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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			SGL45		
accuracy grade	normal	high	precision	normal	high	precision	normal	high	precision
accuracy symbol	none	H	P	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	±0.1	±0.05	−0.05～0
paired difference for height H	0.02	0.01	0.006	0.02	0.015	0.007	0.03	0.015	0.007
allowable dimensional tolerance for width W	±0.1	±0.03	−0.03～0	±0.1	±0.04	−0.04～0	±0.1	±0.05	−0.05～0
paired difference for width W	0.02	0.01	0.006	0.03	0.015	0.007	0.03	0.02	0.01
Running parallelism of surface C to surface A Running parallelism of surface D to surface B	refer to Figure 1								

Figure 1 Motion Accuracy

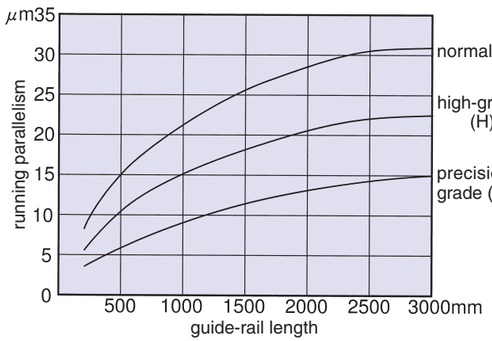
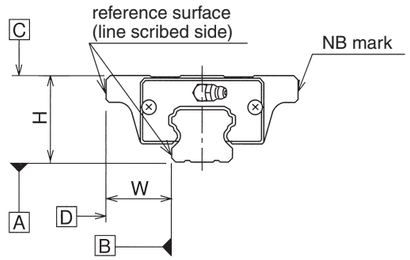


Figure 2 Accuracy



PRE-LOAD

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

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

pre-load category	standard	light	medium
pre-load symbol	none	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
SGL45	−10～+5	−25～−10	−40～−25

Table 3 Operating Condition and Pre-Load

category	symbol	operating condition
standard	none	Minute vibration is applied. Precision motion is required. Moment in a given direction is applied.
light	T1	Light vibration is applied. Light moment is applied. Moment is applied.
medium	T2	Shock/vibration is applied. Over-hang load is applied. Torsional load is applied.

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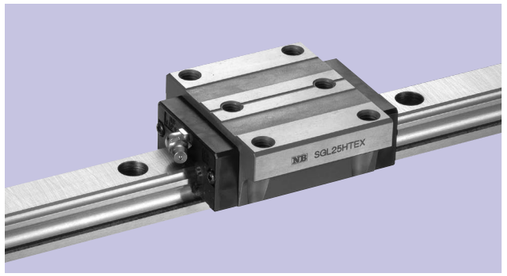
SGL-HTEX TYPE



part number structure example **SGL 15 HTEX B 2 T1 - 589 P / W2 FS LB F J KGL**

- SGL type
- size
- block style
- seal

blank	With side-seals
B	With side seals + under-seals
BW	With double seals + under-seals
BS	B + scraper

