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NB

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.

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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).

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.

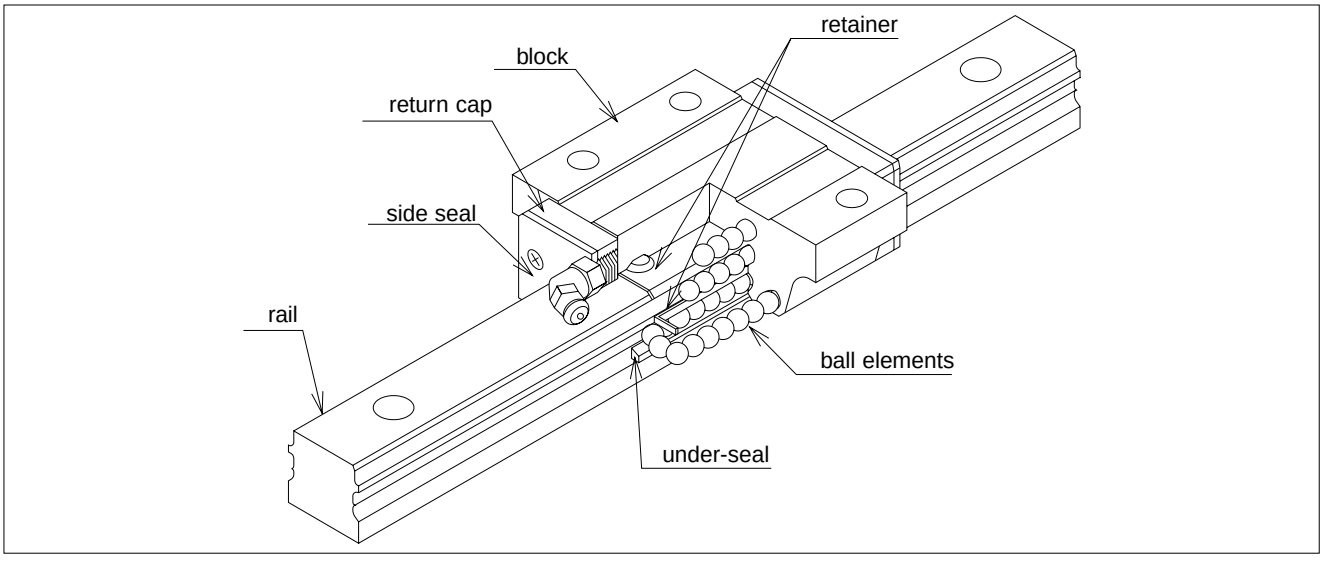
Anti-Corrosion Specification:

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.

Figure 1 Structure of SGL type Slide Guide



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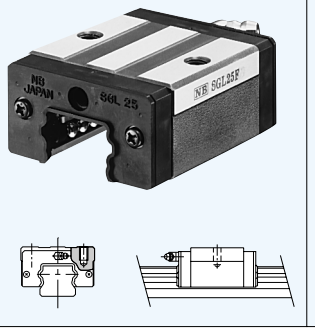
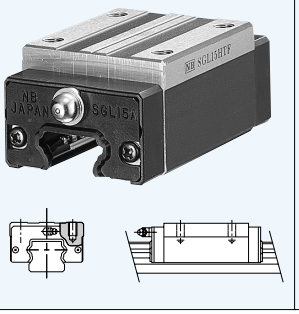
BLOCK TYPES

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

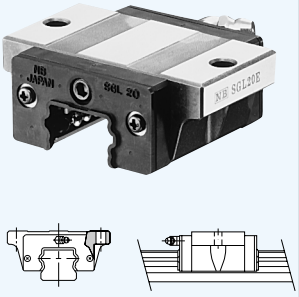
SGL-F **P.11**



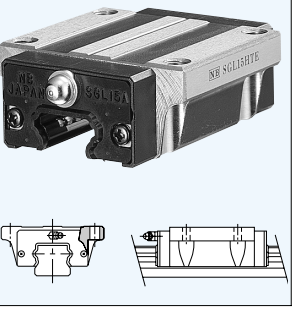
SGL-HTF NEW **P.7**
SGL-TF **P.13**



SGL-E **P.15**



SGL-HTE NEW **P.9**
SGL-TE **P.17**



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		
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

