

Speedcargo & Güdel Announce Launch of Air Cargo Automation System for ULD Palletizing

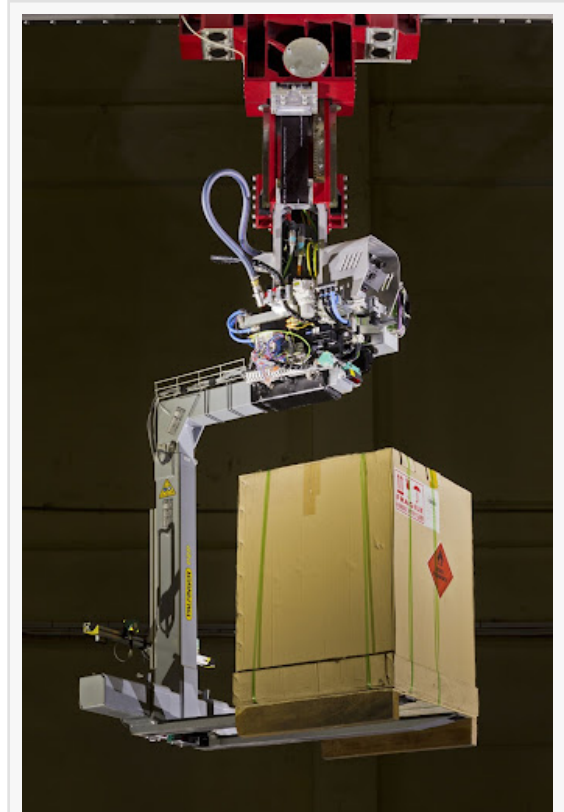
The robotic system is the first-of-its-kind end-to-end automatic material handling solution for air freight.

MUNICH, GERMANY, May 2, 2023 /EINPresswire.com/ -- [Speedcargo](#), a tech start-up that offers A.I. and robotics solutions for air cargo in partnership with [Güdel](#), a manufacturer of high-precision machine components and a provider of sophisticated automation solutions announce the world's first fully-automated robotic freight handling solution for air freight.

The new robotic system is expected to change the way air freight ground handlers store and move cargo at airports around the world. This robotic system is capable of handling cargo of a variety of sizes and weights, even odd-shaped cargo.

"As wages rise and labor shortages worsen, air freight handling will become increasingly automated. Our partnership with Speedcargo allows us to take advantage of the potential of pick-and-place applications when combined with artificial intelligence."

-Matthias Vogelsanger, CTO Güdel Group



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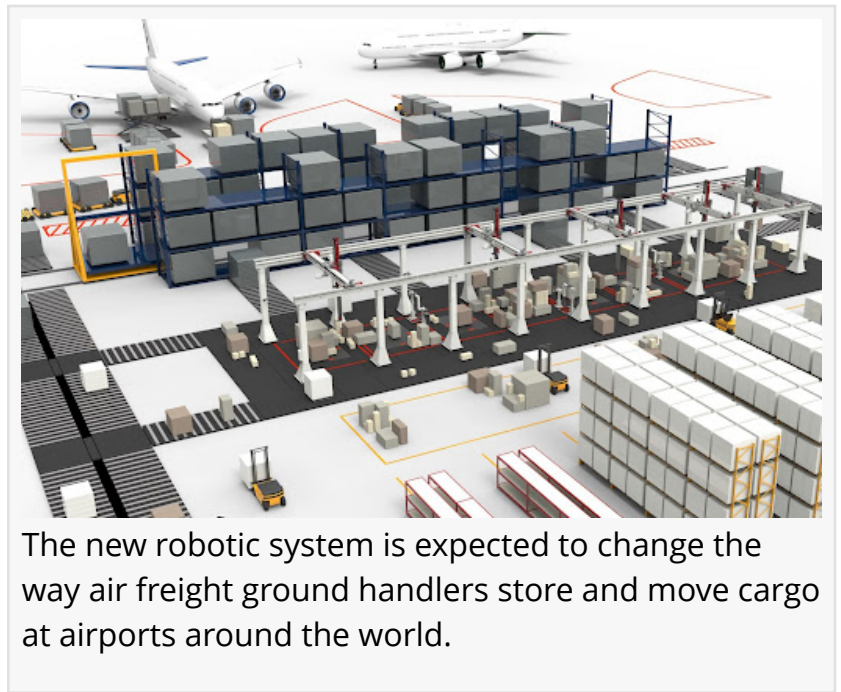
The system will improve three key ground handling operations by combining Güdel's advanced gantry robots and decades of intralogistics automation expertise with Speedcargo's advanced computer vision, optimization and intelligent robotics software.

