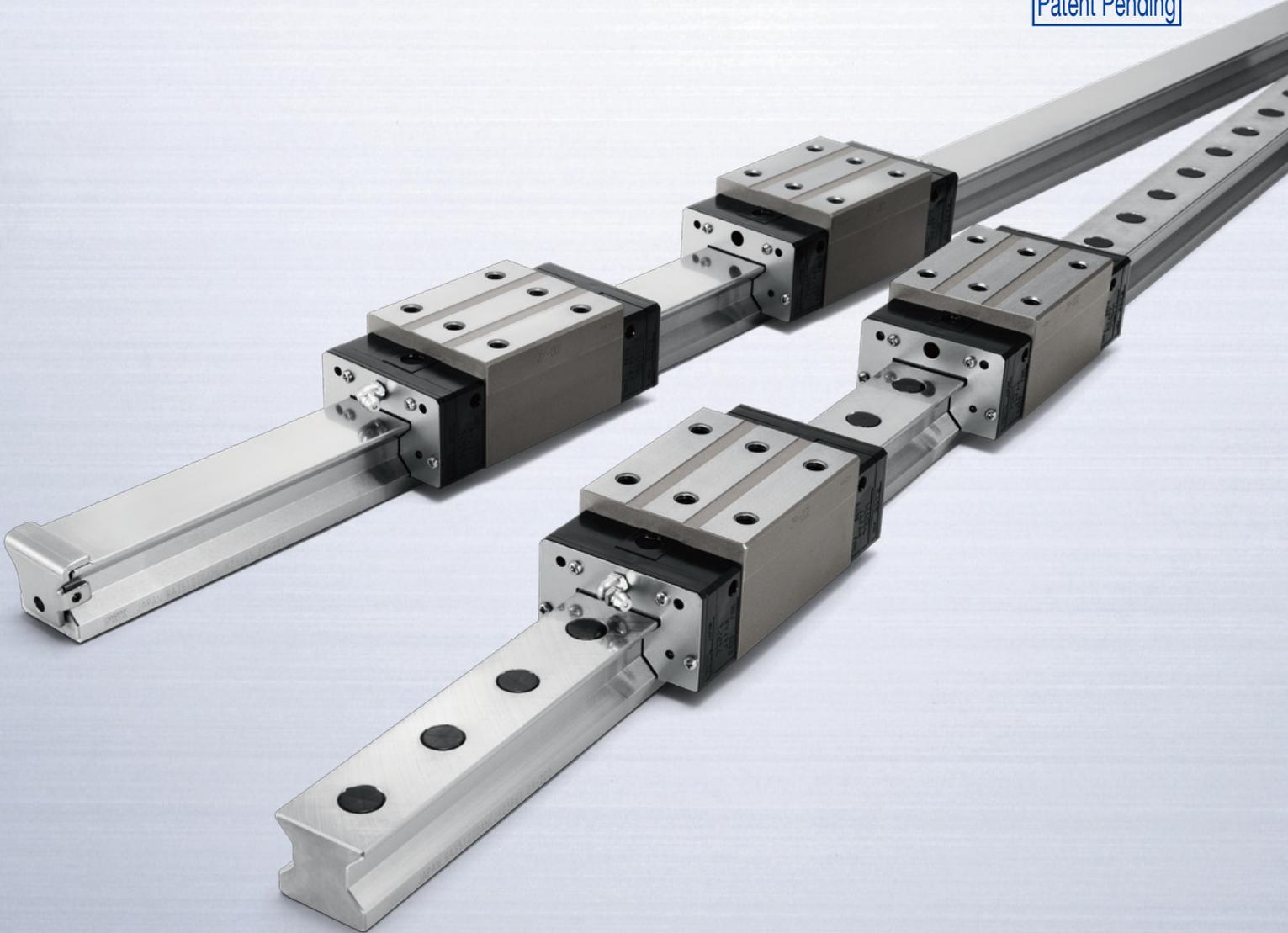


# NSK Linear Guide™ Roller Guide Equipped with V1 Seal

Newly developed, highly dustproof V1 seals help extend the service life under an environment with a high level of foreign matter.

New!

Patent Pending



## ■ Features

### 1. Maintain high dustproof performance for a long period

Equipped with V1 seals with an enhanced abrasion resistance, this new linear guide will maintain dustproof performance for a long period, thereby contributing to the long service life of the machine tool.

### 2. High-rigidity linear guides optimal to machine tools

Developed based on the RA Series roller guides with an excellent track record in applications to machine tools.

### 3. "NSK K1™" lubrication unit

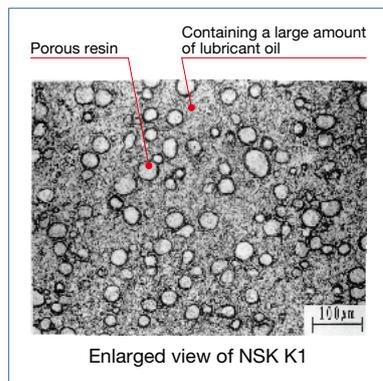
Outstanding lubrication effects by NSK K1 further improves the durability.