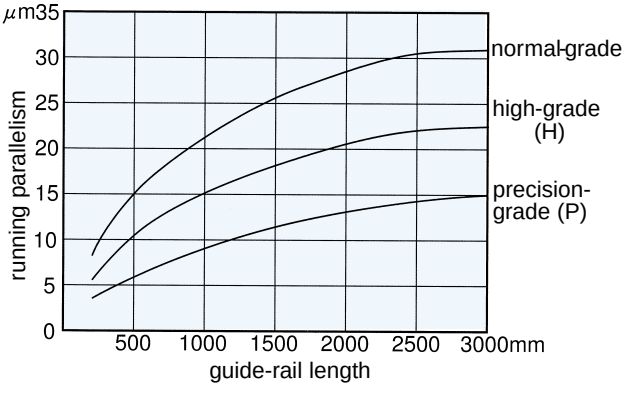
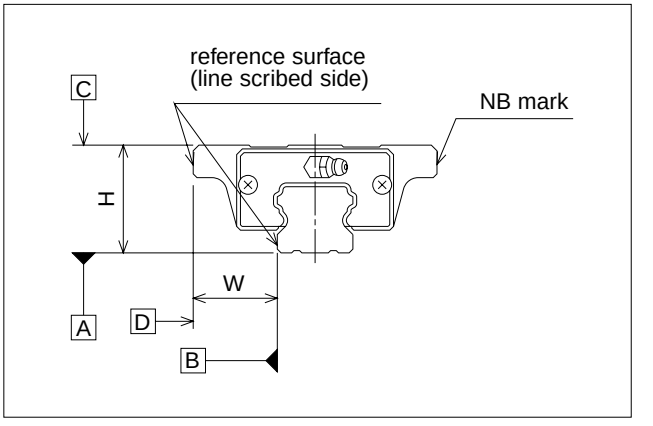


Figure 3 Accuracy



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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.

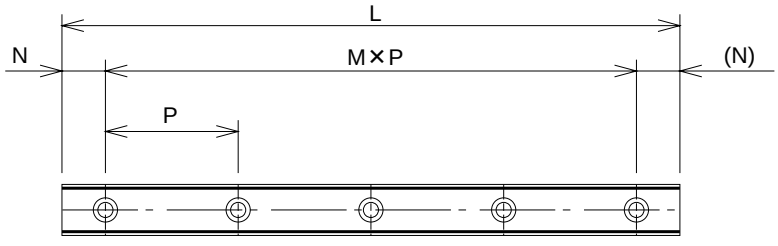
$$L = M \cdot P + 2N$$

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	2,000
SGL20	10	40	3,000
SGL25	11	41	
SGL30	12	52	
SGL35	16	56	

Figure 4 Rail



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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.

