



NEW PRODUCT

SLIDE GUIDE

SGL type

Higher Load Capacity, Misalignment Absorbability, and High Accuracy

SGL Type Slide Guide series has 2 New Types added.

New Type: SGL-HTF and SGL-HTE



Certificate No.958188



NIPPON BEARING CO., LTD.



Higher Load Capacity, Misalignment Absorbability and High Accuracy **NB Slide Guide SGL Type**

New Line

SGL-HTF Type Blocks

SGL-HTE Type Blocks

Two new Type Blocks of HTF and HTE, which has longer block dimensions and more versatile mounting features are added to our conventional SGL Slide Guide series of Blocks SGL-F, TF, E, and TE. Though its compact configuration, Part number from 15 through 35, those five sizes of Blocks have high load capacity and so suits for more variable installation environment. Those have 4 precision ground raceway grooves internally and promise highly accurate linear motion controls.

STRUCTURE AND ADVANTAGES

SGL slide guides consist of a rail with four precision-machined raceway grooves and a block assembly. The block assembly consists of the main body, ball elements, retainers, and return caps.

High Load Capacity and Long Life:

The use of larger ball elements and a raceway with grooves machined to a radius close to that of the ball elements increases the area of the contact surface. The results are load capacity and provides longer life.

Low Wear:

Because a 4-row/2-point contact design is used, low wear and stable motion characteristics are achieved even under a pre-loaded conditions.

Omni-Directional Load Capacity:

The ball elements are positioned at 45° contact angle so that the load capacity is equal in four directions (above, underneath, right and left).

Figure 1 Structure of SGL type Slide Guide

Absorption of Mounting Dimensional Error:

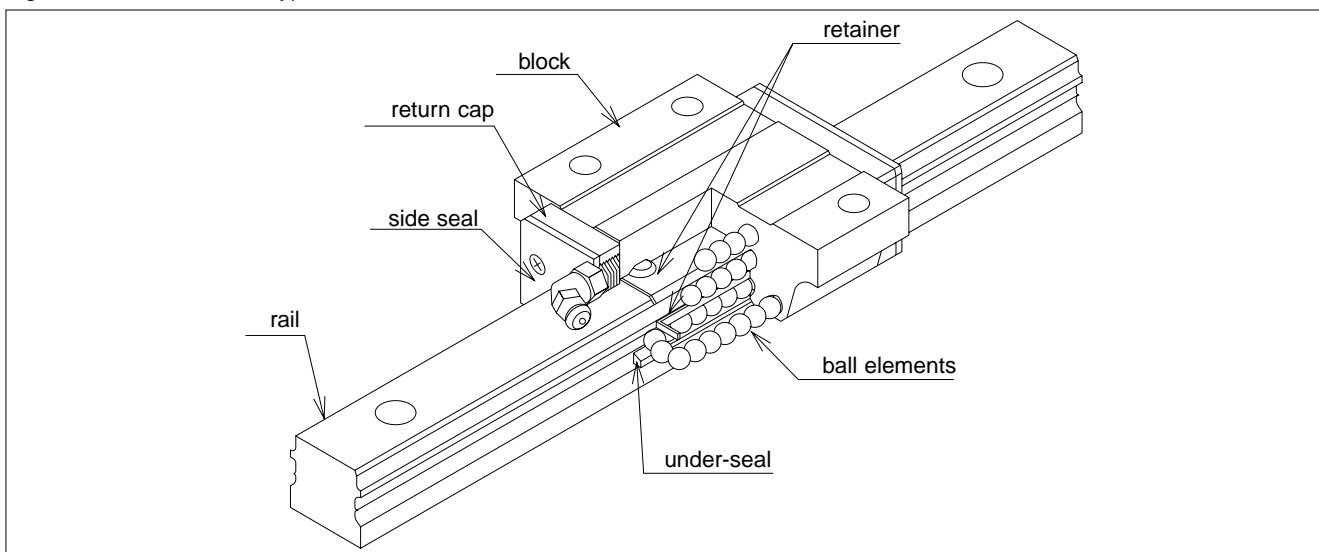
Because the ball elements are positioned to increase their self-centering characteristics, the dimensional error caused during installation is absorbed.

Anti-Corrosion Specification:

The rail and block assembly may be Raydent treated to increase the corrosion resistance. This treatment is standardized with the symbol "RD", and suitable for use in clean room applications.

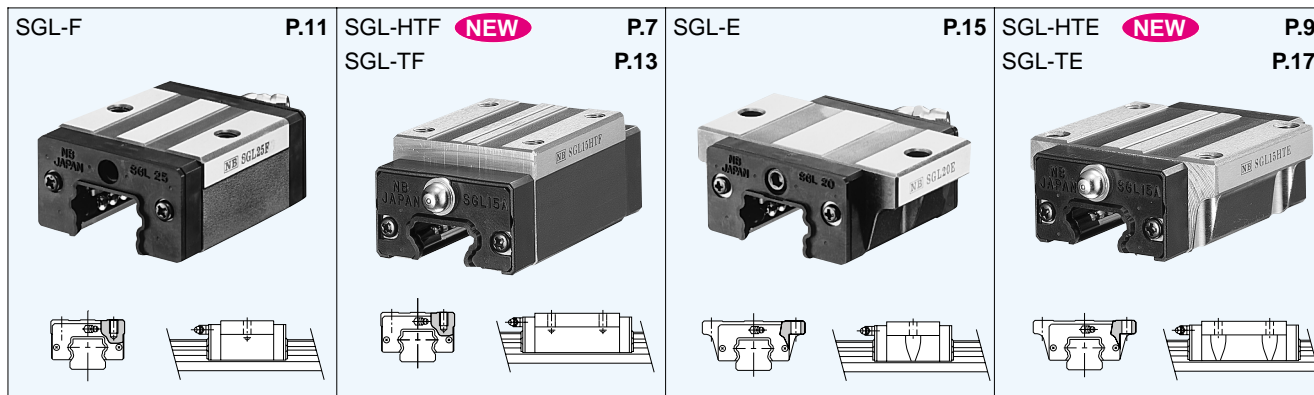
Dust Prevention:

Side seals are provided as a standard. To improve the dust prevention characteristics, underseals and special rail mounting caps are also available.



BLOCK TYPES

Six different types of blocks are available depending on the mounting space requirements and desired mounting method.



ACCURACY

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

Table 1 Accuracy

unit/mm

part number	SGL15,20			SGL25,30,35		
	normal	high	precision	normal	high	precision
accuracy grade	normal	high	precision	normal	high	precision
accuracy symbol	none	H	P	none	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 2					

Figure 2 Motion Accuracy

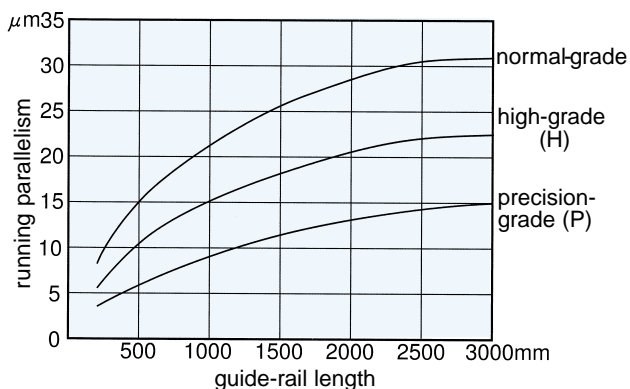
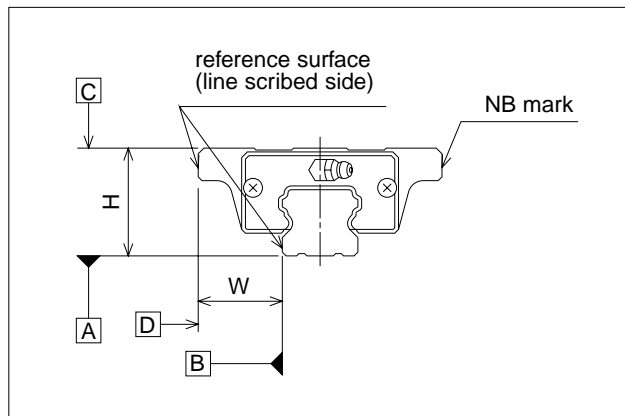


Figure 3 Accuracy





PRE-LOAD

SGL slide guides are available with a standard pre-load(no suffix), light pre-load(T1), and a medium pre-load(T2).

