

Agilox



TRUST THE
WORLD'S EASIEST
AMR SOLUTION.

REDEFINING MATERIAL HANDLING

agilox.net

Behind every big dream there are visionaries.

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

REFERENCES

SIEMENS

Mondelēz
International



BOSCH

**BMW
GROUP**



Steelcase

DHL



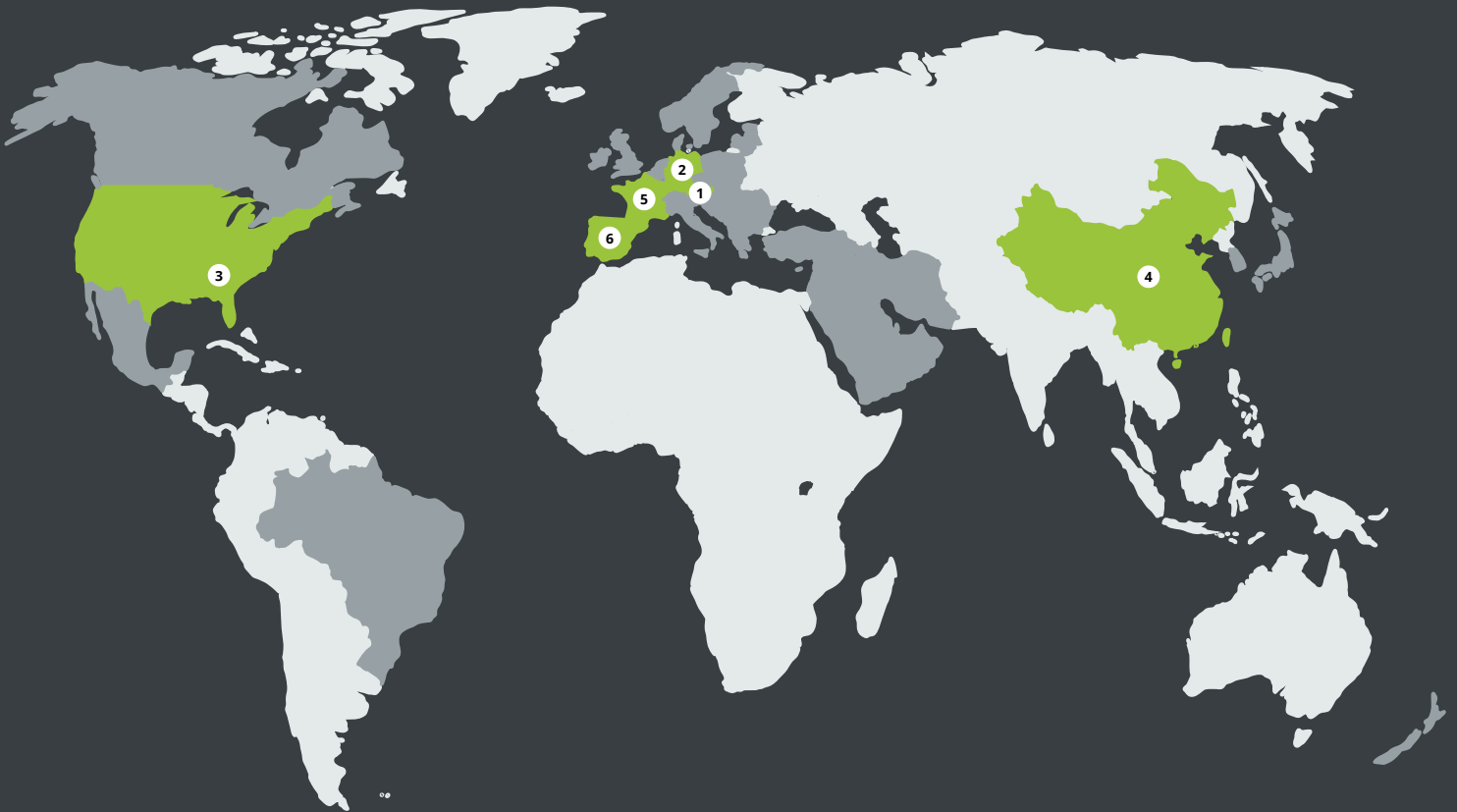
gerresheimer
innovating for a better life

Solving your challenges is our passion.

We created a solution that can be used to automate entire processes in just a few hours without any structural changes to your infrastructure. We did this to set new standards and redefine the status quo. Enjoy standardized transports and undisrupted material flow, handled autonomously. Our AMRs increase the efficiency of your material handling processes despite an increasingly challenging labor market.