### 4. Rail mounting hole caps and a rail cover

These parts eliminate building up of foreign matter in and around the rail mounting holes, thereby preventing foreign matter from entering into the roller slide. Select either the rail mounting hole caps or the rail cover.

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## NSK K1™ Lubrication unit



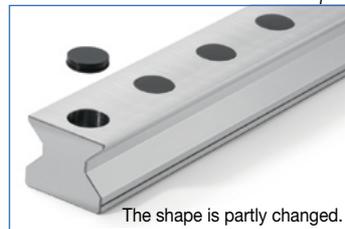
Made of porous synthetic resin containing a large amount of lubrication oil. When moved through contact with the raceway surface, it supplies fresh lubricating oil.

## Rail cover (optional)

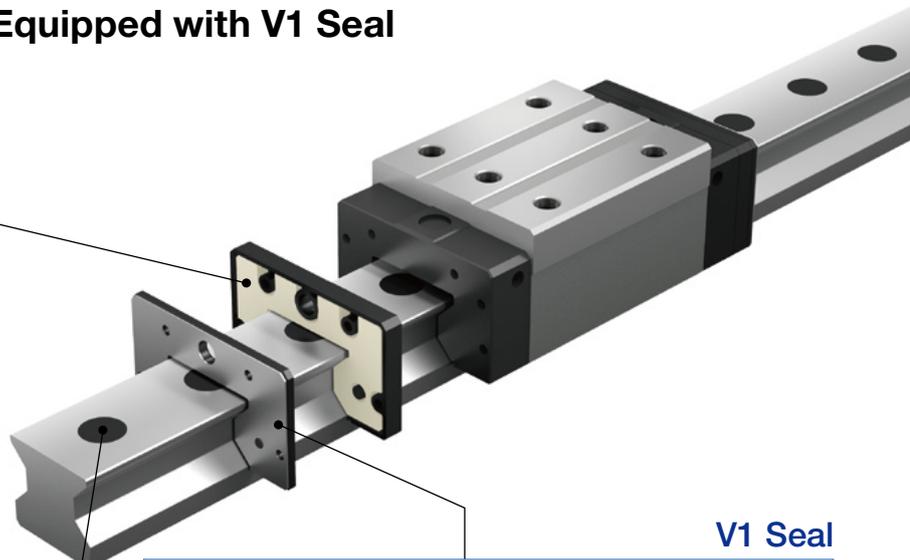


Covers the top surface of the rail and prevents foreign matter from entering in rail mounting bolt holes.

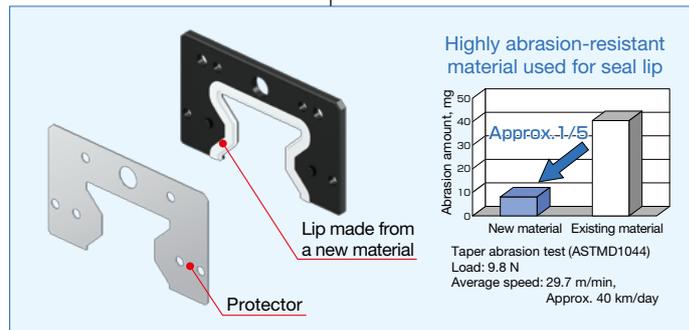
## Rail mounting hole caps



These caps prevent foreign matter from building up inside the rail mounting holes.



## V1 Seal



V1 Seal made of new materials and in a new shape for better abrasion resistance prevents foreign matter getting into the roller slide for a long period.

## 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.

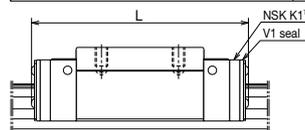
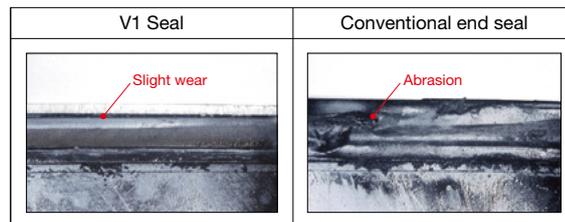
〈Test condition〉

- 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 seal



Unit: mm

Model	Roller slide length L			Thickness of V1 seal	Thickness of NSK K1
	Equipped with standard seal	Equipped with V1 seal	Equipped with V1 seal and NSK K1		
RA35	AN, AL, EM	123.8	127.8	3.4	6.5
	BN, BL, GM	152	156		
RA45	AN, AL, EM	154	159.2	4	7
	BN, BL, GM	190	209.2		
RA55	AN, AL, EM	184	189.2	4	7
	BN, BL, GM	234	239.2		

⚠ Since the sealing property (resistance to foreign matter) is affected by usage or the lubrication environment, please conduct an evaluation test for your particular application.

⚠ Observe the following precautions to maintain the long-term efficiency of the performance seals:

Permissible temperature range ----- Maximum operating temperature: 50°C, Maximum instantaneous peak temperature: 80°C

Chemical precautions ----- Never leave the linear guide near grease-removing organic solvents such as hexane or thinner.

Never immerse the linear guide in kerosene or rust preventive oils which contain kerosene.

For more information about NSK products, please contact: [www.nsk.com](http://www.nsk.com)

