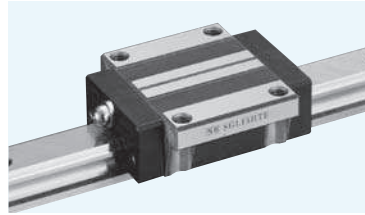


## SGL-HTE TYPE



## part number structure

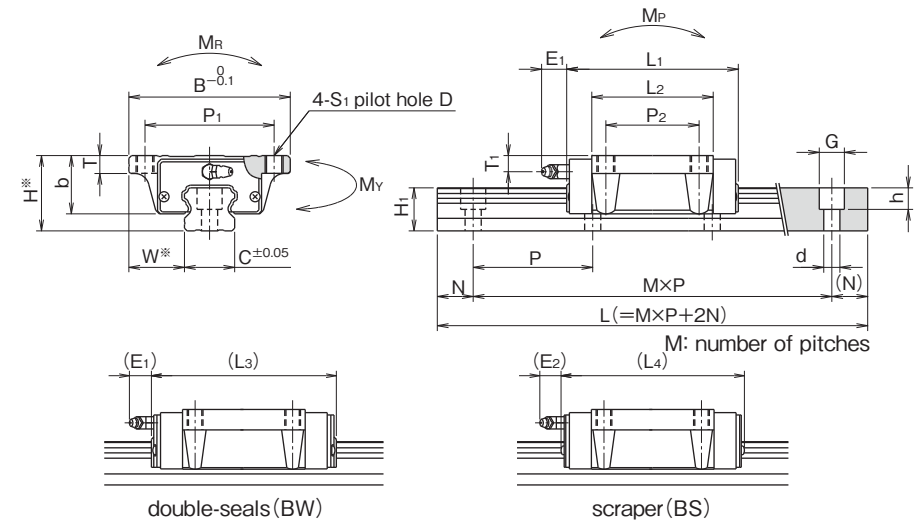
|                                       |                                                     |                                                                                                                                                                          |
|---------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| example                               | <b>SGL 15 HTE B 2 T1 - 589 P/W2 FS LB F J - KGL</b> | symbol for grease<br>blank: standard grease<br>KGL: lithium-based grease<br>KGU: urea-based grease<br>KGF: anti-fretting grease<br>GK: K-grease<br>refer to page Eng-39~ |
| SGL type                              |                                                     |                                                                                                                                                                          |
| size                                  |                                                     |                                                                                                                                                                          |
| block style                           |                                                     |                                                                                                                                                                          |
| seal (refer to page A-14)             |                                                     |                                                                                                                                                                          |
| blank: with side-seals                |                                                     |                                                                                                                                                                          |
| B: with side-seals + under-seals      |                                                     |                                                                                                                                                                          |
| BW: with double-seals + under-seals   |                                                     |                                                                                                                                                                          |
| BS: B + scraper                       |                                                     |                                                                                                                                                                          |
| number of blocks attached to one rail |                                                     |                                                                                                                                                                          |
| preload symbol                        |                                                     |                                                                                                                                                                          |
| blank: standard                       |                                                     |                                                                                                                                                                          |
| T1: light                             |                                                     |                                                                                                                                                                          |
| T2: medium                            |                                                     |                                                                                                                                                                          |
| total length of rail                  |                                                     |                                                                                                                                                                          |
|                                       |                                                     | with bellows (refer to page A-16)                                                                                                                                        |
|                                       |                                                     | with rail mounting hole caps                                                                                                                                             |
|                                       |                                                     | with low temperature black chrome treatment                                                                                                                              |
|                                       |                                                     | with Fiber Sheet<br>(Fiber Sheet comes only with standard grease.)                                                                                                       |
|                                       |                                                     | symbol for number of axes*<br>blank: single axis<br>W2: 2 parallel axes<br>W3: 3 parallel axes                                                                           |
|                                       |                                                     | accuracy grade<br>blank: standard<br>H: high<br>P: precision                                                                                                             |