- 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

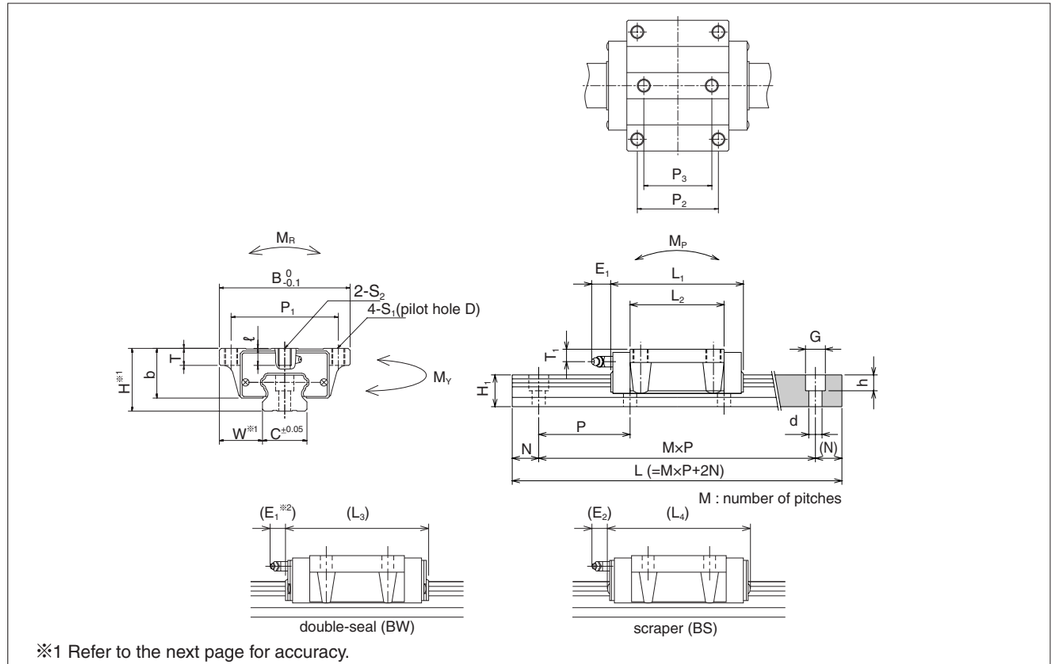
- symbol for grease

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

- with bellows
- 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.



※1 Refer to the next page for accuracy.
※2 6mm for SGL15HTEXBW.

part number	assembly dimensions H mm	W mm	block dimensions B mm	L_1 mm	L_2 mm	L_3 mm	L_4 mm	P_1 mm	P_2 mm	S_1	D mm	T mm	P_3 mm	S_2	ℓ mm	b mm
SGL15HTEX	24	16	47	56.5	38.5	62.7	63.1	38	30	M5	4.4	7.5	26	M5	6	19.7
SGL20HTEX	30	21.5	63	71.6	53.2	77.8	78.2	53	40	M6	5.4	10.5	35	M6	8	24
SGL25HTEX	36	23.5	70	80	59	86.4	87.2	57	45	M8	6.8	12.5	40	M8	10	29
SGL30HTEX	42	31	90	95.7	67.7	104.3	103.3	72	52	M10	8.5	10	44	M10	10	32.5
SGL35HTEX	48	33	100	109	78	117.6	116.6	82	62			13	52		13	38
SGL45HTEX	60	37.5	120	139	102	147.5	148	100	80	M12	10.5	15	60	M12	14	50

part number	E_1 mm	E_2 mm	T_1 mm	grease fitting	guide-rail dimensions H_1 mm	C mm	dxGxh mm	N mm	P mm	basic load rating dynamic C kN	static Co kN	allowable static moment M_P N·m	M_Y N·m	M_R N·m	mass block kg	guide rail kg/m	size
SGL15HTEX	5	5.4	5	pressed fitting	13.5	15	4.5×7.5×5.3	20	60	10.6	16.2	100	100	127	0.2	1.3	**15**
SGL20HTEX	14	13.3	8	B-M6F	16	20	6×9.5×8.5			18.4	27.5	227	227	296	0.4	2.1	**20**
SGL25HTEX		13.1	9.5		20	23	7×11×9			24.8	36.3	335	335	437	0.6	3.0	**25**
SGL30HTEX		14	9		24	28	9×14×12		80	33.6	49.2	529	529	716	1.0	4.6	**30**
SGL35HTEX			8.5		27.5	34				46.7	64.8	796	796	1,188	1.5	6.2	**35**
SGL45HTEX	16	16	10	B-PT1/8	36.5	45	14×20×17	22.5	105	74.8	101.2	1,553	1,553	2,312	3.1	10.5	**45**

1kN ≒ 102kgf 1N·m ≒ 0.102kgf·m

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
SGL45	570	675	780	885	990	1,095	1,200	1,305	1,410	1,515	1,620	1,725	1,830	1,935	2,040

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

									maximum length mm
1,120	1,240	1,360	1,480						2,000
1,240	1,360	1,480	1,600	1,660	1,720	1,840	1,960		3,000
1,240	1,360	1,480	1,600	1,660	1,720	1,840	1,960		3,000
1,480	1,640	1,720	1,800	1,880	1,960				3,000
1,480	1,640	1,720	1,800	1,880	1,960				3,000
2,145	2,250	2,355	2,460	2,565	2,670	2,775	2,880	2,985	3,000

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