Figure 5 Mounting Reference Surface Shapes

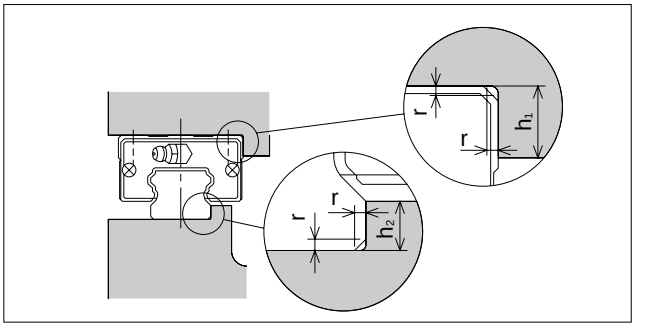


Table 5 Recommended Torque

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

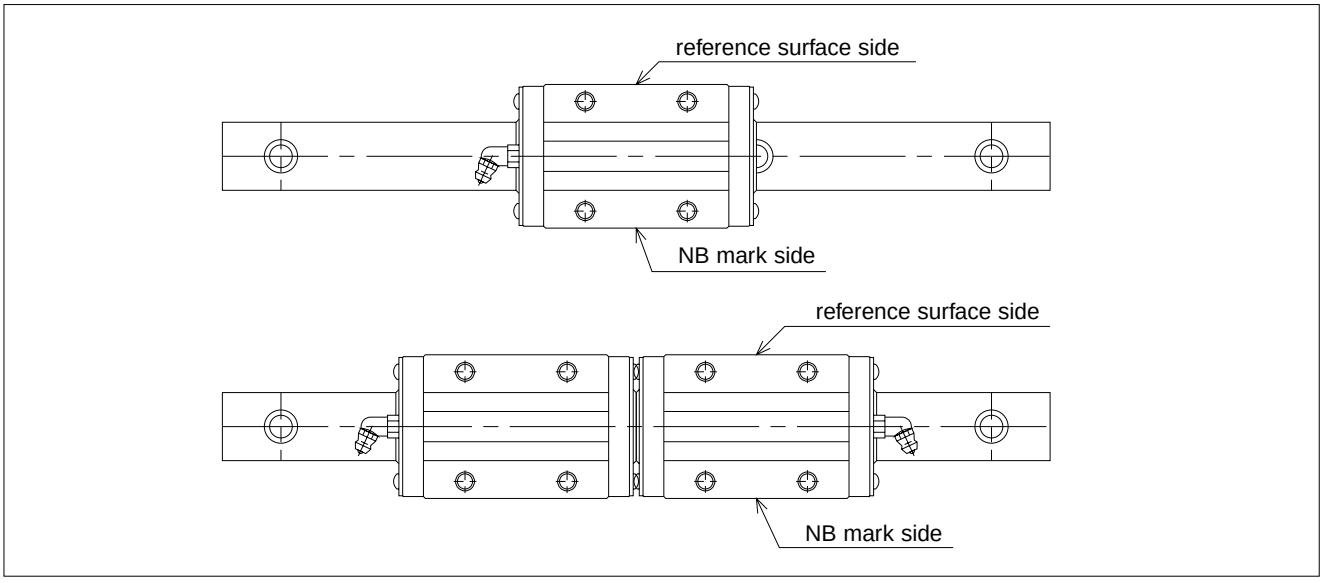
Table 6 Mounting Surface Dimensions unit/mm

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

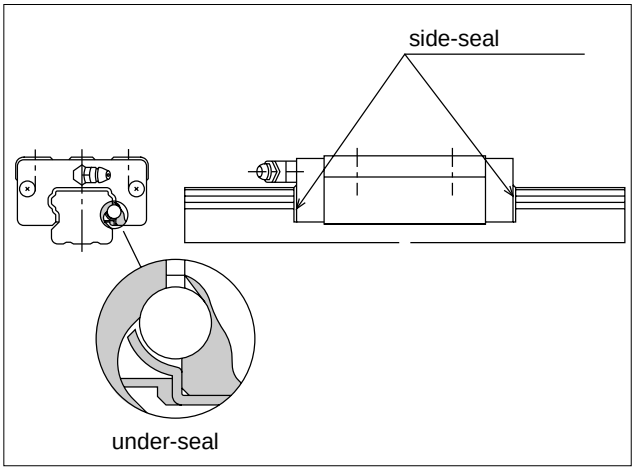


Figure 8 Special Cap Installation

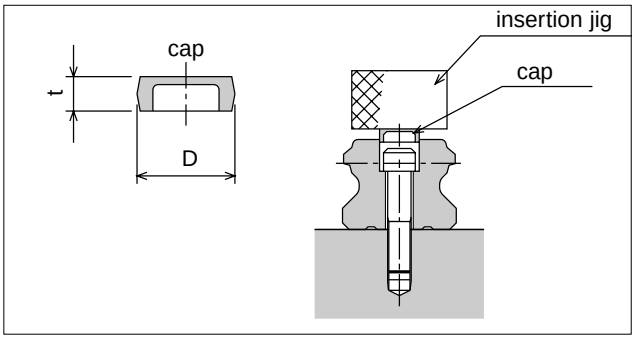


Table 7 Special Caps

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

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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 handing 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℃.

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 Temperature range	: -30° ～+150℃

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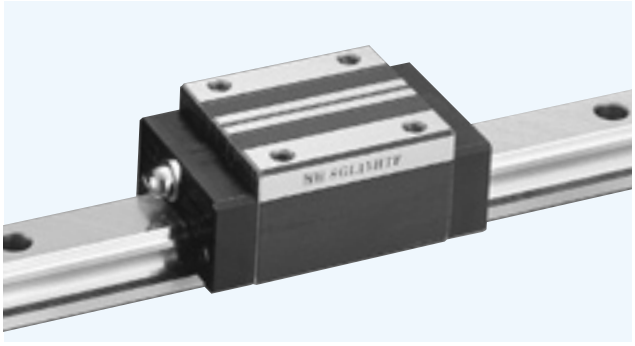
NEW

SGL-HTF TYPE



part number structure

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

- SGL type
- size
- HTF type block
- seal

blank	without under-seal
B	seals on both ends + 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 number of rails

blank	single rail
W2	double rails
W3	triple rails

- with Raydent treatment
- with rail mounting hole caps

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	ℓ	T	b	E	T_1	grease fitting
	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.

