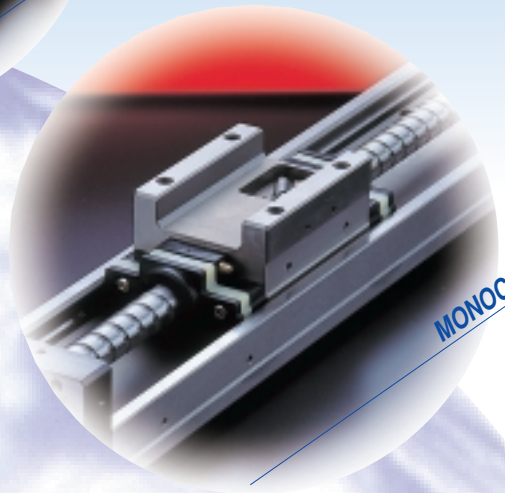




**NSK LINEAR GUIDE**



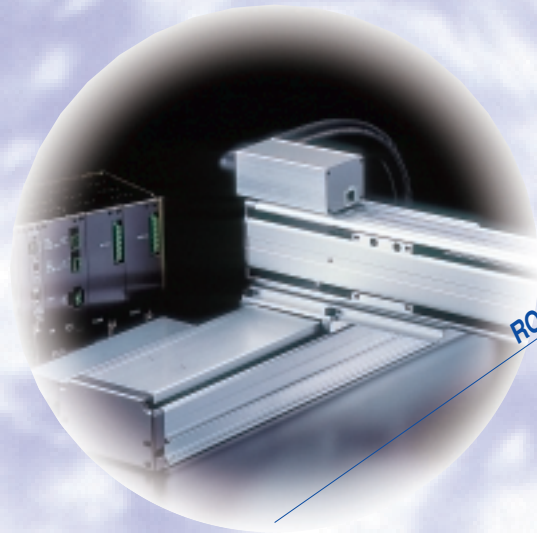
**BALL SCREW**



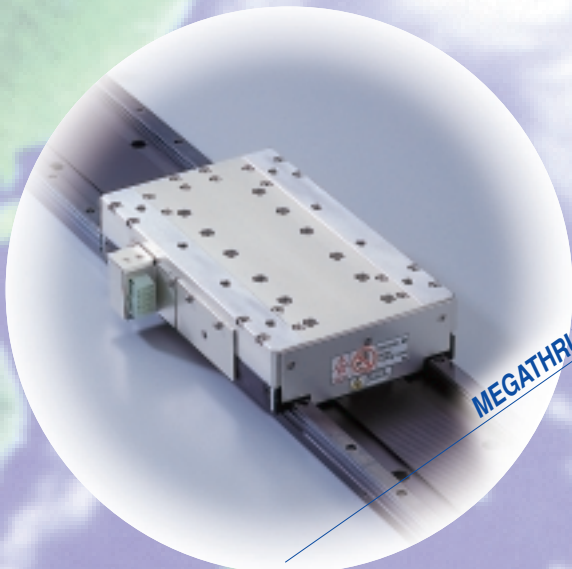
**MONOCARRIER**

## NSK Maintenance-free Products

- NSK**
- Linear Guide
  - Ball Screw
  - Monocarrier
  - Robot Module
  - Megathrust Motor



**ROBOT MODULE**

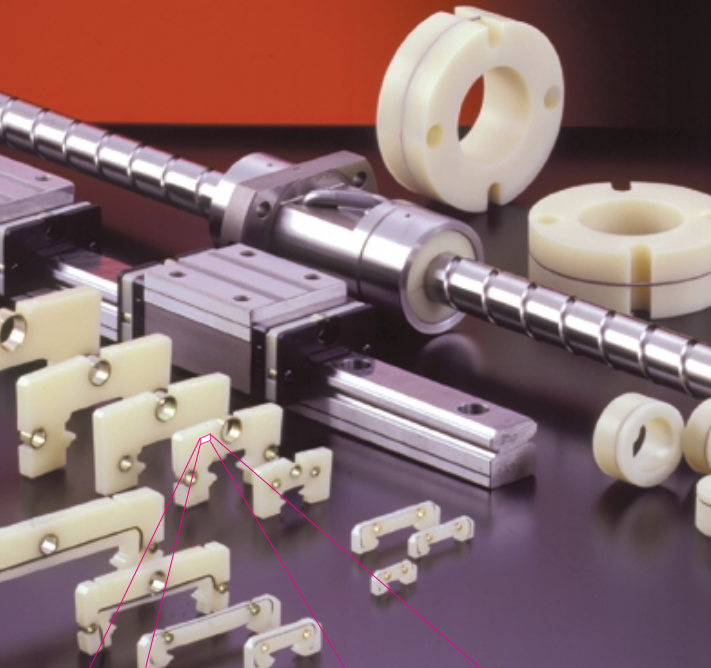


**MEGATHRUST MOTOR**

### Solution for the "Century of Environment"

In response to the social requirements of the new era, companies must take an active interest in preserving the global environment while maintaining cost competitiveness. The NSK K1 Lubrication Unit, installed on the Maintenance-free series, helps ensure your company's success.

