AGILOX

THE AGILE VEHICLE
SMALL AND AGILE, THE AGILOX ONE MOVES EASILY THROUGH NARROW AISLES

DIMENSIONS (L x W x H)

1,511 MM
59.5 IN
×
810 MM
31.9 IN
×
1,862 MM
73.3 IN

AGILOX ONE 1,200 mm / 47.2 IN with obstacle avoidance, single scissors and signal light package

PERFORMANCE DATA

620 MM
24.4 IN
max. lift height

500 MM
19.7 IN
max. station height
Reference: Euro pallet

1,000 KG
2,204 LBS
max. lift weight

1.4 M/S
4.6 FT/S
max. speed

SPECIFICATIONS

4 omnidirectional drive units
Drive system

Dual electric spindles
Lift system

LiFePO4 with BMS 3 min charging = 1 h operation
Battery

400 kg / 880 lbs
Unit weight

< 12 hours (1 vehicle) / 15 minutes (each additional AMR)
Commissioning time

CE, declaration of conformity
Certification

205 mm / 8.1 IN width 92 mm / 3.6 IN height
Fork dimensions

577 mm / 22.7 IN
Overall fork width

MAXIMUM EFFICIENCY
ALL PRODUCTS POWERD BY THE PROVEN AGILOX X-SWARM TECHNOLOGY

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ONE VARIATIONS

ONE Double Scissor Lift

AGILOX ONE 1,200 mm / 47.2 IN with double scissor lift system

Fork length 1,200 mm / 47.2 IN
Double Scissor Lift
max. lift weight
750 kg / 1653.5 lbs
max. lift height
1,110 mm / 43.7 IN
max. station height
1,000 mm / 39.4 IN

ONE 1400

AGILOX ONE with 1,400 mm / 55.1 IN length lift forks

Fork length 1,400 mm / 55.1 IN
Single Scissor Lift
max. lift weight
750 kg / 1653.5 lbs
max. lift height
620 mm / 24.4 IN
max. station height
500 mm / 19.7 IN

ONE 1600

AGILOX ONE with 1,600 mm / 63 IN length lift forks

Fork length 1,600 mm / 63 IN
Single Scissor Lift
max. lift weight
750 kg / 1653.5 lbs
max. lift height
620 mm / 24.4 IN
max. station height
500 mm / 19.7 IN

ONE 1800

AGILOX ONE with 1,800 mm / 70.9 IN length lift forks

Fork length 1,800 mm / 70.9 IN
Single Scissor Lift
max. lift weight
750 kg / 1653.5 lbs
max. lift height
620 mm / 24.4 IN
max. station height
500 mm / 19.7 IN

ONE ADD-ONS

Obstacle Avoidance

Additional 3D sensor system in the direction of travel to increase safety in human-machine mixed environments

Signal Light Package

Light signal to increase safety in human-machine mixed environments (color: blue / green / red), additional signal lights in the fork tips (color: white / yellow)

Barcode Reader

Scanner for detection of barcodes or QR codes

ESD Protection

Protection or discharge measure for operation in areas with ESD requirements to prevent electrostatic charging

