



CONTEXT OF THE CUSTOMER'S CHALLENGE

Place: Italy

Application: Manufacturer of automatic vertical warehouse

Conditions for use: Systems sent around the world, indoor installation in dusty environments

Customer requirements: Increase the reliability and durability of the systems, limit complicated maintenance operations:

- Difficult access to the upper pulley bearings "complicated changing and re-greasing"

Product in use: Standard open spherical roller bearings

NTN'S RECOMMENDATION

- KIZEI® is 100% interchangeable with the standard market open solutions
- Shields provide dust protection
- Increased grease retention inside the bearing

RESULTS

► For the manufacturer:

- In two years of integrating the KIZEI® solution, no bearing failure has been observed on all the systems sent
- Removal of the automatic lubrication system used on the former open solution, KIZEI® retains the grease inside the bearing under the conditions of the application

► For the end user:

- Increase in the operation lifetime of its storage devices and therefore better profitability of its investments
- Savings on maintenance operations, no re-lubrication and no need to use a lubricant cartridge

NTN SOLUTION BENEFIT

	Standard Open solution	KIZEI® solution
Maintenance frequency	Average of 1 per year	None after 2 years of operation
Automatic lubrication system	Mandatory	Useless

On more than 100 vertical storage systems shipped per year worldwide