

AGILOX launches Omnidirectional Free Lifter AMR

- **automated material flows without infrastructure changes**
- **effortless operation at elevated stations up to 1.2 m**
- **smart detection of available storage slots using laser distance sensors**
- **new generation of AGILOX obstacle avoidance based on 3D sensors**
- **AI-based X-SWARM technology – no additional middleware needed**

(Neukirchen bei Lambach, March 11, 2025): AGILOX Services GmbH, the leading technology company for autonomous mobile robots (AMR) in Neukirchen bei Lambach, is expanding its product portfolio once again and presenting a scissor-free and AI-supported Free Lifter. The AGILOX OFL is revolutionizing logistics processes by making it possible to deliver, stack and store pallets and other load carriers without any changes to the infrastructure.

The answer to logistical challenges: AGILOX OFL

Under the motto “Growing our product family. Expanding your possibilities.”, the AGILOX OFL (Omnidirectional Free Lifter) complements the existing portfolio and opens up new possibilities in automation. The omnidirectional stacker is a scissor-free, AI-controlled AMR. For the first time, AGILOX offers its customers the possibility to effortlessly transport and lift pallets and customized load carriers weighing up to 800 kg (1,764 lbs) to a station height of up to 1,200 mm (47.2 in) without having to change existing infrastructure. The AGILOX OFL sets a new standard in material handling and ensures smooth processes.

Ease of use and maximum security as core competencies

With the AGILOX OFL, the technology company continues to focus on its core values: simple operation, effortless integration and safe use. These principles are consistently reflected in the outstanding USPs:

- The AGILOX OFL has an optimized scanner and sensor design that ensures a seamless 360° protection zone thanks to the arrangement of the safety laser scanners. This is complemented by a new generation of AGILOX obstacle detection “Obstacle Avoidance”

with 3D sensors and overlapping fields of view, for additional safety. This combination enables fully autonomous operation - even in the event of unforeseen incidents.

- Thanks to the laser distance sensors in the raised forks, it is possible to check whether the raised parking space is occupied or free, ensuring maximum safety.
- For even more user-friendly operation, there is now an integrated display that provides a transparent overview of the AMR status and thus shortens response times. In addition, an innovative access concept simplifies maintenance and provides quick and easy access when needed.

Fast time to market

Existing hurdles in material handling should be overcome quickly, safely and easily. AGILOX has decided on a two-stage market launch in order to be able to quickly offer a solution to the increasing customer demand. With the launch in 2025, the AGILOX OFL will be available with a payload of 800 kg (1,764 lbs); in the next development stage, the payload will be increased to up to 1,200 kg (2,645 lbs).

Technical details: AGILOX OFL

Specification	Measurement
Dimensions (L x B x H)	1,655 x 800 x 1,988 mm (65,2 x 31,5 x 78,3 in)
Dead weight	575 kg (1268 lbs)
max. Lifting Weight	800 kg/ 1,200 kg (1,764 lbs / 2,645 lbs)
max. Station Height	1,200 mm (47.2 in)
Turning Circle	2,200 mm (86,6 in)
min. Passage width	1,400 mm (55.1 in)
min. Aisle width	1,600 mm (63 in)
max. Speed	1.4 m/s (4.6 tf/s)
Drive units	4x omnidirectional drive units

The AGILOX X-SWARM Technology

Building upon the existing product range, the AGILOX OFL is again based on the innovative X-SWARM technology. This ensures seamless interaction between the AGILOX OFL and other AGILOX AMR models in a swarm. Fleets can be quickly and easily expanded within a few hours. The vehicles in a swarm are in direct communication with each other, transmitting their position and status several times per second.

Together, they manage a pool of transport orders and distribute them intelligently among each other - this is achieved through the targeted use of sophisticated AI functions. The AMRs automatically provide the goods according to the order, find their own route, and flexibly adapt to changes in the environment.

If one robot fails, the remaining AMR swarm takes over responsibility and ensures a reliable flow of goods. Shortages are minimized and throughput times on transport routes are optimized fully automatically. Thanks to fast charging, each AMR is ready for use again within a few minutes.

About AGILOX Services GmbH

AGILOX Services GmbH is the technology leader for autonomous mobile robots (AMR) for transport processes in warehouse and production logistics. Since its foundation in 2017, AGILOX has focused on the integration of artificial intelligence in order to continuously optimize the functionality and safety of its smart robots.

With more than 1,800 AMRs in use and renowned global customers such as Siemens, BMW, Bosch and Daimler, AGILOX is one of the leading general providers of scalable fleets of autonomous transport solutions.

Headquartered in Neukirchen near Lambach, Austria, AGILOX Services GmbH has subsidiaries in Europe, the USA and China and employs more than 250 people worldwide.

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Contact:

AGILOX Services GmbH

Industrial Park 3

A-4671 Neukirchen near Lambach

T: +43 7245 93083 - 0

E-Mail: office@agilox.net

Press contact:

AGILOX Marketing

E-Mail: marketing@agilox.net