

# Runner Blocks Slimline, Steel Version

## Runner Block SNS R1622

### Slimline Standard

Versions:

- Runner block without ball chain:  
for part numbers, see table
- Runner block with low friction seal  
without ball chain<sup>\*\*</sup>:  
Part numbers R1622 xxx 21
- Runner block with ball chain:  
part numbers R1622 xxx 21
- Runner block with low friction seal  
with ball chain<sup>\*\*</sup>:  
Part numbers R1622 xxx 22

### Dynamic Characteristics

Speed  $v_{\max} = 5 \text{ m/s}$

Acceleration  $a_{\max} = 500 \text{ m/s}^2$

### Precision Runner Block

- Pre-lubricated

### Corrosion resistant version

- Pre-lubricated

For Resist NR corrosion-resistant Steel runner block, see appropriate section.

For Resist NR II - All corrosion-resistant steel parts, see appropriate section.

### High Precision Runner Blocks

- Further improved movement accuracy
- Superior quality
- Highest precision
- Pre-lubricated
- Minimal oil preservation

### Preload Class

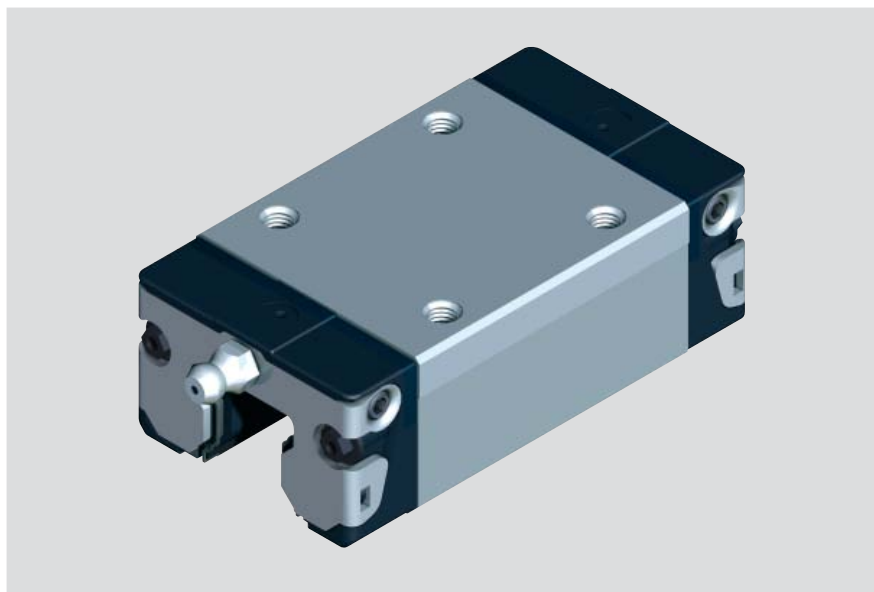
C0 = without Preload

C1 = Preload 2% C

C2 = Preload 8% C

C3 = Preload 13% C

For further technical information, please see chapter on "General Technical Data and Calculations".

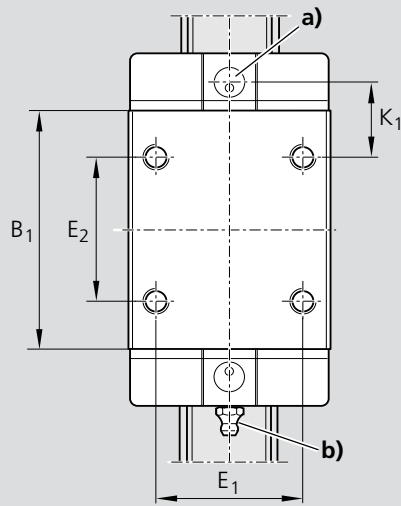
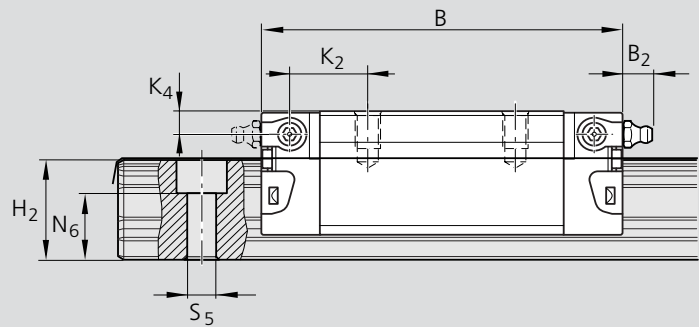
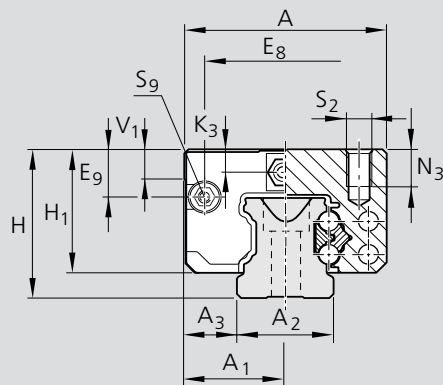