We think in solutions.

We have developed the world's easiest AMR solution to meet the true needs of our customers' material handling processes. Our team accompanies clients throughout the entire automation 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 Germany
- 3 North America
- 4 China
- 5 France
- 6 Iberia

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
- Iberia
- Sweden
- Switzerland
- Turkey
- United Kingdom

We believe in simplicity of

X-SWARM TECHNOLOGY

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

All of our AMRs are AI-powered and communicate directly with all other vehicles of the swarm, 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

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 by easily integrating 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

**Because it's all
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 all developed in-house. All of this is seamlessly integrated to make your life easier. From commissioning to operation, maintenance, control and subsequent changes to workflows.

n the things.

FLEXIBILITY

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

Just one click and our 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

**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. An extensive suite of safety sensors and the adaptive 360° protective field enable efficient operations in mixed traffic scenarios. Our AMRs are CE and UL certified and comply with a variety of industry safety standards such as ISO 3691-4 and UL 3100.

SUPPLY CHAIN

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

Compensate fluctuations in the dynamic material flow environment with absolute flexibility. In the event of a robot malfunction, the other AMRs of the swarm take over to ensure the material flow. Avoid any under-supply by optimizing 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, so 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 simple workflows to large fleets and complex systems 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 tailored service packages 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. Readily available 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



Loading Dock
(Inbound)



High-bay warehouse



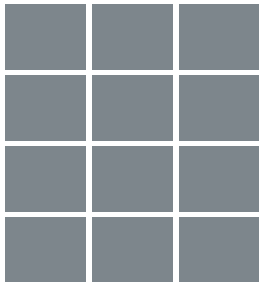
Supermarket



Assembly



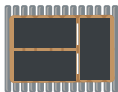
Block storage



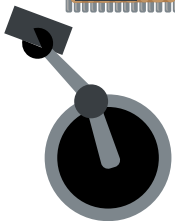
Waste collection point



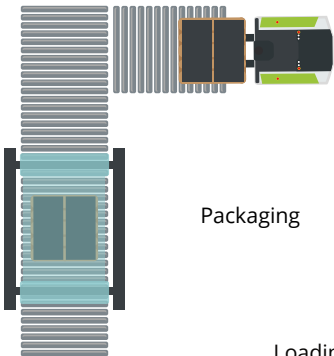
Pallet dispenser



Palletizing



Packaging



Loading Dock
(Outbound)

Unique challenges? We provide solutions.

GOODS RECEIPT & STORAGE

Transport from receiving area to storage location.

Simply create a supply and disposal 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

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 commission onto the AMRs. The goods are then being moved to robot or human operated production lines.

WASTE HANDLING

Disposal of waste containers.

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

PACKAGING & SHIPPING

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.



ONE

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

FORKS – Variable fork lengths and materials

NFK – Narrow Fork: 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).

AGILOX ONE (SINGLE SCISSOR)

MAX. PAYLOAD

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

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.

AGILOX OFL

MAX. PAYLOAD

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



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 requirements, 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 material handling operations.

AGILOX OCF

MAX. PAYLOAD

1,500 kg
3,306 lbs

MAX. STATION HEIGHT

1,450 mm
57.1 in

TURNING CIRCLE

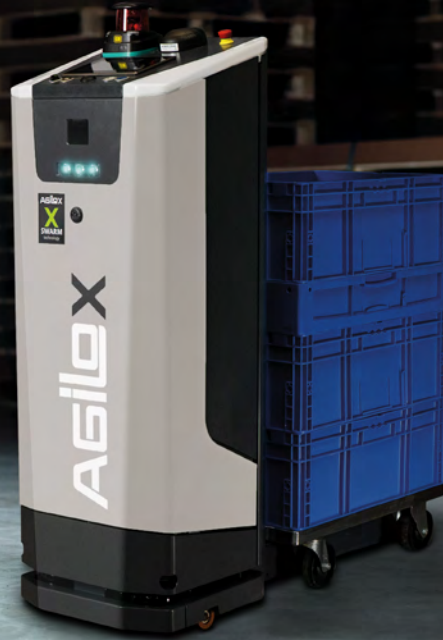
3,500 mm
137.8 in

MAX. SPEED

1.4 m/s
4.6 ft/s

IFOY
winner

AGILOX ODM



ODM

Awarded the IFOY design award for best product, the ODM is the smallest AMR in our portfolio. Working closely with all the other AGILOX AMRs, it is designed to quickly move smaller load carriers, such as dollies, from one spot to another to ensure an efficient supply of materials