Table 2 Pre-Load Symbol and Radial Clearance unit/ μm

pre-load category	standard	light	medium
pre-load symbol	blank	T1	T2
SGL15	-4~+2	-12~-4	-
SGL20	-5~+2	-14~-5	-23~-14
SGL25	-6~+3	-16~-6	-26~-16
SGL30	-7~+4	-19~-7	-31~-19
SGL35	-8~+4	-22~-8	-35~-22

Table 3 Operating Condition and 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. A slight torque is applied. When moment is applied.
medium	T2	Shock/vibration is applied. Over-hang load is applied. Torsional load is applied.

RAIL LENGTH

Slide guides with most commonly used lengths are available as standard. Unless otherwise specified, the distance to the first mounting hole (N) from one end of the rail will be located within the range listed in Table 4 for slide guides that have a non-standard length satisfying the following equation.

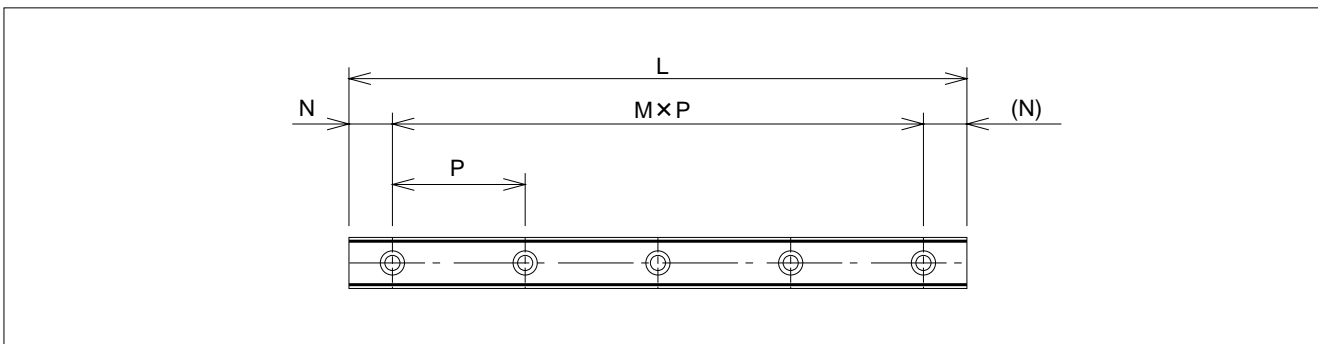
$$L = M \cdot P + 2N$$

L : length (mm) N : distance to the first hole from the end of the rail (mm)
M : number of pitches P : hole pitch (mm)

Table 4 Fabrication Range unit/mm

part number	N		Lmax
	and over	less than	
SGL15	6	36	3,000
SGL20	10	40	
SGL25	11	41	
SGL30	12	52	
SGL35	16	56	

Figure 4 Rail



MOUNTING

Slide guides are generally mounted by pushing the reference surface of the rail and block against the shoulder of the mounting surface. An escape groove should be provided at the corner of the shoulder in order to avoid interference with the corner of the rail or block.

The bolts used to secure the rail should be tightened using a torque wrench. The recommended torque values are listed in Table 5.

Table 5 Recommended Torque

applicable slide guide		bolt size	recommended torque (N-m)
SGL-HTF,HTE	SGL-F,E,TF,TE		
-	15	M3	2.0
15	15D	M4	3.9
20	20	M5	8.8
25	25,30	M6	12.7
30,35	35	M8	29.4

Figure 5 Mounting Reference Surface Shapes

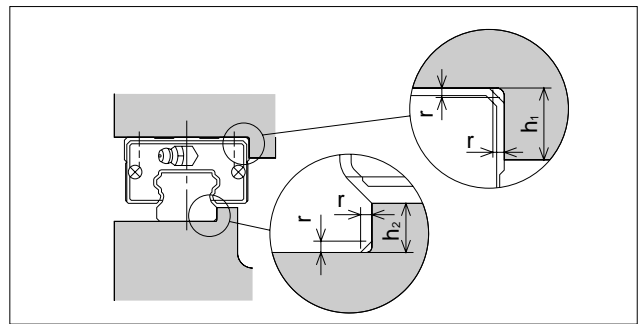


Table 6 Mounting Surface Dimensions

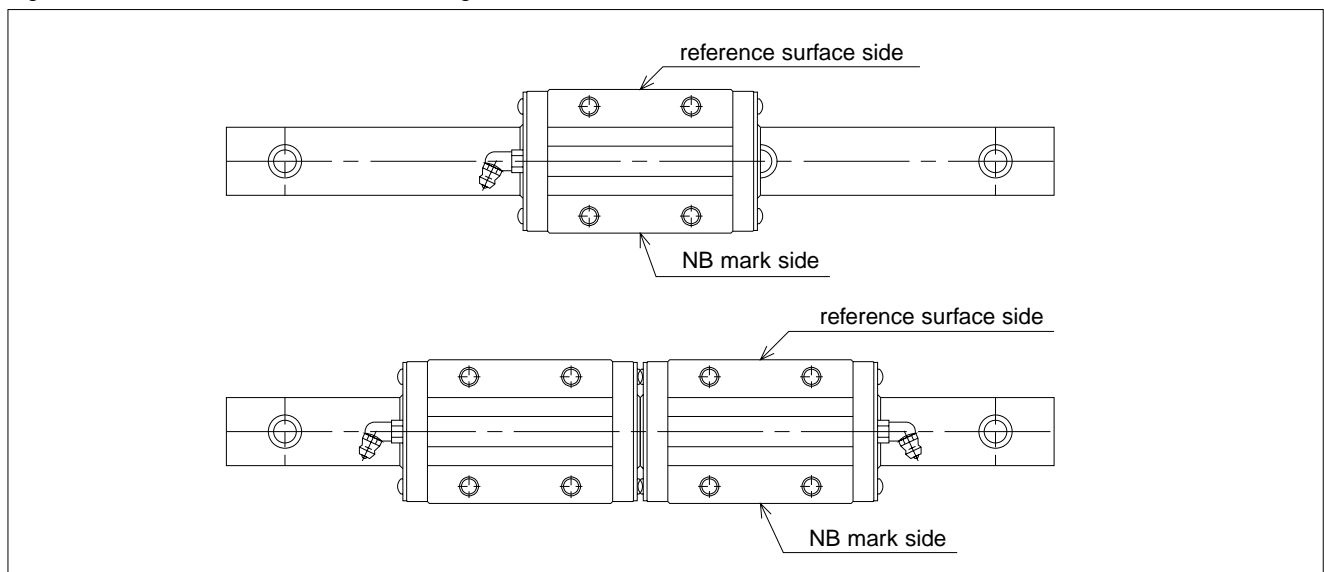
unit/mm

part number	h ₁	h ₂	r _{max}
SGL15	4	3.5	0.5
SGL20	5	5	0.5
SGL25	5	5.5	1
SGL30	6	7.5	1
SGL35	6	8	1

GREASE FITTING

A grease fitting is attached to the SGL slide guide in the return cap for lubrication purposes. Unless otherwise specified, the orientation of the grease fitting is as shown in Figure 6. When more than 3 blocks are used on one rail, the grease fitting orientation must be specified.

