

# Agilox



TRUST THE  
WORLD'S EASIEST  
AMR SOLUTION.

REDEFINING MATERIAL HANDLING

[agilox.net](https://agilox.net)

# Behind every big dream there are visionaries.

We are a team of inventors, creators, experts, progressive forward thinkers, driven by technology leadership and the passion for solving your challenges. We want to make our customers' life easier and by keeping that in mind, we have developed the world's easiest Autonomous Mobile Robot (AMR) solution.

## REFERENCES

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**SIEMENS**

**Mondelēz**  
International



**BOSCH**

**BMW  
GROUP**



**Steelcase**

**DHL**



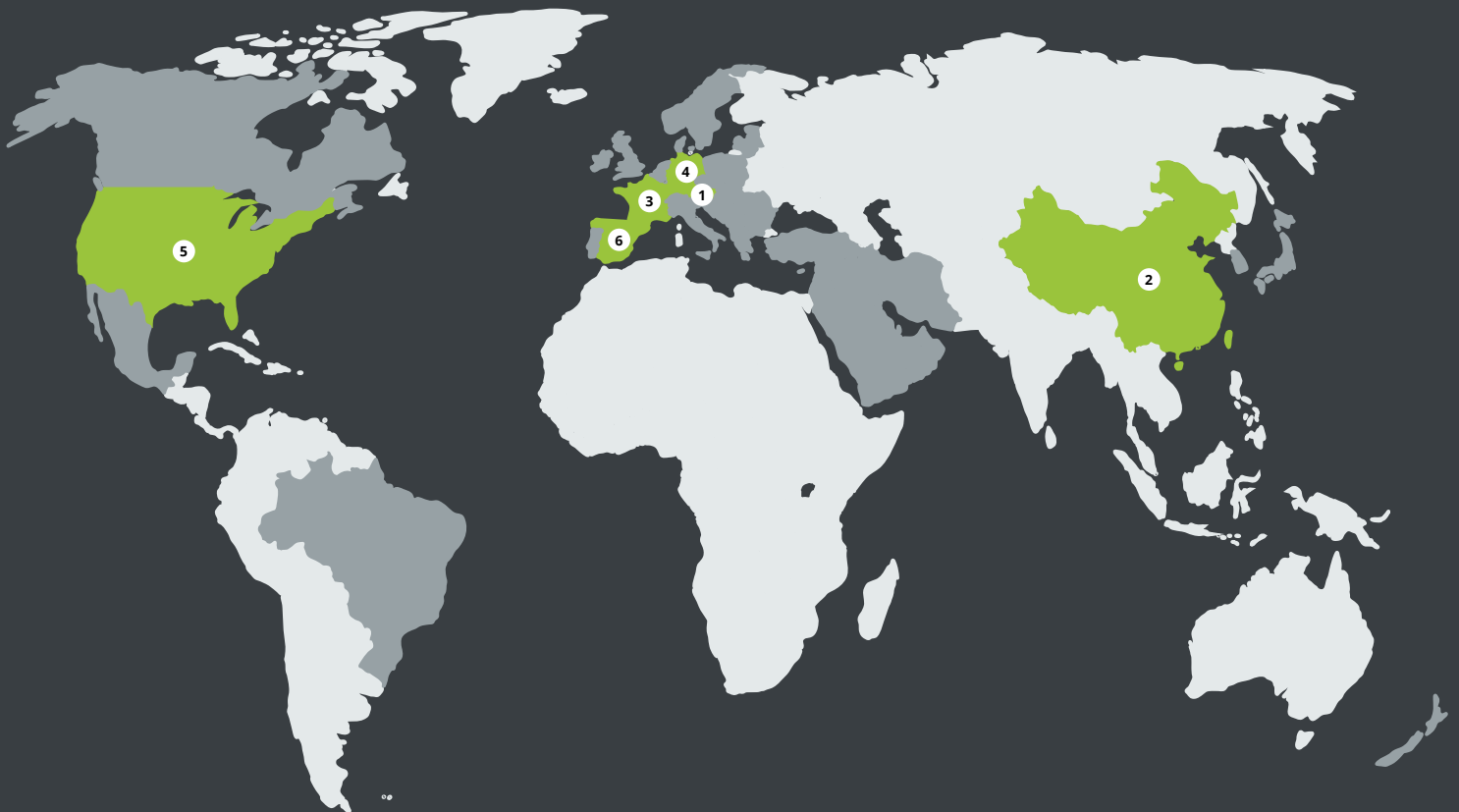
**gerresheimer**  
innovating for a better life

# Solving your challenges is our passion.

A solution that can be used to automate entire processes in just a few hours without any structural changes to your infrastructure. To set new standards. And redefine the status quo. Enjoy standardized transports and undisrupted material flow, handled fully automatically by our AMRs. And increase the efficiency of your material handling processes despite an increasingly challenging labor market.