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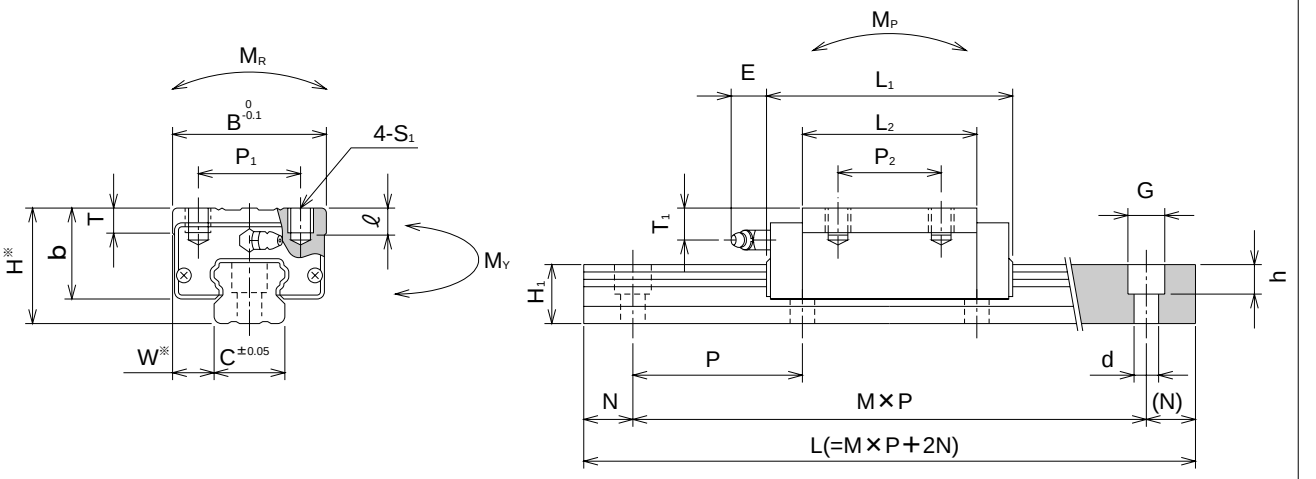

M:number of pitches

※Refer to page p.2 for a description of accuracy

guide-rail dimensions					basic load rating		allowable static moment			mass		size
H_1 mm	C 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	
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

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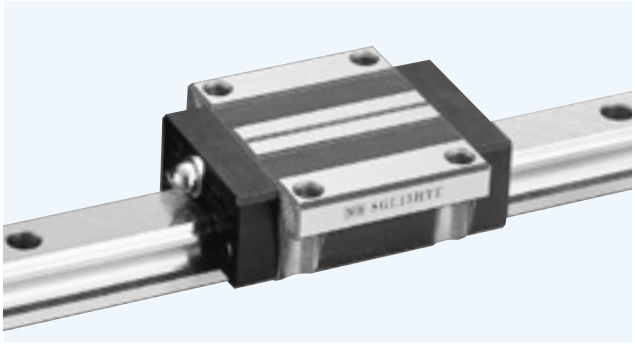
NEW

SGL-HTE TYPE



part number structure

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

- SGL type
- size
- HTE type block
- seal
  - blank: without under-seal
  - B: seals on both ends + 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 number of rails
  - blank: single rail
  - W2: double rails
  - W3: triple rails
- with Raydent treatment
- with rail mounting hole caps

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

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_1	D mm	T mm	b mm	E mm	T_1 mm	grease fitting
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.