Figure 6 Number of Blocks and Grease Fitting Orientation





DUST PREVENTION

Seal:

NB SGL slide guides are available, with side-seals, and with side-seals plus under-seals. A sealing arrangement can be selected that matches the operating conditions and environment.

Slide guides with side-seals are used in typical environments to prevent dust from entering the guide block from above. Slide guides with side and under seals are used in more harsh environments or to prevent dust entering from below.

Special Cap:

For SGL guides, special rail mounting caps are available to prevent dust from entering the installation mounting holes. These caps are installed after the rail is installed by using a jig and slowly inserting them into the holes until their top surface is flush with the rail surface.

Figure 7 Side-Seals and Under-Seals

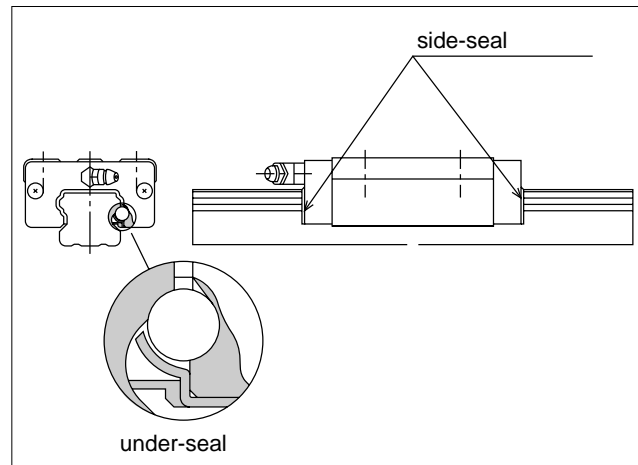


Figure 8 Special Cap Installation

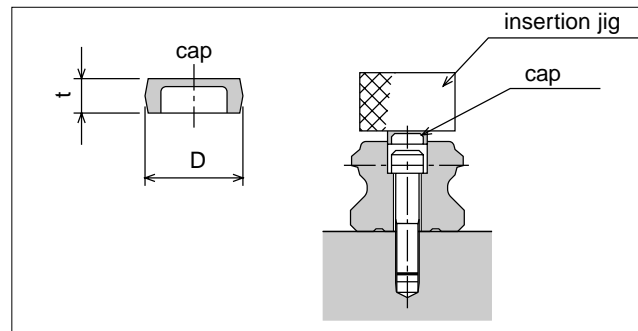


Table 7 Special Caps

part number	dimensions		applicable slide guide	
	D mm	t mm	SGL-HTF,HTE	SGL-F,E,TF,TE
F3	6.1	1.3	—	15
F4	7.5	1.1	15	15D
F5	9.7	2.5	20	20
F6	11.2	2.7	25	25,30
F8	14.3	3.65	30,35	35

LUBRICATION

Lithium soap grease is applied to NB SGL slide guides before they are shipped so that they are ready for immediate use. The same type of grease should be added periodically depending on the operating conditions.

For use in clean rooms or vacuum environments, slide guides without grease are available. Slide guides lubricated with customer specified grease for special applications are also available.

CORROSION RESISTANCE

Raydent surface treatment can be specified for the SGL guide series. This treatment is suitable for applications where corrosion resistance is required or periodic lubrication is difficult.

PRECAUTION FOR USE

NB Slide Guide SGL Type is precision device, to maintain its accurate travel motion, careful handling is advised.

Since resin part is used on Guide Block, its use under high temperature environment is not recommended, acceptable ambient temperature to operate it is lower than 80°C.

K GREASE

K grease is a low dust generation lubricant for linear systems that provides long-term and stable dust control.

This particular type has very few impurities, yet its lubricating effect, contamination control, and rust prevention characteristics are equivalent to that of lithium soap grease.

General characteristics

Appearance : Yellow white

Thickening agent : Ureic

Base Oil : Composition Oil

Consistency : 280(No.2)

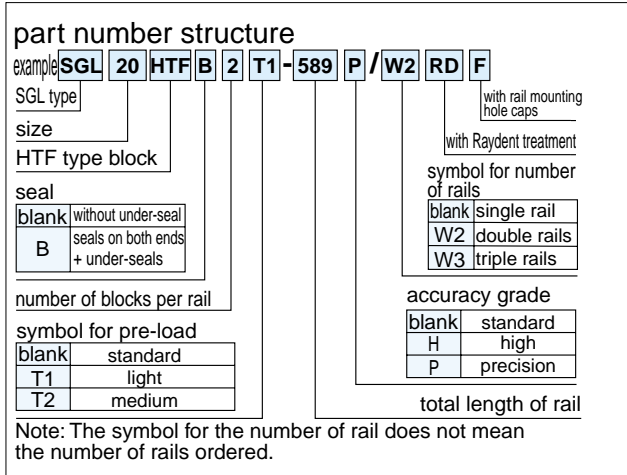
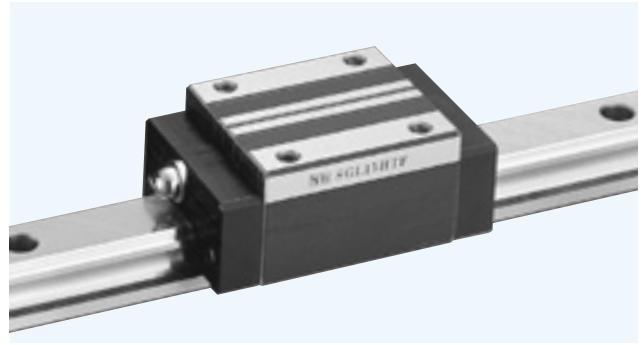
Operating : -30° ~ +150°C