# We think in solutions.

We develop the world's easiest AMR solution to meet the true needs of our customers' material handling processes. Our team accompanies clients throughout the entire lifecycle, engaging collaboratively in solution design, taking charge of initial commissioning, providing consulting services for performance enhancement, and offering lifetime services. From project management to implementation and subsequent workflow adjustments, our robots deliver unparalleled ease of operation at every stage of the lifecycle.



## OUR LOCATIONS

- 1 Austria - Headquarters
- 2 China
- 3 France
- 4 Germany
- 5 North America
- 6 Spain

## OUR SALES PARTNERS

- Arabian Peninsula
- Benelux
- Brazil
- Czech Republic
- Denmark
- Estonia
- Finland
- Greece
- Hungary
- Ireland
- Israel
- Italy
- Japan
- Latvia
- Lithuania
- New Zealand
- Norway
- Poland
- South Korea
- Spain
- Sweden
- Switzerland
- Turkey
- United Kingdom

# We believe in simplicity of

## X-SWARM TECHNOLOGY

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**One for all. All for one.  
All for you.**

All of our AMRs are AI-powered and communicate directly, exchanging information about their position and current status several times per second. Distribute orders intelligently. Supply and dispose goods automatically, find free routes in mixed traffic environments and easily adapt to changes in the environment.

## PLUG & PERFORM

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**It's as easy as that.**

Thanks to our Plug & Perform technology, you can implement our AMRs in less than 12 hours and change workflows within minutes. Save yourself weeks and high commissioning costs and easily integrate 3rd party modules such as (high-)speed doors and IT systems. Our AMRs are designed to be open for communication, utilizing Wi-Fi connectivity for seamless interaction and control.

## UNIQUE SIMPLICITY

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**Because it's  
about ease of use.**

Our technology is absolutely easy to use in all facets. Because everything we develop is rooted in our user-first engineering philosophy. Hardware, controls, software and cloud architecture are in-house developed and highly integrated to make your life easier – from commissioning to operation, maintenance, control and subsequent changes to workflows.

# n the things.

## FLEXIBILITY

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**Being flexible is a  
guarantee of success.**

Just one click and the AMRs quickly and flexibly react to changing requirements. Create, move or change individual stations, map designs or entire workflows. Independently and without any additional costs.

## SAFETY

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**By the way - and  
of course - it's also  
absolutely safe.**

Our AMRs can seamlessly use the same travel and transport routes as your employees without any incidents. A large number of safety sensors and the adaptive 360° protective field enable efficient operations in mixed traffic scenarios. Our AMRs are certified to comply with a variety of industry safety standards (e.g. CE, UL, ISO 3691-4).

## SUPPLY CHAIN

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**Simply no more standstill.  
24/7.**

Compensate fluctuations in the dynamic material flow with absolute flexibility. In the event of a robot failure, the other AMRs of the swarm take over to ensure a secured flow of goods. Avoid any undersupply and optimize the throughput times of your transport routes fully automatically. Thanks to super-fast charging, the AMR is ready for use again in just a few minutes. Perfect material flow.

# Artificial. But human.

## **SIMPLY RELIABLE**

Just plug and perform. Our AMRs are designed to be so simple, you might never need us. But if you do, we are always here, ready to assist every step of the way. We provide end-to-end support – from solution engineering to training and lifetime services. Your success drives us, and we are committed to being the trusted partner you can always count on.

## **SOLUTION ENGINEERING**

Our solution engineering team tailors systems to your needs and performance goals. We design for maximum throughput and efficiency. Simulation and emulation tests reduce risk and speed up commissioning. Performance days fine-tune your processes for even better results. From large fleets and complex systems to simple workflows, we deliver solutions that work.

## **TRAINING**

Our training services prepare clients to operate their AMRs independently. We offer deep-dive sessions for a thorough onboarding. Clients learn to maintain AMRs, use the HMI, and create new workflows. They can adapt processes and generate detailed performance reports. Our goal is to ensure confidence and performance in every aspect of the solution.

