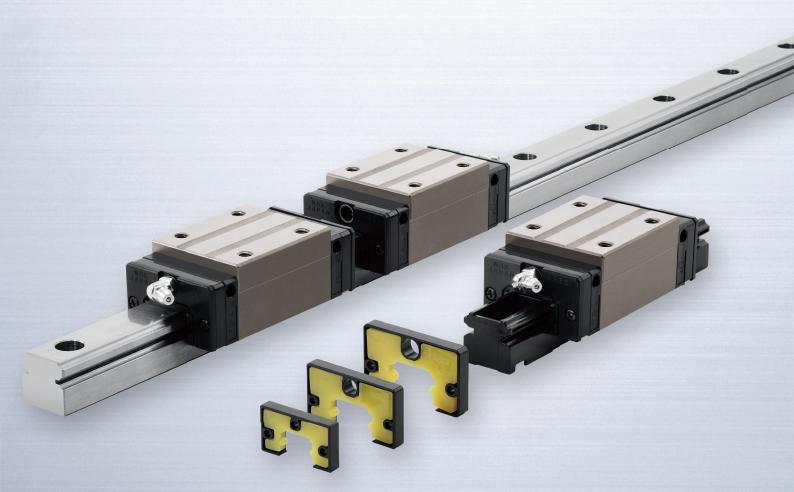
NSK Linear Guide™ NSK K1-L Lubrication Unit

MOTION & CONTROL^M



Extend maintenance interval by improving lubricating oil supply capacity



■ NSK K1-L Features

 Low Maintenance, Longer Lasting Lubricating Oil Supply Newly developed oil-impregnated material supplies lubricating oil for even longer than the revolutionary original K1, contributing to extended machine maintenance intervals.

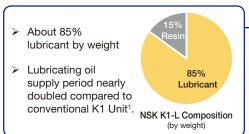
2. Lower Dynamic Friction Force

Lubrication unit reduces dynamic friction force when driving the ball slide, contributing to energy savings during machine operation.

NSK K1-L Lubrication Unit for NSK Linear Guide™

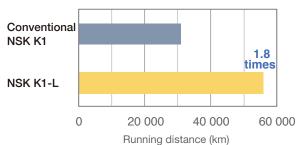
NSK K1-L is made of porous synthetic resin containing abundant lubricating oil. The oil gradually seeps out, thereby lubricating the linear guide over a long period.

NSK K1-L Lubrication Unit



¹Compared with conventional NSK K1 unit. Lubrication performance is affected by operating environment. No warranty is given regarding lubrication performance in actual usage in machinery

■ Durability Test Result



: NH25 (slight preload)

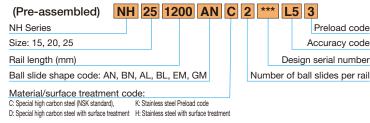
Sample : NH25 (slight preload Lubrication : Only lubrication unit

Feed speed : 3.2 m/sec Stroke : 2.5 m

Applicable Models

NH15, NH20, NH25

■ Designation for Preloaded Assembly



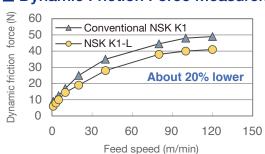
Designation for Random-Matching Type



For more information about NSK products, please contact:-

■ Dynamic Friction Force Measurement Result

End seal



Sample : NH25 (slight preload)

Lubrication : Lubrication unit and AS2 grease

Feed Speed : 1 to 120 m/min

Handling Precautions

- 1. Permissible operating temperature: 50°C maximum (80°C can be tolerated for brief periods)
- Chemicals that should not come into contact with NSK K1-L:
 Do not leave NSK K1-L in organic solvents, such as hexane or
 other thinners that remove oil, nor in anti-corrosion agent containing
 kerosene.

Accuracy Code

	Preload assembly					Random-matching	
	Ultra precision	Super precision		Precision grade	Nomal grade	High grade	Normal grade
Without NSK K1-L	P3	P4	P5	P6	PN	PH	PC
NSK K1-L	1.3	14	L5	1.6	LN	LH	LC

Preload Code

Pre	loaded Assen	nbly	Random-matching		
Fine clearance Z0	Slight preload Z1	Medium preload Z3	Fine clearance ZT	Slight preload ZZ	Medium preload ZH
0	1	3	T	Z	Н

NSK K1-L Thickness²

Model No.	Thickness (mm)
NH15	5.3
NH20	5.3
NH25	5.8

²Same dimensions as conventional NSK K1 However, when mounting NSK K1-L, ball slides will be longer than conventional products.

-www.nsk.com



NSK Ltd. has a basic policy not to export any products or technology designated as controlled items