| Size | Accuracy Class | Part numbers for runner blocks for preload class |              |              |
|------|----------------|--------------------------------------------------|--------------|--------------|
|      |                | C0                                               | C1           | C2           |
| 15   | N              | R1622 194 20                                     | R1622 114 20 | R1622 124 20 |
|      | H              | R1622 193 20                                     | R1622 113 20 | R1622 123 20 |
|      | P              |                                                  | R1622 112 20 | R1622 122 20 |
| 20   | N              | R1622 894 20                                     | R1622 814 20 | R1622 824 20 |
|      | H              | R1622 893 20                                     | R1622 813 20 | R1622 823 20 |
|      | P              |                                                  | R1622 812 20 | R1622 822 20 |
| 25   | N              | R1622 294 20                                     | R1622 214 20 | R1622 224 20 |
|      | H              | R1622 293 20                                     | R1622 213 20 | R1622 223 20 |
|      | P              |                                                  | R1622 212 20 | R1622 222 20 |
| 30   | N              | R1622 794 20                                     | R1622 714 20 | R1622 724 20 |
|      | H              | R1622 793 20                                     | R1622 713 20 | R1622 723 20 |
|      | P              |                                                  | R1622 712 20 | R1622 722 20 |
| 35   | N              | R1622 394 20                                     | R1622 314 20 | R1622 324 20 |
|      | H              | R1622 393 20                                     | R1622 313 20 | R1622 323 20 |
|      | P              |                                                  | R1622 312 20 | R1622 322 20 |
| 45*  | N              | R1622 494 20                                     | R1622 414 20 | R1622 424 20 |
|      | H              | R1622 493 20                                     | R1622 413 20 | R1622 423 20 |
|      | P              |                                                  | R1622 412 20 | R1622 422 20 |

| Size | Accuracy Class | Part numbers for runner blocks for preload class |              |              |
|------|----------------|--------------------------------------------------|--------------|--------------|
|      |                | C1                                               | C2           | C3           |
| 15   | XP             | R1622 118 20                                     | R1622 128 20 | R1622 138 20 |
| 20   | XP             | R1622 818 20                                     | R1622 828 20 | R1622 838 20 |
| 25   | XP             | R1622 218 20                                     | R1622 228 20 | R1622 238 20 |
| 30   | XP             | R1622 718 20                                     | R1622 728 20 | R1622 738 20 |
| 35   | XP             | R1622 318 20                                     | R1622 328 20 | R1622 338 20 |
| 45*  | XP             | R1622 418 20                                     | R1622 428 20 | R1622 438 20 |

\* No delivery with low friction seal

\*\* Low friction seal available for preload C0 and C1 (only for precision classes N, H, XP)



a) For O-ring  
Size 15: dia. 4 · 1.0 (mm)  
Size 20-45: dia. 5 · 1.0 (mm)  
Open lube bore as required.  
See Accessories:  
Mounting lubrication adapter.

b) Lube nipple sizes 15 and 20:  
funnel-type nipple  
Type A – M3 x 5, DIN 3405  
B<sub>2</sub> = 1.6 mm  
If another lube nipple is used:  
observe the screw-in depth of 5 mm!  
Size 25 to 45: M6 x 8,  
DIN 71412  
B<sub>2</sub> = 9.5 mm  
If another lube nipple is used:  
observe the screw-in depth of 8 mm!  
Connection possible at all sides.