## **LIFETIME SERVICES**

Our lifetime services are built to keep you ahead. Profit from custom packages with remote support and regular software updates. Get exclusive access to AGILOX World, plus 24/7 remote assistance whenever you need it. Preventive maintenance boosts uptime and efficiency. Spare parts ensure peak performance, keeping your system running smoothly for the long haul.



### AGILOX ODM

- dollies
- floor-to-floor
- < 300 kg | 661 lbs

### AGILOX OFL

- pallets & custom-tailored load carriers
- floor-to-station
- < 800 kg | 1,764 lbs or  
< 1,200 kg | 2,645 lbs

### AGILOX OCF

- pallets & custom-tailored load carriers
- floor-to-station
- < 1,500 kg | 3,306 lbs

### AGILOX ONE

- pallets & custom-tailored load carriers
- floor-to-floor
- < 1,000 kg | 2,204 lbs





[REDACTED]

[REDACTED]



Assembly



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Palletizing

Packaging

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# Unique challenges? We provide solutions.

## GOODS-RECEIPT & STORAGE

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### **Transport from receiving area to storage location.**

Simply create a supply and dispose workflow, allowing the AMRs to autonomously pick up and transport goods. The automatic pallet detection feature ensures seamless operation and maximizes autonomy.

## LOAD CARRIER HANDLING, PICKING & SUPPLY

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### **Picking onto AMR and supply of production lines.**

Start a new workflow by pressing an easy-button in the HMI on a mobile device or tablet. The AMR automatically provides empty load carriers and operators directly pick onto the AMRs. The goods are then being supplied to robot or human operated production lines.

## WASTE HANDLING

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### **Disposal of waste containers.**

AMRs pick up full waste bins and transport them to the waste disposal area. Open interfaces allow for communication with peripherals and maximum efficiency.

## PACKAGING & SHIPPING

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### **Infeed packaging and transport to shipping area.**

The AMR delivers completed pallets to the stretch wrapper and then transports them to their designated location in the shipping area, as directed by the ERP or WMS system.

[WATCH VIDEO](#)

# ONE

Combining the best features, AGILOX ONE is the compact and agile floor-to-floor AMR that easily transports pallets through narrow aisles.

**FORKS** – Variable fork lengths and materials

**NFK** – Narrow Fork, is the mono fork for narrow load carriers.

**BCO** – With the Box Carrier, boxes and trays can be moved effortlessly.

**CLEAN ROOM** – Certified for clean room applications (Class 6).

[PRODUCT PAGE](#)

## AGILOX ONE (SINGLE SCISSOR)

### MAX. LIFT WEIGHT

**1,000 kg**  
**2,204 lbs**

### MAX. STATION HEIGHT

**500 mm**  
**19.7 in**

### TURNING CIRCLE

**2,100 mm**  
**82.7 in**

### MAX. SPEED

**1.4 m/s**  
**4.6 ft/s**

**NEW  
PRODUCT**

AGILOX OFL

[▶ WATCH VIDEO](#)

# OFL

The scissor-free AGILOX OFL effortlessly transports and lifts pallets and custom-tailored load carriers from floor to station without the need of any infrastructure changes. With the ability to seamlessly pick up goods from stations, conveyors, and racks, the AGILOX OFL elevates automation to the next level with its reliable racking and stacking capabilities.

[🌐 PRODUCT PAGE](#)

## AGILOX OFL

### MAX. LIFT WEIGHT

**800 / 1,200 kg**  
**1,764 / 2,645 lbs**

### MAX. STATION HEIGHT

**1,200 mm**  
**47.2 in**

### TURNING CIRCLE

**2,200 mm**  
**86.6 in**

### MAX. SPEED

**1.4 m/s**  
**4.6 ft/s**



[WATCH VIDEO](#)

# OCF

Reaching new heights, the AGILOX OCF is the omnidirectional counterbalanced floor-to-station AMR that lifts and transports heavy loads on open and closed pallets through narrow aisles. Designed to meet all your specific needs, it is available in different configurations (lift capacity, fork length, lift height, fork width adjustment) and can fulfill easy to complex material handling tasks in your width operations.