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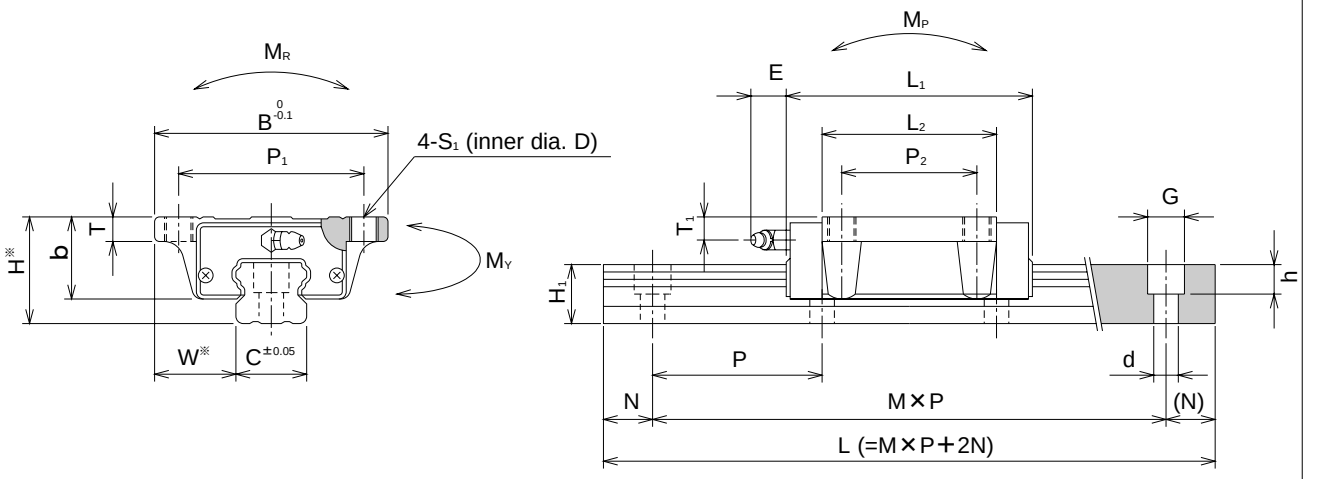

M:number of pitches

※Refer to page p.2 for a description of accuracy

guide-rail dimensions					basic load rating		allowable static moment			mass		size
H_1 mm	C 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	
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

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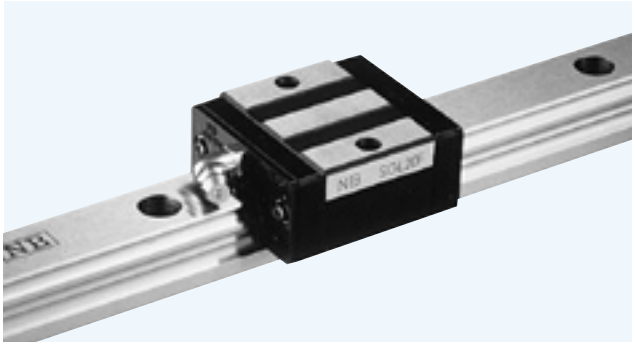
SGL-F TYPE

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



part number structure

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

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

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

part number	assembly dimensions		block dimensions										
	H mm	W mm	B mm	L_1 mm	L_2 mm	P_1 mm	S_1	ℓ mm	T mm	b mm	E mm	T_1 mm	grease fitting
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

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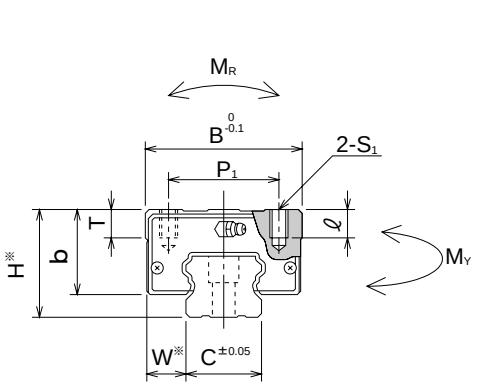
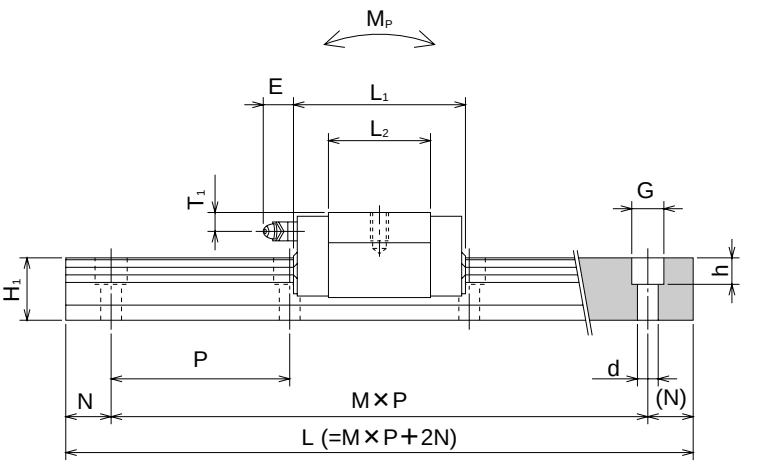




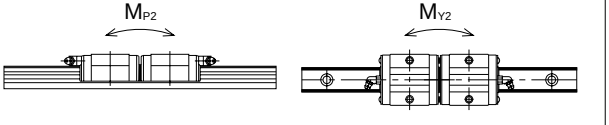
M : number of pitches

※Refer to page P.2 for a description of accuracy.

