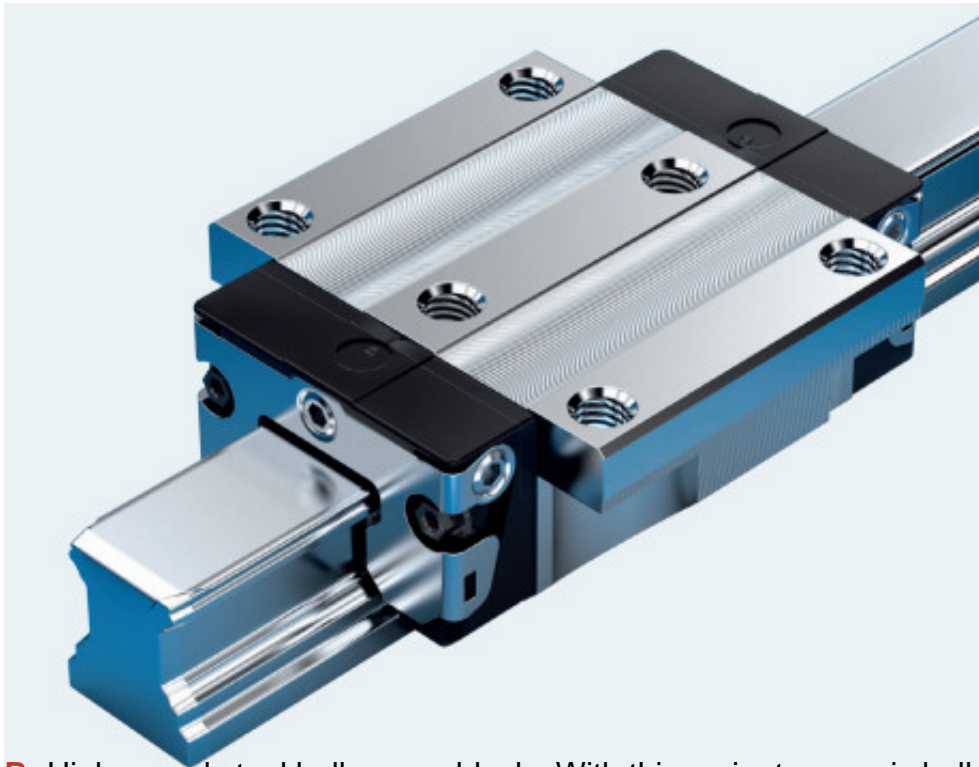


Ball Runner Blocks

[Industrial Bearings Solutions](#) offers ball runner blocks in a variety of materials to meet the requirements of different applications.

A: Standard steel ball runner blocks The most widespread version made of carbon steel. An economical solution, but provides no protection against corrosion. It is, however, sufficient for most industrial machinery applications.



B: High-speed steel ball runner blocks With this variant, ceramic balls replace the steel ones in steel ball runner blocks. Since the ceramic material is less dense than steel, the forces in the recirculation zones of the ball circuits remain the same even at the higher permissible travel speed. As a result, there is no reduction in life expectancy, even when the system is operated at speeds of up to 10 m/s. The load capacities and moments are slightly lower than those of the standard version. Ball runner blocks with limited corrosion resistance

C: Aluminum ball runner blocks The ball runner block body consists of a wrought aluminum alloy. The balls, steel inserts, and the mounting screws at the end face are made of carbon steel. The ball runner blocks have the same load capacities as the standard version. Since the yield strength of aluminum is less than that of steel, the maximum load capacity of the ball runner block is limited by F_{max} and M_{max} . A cost-effective alternative with limited corrosion protection. Corrosion-resistant ball runner blocks