Temperature range



NEW

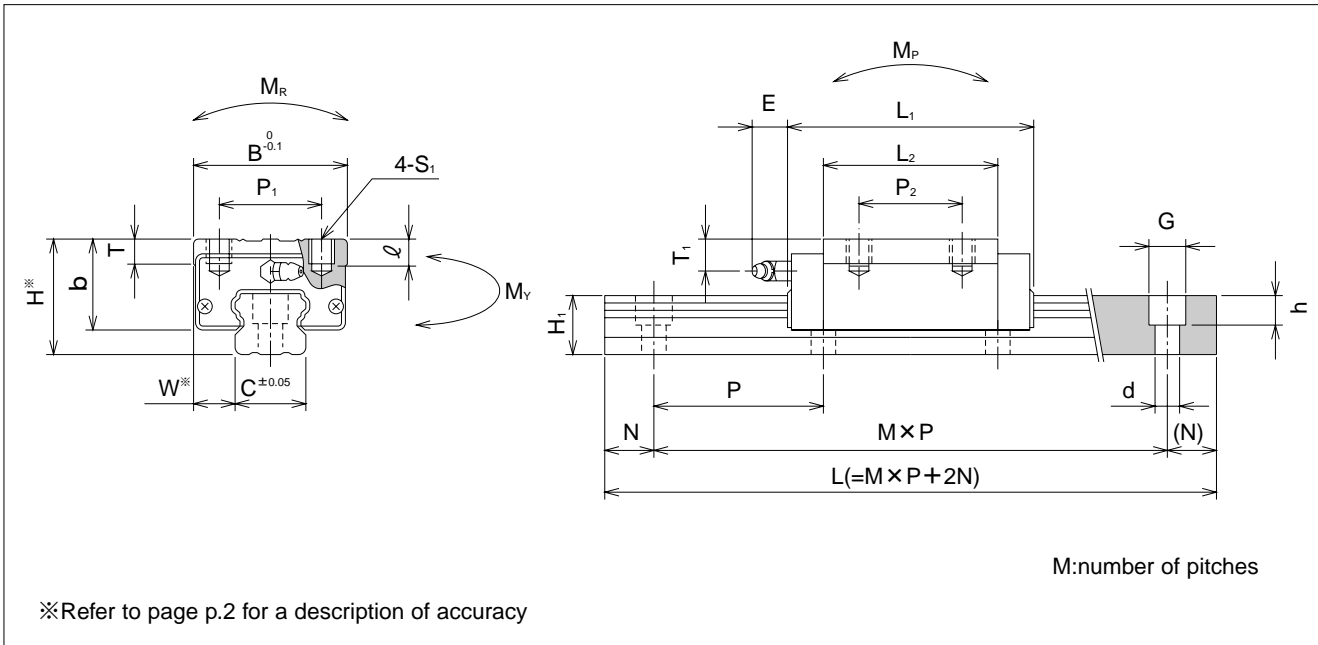
SGL-HTF TYPE



part number	assembly dimensions		block dimensions											grease fitting
	H	W	B	L ₁	L ₂	P ₁	P ₂	S ₁	ℓ	T	b	E	T ₁	
	mm	mm	mm	mm	mm	mm	mm		mm	mm	mm	mm	mm	
SGL15HTF	28	9.5	34	56.5	38.5	26	26	M4	5	6	23.7	6	9	pressed fitting
SGL20HTF	30	12	44	71.6	53.2	32	36	M5	6	9.5	24	14	8	B-M6F
SGL25HTF	40	12.5	48	80	59	35	35	M6	8	9	33		13.5	
SGL30HTF	45	16	60	95.7	67.7	40	40	M8	10		35.5		12	
SGL35HTF	55	18	70	109	78	50	50		12	13	45		15.5	

part number	standard rail length														
	L mm														
SGL15	160	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000
SGL20	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000	1,120
SGL25	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000	1,120
SGL30	280	360	440	520	600	680	760	840	920	1,000	1,080	1,160	1,240	1,320	1,400
SGL35	280	360	440	520	600	680	760	840	920	1,000	1,080	1,160	1,240	1,320	1,400

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



guide-rail dimensions					basic load rating		allowable static moment			mass		size
H ₁	C	d × G × h	N	P	dynamic C	static C ₀	M _P	M _Y	M _R	block kg	guide rail kg/m	
mm	mm	mm	mm	mm	kN	kN	N · m	N · m	N · m			
13.5	15	4.5 × 7.5 × 5.3	20	60	8.6	14.2	69	69	98	0.2	1.3	15
16	20	6 × 9.5 × 8.5			12.7	21.6	157	157	235	0.4	2.1	20
20	23	7 × 11 × 9			20.1	34.3	274	274	392	0.6	3.0	25
24	28	9 × 14 × 12		80	23.5	39.7	314	314	549	0.9	4.6	3.0
27.5	34				37.7	61.3	637	637	1,080	1.5	6.2	35

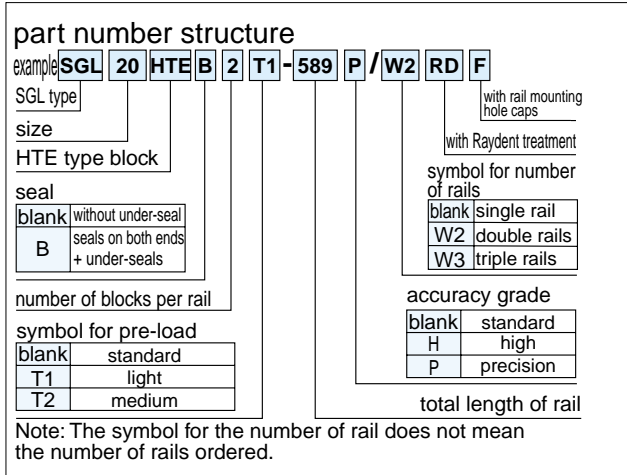
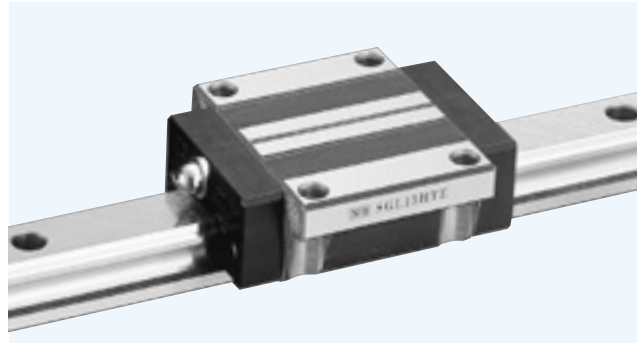
1kN ≅ 102kgf 1N·m ≅ 0.102kgf·m

							maximum length mm
1,120	1,240	1,360	1,480				2,000
1,240	1,360	1,480	1,600	1,720	1,840	1,960	3,000
1,240	1,360	1,480	1,600	1,720	1,840	1,960	3,000
1,480	1,640	1,720	1,840	1,960			3,000
1,480	1,640	1,720	1,840	1,960			3,000



NEW

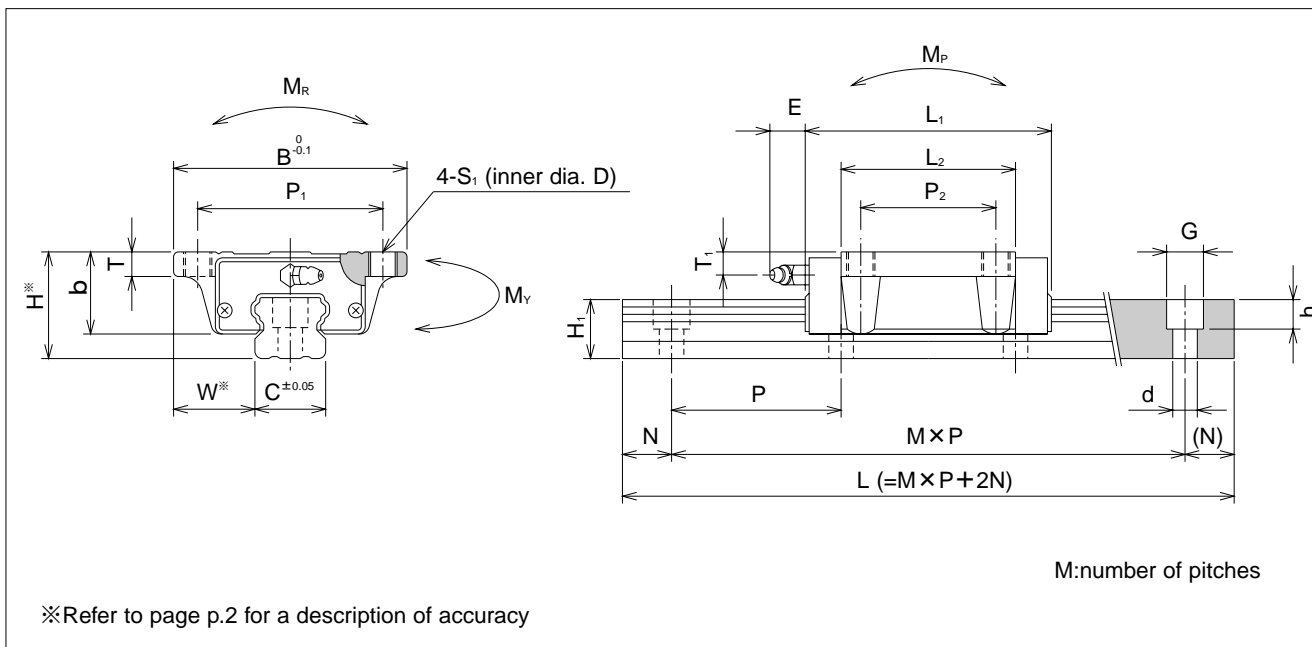
SGL-HTE TYPE



part number	assembly dimensions		block dimensions											
	H	W	B	L ₁	L ₂	P ₁	P ₂	S ₁	D	T	b	E	T ₁	grease fitting
	mm	mm	mm	mm	mm	mm	mm		mm	mm	mm	mm	mm	
SGL15HTE	24	16	47	56.5	38.5	38	30	M5	4.4	7	19.7	6	5	pressed fitting
SGL20HTE	30	21.5	63	71.6	53.2	53	40	M6	5.4	10.5	24	14	8	B-M6F
SGL25HTE	36	23.5	70	80	59	57	45	M8	6.8	12.5	29		9.5	
SGL30HTE	42	31	90	95.7	67.7	72	52	M10	8.5	10	32.5		9	
SGL35HTE	48	33	100	109	78	82	62			13	38		8.5	