Rubber guards

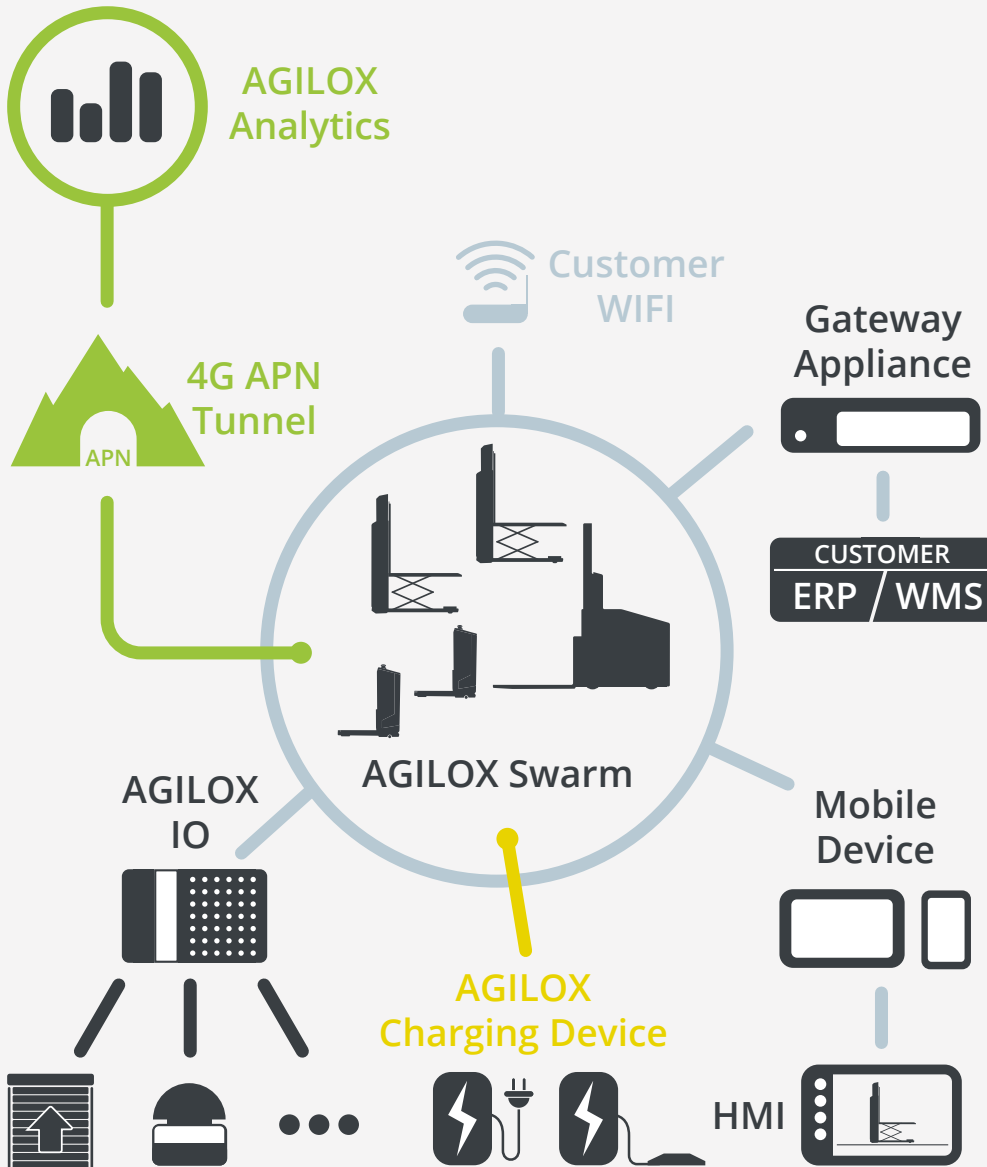Rubber guards as dirt deflectors in the front area of the vehicle and on the fork tips

Mobile Charging Device

One mobile charger is recommended per AGILOX fleet (connection 230V / 16A)

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SYSTEM OVERVIEW

The use of an AGILOX IGV is possible without adjustments and additions to the IT infrastructure. Thanks to swarm intelligence, neither a software nor a separate server for a master computer must be installed. AGILOX' plug and perform quality only requires customer provided WiFi and a 3-phase AC power connection. Open interfaces also allow the system to be flexibly and dynamically connected with the environment. Since navigation takes place without additional infrastructure, the system adapts to its changing environment almost automatically and adheres to the highest security standards.

AGILOX Analytics

4G APN Tunnel

APN

Customer WIFI

Gateway Appliance

CUSTOMER
ERP / WMS

AGILOX Swarm

AGILOX IO

AGILOX Charging Device

Mobile Device

HMI

AGILOX Charging

24/7 operations without changing the battery. 60 minutes of operation - 3 minutes to charge.

Customer WIFI

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

Customer ERP / WMS

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

AGILOX Swarm

Swarm Intelligence underpins the AGILOX fleet's navigation.