D Resist NR

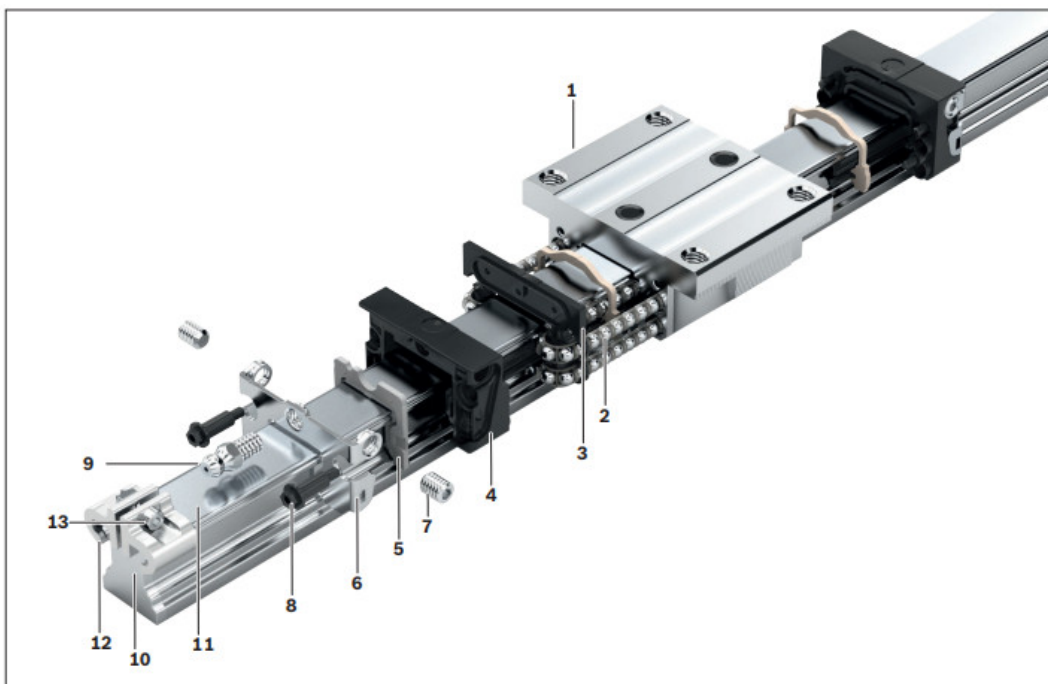
The ball runner block body is made of corrosion-resistant material. Offers limited corrosion protection. The balls, steel inserts, and the mounting screws at the end face are made of carbon steel. The ball runner blocks have the same load capacities and

moments as the standard versions.

Industrial Bearings Solutions recommends this version for applications requiring corrosion protection. Fast delivery

E:Resist NR II All the parts of this ball runner block are made of corrosion-resistant material. These ball runner blocks offer the greatest possible protection against corrosion with only a slight reduction in load capacities and moments.

F:Resist CR The ball runner block body has a matte silver, hard chrome-plated corrosion-resistant coating. The balls, steel inserts, and the mounting screws at the end face are made of carbon steel. The ball runner blocks have the same load capacities and moments as the standard versions. As an alternative if the NR version is not available.



| Item | Part | Ball runner block | | | | | |
|------|-------------------------|----------------------------------|--------------------------------|-----------------------------|----------------------------------|----------------------------------|-----------------------------------|
| | | A Steel | B Steel (high-speed) | C Aluminum | D Resist NR | E Resist NR II | F Resist CR |
| 1 | Ball runner block body | Heat-treated steel | Heat-treated steel | Wrought aluminum alloy | Corrosion-resistant steel 1.4122 | Corrosion-resistant steel 1.4122 | Heat-treated steel, chrome-plated |
| 2 | Balls | Anti-friction bearing steel | Si ₃ N ₄ | Anti-friction bearing steel | Anti-friction bearing steel | Corrosion-resistant steel 1.4112 | Anti-friction bearing steel |
| 3 | Recirculation plate | Plastic TEE-E | | | | | |
| 4 | Ball guide | Plastic POM (PA6.6) | | | | | |
| 5 | Sealing plate | Plastic TEE-E | | | | | |
| 6 | Threaded plate | Corrosion-resistant steel 1.4306 | | | | | |
| 7 | Set screw | Corrosion-resistant steel 1.4301 | | | | | |
| 8 | Flanged screws | Carbon steel | | | | Corrosion-resistant steel 1.4303 | Carbon steel |
| 9 | Lube nipple | | | | | Corrosion-resistant steel 1.4305 | |
| Item | Part | Ball guide rail | | | | | |
| 10 | Ball guide rail | Heat-treated steel | | | | Corrosion-resistant steel 1.4116 | Heat-treated steel |
| 11 | Cover strip | Corrosion-resistant steel 1.4310 | | | | | |
| 12 | Strip clamp | Anodized aluminum | | | | | |
| 13 | Clamping screw with nut | Corrosion-resistant steel 1.4301 | | | | | |