part number	standard rail length														
	L mm														
SGL15	160	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000
SGL20	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000	1,120
SGL25	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000	1,120
SGL30	280	360	440	520	600	680	760	840	920	1,000	1,080	1,160	1,240	1,320	1,400
SGL35	280	360	440	520	600	680	760	840	920	1,000	1,080	1,160	1,240	1,320	1,400

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



guide-rail dimensions					basic load rating		allowable static moment			mass		size
H ₁	C	d × G × h	N	P	dynamic C	static C ₀	M _P	M _V	M _R	block	guide rail	
mm	mm	mm	mm	mm	kN	kN	N · m	N · m	N · m	kg	kg/m	
13.5	15	4.5 × 7.5 × 5.3	20	60	8.6	14.2	69	69	98	0.2	1.3	15
16	20	6 × 9.5 × 8.5			12.7	21.6	157	157	235	0.4	2.1	20
20	23	7 × 11 × 9			20.1	34.3	274	274	392	0.6	3.0	25
24	28	9 × 14 × 12		80	23.5	39.7	314	314	549	1.0	4.6	30
27.5	34				37.7	61.3	637	637	1,080	1.5	6.2	35

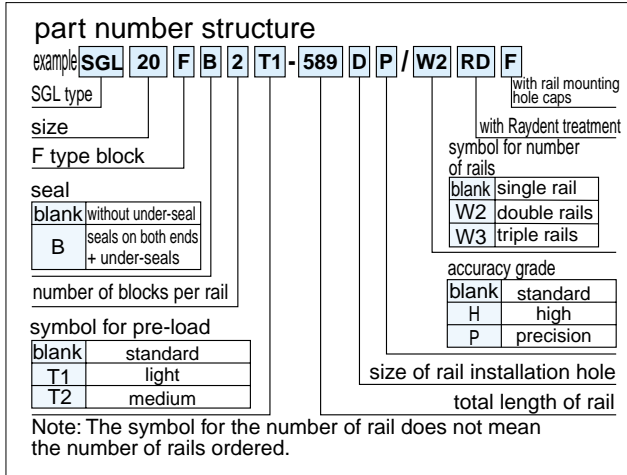
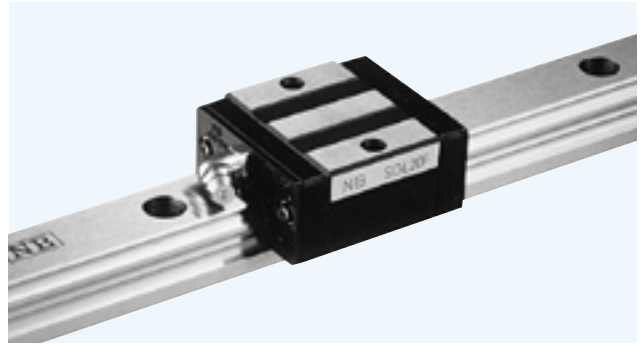
1kN ≅ 102kgf 1N·m ≅ 0.102kgf·m

							maximum length mm
1,120	1,240	1,360	1,480				2,000
1,240	1,360	1,480	1,600	1,720	1,840	1,960	3,000
1,240	1,360	1,480	1,600	1,720	1,840	1,960	3,000
1,480	1,640	1,720	1,840	1,960			3,000
1,480	1,640	1,720	1,840	1,960			3,000



SGL-F TYPE

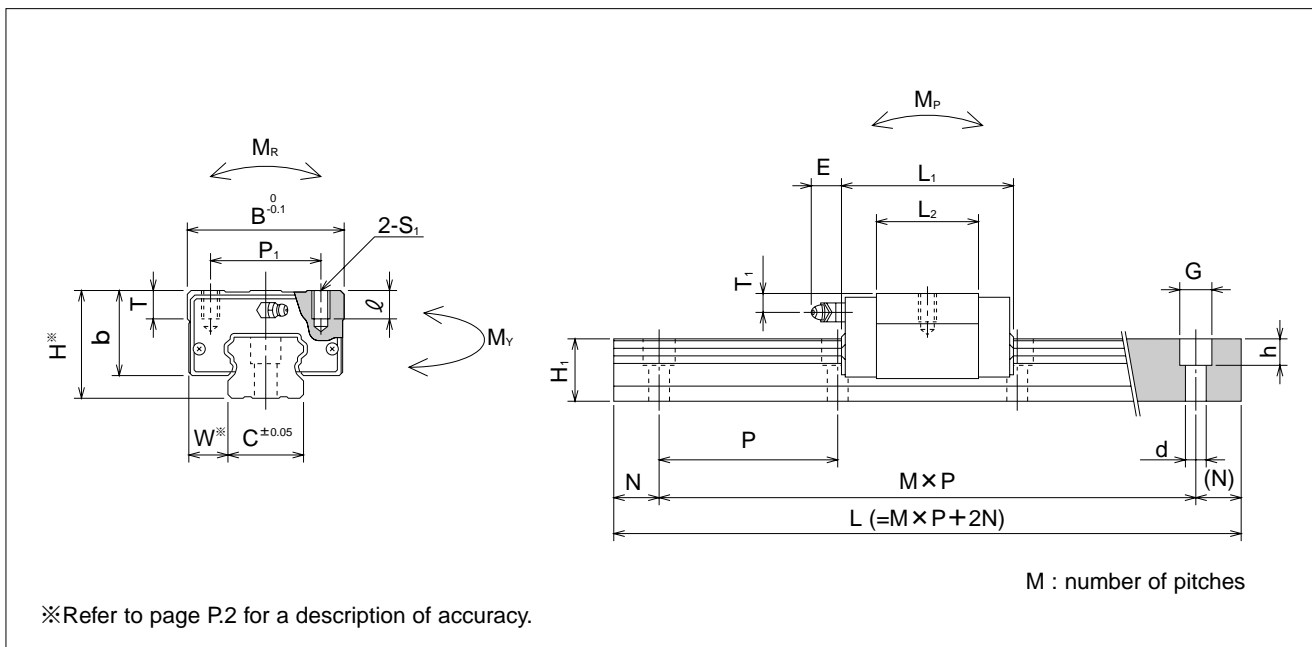
— High Rigidity Non-Flange Type — (Short Configuration)



part number	assembly dimensions		block dimensions										grease fitting
	H	W	B	L ₁	L ₂	P ₁	S ₁	ℓ	T	b	E	T ₁	
	mm	mm	mm	mm	mm	mm		mm	mm	mm	mm	mm	
SGL15F SGL15F-D	24	9.5	34	40.7	22.7	26	M4	7	6	19.5	6	5	pressed fitting
SGL20F	28	11	42	47.9	29.5	32	M5	8	7.5	22	14	6	B-M6F
SGL25F	33	12.5	48	58.9	37.7	35	M6	9	8	26		6.5	
SGL30F	42	16	60	68	40	40	M8	12	9	32.5		9	
SGL35F	48	18	70	77	46	50			13	38	8.5		

part number	standard rail length														
	L mm														
SGL15	160	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000
SGL20	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000	1,120
SGL25	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000	1,120
SGL30	280	360	440	520	600	680	760	840	920	1,000	1,080	1,160	1,240	1,320	1,400
SGL35	280	360	440	520	600	680	760	840	920	1,000	1,080	1,160	1,240	1,320	1,400