Mobile Device

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

AGILOX HMI

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

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.
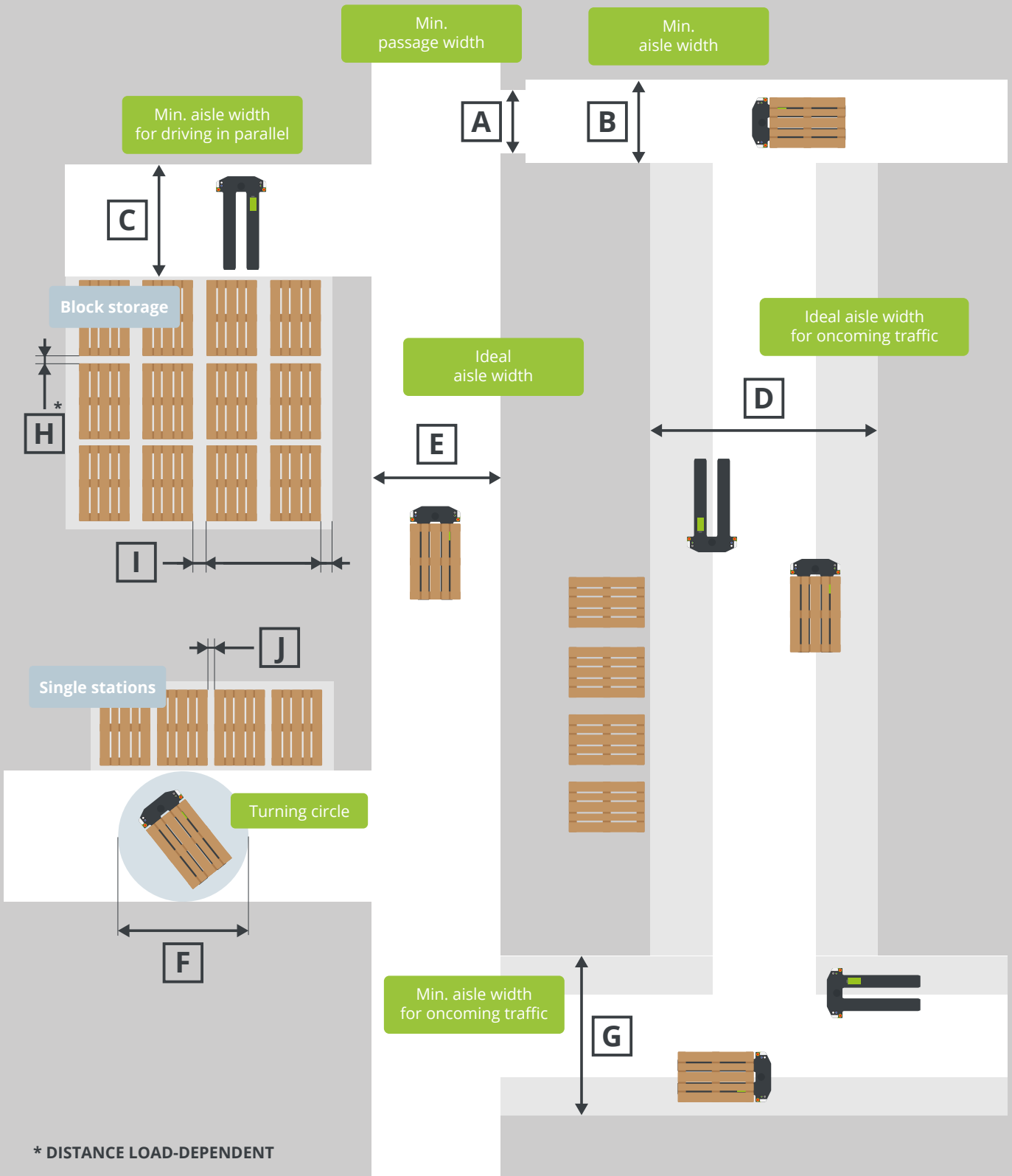
AGILOX Analytics

Access to the most important KPIs and data anytime and anywhere.

AGILOX

AGILOX ONE

DRIVE PATH DESIGN

Load Carrier	A	B	C	D	E	F	G	H	I	J
Euro Pallet 1200 x 800 MM 47.2 x 31.5 IN	1400 MM 55.1 IN	1500 MM 59.1 IN	1800 MM 70.9 IN	2800 MM 110.2 IN	1800 MM 70.9 IN	2100 MM 82.7 IN	2600 MM 102.4 IN	50 MM 2 IN	200 MM 8 IN	100 MM 4 IN

Min. passage width

Min. aisle width

Min. aisle width for driving in parallel

A

B

C

Block storage

Ideal aisle width for oncoming traffic

Ideal aisle width

D

E

H

*

I

J

Single stations

Turning circle

F

Min. aisle width for oncoming traffic

G

* DISTANCE LOAD-DEPENDENT