FORK LENGTHS – 600 mm and 800 mm

DOLLIES – Transports different dolly sizes

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

AGILOX ODM

MAX. PAYLOAD

300 kg
661 lbs

MAX. STATION HEIGHT

0 mm
0 in

TURNING CIRCLE

1,700 / 1,900 mm
66.9 in / 74.8 in

MAX. SPEED

1.4 m/s
4.6 ft/s

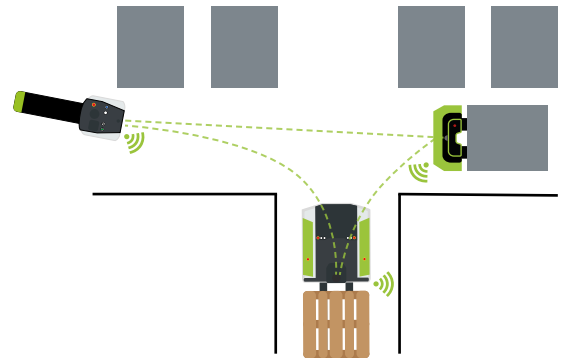
One for all. All for one. All for you. X-Swarm.

Operating AGILOX AMRs is possible without any adjustments and additions to the existing IT infrastructure. Thanks to our proven AI-based X-Swarm Technology, 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 within 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

AGILOX SWARM

Swarm intelligence powers the AGILOX fleet navigation. Vehicles communicate and coordinate directly with each other, ensuring seamless operation without a central control system.



AGILOX WORLD

Detailed information on fleet and vehicles, as well as powerful applications tailored to operational requirements, is available in the AGILOX WORLD customer portal.



AGILOX IO BOX

The IO Box assists the customer in connecting their existing infrastructure (e.g. high-speed 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

Opportunity charging and 24/7 operations without swapping the battery.