# NSK's long-life, maintenance-free products with the **NSK K1** Lubrication Unit



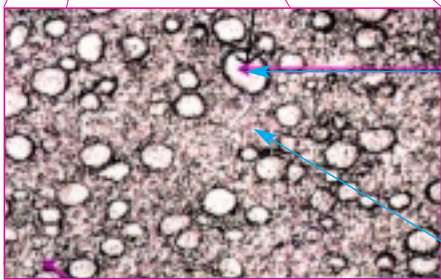
NSK K1 Lubrication Unit boosts machine efficiency while protecting the global environment.

## What do we mean by long-life, maintenance-free products?

A ball screw and linear guide with the NSK K1 Lubrication Unit will not require operational maintenance for five years or 10,000 km.

## What is the NSK K1 Lubrication Unit?

NSK K1 uses porous resins containing abundant lubricants to form an integral molded unit. Fresh lubricating oil is steadily provided from the NSK K1 as it moves along the rail or shaft surface.



Enlargement of NSK K1 Lubrication Unit | 100 μm

### Polyolefin

Polyolefin is used for food packaging in place of vinyl chloride which may generate dioxin.

### Lubricating oil

The oil is made from mineral oil with 100 cSt viscosity.

Realization



## 1 Long life, maintenance-free

- Reduced time for designing pipe arrangements.
- Reduced parts costs, since pipes and lubrication equipment are not required.
- Reduced installation time for pipes and lubrication equipment.
- Reduced materials costs, since the supply of grease or oil is not required over a long period of time.
- Reduced personnel expenses for regular maintenance.
- Reduced costs for disposal of industrial waste.

### Economic operation

Costs for parts, materials and disposal can be drastically reduced

Personnel expenses are drastically reduced

Realization



## 2 Consideration for global environment

- Lubricant does not splatter onto surrounding areas.
- Lubricating oil will not contaminate coolant.

### Environmental considerations

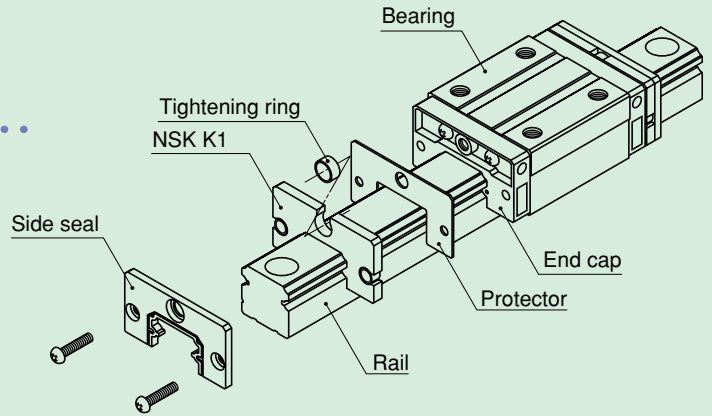
Helps maintain clean environment

No decomposition or bad odors

## Maintenance-free Series NSK Linear Guide

Performance is enhanced by installing NSK K1  
Lubrication Unit on NSK Linear Guide.

Application series:  
LH/LS/LW/LU/LE/LY/LA



Example of  
specification  
number:

**LH 30 1000 FL C2 - 01 K 53**

K1 Installed  
Linear Guide Code

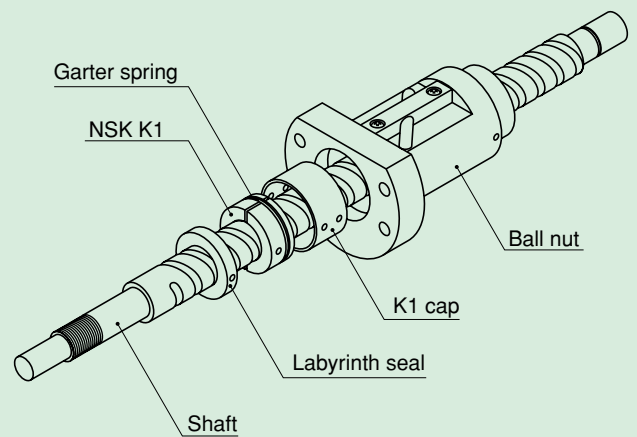
## Maintenance-free Series NSK Ball Screw

Performance is enhanced by installing NSK K1  
Lubrication Unit.