First, the system improves cargo acceptance by creating express automated lanes with a seamless integrated process for weight, dimension and x-ray checks. This enables continuous cargo throughput at the acceptance gates and ready-for-carriage cargo to be moved to the buffer zone.

Secondly, the system allows for an automated buffer for storage and retrieval. Accepted cargo

will be intelligently and efficiently stored and managed to enable precise and fast retrieval for a flexible and optimized ULD build-up. The system allows storage space to be managed dynamically, allowing the warehouse to be used to its full capacity.

Thirdly, the system automates ULD build-up. A.I. optimized ULD build-up plans are automatically executed using precision gantry robots while a centralized control system ensures that the cargo is fed to the palletizing robot in an optimized sequence that results in a fast, reliable and secure build-up. The system is also equipped with a range of sophisticated grippers and sensors to ensure that high-mix cargo is handled with a very high degree of safety and reliability.



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Automated cargo handling solutions will address some of the key challenges faced by the industry around labor constraints due to demographic trends.

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*Dr. Krishna Kumar Nallur,
CEO Speedcargo*

There is a dwindling number of trained and experienced cargo handlers. This trend has been accelerated by the Covid pandemic and ongoing retirements. New entrants to the workforce are less willing to do labor-intensive jobs, which involve both mundane tasks and hazardous heavy lifting. Robotic technologies and automation will make air cargo handling attractive to the next generation by upskilling the workforce and creating an environment that

focuses on managing and controlling digital systems.

Automation also addresses space constraints. Increased cargo volumes are continuously putting pressure on warehouses, increasing demands on space and impacting handling safety and quality. Automation will not only increase cargo throughput but also save space and maximize the utility of existing infrastructure.

Lastly, automation establishes consistency and safety in quality handling. The existing handling process depends on trained and experienced handlers on the ground. With processes that rely on human labor, errors and delays are inevitable, especially with a fluctuating labor force and

space constraints. Automating the cargo handling process will ensure consistent, safe, and quality handling with continuous 24x7x365 operations.

“Automation addresses key issues the air cargo industry is facing now and it will become a foundational building block for future airfreight operations. ”

-Dr. Krishna Kumar Nallur, CEO Speedcargo

To learn more, Speedcargo and Güdel will be presenting the new system at [Air Cargo Europe](#), at Messe München in booth B2.254 from May 9-12, 2023.

About Speedcargo Technologies Pte Ltd

Speedcargo Technologies brings innovative solutions that use computer vision technologies, robotics and advanced algorithms to transform the air cargo industry. Speedcargo's suite of products help Airlines and Ground Handlers improve their revenue realization, optimize capacity utilization, upgrade cargo handling and maximize efficiency in operations. Based in Singapore, Speedcargo is a spin out from Technical University of Munich (Germany) (TUM) – CREATE and its products have been developed, tested and deployed in live operations.

www.speedcargo.sg

About Güdel

The Güdel Group, a Swiss manufacturer of high-precision machine components and provider of sophisticated turnkey automation solutions, offers in-depth experience in intralogistics and material handling. The product spectrum ranges from linear guideways, racks, pinions and drives right through to linear tracks for robots and gantries. Güdel's technology is characterised by innovation, quality and modularity. The Güdel Group is headquartered in Switzerland and has a strong footprint with around 20 locations worldwide.

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