guide-rail dimensions					basic load rating		allowable static moment			mass		size
H_1 mm	C mm	d×G×h mm	N mm	P mm	dynamic C kN	static Co kN	M_P M_{P2} N・m	M_Y M_{Y2} N・m	M_R N・m	block kg	guide rail kg/m	
13.5	15	3.5×6×4.5 4.5×7.5×5.3	20	60	5.00	8.23	33 196	33 196	57	0.1	1.3	**15**
16	20	6×9.5×8.5			7.35	12.3	59 353	59 353	137	0.2	2.1	**20**
20	23	7×11×9			11.7	19.6	109 652	109 652	225	0.3	3.0	**25**
24	28			80	13.7	22.5	123 735	123 735	319	0.5	4.6	**30**
27.5	34	9×14×12			21.6	35.7	248 1,490	248 1,490	627	0.8	6.2	**35**

1kN≒102kgf　1N・m≒0.102kgf・m

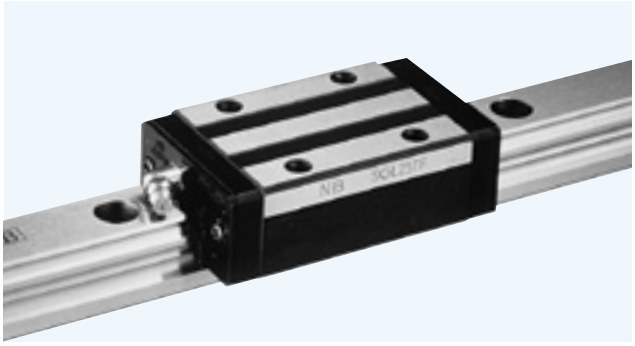
							maximum length mm
1,120	1,240	1,360	1,480				2,000
1,240	1,360	1,480	1,600	1,720	1,840	1,960	3,000
1,240	1,360	1,480	1,600	1,720	1,840	1,960	3,000
1,480	1,640	1,800	1,960				3,000
1,480	1,640	1,800	1,960				3,000



When two blocks are used in contact.

SGL-TF TYPE

– High Rigidity Non-Flange Type –



part number structure

example SGL | 20 | TF | B | 2 | T1 | - | 589 | D | P | / | W2 | RD | F

- SGL type: SGL
- size: 20
- TF type block: TF
- seal: blank = without under-seal; B = seals on both ends + under-seals
- number of blocks per rail: 2
- symbol for pre-load: blank = standard; T1 = light; T2 = medium
- total length of rail: 589
- size of rail installation hole: D
- accuracy grade: blank = standard; H = high; P = precision
- symbol for number of rails: blank = single rail; W2 = double rails; W3 = triple rails
- with Raydent treatment: RD
- with rail mounting hole caps: F

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

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_1	ℓ mm	T mm	b mm	E mm	T_1 mm	grease fitting
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.

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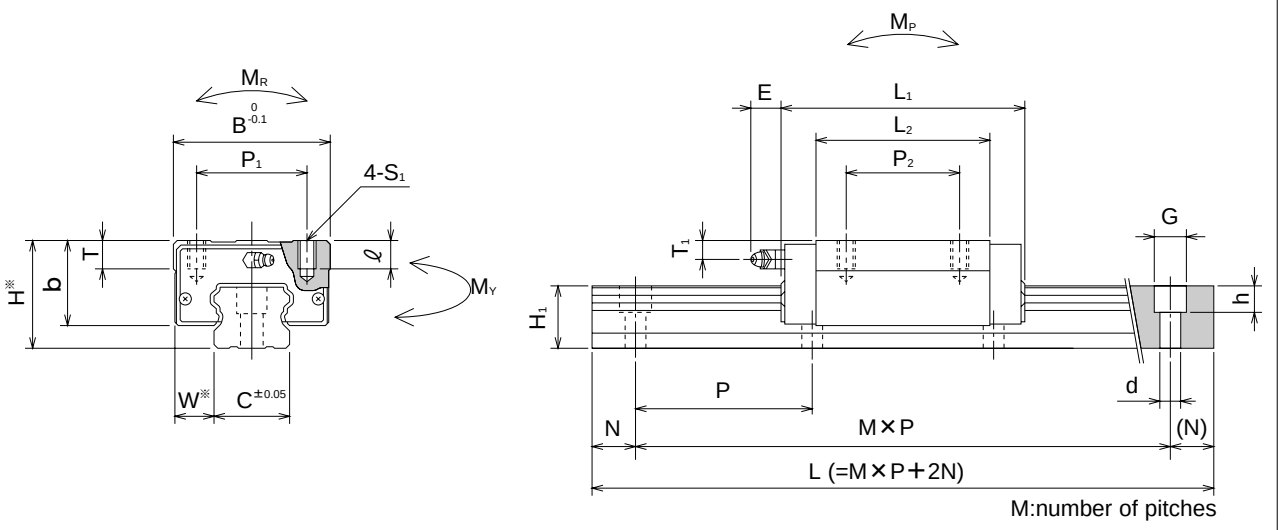


※Refer to page P.2 for a description of accuracy.