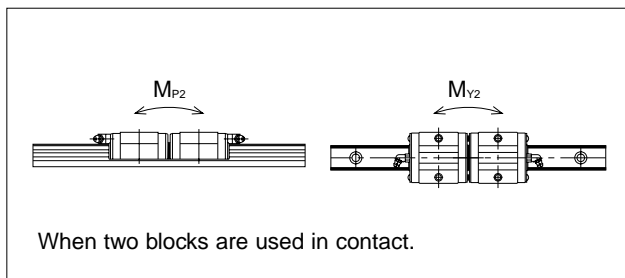
Rails exceeding the maximum specified length may be fabricated if joints are used. Contact NB for assistance.



guide-rail dimensions					basic load rating		allowable static moment			mass		size
H _i	C	d × G × h	N	P	dynamic C	static C ₀	M _P M _{P2}	M _Y M _{Y2}	M _R	block kg	guide rail kg/m	
mm	mm	mm	mm	mm	kN	kN	N · m	N · m	N · m	kg	kg/m	
13.5	15	3.5 × 6 × 4.5	20	60	5.00	8.23	33	33	57	0.1	1.3	15
		4.5 × 7.5 × 5.3					196	196				
16	20	6 × 9.5 × 8.5			7.35	12.3	59	59	137	0.2	2.1	20
					353	353						
20	23	7 × 11 × 9		80	11.7	19.6	109	109	225	0.3	3.0	25
					652	652						
24	28			13.7	22.5	123	123	319	0.5	4.6	30	
				735	735							
27.5	34	9 × 14 × 12		21.6	35.7	248	248	627	0.8	6.2	35	
							1,490	1,490				

1kN ≅ 102kgf 1N·m ≅ 0.102kgf·m

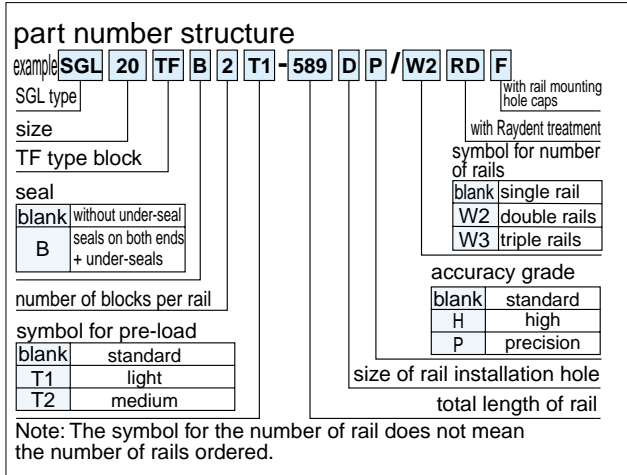
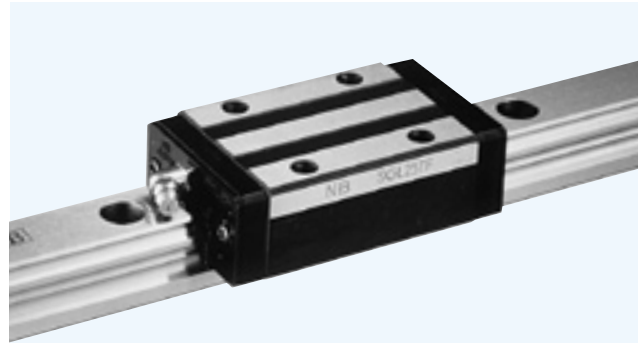
				maximum length mm
1,120	1,240	1,360	1,480	2,000
1,240	1,360	1,480	1,600 1,720 1,840 1,960	3,000
1,240	1,360	1,480	1,600 1,720 1,840 1,960	3,000
1,480	1,640	1,800	1,960	3,000
1,480	1,640	1,800	1,960	3,000





SGL-TF TYPE

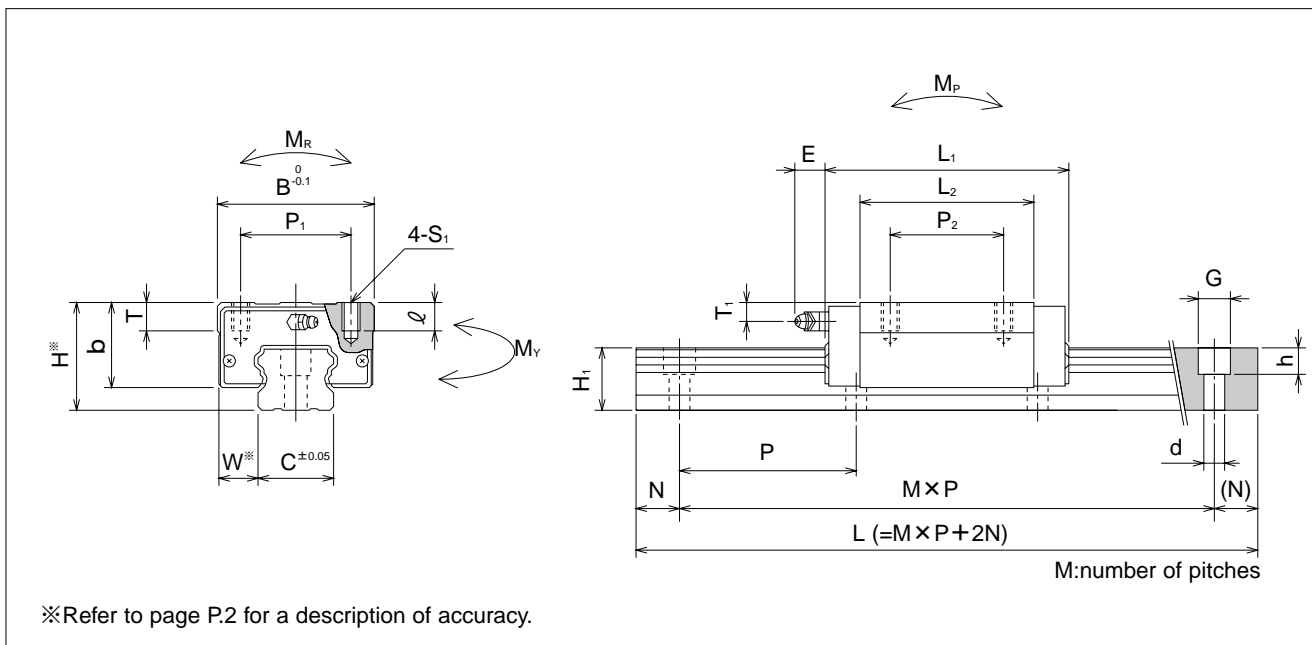
– High Rigidity Non-Flange Type –



part number	assembly dimensions		block dimensions											
	H	W	B	L ₁	L ₂	P ₁	P ₂	S ₁	ℓ	T	b	E	T ₁	grease fitting
	mm	mm	mm	mm	mm	mm	mm		mm	mm	mm	mm	mm	
SGL15TF SGL15TF-D	24	9.5	34	56.5	38.5	26	26	M4	7	6	19.5	6	5	pressed fitting
SGL20TF	28	11	42	65.8	47.4	32	32	M5	8	7.5	22	14	6	B-M6F
SGL25TF	33	12.5	48	80.2	59	35	35	M6	9	8	26		6.5	
SGL30TF	42	16	60	95.7	67.7	40	40	M8	12	9	32.5		9	
SGL35TF	48	18	70	109	78	50	50			13	38		8.5	

part number	standard rail length														
	L mm														
SGL15	160	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000
SGL20	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000	1,120
SGL25	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000	1,120
SGL30	280	360	440	520	600	680	760	840	920	1,000	1,080	1,160	1,240	1,320	1,400
SGL35	280	360	440	520	600	680	760	840	920	1,000	1,080	1,160	1,240	1,320	1,400

