

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

ROX

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	
New ROX solution	0 (after 2 years of service)	Not required (reduction in maintenance)	

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

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