[PRODUCT PAGE](#)

## AGILOX OCF

### MAX. LIFT WEIGHT

**1,500 kg**  
**3,306 lbs**

### MAX. STATION HEIGHT

**1,450 mm**  
**57.1 in**

### TURNING CIRCLE

**3,500 mm**  
**137.8 in**

### MAX. SPEED

**1.4 m/s**  
**4.6 ft/s**

IFOY  
winner



AGILOX ODM

[WATCH VIDEO](#)

# ODM

Awarded with the IFOY award for the best product, the AGILOX ODM is the smallest AMR in the portfolio, designed to quickly move dollies from spot to spot.

**FORK LENGTHS** – 600 mm and 800 mm

**DOLLIES** – Transports different dolly sizes

**CLEAN ROOM** – Certified for clean room applications (Class 6).

[PRODUCT PAGE](#)

## AGILOX ODM

MAX. LIFT WEIGHT

**300 kg**  
**661 lbs**

MAX. STATION HEIGHT

**0 mm**  
**0 in**

TURNING CIRCLE

**1,700 mm**  
**66.9 in**

MAX. SPEED

**1.4 m/s**  
**4.6 ft/s**



# One for all. All for one. All for you. X-Swarm.

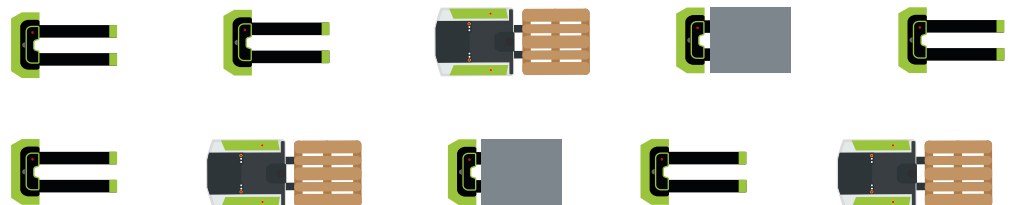
Using AGILOX AMRs is possible without any adjustments and additions to the existing IT infrastructure. Thanks to swarm intelligence, no central fleet manager must be installed. AGILOX' plug and perform feature only requires customer-provided WiFi and a 3-phase AC power connection for charging the units. Open interfaces allow the system to be flexible and dynamically connected with the environment. Vehicle navigation does not require any additional infrastructure, and the system adapts to changing environments, almost automatically and adheres to the highest safety standards.

## SYSTEM OVERVIEW

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### AGILOX SWARM

Swarm Intelligence powers the AGILOX fleet navigation.



### AGILOX ANALYTICS

Access to the most important KPIs and data anytime and anywhere. 4G APN Tunnel



### AGILOX IO BOX

The IO Box assists the customer in connecting their existing infrastructure (e.g. roller doors, fire alarm systems) with the AGILOX network.



### AGILOX HMI

The HMI is mapped in the web browser and is always available to interact with AGILOX vehicles.



### AGILOX CHARGING

24/7 operations without changing the battery.



### CUSTOMER WIFI

Customer-provided WiFi is required in order for vehicles to communicate with each other.



### GATEWAY APPLIANCE

Customer systems (e.g. ERP, WMS, MES, etc.) can be connected via the AGILOX JSON API.

