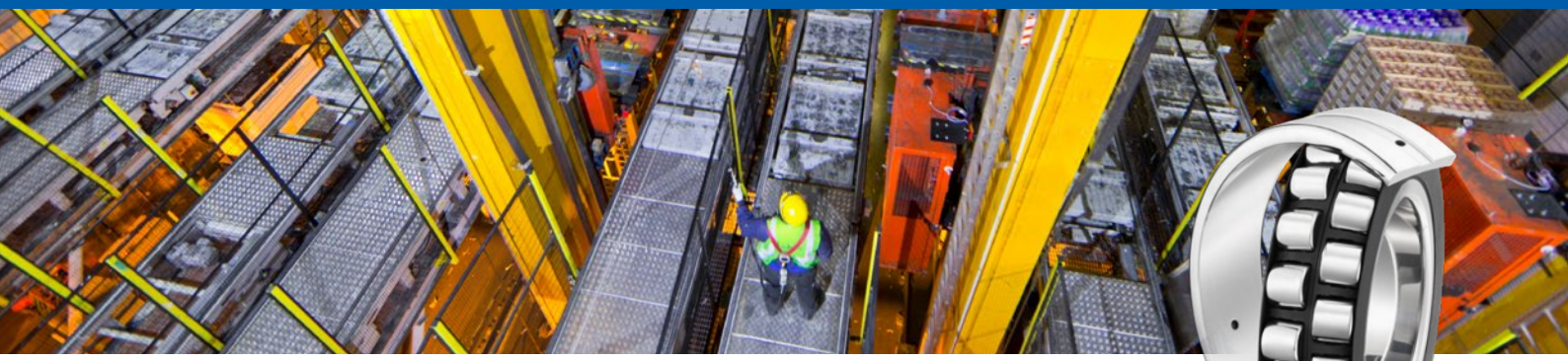
Brand of **NTN Group**

SUCCESS STORY
Automated vertical storage solution



Context of the customer's problem

Location: Italy

Application: Automatic vertical warehouse

Application conditions: Systems sent around the world, indoor installation in dusty environments

Customer requirements: To improve the reliability and durability of the system, reduce complex maintenance operations, particularly those involving difficult access to the upper pulley bearings for replacement and re-greasing

Product in use: Standard open spherical roller bearings

NTN's recommendation

- ROX is a solution that is 100% interchangeable with standard open ISO solutions on the market
- Deflectors provide protection against dust
- Increased grease retention inside the bearing

Results

▶ For the manufacturer:

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

▶ For the end user:

- Increased operation lifetime of storage devices and therefore better profitability of investments
- Reduced maintenance operations, no re-lubrication and no need to use a lubricant cartridge

	Maintenance frequency	Automatic lubrication system	CUSTOMER BENEFIT
Previous solution	**1** (per year on average)	Required	**ROX* solution**
New ROX solution	**0** (after 2 years of service)	**Not required** (reduction in maintenance)	Minimum 50% reduction in maintenance

* In more than 100 vertical storage systems shipped per year worldwide

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