., LTD.

2833 Chiya, Ojiya-city, Niigata-pref.,947-8503 JAPAN
Phone: + 81-258-82-0011 Fax: + 81-258-81-1135
http://www.nb-linear.co.jp

NB Corporation of America
930 Muirfield Drive, Hanover Park, IL 60133
Phone:(630)295-8880 Fax:(630)295-8881
Toll Free:(800)521-2045
http://www.nbcorporation.com
info@nbcorporation.com

Western Regional Office
2157 O'Toole Ave., Suite D, San Jose, CA 95131
Phone:(408)435-1800 Fax:(408)435-1850
Toll Free:(888)562-4175

Eastern Regional Office
52 First Street, Hackensack, NJ 07601
Phone:(201)487-1441 Fax:(201)487-7107
Toll Free:(800)981-8190

NB Europe B.V.
Boekweitstraat 21, 2153 GK Nieuw-Vennep, The Netherlands
Phone:+31(0)252 463 200 Fax:+31(0)252 463 209
http://www.nbeurope.com
info@nbeurope.com

No. 5610
First Edition:Jul.6,2007

NB

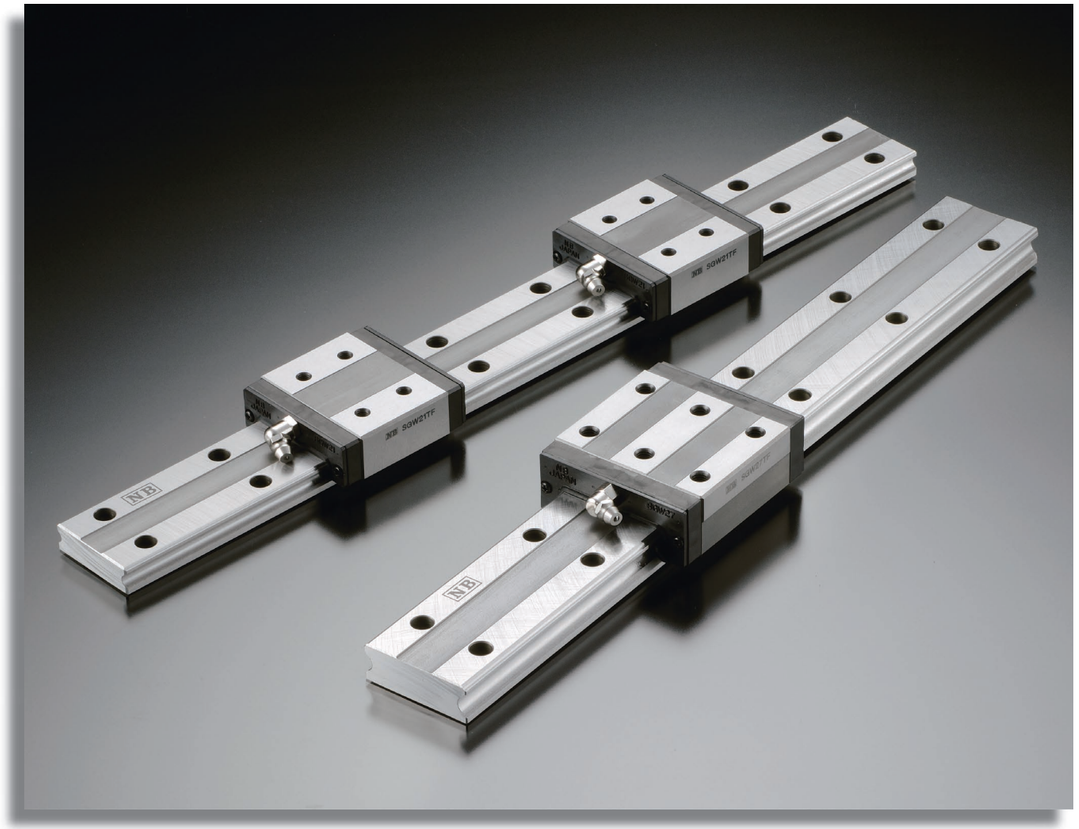
NEW ITEM

SGW-TF type

SLIDE GUIDE

SLIDE GUIDE

Extreme Rigidity, High Moment Load Capability
Low-Wide Profile Optimal in Single Axis Use



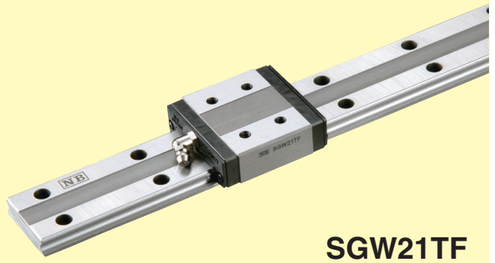
ISO9001／ISO14001

NIPPON BEARING CO., LTD.