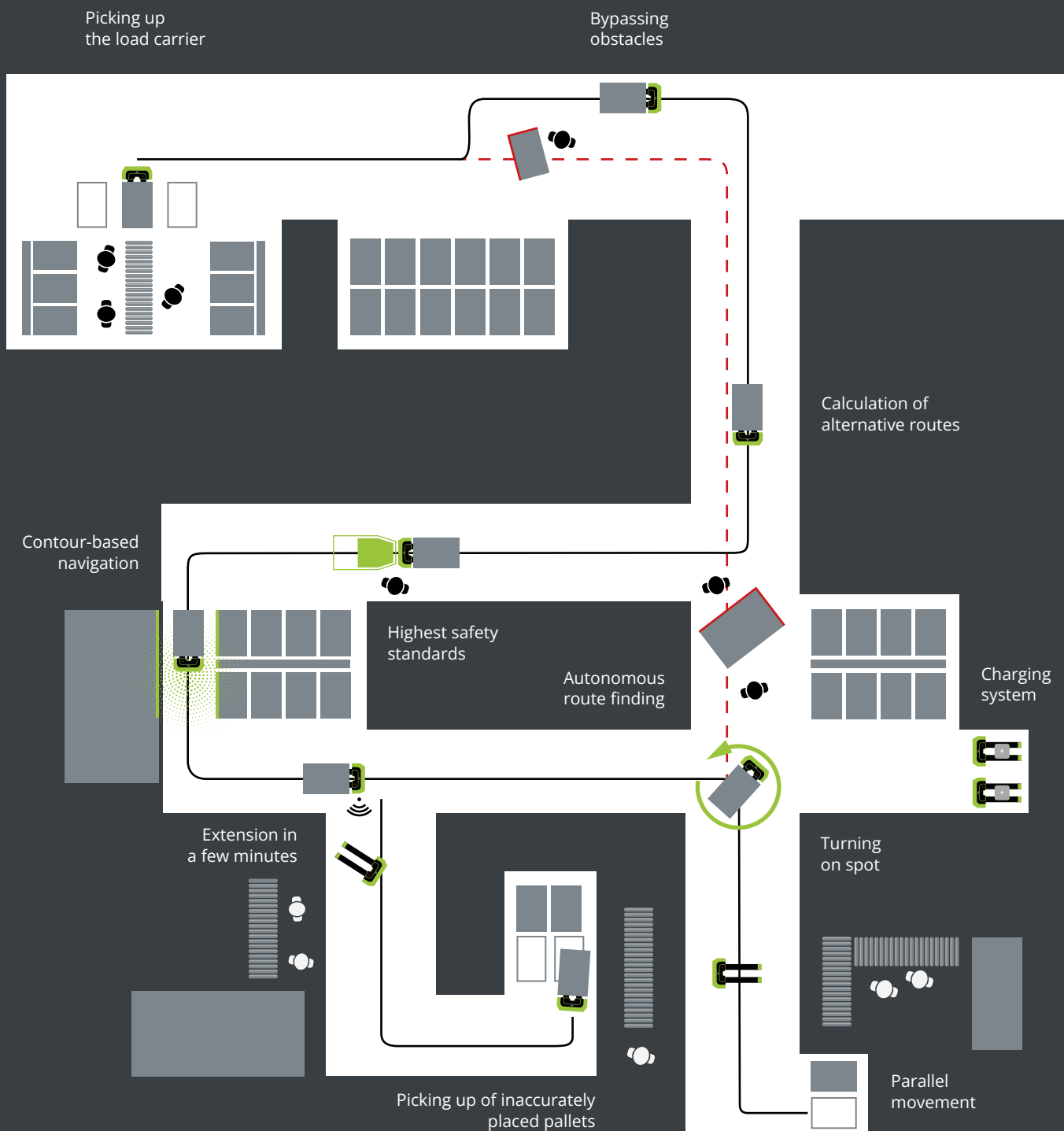


### MOBILE DEVICE

The AMRs are controlled via mobile devices (e.g. smartphone, tablet, etc.) with browser access.