CUSTOMER WIFI

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



JSON API

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

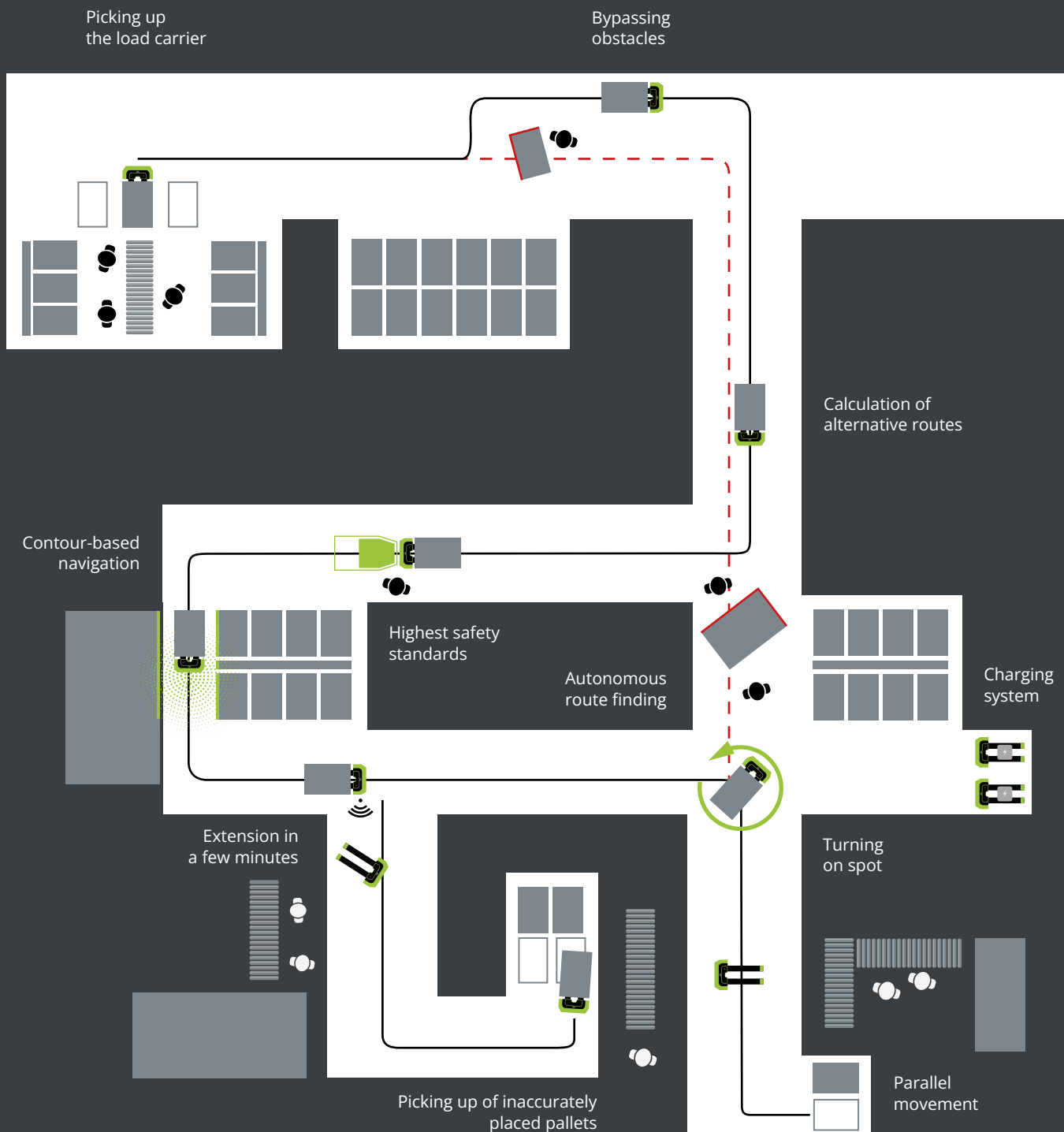


MOBILE DEVICE

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

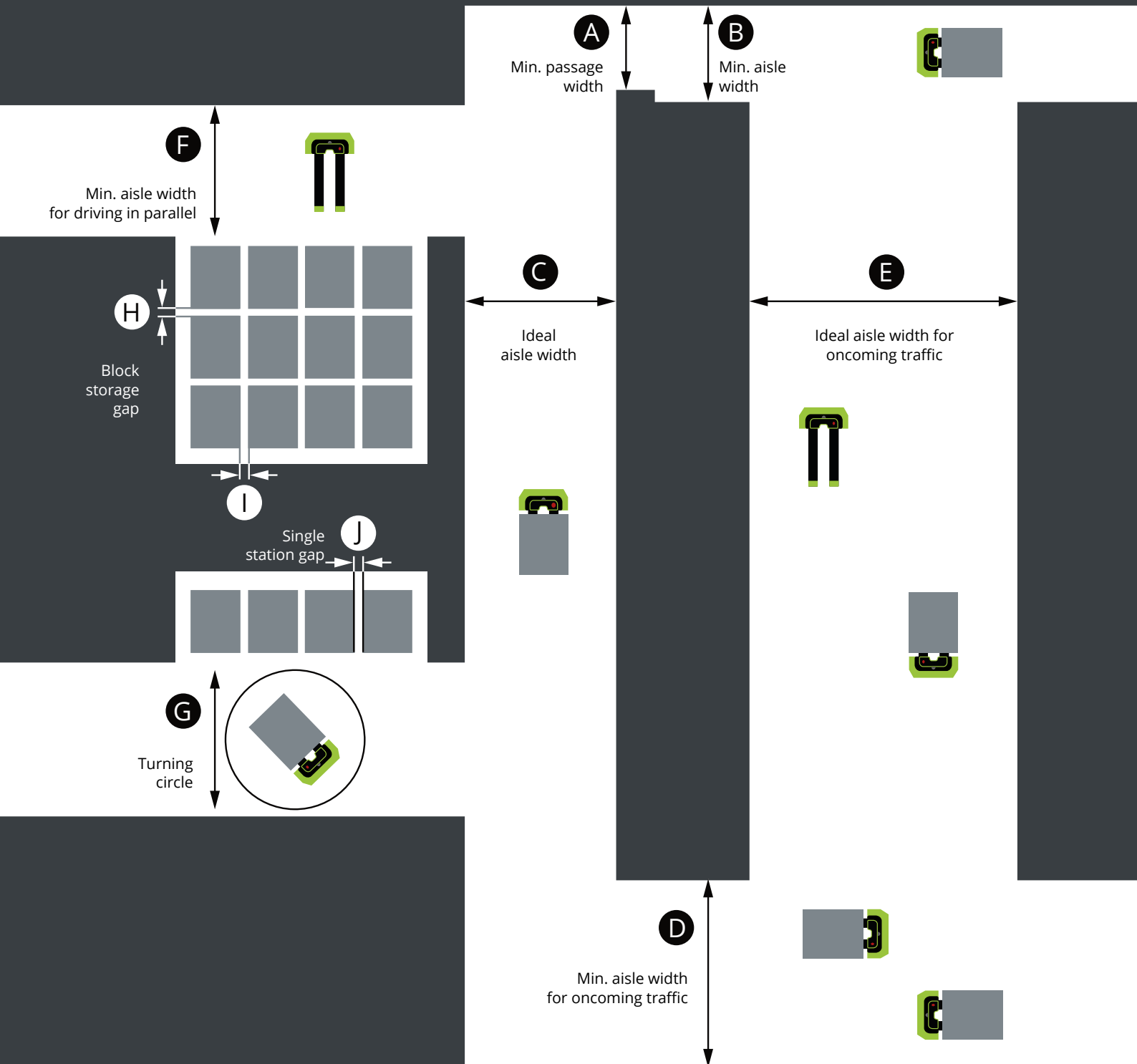
Fully autonomous from the first minute.