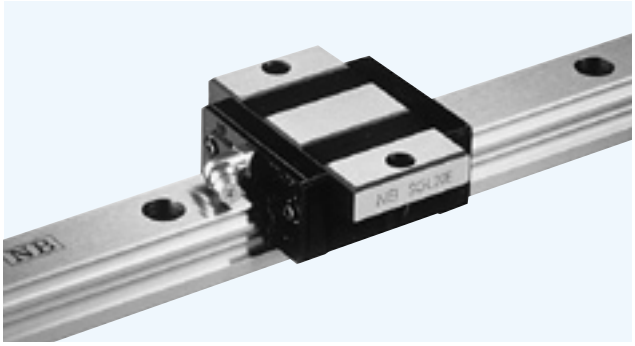
guide-rail dimensions					basic load rating		allowable static moment			mass		size
H_1 mm	C mm	d×G×h mm	N mm	P mm	dynamic C kN	static Co kN	M_P N・m	M_Y N・m	M_R N・m	block kg	guide rail kg/m	
13.5	15	3.5×6×4.5 4.5×7.5×5.3	20	60	8.6	14.2	69	69	98	0.2	1.3	**15**
16	20	6×9.5×8.5			12.7	21.6	157	157	235	0.3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

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: blank = without under-seal; B = seals on both ends + under-seals
- number of blocks per rail
- symbol for pre-load: blank = standard; T1 = light; T2 = medium
- size of rail installation hole
- total length of rail
- accuracy grade: blank = standard; H = high; P = precision
- symbol for number of rails: blank = single rail; W2 = double rails; W3 = triple rails
- with Raydent treatment
- with rail mounting hole caps

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

part number	assembly dimensions		block dimensions									
	H mm	W mm	B mm	L_1 mm	L_2 mm	P_1 mm	S_1 mm	T mm	b mm	E mm	T_1 mm	grease fitting
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		32.5		9	
SGL35E	48	33	100	77	46	82		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

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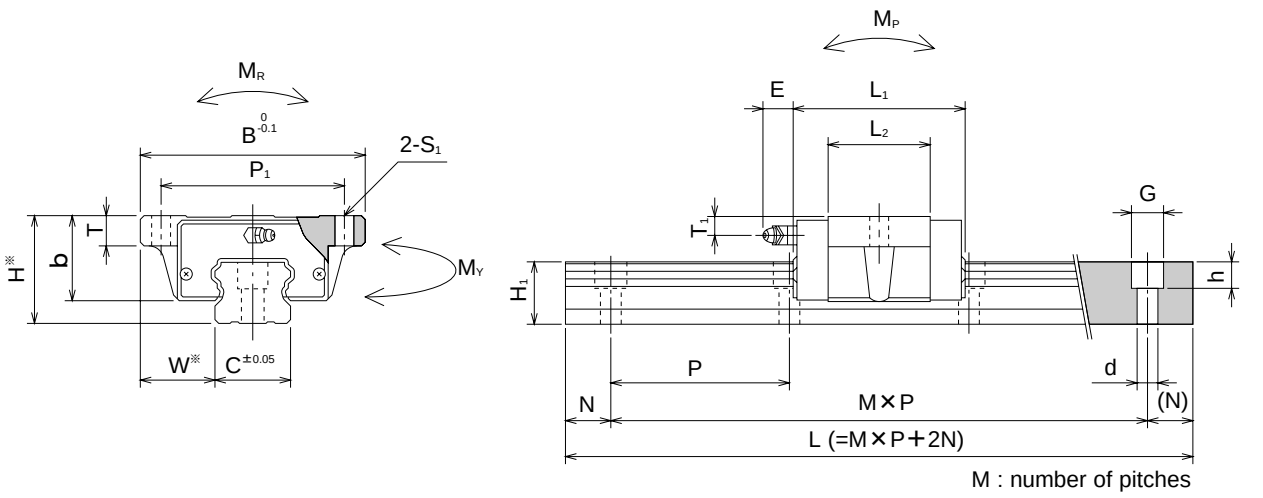
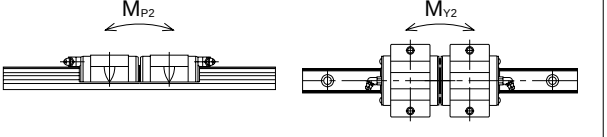


※Refer to page P.2 for a description of accuracy.