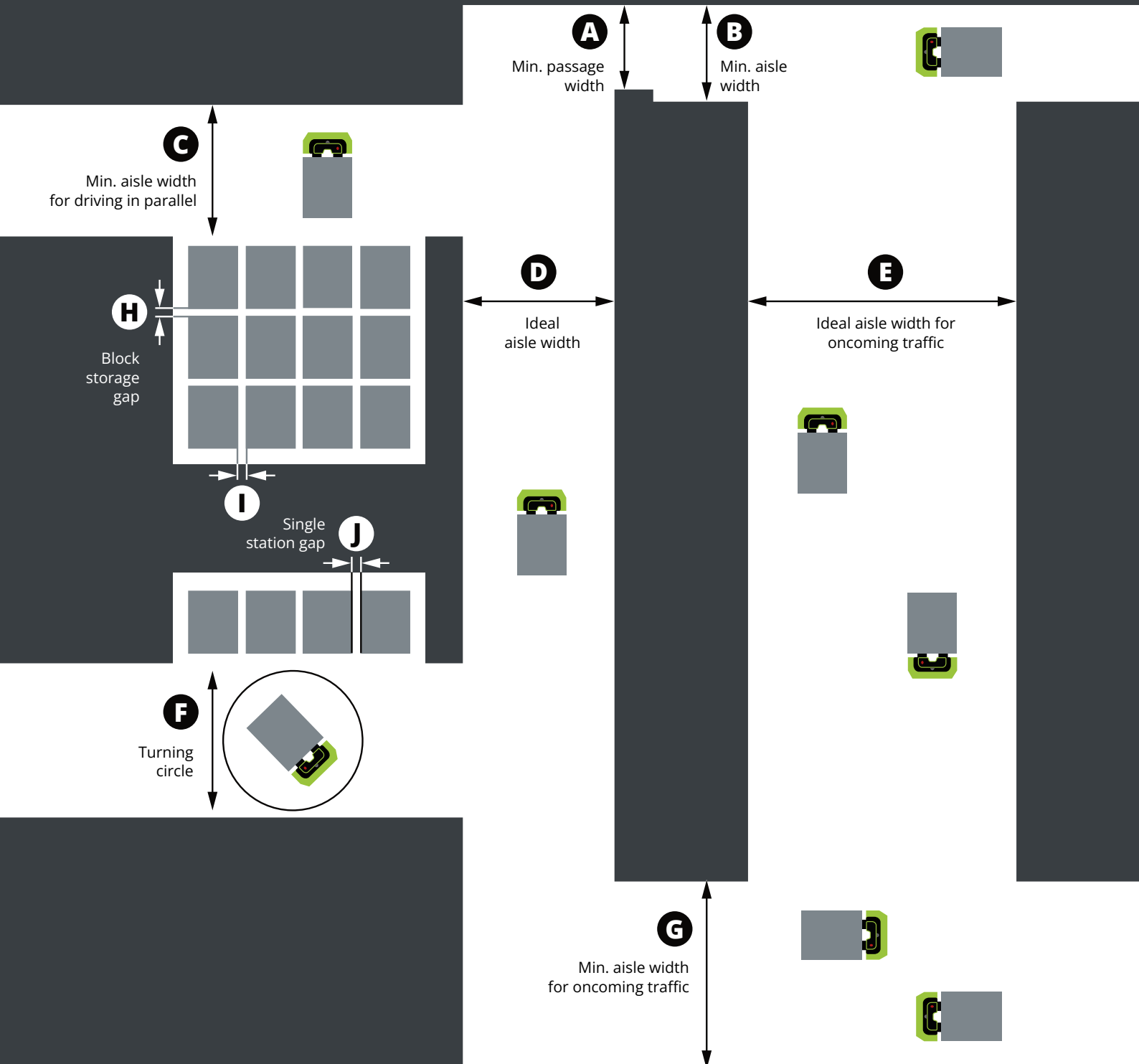
# Fully autonomous from the first minute.

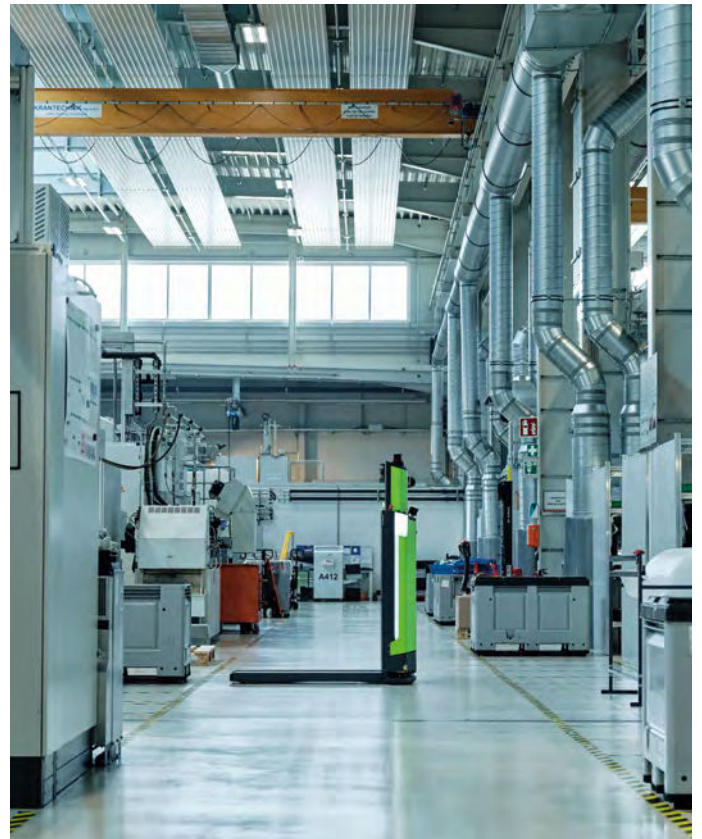
Our AMRs are designed to operate fully autonomously - without the need of any manual interaction, infrastructure changes or master PC. Real-time intercommunication enables the fleet to reroute and optimize operations instantly, even in mixed-traffic environments.