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



guide-rail dimensions					basic load rating		allowable static moment			mass		size	
H_1	C	$d \times G \times h$	N	P	dynamic C	static C_0	M_P	M_Y	M_R	block kg	guide rail kg/m		
mm	mm	mm	mm	mm	kN	kN	$N \cdot m$	$N \cdot m$	$N \cdot m$	kg	kg/m		
13.5	15	3.5×6×4.5	20	60	8.6	14.2	69	69	98	0.2	1.3	15	
		4.5×7.5×5.3											
16	20	6×9.5×8.5				12.7	21.6	157	157	235	0.3	2.1	20
20	23	7×11×9				20.1	34.3	274	274	392	0.4	3.0	25
24	28					23.5	39.7	314	314	549	0.8	4.6	30
27.5	34	9×14×12				80	37.7	61.3	637	637	1,080	1.3	6.2

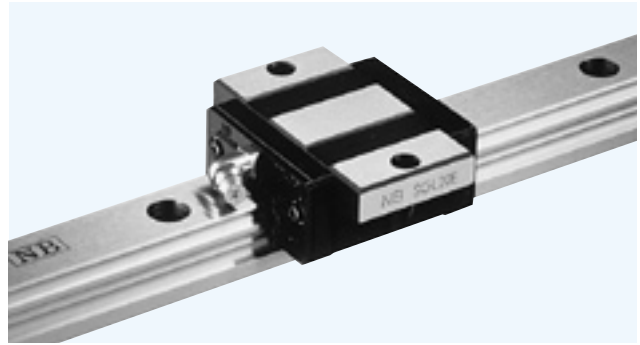
1kN ≅ 102kgf 1N·m ≅ 0.102kgf·m

								maximum length mm
1,120	1,240	1,360	1,480					2,000
1,240	1,360	1,480	1,600	1,720	1,840	1,960		3,000
1,240	1,360	1,480	1,600	1,720	1,840	1,960		3,000
1,480	1,640	1,800	1,960					3,000
1,480	1,640	1,800	1,960					3,000



SGL-E TYPE

— High Rigidity Flange Type — (Short Configuration)



part number structure

example **SGL 20 E B 2 T1 -589 D P / W2 RD F**

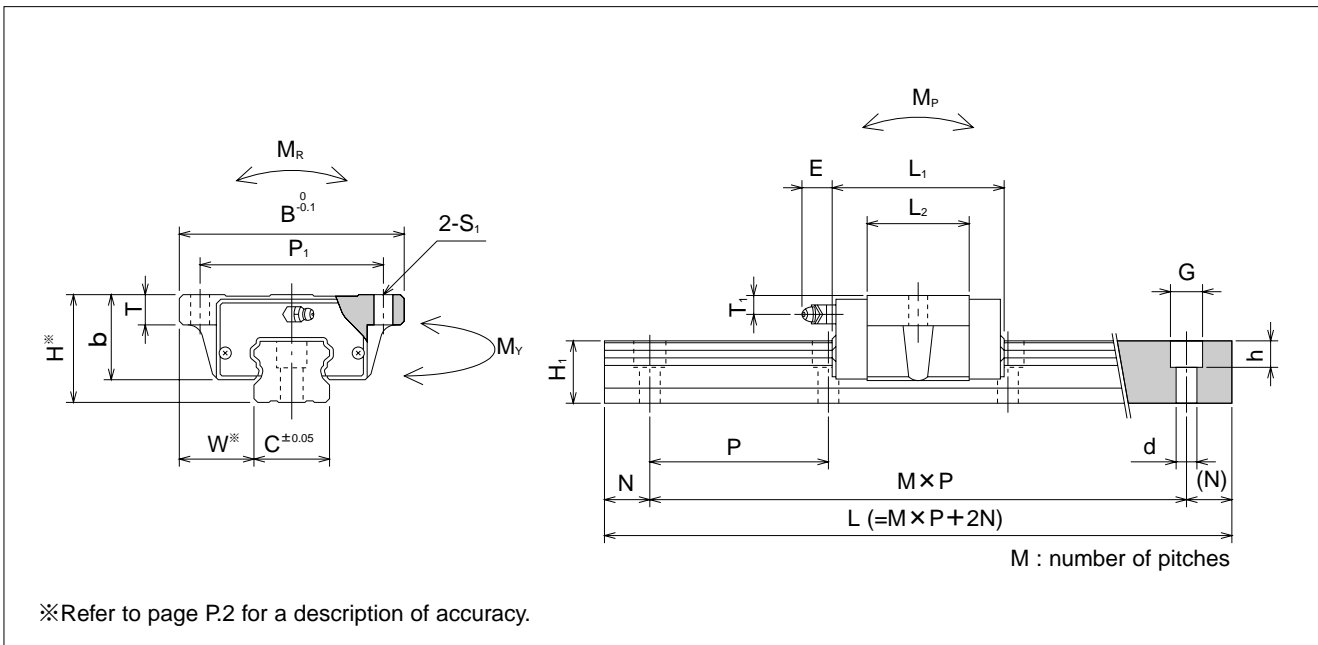
SGL type	size	E type block	seal	number of blocks per rail	symbol for pre-load	total length of rail	with rail mounting hole caps	with Raydent treatment	symbol for number of rails	accuracy grade	size of rail installation hole
blank	blank	blank	blank	blank	blank	blank	blank	blank	blank	blank	blank
			without under-seal		standard				single rail	standard	
			seals on both ends + under-seals		T1				W2	H	
					T2				W3	P	

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

part number	assembly dimensions		block dimensions									
	H	W	B	L ₁	L ₂	P ₁	S ₁	T	b	E	T ₁	grease fitting
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
SGL15E SGL15E-D	24	18.5	52	40.7	22.7	41	4.5	7	19.5	6	5	pressed fitting
SGL20E	28	19.5	59	47.9	29.5	49	5.5	9	22	14	6	B-M6F
SGL25E	33	25	73	58.9	37.7	60	7	10	26		6.5	
SGL30E	42	31	90	68	40	72	9	13	32.5		9	
SGL35E	48	33	100	77	46	82			8.5			

part number	standard rail length														
	L mm														
SGL15	160	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000
SGL20	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000	1,120
SGL25	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000	1,120
SGL30	280	360	440	520	600	680	760	840	920	1,000	1,080	1,160	1,240	1,320	1,400
SGL35	280	360	440	520	600	680	760	840	920	1,000	1,080	1,160	1,240	1,320	1,400

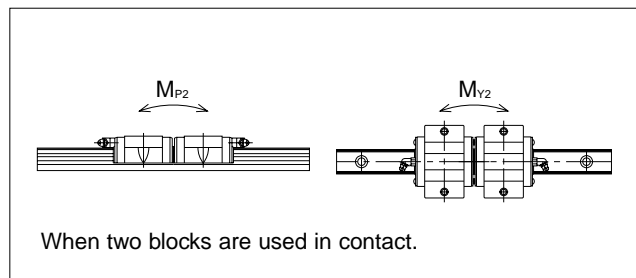
Rails exceeding the maximum specified length may be fabricated if joints are used. Contact NB for assistance.