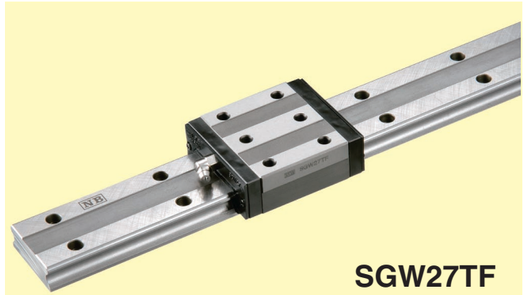
www.bergab.ru Берг АБ bergab@ya.ru Тел. (495)-228-06-21, факс (495) 223-3071

www.bergab.ru Берг АБ bergab@ya.ru Тел. (495)-228-06-21, факс (495) 223-3071

SGW-TF TYPE



SGW21TF



SGW27TF

part number structure example SGW 21 TF B 2 T1 - 589 P / W2 FS LB F - KGL

SGW type

size

block style

seal

blank	With side-seals
B	With side seals + under-seals

number of blocks per rail

symbol for pre-load

blank	standard
T1	light
T2	medium

total length of rail

accuracy grade

blank	standard
H	high
P	precision

symbol for grease

blank	standard grease
KGL	litium-based grease
KGU	urea-based grease
KGF	anti-fretting grease
GK	K-grease

with rail mounting hole caps

with low temperature black chrome treatment

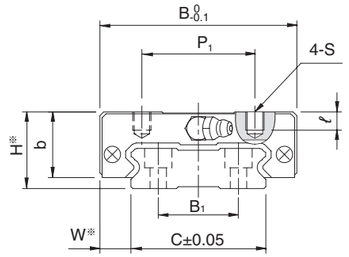
with Fiber Sheet
Fiber sheet comes only with standard grease.

symbol for number of rails

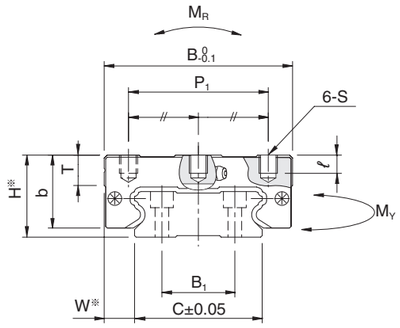
blank	single rail
W2	double rails
W3	triple rails

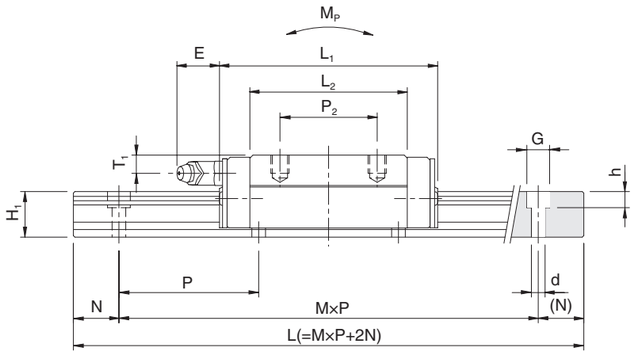
The symbol for the number of rails does not mean the number of rails ordered.

SGW17 · 21TF



SGW27 · 35TF





M: number of pitches

※Refer to the next page for accuracy.

part number	assembly dimensions		block dimensions											
	H mm	W mm	B mm	L_1 mm	L_2 mm	P_1 mm	P_2 mm	S	ℓ mm	T mm	b mm	E mm	T_1 mm	grease fitting
SGW17TF	17	8.5	50	51	33.6	29	15	M4	4	—	14.5	2.5	4	pressed fitting
SGW21TF	21	8.5	54	58	40	31	19	M5	5	—	18	14	4.5	B-M6F
SGW27TF	27	10	62	71.8	51.8	46	32	M6	6	10	24		6	
SGW35TF	35	15.5	100	106.6	77.6	76	50	M8	8	14	31		8	

part number	guide-rail dimensions						basic load rating		allowable static moment			mass		size
	H_1 mm	C mm	B_1 mm	d×G×h mm	N mm	P mm	dynamic C kN	static Co kN	M_P N·m	M_Y N·m	M_R N·m	block kg	guide rail kg/m	
SGW17	9	33	18	4.5×7.5×5.3	15	40	4.8	8.6	43	43	161	0.13	2.05	**17**
SGW21	11	37	22			50	7	12	72	72	253	0.20	2.84	**21**
SGW27	15	42	24		20	60	13	22	172	172	496	0.38	4.43	**27**
SGW35	19	69	40	7×11×9		80	31	49	579	579	1,855	1.16	9.32	**35**

1kN ≒ 102kgf 1N·m ≒ 0.102kgf·m

part number	standard rail length L mm										maximum length mm
SGW17	110	150	190	230	270	310	350	390	430	510	590
SGW21	130	180	230	280	330	380	430	480	530	630	730
SGW27	160	220	280	340	400	460	520	640	760	880	1,000
SGW35	280	360	440	520	600	680	760	920	1,080	1,240	1,400

								maximum length mm
670	750	830	950	1,070	1,190	1,310		2,000
830	930	1,030	1,180	1,330	1,480			2,000
1,180	1,360	1,540	1.720	1,900				3,000
1,640	1,880	2,120						3,000

Rails exceeding the maximum specified length may be fabricated if joints are used. Contact NB for assistance.

www.bergab.ru Берг АБ bergab@ya.ru Тел. (495)-228-06-21, факс (495) 223-3071