# Unrestricted freedom of movement.

No matter how specific your ever evolving challenges are, our intelligent solutions fit anywhere - inside individually shaped buildings, around pillars and narrow aisles.





CRITERIA		ONE (+NFK)	OFL	OCF	ODM
<b>DIMENSIONS (L X W X H)</b>		1,511 x 810 x 1,862 mm 59 x 32 x 73 in	1,635 x 800 x 1,988 mm 64.4 x 31.5 x 787.3 in	2,784 x 1,200 x 2,566 mm 110 x 47 x 101 in	1,095 x 400 x 1,235 mm 43 x 16 x 49 in
<b>LOAD CARRIER</b>		Pallet 1,200 x 800 mm 47.2 x 31.5 in	Pallet 1,200 x 800 mm 47.2 x 31.5 in	(Closed) pallet 1,200 x 1,200 mm 47.2 x 47.2 in	Dolly 600 x 400 mm 23.6 x 15.7 in
<b>MIN. PASSAGE WIDTH</b>	<b>A</b>	1,400 mm 55.1 in	1,400 mm 55.1 in	1,700 mm 66.9 in	- -
<b>MIN. AISLE WIDTH</b>	<b>B</b>	1,600 mm 62.9 in	1,600 mm 62.9 in	2,100 mm 82.7 in	1,000 mm 39.4 in
<b>MIN. AISLE WIDTH (PARALLEL)</b>	<b>C</b>	1,800 mm 70.9 in	1,900 mm 74.8 in	3,200 mm 126 in	1,300 mm 51.2 in
<b>IDEAL AISLE WIDTH</b>	<b>D</b>	2,000 mm 78.7 in	2,000 mm 78.7 in	2,700 mm 106.3 in	1,700 mm 66.9 in
<b>IDEAL AISLE WIDTH (TWO-WAYS)</b>	<b>E</b>	2,900 mm 114.2 in	2,900 mm 114.2 in	3,800 mm 149.6 in	2,500 mm 98.4 in
<b>TURNING CIRCLE</b>	<b>F</b>	2,100 mm 82.7 in	2,200 mm 86.6 in	3,500 mm 137.8 in	1,700 mm 66.9 in
<b>MIN. AISLE WIDTH (TWO-WAYS)</b>	<b>G</b>	2,600 mm 102.4 in	2,600 mm 102.4 in	3,200 mm 126 in	1,800 mm 70.9 in
<b>BLOCK STORAGE GAP</b>	<b>H</b>	50 mm 2 in	50 mm 2 in	100 mm 4 in	- -
<b>BLOCK STORAGE GAP</b>	<b>I</b>	200 mm 7.9 in	200 mm 7.9 in	200 mm 7.9 in	50 mm 2 in
<b>SINGLE STATIONS</b>	<b>J</b>	100 mm 4 in	100 mm 4 in	100 mm 4 in	- -

The specification above is an example for a drive surface design.  
The design is dependent on the load carriers in use.

# Redefine your performance with the help of digital services.

## AGILOX APPLICATIONS

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### ANALYTICS

All in one. A cloud-based platform to analyze your data. To check the performance of individual AMRs and the entire swarm. Personalized for your needs. Your views, filters and shift models.

### ACADEMY

It's all about your knowledge. Online classes, videos and tutorials. To make you an expert for the entire AGILOX system. From basics to advanced. Easy to consume. Easy to understand.

### DOCS

Details about the complete system and product lineup, operating software, and other related information. This includes product specifications as well as operational guidelines, requirements, maintenance and safety aspects. Additionally, comprehensive coverage on our HMI and its various visualization and configuration possibilities.





It's a perfect match:  
The Human Machine  
Interface.

Find your perfect tech companion with our Human Machine Interface (HMI), which lives right inside the AMRs. This direct integration means you're free from the hassle of maintaining another server. Accessible from any device with a browser, it empowers you to configure, fine-tune, and command AMRs anytime, anywhere.

Dive into the action with real-time tracking of the AMRs throughout your facility, enriched with layers of data like heatmaps, live sensor scan data, and swarm performance metrics. Get creative with the possibilities to set up workflows, change tasks manually and explore a wealth of customization options.

