NSK Linear Guides™
Roller Guide Equipped with V1 Seal

Newly developed, highly dustproof V1 seals help extend the service life under an environment with a high level of foreign matter. This new product is ideal for environments where dust is generated from graphite, sintering and ceramic machining.

■ Features

1. V1 Seal
   Equipped with V1 seals (highly dustproof end seals) made with new materials and in a new shape, for better abrasion resistance. Less foreign matter gets into the roller slides for a longer service life. Additional sheets of V1 seals may be used depending on the condition and use environment.

2. Enhanced dustproof performance achieved by the rail cover
   By covering the mounting bolt holes, the rail cover prevents foreign matter from building up around the mounting bolt holes and getting into the roller slide.

3. “NSK K1™” Lubrication Unit
   Outstanding lubrication effects by NSK K1 further improves the durability. Additional sheets of NSK K1 may be used depending on the condition and use environment.
**NSK K1™ Lubrication unit**

Made of porous synthetic resin containing a large amount of lubrication oil. When moved through contact with the raceway surface, it supplies fresh lubricating oil.

**Rail cover**

Covers the top surface of the rail and prevents foreign matter from entering in rail mounting bolt holes.

### Durability test under extreme conditions - no lubrication

With this new material, even if lubrication is poor, damage such as roughening of surfaces will not occur.

- **Test condition**
  - Test sample: RA35
  - Operation without lubrication on the seal
  - Feed speed: 30 m/min

### Applicable models

RA35, RA45 and RA55

### Dimensions for roller slide with V1 seals

<table>
<thead>
<tr>
<th>Model</th>
<th>Roller slide length L</th>
<th>Thickness of V1 seal</th>
<th>Thickness of NSK K1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Equipped with standard seal</td>
<td>Equipped with V1 seal</td>
<td>Equipped with V1 seal and NSK K1</td>
</tr>
<tr>
<td>RA35</td>
<td>AN, AL, EM</td>
<td>123.8</td>
<td>127.8</td>
</tr>
<tr>
<td></td>
<td>BN, BL, GM</td>
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<td>AN, AL, EM</td>
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<td></td>
<td>BN, BL, GM</td>
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<tr>
<td>RA55</td>
<td>AN, AL, EM</td>
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<td></td>
<td>BN, BL, GM</td>
<td>234</td>
<td>239.2</td>
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For more information about NSK products, please contact: [www.nsk.com](http://www.nsk.com)

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