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



When two blocks are used in contact.

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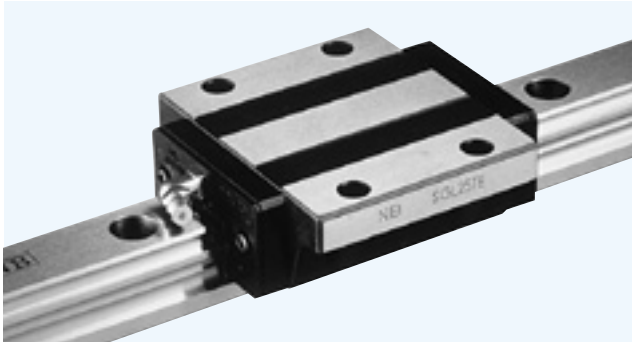
SGL-TE TYPE

– 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
  - blank: without under-seal
  - B: seals on both ends + under-seals
- number of blocks per rail
- symbol for pre-load
  - blank: standard
  - T1: light
  - T2: medium
- size of rail installation hole
- total length of rail
- accuracy grade
  - blank: standard
  - H: high
  - P: precision
- symbol for number of rails
  - blank: single rail
  - W2: double rails
  - W3: triple rails
- with Raydent treatment
- with rail mounting hole caps

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		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

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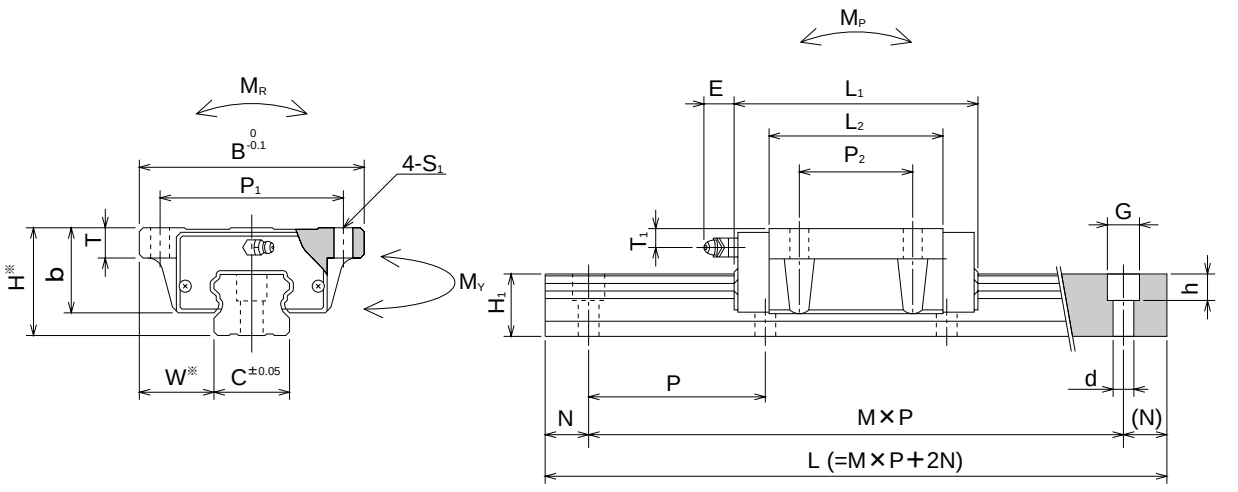

M : number of pitches

※Refer to page P.2 for a description of accuracy.

guide-rail dimensions					basic load rating		allowable static moment			mass		size
H_1 mm	C mm	d×G×h mm	N mm	P mm	dynamic C kN	static Co kg	M_P N・m	M_Y N・m	M_R N・m	block kg	guide rail kg/m	
13.5	15	3.5×6×4.5 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	0.3	2.1	**20**
20	23	7×11×9			20.1	34.3	274	274	392	0.6	3.0	**25**
24	28			80	23.5	39.7	314	314	549	1.0	4.6	**30**
27.5	34	9×14×12			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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