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

| part number     | assembly dimensions |      | block dimensions |                |                |                |                |                |                |                |      |      |      |                |                |
|-----------------|---------------------|------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------|------|------|----------------|----------------|
|                 | H                   | W    | B                | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | L <sub>4</sub> | P <sub>1</sub> | P <sub>2</sub> | S <sub>1</sub> | D    | T    | b    | E <sub>1</sub> | E <sub>2</sub> |
|                 | mm                  | mm   | mm               | mm             | mm             | mm             | mm             | mm             | mm             | mm             | mm   | mm   | mm   | mm             | mm             |
| <b>SGL15HTE</b> | 24                  | 16   | 47               | 56.5           | 38.5           | 62.7           | 63.1           | 38             | 30             | M5             | 4.4  | 7.5  | 19.7 | 6              | 5.4            |
| <b>SGL20HTE</b> | 30                  | 21.5 | 63               | 71.6           | 53.2           | 77.8           | 78.2           | 53             | 40             | M6             | 5.4  | 10.5 | 24   | 12             | 11             |
| <b>SGL25HTE</b> | 36                  | 23.5 | 70               | 80             | 59             | 86.4           | 87.2           | 57             | 45             | M8             | 6.8  | 12.5 | 29   |                |                |
| <b>SGL30HTE</b> | 42                  | 31   | 90               | 95.7           | 67.7           | 104.3          | 103.3          | 72             | 52             | M10            | 8.5  | 10   | 32.5 |                |                |
| <b>SGL35HTE</b> | 48                  | 33   | 100              | 109            | 78             | 117.6          | 116.6          | 82             | 62             |                |      | 13   | 38   |                |                |
| <b>SGL45HTE</b> | 60                  | 37.5 | 120              | 139            | 102            | 147.5          | 148            | 100            | 80             | M12            | 10.5 | 15   | 50   | 15             | 15             |

| part number  | standard rail length<br>L mm |     |     |     |     |       |       |       |       |       |       |       |       |       |       |
|--------------|------------------------------|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>SGL15</b> | 160                          | 220 | 280 | 340 | 400 | 460   | 520   | 580   | 640   | 700   | 760   | 820   | 880   | 940   | 1,000 |
| <b>SGL20</b> | 220                          | 280 | 340 | 400 | 460 | 520   | 580   | 640   | 700   | 760   | 820   | 880   | 940   | 1,000 | 1,120 |
| <b>SGL25</b> | 220                          | 280 | 340 | 400 | 460 | 520   | 580   | 640   | 700   | 760   | 820   | 880   | 940   | 1,000 | 1,120 |
| <b>SGL30</b> | 280                          | 360 | 440 | 520 | 600 | 680   | 760   | 840   | 920   | 1,000 | 1,080 | 1,160 | 1,240 | 1,320 | 1,400 |
| <b>SGL35</b> | 280                          | 360 | 440 | 520 | 600 | 680   | 760   | 840   | 920   | 1,000 | 1,080 | 1,160 | 1,240 | 1,320 | 1,400 |
| <b>SGL45</b> | 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. Please contact NB for assistance.



※Please refer to page A-44 for accuracy.

| T <sub>1</sub> | grease fitting  | guide rail dimensions |         |             |         |         | basic load rating  |                                | allowable static moment |                       |                       | mass        |                    | block size |
|----------------|-----------------|-----------------------|---------|-------------|---------|---------|--------------------|--------------------------------|-------------------------|-----------------------|-----------------------|-------------|--------------------|------------|
| mm             |                 | H <sub>1</sub><br>mm  | C<br>mm | d×G×h<br>mm | N<br>mm | P<br>mm | dynamic<br>C<br>kN | static<br>C <sub>0</sub><br>kN | M <sub>P</sub><br>N·m   | M <sub>Y</sub><br>N·m | M <sub>R</sub><br>N·m | block<br>kg | guide rail<br>kg/m |            |
| 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         |
| 8              | B-M6F           | 16                    | 20      | 6×9.5×8.5   |         |         | 18.4               | 27.5                           | 227                     | 227                   | 296                   | 0.4         | 2.1                | 20         |
| 9.5            |                 | 20                    | 23      | 7×11×9      |         |         | 24.8               | 36.3                           | 335                     | 335                   | 437                   | 0.6         | 3.0                | 25         |
| 9              |                 | 24                    | 28      | 9×14×12     |         | 33.6    | 49.2               | 529                            | 529                     | 716                   | 1.0                   | 4.6         | 30                 |            |
| 8.5            |                 | 27.5                  | 34      |             |         | 46.7    | 64.8               | 796                            | 796                     | 1,188                 | 1.5                   | 6.2         | 35                 |            |
| 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

|                                                 | maximum length<br>mm |
|-------------------------------------------------|----------------------|
| 1,240 1,360 1,480                               | 2,000                |
| 1,360 1,480 1,600 1,660 1,720 1,840 1,960       | 3,000                |
| 1,360 1,480 1,600 1,660 1,720 1,840 1,960       | 3,000                |
| 1,640 1,720 1,800 1,880 1,960                   | 3,000                |
| 1,640 1,720 1,800 1,880 1,960                   | 3,000                |
| 2,250 2,355 2,460 2,565 2,670 2,775 2,880 2,985 | 3,000                |