ARC/HRC size 55 Ball Type Linear Guide Series

**ARC/HRC Product Feature**

The **cpc** ARC/HRC Linear Guide Series uses the O-type arrangement for the four row ball circulation design which can absorb larger torque from Mr direction and the contact angle between the rail and balls is 45 degrees which can realize the 4 directional load effects. In addition, the runner block for the same size uses larger balls, so it will outperform competitor’s models by 10% to 30% regarding load capabilities.

The runner block is designed with simple and compact accessories which provides plenty and thick space for the steel body and enhances the entire rigidity of the runner block. The product have characteristics of high load, high moment, and high stiffness.

**Reinforcement plate patent design**

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

**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.

**Reach Vmax 10 m/s**

**Reach â max 450m/s**

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### 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>
<th>Weight Block (g)</th>
<th>Weight Rail (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC 55 MN</td>
<td>70</td>
<td>23.5</td>
<td>120</td>
<td>24×6×20</td>
<td>500</td>
<td>160</td>
</tr>
<tr>
<td>ARC 55 MN</td>
<td>70</td>
<td>23.5</td>
<td>120</td>
<td>24×6×20</td>
<td>500</td>
<td>160</td>
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<tr>
<td>ARC 55 ML</td>
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<td>23.5</td>
<td>120</td>
<td>24×6×20</td>
<td>500</td>
<td>160</td>
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<tr>
<td>ARC 55 FN</td>
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<td>43.5</td>
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<td>160</td>
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<td>ARC 55 FL</td>
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<td>43.5</td>
<td>120</td>
<td>24×6×20</td>
<td>500</td>
<td>160</td>
</tr>
</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.

### ARU Series (Tapped from the bottom)

<table>
<thead>
<tr>
<th>Model Code</th>
<th>W1</th>
<th>H1</th>
<th>P</th>
<th>Lmax</th>
<th>H1</th>
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<tr>
<td>ARU 55</td>
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<td>45.7</td>
<td>120</td>
<td>45.7</td>
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### Ordering Information

**Model code**

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<th>ARC</th>
<th>U</th>
<th>55</th>
<th>M</th>
<th>N</th>
<th>B</th>
<th>2</th>
<th>V1</th>
<th>P</th>
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<th>-20</th>
<th>-20</th>
<th>I</th>
<th>J</th>
</tr>
</thead>
</table>

- **Customization code**: For more detailed information please refer to catalog ARC/HRC/ERC Ball Type Linear Guide Series, page 14.
- **Number of rails on the same moving axis**
- **End hole pitch (mm)**
- **Rail length (mm)**
- **Accuracy grade**: UP, SP, P, H, N
- **Preload class**: VC, V0, V1, V2
- **Block quantity**: S: Standard
- **Block length**: L: long N: standard
- **Block width**: M: standard F: flanged
- **Block type**: 15, 20, 25, 30, 35, 45, 55

**U: rail (tapped from the bottom)**

**Product type**: ARC: automation series HRC: heavy load series

**Note**: If there is any customization need, please contact CPC for more information.

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