



Rolling on Vulkollan® based wheels, material handling is running continuously

In automotive, intralogistics or Hospital & Health care applications, transport equipment failure due to a material breakdown is not an option. Thanks to Vulkollan® elastomers, warehouses equipped with Automated Guided Vehicles (AGV) can run continuously. Covestro provides RÄDER-VOGEL with the material to manufacture high performance and long-lasting wheels.

Add durability and reliability to pickup and delivery routines

Modern automotive, intralogistics, Hospital & Health care installations are equipped with transportation robots: known as Automated Guided Vehicles (AGV), they are running 24/7. These warehouse equipment must therefore provide a durable and reliable service.

Equipped with Vulkollan® based wheels, AGVs are able to deliver a most reliable service. Thanks to their extremely high resistance to wear and their long stability, Vulkollan® elastomers provide these transportation robots with a low maintenance and long lasting solution.



Main benefits of Vulkollan® based wheels

Durability and reliability: main assets of Vulkollan® elastomers

Vulkollan® based wheels are known for their outstanding service-life. Nevertheless, they do not remain for ever: at some point, the wheels need to be replaced. Due to the very high tear and shear resistance of Vulkollan®, the wheels not only have a longer service life, but also better predictability for replacements. When other types of wheels may break suddenly, Vulkollan® wheels not only show extended durability but also afford ample time to schedule maintenance upon initial signs of wear. This is a great help to predict the right time to replace and do not damage the "just on time" principle which is key for AGV based installations.

Vulkollan® wheel failure rate*

2018	0.2%
2019	0%
2020	0.4%
2021	0.2%
2022	0%
2023	0%

*Figures based on the customer satisfaction for AGV wheels made of Vulkollan®

At first sight, the routine and slow transport of parts by AGV looks like to be easy and simple. But it is not : sharp curves and 24/7 reliable service will always require the most reliable material for our customers. Our wheels made of Vulkollan® are the allrounder that can achieve this target.

Tobias Gercke, Managing Director at RÄDER-VOGEL

RÄDER-VOGEL® 
FOR BETTER WHEELS AND BETTER SERVICE

A new AGV installation represents a significant investment for our customers, but with an expected high return on investment. Thanks to their unique robustness, the Vulkollan® wheels from RÄDER-VOGEL in first mount, and as spare parts, are the perfect wheels that allow our AGV installation to run smoothly.

Kurt Ammerstorfer, Head of Sales, Product management & Marketing at DS Automation

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¹ Please see the «Guidance on Use of Covestro Products in a Medical Application» document.