The CPC WRC Linear Guide Series has a wide rail which can absorb larger torque from Mr direction. With the O-type arrangement for the four-row ball circulation design, the contact angle between the rail and ball is 45 degrees which can realize the 4 directional load effects. In addition, the runner block for the same size uses larger and more balls, so will outperform competitor’s models by 10% to 30% regarding load capabilities. The products have characteristics of high load, high moment, and high rigidity.

WRC ball chain patent design provides large contact area between ball which can provide better maintenance of oil film; achieve low noise; balls can operate with higher speed; extend the product service life.

Using 2 stainless steel reinforcement plates, the L-type design can fasten the screws onto the top and bottom of the runner block, reinforcing the rigidity of the end caps and cladding.

The WRC type uses the stainless steel reinforcement plates to strengthen the bottom latches, while increasing X-axis direction force capacity, and increasing operation speed.

Inner PU Lubrication Storage Pad design does not increase the length of the runner block. Besides, it contact directly with all balls; ensure long term lubrication effects; conform to environmental protection needs; low maintenance costs; moreover, it present excellent performance when used in short stroke.
Dustproof design

Stainless Steel Reinforcement Plate
With clearance between rail profile for less than 0.3mm, the place can scrape large items such as iron filings to protect the end seals.

Inner Seals
The inner seals can protect foreign objects from sliding into the rails while maintaining low friction. It can also allow the lubrication oil to be maintained inside the runner block and prolong the re-lubrication interval.

Bottom Seals
The bottom seals can prevent foreign objects from entering the bottom and prevent lubrication from leaking out. With full sealing design, it reduces the amount of oil usage, prolong the re-lubrication interval, and prolong the service life.

Dimension Table

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Rail Dimensions(mm)</th>
<th>Block Dimensions(mm)</th>
<th>Load Capacities (KN)</th>
<th>Static Moment (Nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H</td>
<td>W</td>
<td>W1</td>
<td>H1</td>
</tr>
<tr>
<td>WRC21/15MN</td>
<td>21</td>
<td>85</td>
<td>37</td>
<td>144</td>
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<td>WRC27/20MN</td>
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<td>10</td>
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<td>18</td>
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<td>69</td>
<td>21</td>
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</tbody>
</table>

The above rating load capacities and static moment are calculated according to ISO14728 standard. The rating life for basic dynamic load rating is defined as the total 100km travel distance that 90% of a group of identical linear guides can be operated individually under the same conditions free from any material damage caused by rolling fatigue. When the standard of 50km travel distance is applied, the above basic dynamic load rating C of ISO 14728 should be multiplied by 1.26 for conversion.

Ordering information

Model code

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<thead>
<tr>
<th>WRC</th>
<th>21/15</th>
<th>M</th>
<th>N</th>
<th>B</th>
<th>2</th>
<th>Z</th>
<th>C</th>
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<th>P</th>
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</tr>
</tbody>
</table>

Customization code

Number of rails on the same moving axis
End hole pitch (mm)
Accuracy grade : UP, SP, P, H, N
Preload class : VC, V0, V1, V2
C : with ball chain
Z : with lubrication storage pad
Block quantity

Seal type : B : Low friction S : Standard
Block length : N : standard
Block width : M : standard P : flanged
Block type : 21/15, 27/20, 35/25
Product type : WRC : Wide Rail Ball Type Linear Guide Series

* Please note that the specifications are subject to change without notice due to product improvements.