Our AMRs are designed for fully autonomous operations – without the need of any manual interaction, infrastructure changes or central fleet manager. 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	
DIMENSIONS (L X W X H)		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 78.7 in	2,795 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	1,295 x 400 x 1,235 mm 51 x 16 x 49 in
LOAD CARRIER		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	Dolly 800 x 600 mm 31.5 x 23.6 in
MIN. PASSAGE WIDTH	A	1,400 mm 55.1 in	1,400 mm 55.1 in	1,700 mm 66.9 in	1,000 mm 39.4 in	1,200 mm 47.2 in
MIN. AISLE WIDTH	B	1,600 mm 62.9 in	1,600 mm 62.9 in	2,100 mm 82.7 in	1,300 mm 51.2 in	1,600 mm 63 in
IDEAL AISLE WIDTH	C	2,000 mm 78.7 in	2,000 mm 78.7 in	2,700 mm 106.3 in	1,700 mm 66.9 in	1,800 mm 70.9 in
MIN. AISLE WIDTH (TWO-WAYS)	D	2,600 mm 102.4 in	2,600 mm 102.4 in	3,200 mm 126 in	1,800 mm 70.9 in	2,100 mm 82.7 in
IDEAL AISLE WIDTH (TWO-WAYS)	E	2,900 mm 114.2 in	2,900 mm 114.2 in	3,800 mm 149.6 in	2,500 mm 98.4 in	2,800 mm 110.2 in
MIN. AISLE WIDTH (PARALLEL)	F	1,800 mm 70.9 in	1,900 mm 74.8 in	3,200 mm 126 in	1,300 mm 51.2 in	1,600 mm 63 in
TURNING CIRCLE	G	2,100 mm 82.7 in	2,200 mm 86.6 in	3,500 mm 137.8 in	1,700 mm 66.9 in	1,900 mm 75 in
BLOCK STORAGE GAP	H	50 mm 2 in	50 mm 2 in	100 mm 4 in	0 mm 0 in	0 mm 0 in
BLOCK STORAGE GAP	I	200 mm 7.9 in	200 mm 7.9 in	200 mm 7.9 in	50 mm 2 in	50 mm 2 in
SINGLE STATIONS	J	100 mm 4 in	100 mm 4 in	100 mm 4 in	50 mm 2 in	50 mm 2 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 WORLD

AGILOX WORLD is the central platform for AGILOX customers, bringing together all available AGILOX web applications in one place. Users gain a comprehensive overview of their fleet, including vehicle details, technical specifications, current release notes, and updates on new features.

ANALYTICS

An all-in-one, cloud-based platform to analyze your data and track the individual performance of AMRs, as well as the entire swarm. Personalized for your needs, your views, filters, and shift models.

ACADEMY

It's all about improving your knowledge. Online classes, videos and tutorials will help you make you an expert for the entire AGILOX system. From the basics to the advanced, we make everything easy to read and understand – simplifying it all.

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 we offer, comprehensive coverage on our HMI and its various visualization and configuration possibilities.

PLAN

Map editing made easy, no local installation needed. Access your fleet maps anytime by opening them directly in your browser.





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 and 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.

Smart Simplicity at your Fingertips: AGILOX Easy-Buttons

AGILOX Easy-Buttons provide a straightforward and user-friendly way to trigger predefined actions with a single press of a button. Whether it's initiating transport orders, requesting a vehicle, or activating special functions, Easy-Buttons can be accessed and fully configured through any standard web browser – offering maximum flexibility without the need for complex installations.