| Dimensions (mm) |    |                |                |                |       |                |    |                |                              |                              |                |                |                |                |                |                |                |                |                |
|-----------------|----|----------------|----------------|----------------|-------|----------------|----|----------------|------------------------------|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Size            | A  | A <sub>1</sub> | A <sub>2</sub> | A <sub>3</sub> | B     | B <sub>1</sub> | H  | H <sub>1</sub> | H <sub>2</sub> <sup>1)</sup> | H <sub>2</sub> <sup>2)</sup> | V <sub>1</sub> | E <sub>1</sub> | E <sub>2</sub> | E <sub>8</sub> | E <sub>9</sub> | K <sub>1</sub> | K <sub>2</sub> | K <sub>3</sub> | K <sub>4</sub> |
| 15              | 34 | 17             | 15             | 9.5            | 58.2  | 39.2           | 24 | 19.90          | 16.30                        | 16.20                        | 5.0            | 26             | 26             | 24.55          | 6.70           | 10.00          | 11.60          | 3.20           | 3.20           |
| 20              | 44 | 22             | 20             | 12.0           | 75.0  | 49.6           | 30 | 25.35          | 20.75                        | 20.55                        | 6.0            | 32             | 36             | 32.50          | 7.30           | 13.80          | 13.80          | 3.35           | 3.35           |
| 25              | 48 | 24             | 23             | 12.5           | 86.2  | 57.8           | 36 | 29.90          | 24.45                        | 24.25                        | 7.5            | 35             | 35             | 38.30          | 11.50          | 17.45          | 18.60          | 5.50           | 5.50           |
| 30              | 60 | 30             | 28             | 16.0           | 97.7  | 67.4           | 42 | 35.35          | 28.55                        | 28.35                        | 7.0            | 40             | 40             | 48.40          | 14.60          | 20.00          | 21.70          | 6.05           | 6.05           |
| 35              | 70 | 35             | 34             | 18.0           | 110.5 | 77.0           | 48 | 40.40          | 32.15                        | 31.85                        | 8.0            | 50             | 50             | 58.00          | 17.35          | 20.50          | 22.00          | 6.90           | 6.90           |
| 45              | 86 | 43             | 45             | 20.5           | 137.6 | 97.0           | 60 | 50.30          | 40.15                        | 39.85                        | 10.0           | 60             | 60             | 69.80          | 20.90          | 27.30          | 29.30          | 8.20           | 8.20           |

<sup>1)</sup> Dimension H<sub>2</sub> with rail seal cover strip

<sup>2)</sup> Dimension H<sub>2</sub> without rail seal cover strip

| Dimensions (mm) |                |                     |                |                |                |           |  | Load Capacities (N) <sup>3)</sup> |                      | Moments (Nm)        |                       |                     |                       |
|-----------------|----------------|---------------------|----------------|----------------|----------------|-----------|--|-----------------------------------|----------------------|---------------------|-----------------------|---------------------|-----------------------|
| Size            | N <sub>3</sub> | N <sub>6</sub> ±0.5 | S <sub>2</sub> | S <sub>5</sub> | S <sub>9</sub> | Mass (kg) |  | C dyn.                            | C <sub>0</sub> stat. | M <sub>t</sub> dyn. | M <sub>t0</sub> stat. | M <sub>L</sub> dyn. | M <sub>L0</sub> stat. |
| 15              | 6.0            | 10.3                | M4             | 4.4            | M2.5-3.5 deep  | 0.15      |  | 7 800                             | 13 500               | 74                  | 130                   | 40                  | 71                    |
| 20              | 7.5            | 13.2                | M5             | 6.0            | M3-5 deep      | 0.35      |  | 18 800                            | 24 400               | 240                 | 310                   | 130                 | 165                   |
| 25              | 9.0            | 15.2                | M6             | 7.0            | M3-5 deep      | 0.50      |  | 22 800                            | 30 400               | 320                 | 430                   | 180                 | 240                   |
| 30              | 12.0           | 17.0                | M8             | 9.0            | M3-5 deep      | 0.85      |  | 31 700                            | 41 300               | 540                 | 720                   | 290                 | 380                   |
| 35              | 13.0           | 20.5                | M8             | 9.0            | M3-5 deep      | 1.25      |  | 41 900                            | 54 000               | 890                 | 1 160                 | 440                 | 565                   |
| 45              | 18.0           | 23.5                | M10            | 14.0           | M4-7 deep      | 2.40      |  | 68 100                            | 85 700               | 1 830               | 2 310                 | 890                 | 1 130                 |

<sup>3)</sup> Load capacities for version without ball chain. Load capacities for version with ball chain, see Product Overview with Load Capacities. Determination of the dynamic of the load capacities and moments is based on 100,000 m of stroke travel. Often only 50,000 m are actually stipulated. Comparison: Value C, M<sub>t</sub> und M<sub>L</sub> per table multiplied by 1.26.