guide-rail dimensions					basic load rating		allowable static moment			mass		size	
H_1	C	$d \times G \times h$		N	P	dynamic C	static C_0	M_P M_{P2}	M_Y M_{Y2}	M_R	block kg		guide rail kg/m
mm	mm	mm		mm	mm	kN	kN	$N \cdot m$	$N \cdot m$	$N \cdot m$			
13.5	15	3.5 × 6 × 4.5		20	60	5.00	8.23	33	33	57	0.1	1.3	15
		4.5 × 7.5 × 5.3				196	196						
16	20	6 × 9.5 × 8.5				7.35	12.3	59	59	137	0.2	2.1	20
						353	353						
20	23	7 × 11 × 9			11.7	19.6	109	109	225	0.4	3.0	25	
					652	652							
24	28			80	13.7	22.5	123	123	319	0.6	4.6	30	
					735	735							
27.5	34	9 × 14 × 12			21.6	35.7	248	248	627	0.9	6.2	35	
							1,490	1,490					

1kN ≅ 102kgf 1N·m ≅ 0.102kgf·m

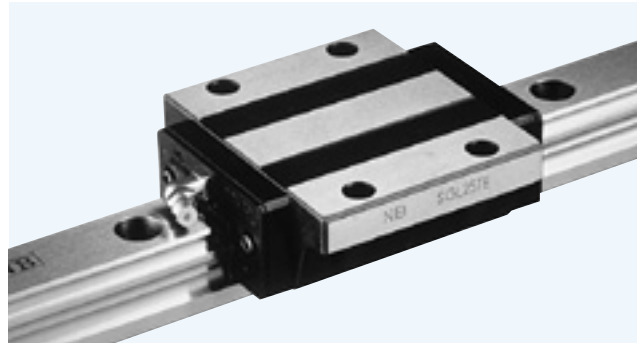
				maximum length mm
1,120	1,240	1,360	1,480	2,000
1,240	1,360	1,480	1,600 1,720 1,840 1,960	3,000
1,240	1,360	1,480	1,600 1,720 1,840 1,960	3,000
1,480	1,640	1,800	1,960	3,000
1,480	1,640	1,800	1,960	3,000





SGL-TE TYPE

– High Rigidity Flange Type –



part number structure

example **SGL 20 TE B 2 T1 -589 D P / W2 RD F**

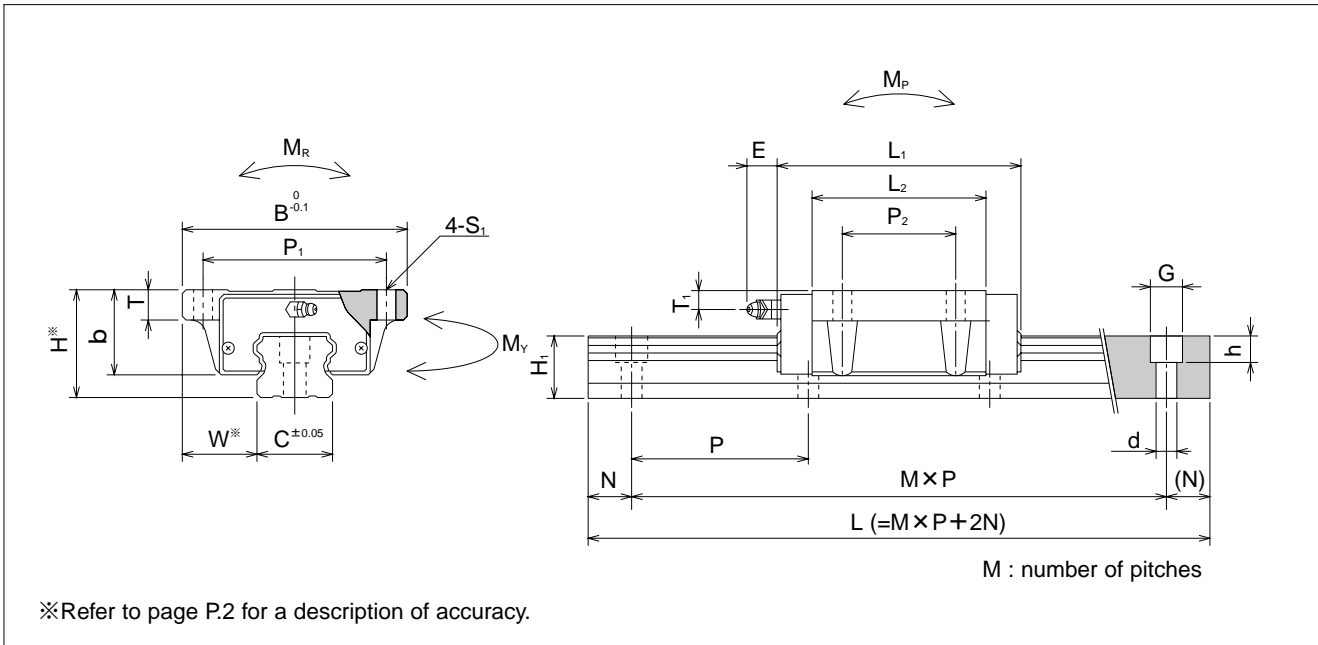
SGL type	size	TE type block	seal	number of blocks per rail	symbol for pre-load	symbol for number of rails	accuracy grade	size of rail installation hole	total length of rail
			blank without under-seal B seals on both ends + under-seals		blank standard T1 light T2 medium	blank single rail W2 double rails W3 triple rails	blank standard H high P precision		

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

part number	assembly dimensions		block dimensions										
	H	W	B	L ₁	L ₂	P ₁	P ₂	S ₁	T	b	E	T ₁	grease fitting
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
SGL15TE SGL15TE-D	24	18.5	52	56.5	38.5	41	26	4.5	7	19.5	6	5	pressed fitting
SGL20TE	28	19.5	59	65.8	47.4	49	32	5.5	9	22	14	6	B-M6F
SGL25TE	33	25	73	80.2	59	60	35	7	10	26		6.5	
SGL30TE	42	31	90	95.7	67.7	72	40	9	10	32.5		9	
SGL35TE	48	33	100	109	78	82	50		13	38		8.5	

part number	standard rail length														
	L mm														
SGL15	160	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000
SGL20	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000	1,120
SGL25	220	280	340	400	460	520	580	640	700	760	820	880	940	1,000	1,120
SGL30	280	360	440	520	600	680	760	840	920	1,000	1,080	1,160	1,240	1,320	1,400
SGL35	280	360	440	520	600	680	760	840	920	1,000	1,080	1,160	1,240	1,320	1,400

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



guide-rail dimensions					basic load rating		allowable static moment			mass		size
H_i	C	$d \times G \times h$	N	P	dynamic C	static C_0	M_P	M_Y	M_R	block	guide rail	
mm	mm	mm	mm	mm	kN	kg	N · m	N · m	N · m	kg	kg/m	
13.5	15	3.5 × 6 × 4.5	20	60	8.6	14.2	69	69	98	0.2	1.3	15
		4.5 × 7.5 × 5.3										
16	20	6 × 9.5 × 8.5			12.7	21.6	157	157	235	0.3	2.1	20
20	23	7 × 11 × 9			20.1	34.3	274	274	392	0.6	3.0	25
24	28				23.5	39.7	314	314	549	1.0	4.6	30
27.5	34	9 × 14 × 12	80	37.7	61.3	637	637	1,080	1.5	6.2	35	

1kN ≅ 102kgf 1N·m ≅ 0.102kgf·m

				maximum length
				mm
1,120	1,240	1,360	1,480	2,000
1,240	1,360	1,480	1,600 1,720 1,840 1,960	3,000
1,240	1,360	1,480	1,600 1,720 1,840 1,960	3,000
1,480	1,640	1,800	1,960	3,000
1,480	1,640	1,800	1,960	3,000



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