Example of  
reference  
number:

**W2003 - 1P K1 - C5Z10**

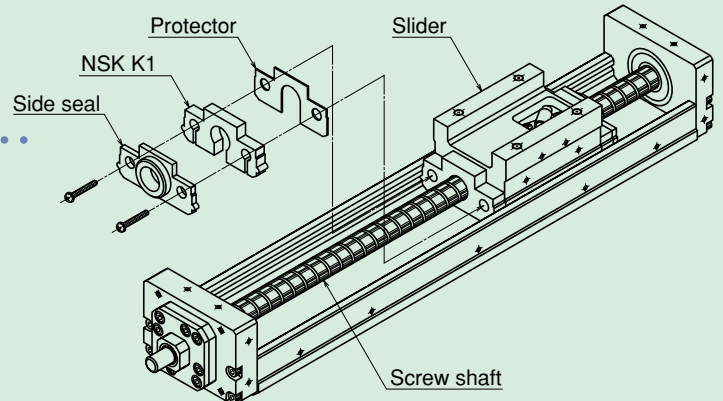
K1 Installed  
Ball Screw Code



## Maintenance-free Series NSK Monocarrier

Monocarrier is enhanced by installing NSK K1  
Lubrication Unit.

Application series:  
MCM05/MCM06/MCM08/MCM10



Example of  
specification  
number:

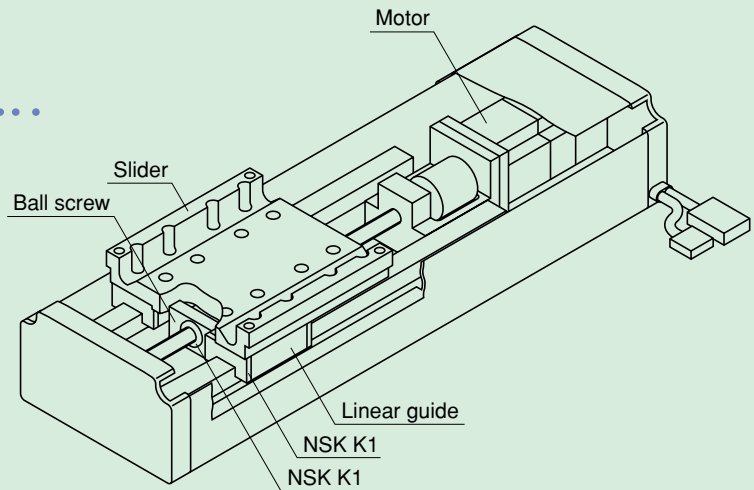
**MC M 10 040 H 10 K**

K1 Installed  
Monocarrier Code

## Maintenance-free Series NSK Robot Module

NSK K1 Lubrication Unit is installed on  
NSK Linear Guide and NSK Ball Screw.

Application series: P



Example of  
reference  
number:

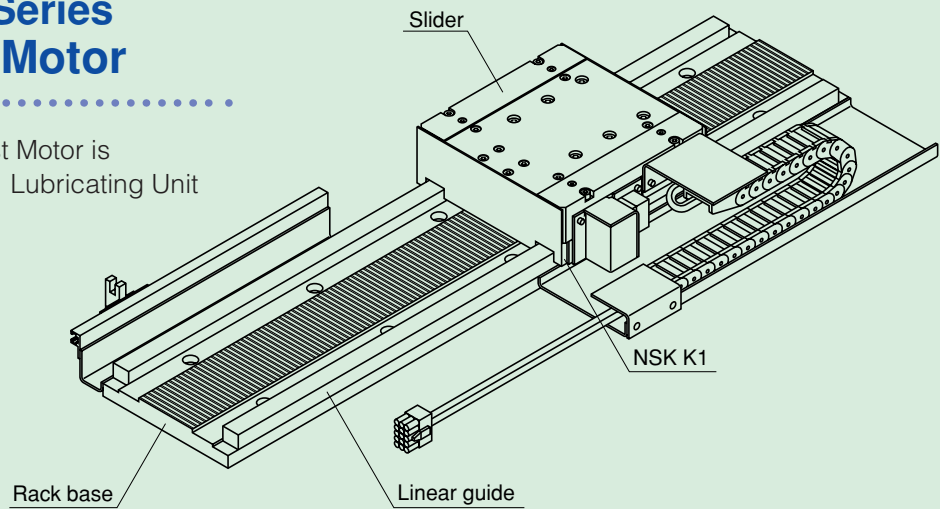
**XY-HRS 030 - P H 2 00**

K1 Installed Robot Module Code

## Maintenance-free Series NSK Megathrust Motor

The performance of Megathrust Motor is  
enhanced by installing NSK K1 Lubricating Unit  
on NSK Linear Guide.

Application series: Y



Example of  
reference  
number:

**ML - YA21120 A 01AA13C**

K1 Installed  
Megathrust Motor Code

For details, please contact the representative below or NSK.

NSK representative: