

## Success Story

Industry: Quarrying, Mining and Construction

Application: Ceramic Roof Tile Manufacturer

**Cost Savings: € 4 950**

### Introduction

A premium roof tile manufacturer was using considerable labour resources on a weekly basis in order to re-grease the ball sliders assembled in their handling machinery in many different locations around the factory. This situation resulted in high maintenance costs, repetitive problems and inconsistent performance ending in lost production.

### Key Facts

- High labour costs, manual process
- Contamination and dust ingress
- Poor lubrication
- Fixed preload and smooth linear motion requirement



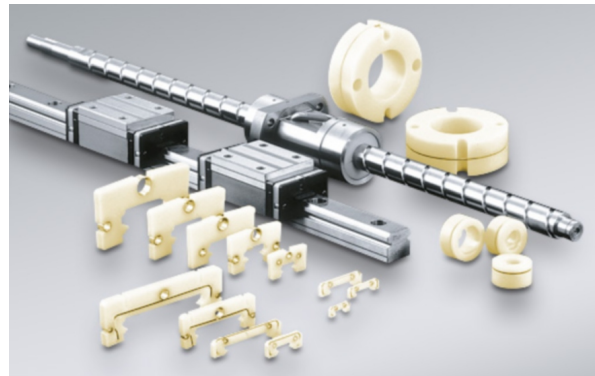
↑ Slide with solid lubrication K1 system

### Value Proposals

- Application review highlighted lubrication and sealing needed improving
- Introduced the solid lubrication system K1
- Improved sealing and protection
- Preload maintained longer due to reduced wear
- Reduced running friction resulting in reduced actuator pressure needed for same operation ( 6 to 4 bar)




## Product Features

- Long-term, maintenance-free operation
- Available in accordance with the FDA
- Effective sealing function
- Applicable to all the linear guide models
- Regardless of the mounting orientation the operation of K1 units is always guaranteed
- Designed to operate in highly polluted environments



↑ Internal structure of K1 system

## Cost Saving Breakdown

Before	Cost p.a.	NSK Solution	Cost p.a.
 €550/ machine x 6 machines	€3.300	€475/ machine x 6 machines	€2.850
 52 re-greases x 30min / machine x 6 machines x 30€ hour / operation	€4.680	2 re-greases x 30min / machine x 6 machines x 30€ hour / operation	€180
 52 re-greases x 30min / machine x 6 machines = 156 hours		2 re-greases x 30min / machine x 6 machines = 6 hours	
<b>Total Costs</b>	<b>€ 7 980</b>		<b>€ 3 030</b>