AGILOX

THE AGILE VEHICLE
SMALL AND AGILE, THE AGILOX ONE DRIVES THROUGH THE NARROWEST AISLES

DIMENSIONS (L x W x H)

**1,510 MM
60 IN**
×
**800 MM
32 IN**
×
**1,870 MM
74 IN**

PERFORMANCE DATA

**550 MM
22 IN**
max. lifting height

**1,000 KG
2204 LBS**
max. lifting weight

1.4 M/S
max. speed

AGILOX ONE 1,200 mm / 47 IN with obstacle avoidance, single scissors and signal light package

SPECIFICATIONS

4 omnidirectional drives
Drive system

Dual electric spindles
Lift system

LiFePO4 with BMS 3 min charging = 1 h running
Battery

400 kg (880 lbs)
Unit weight

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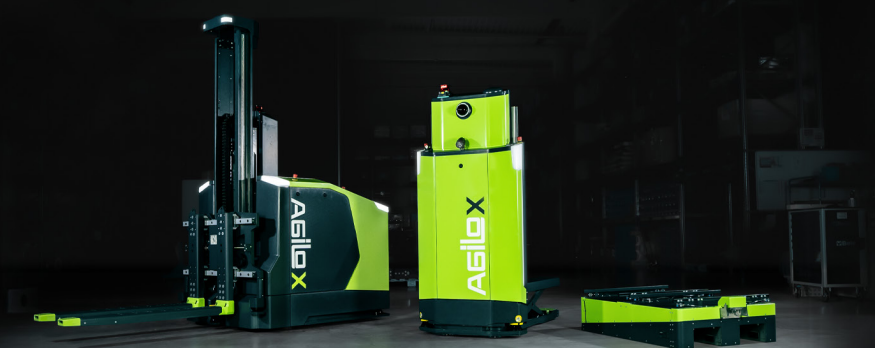Commissioning time

CE, declaration of conformity
Certification

203 mm / 8 IN width 100 mm / 4 IN height
Fork dimensions

575 mm / 23 IN
Overall fork width

MAXIMUM EFFICIENCY
ALL PRODUCTS WITH THE PROVEN AGILOX CORE INTELLIGENCE

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ONE VARIATIONS

ONE Double Scissor Lift

AGILOX ONE 1200 mm with a double scissor lifting system

1200 mm / 47 IN double scissor
750 kg / 1653 lbs
1060 mm / 41 IN lifting height

ONE Narrowfork

AGILOX ONE basic vehicle with only one fork

1200 mm / 47 IN single scissor
750 kg / 1,653 lbs
500 mm / 20 IN lifting height

ONE 1400 / 1600 / 1800

AGILOX ONE basic vehicle with lifting forks in three different lengths (1400 mm, 1600 mm, 1800 mm)

V1400 1400 mm / 55 IN single scissor 750 kg / 1653 lbs
500 mm / 20 IN lifting height
V1600 1600 mm / 63 IN single scissor 750 kg / 1653 lbs
500 mm / 20 IN lifting height
V1800 1800 mm / 71 IN single Scissor 750 kg / 1653 lbs
500 mm / 20 IN lifting height

ONE ADD-ONS

Obstacle Avoidance

Additional 3D sensor system in the direction of travel to increase safety in man-machine mixing mode

Signal Light Package

Light signal to increase safety in man-machine mixing mode (color: blue / green / red), additional signal lights in the fork tips (color: white / yellow)
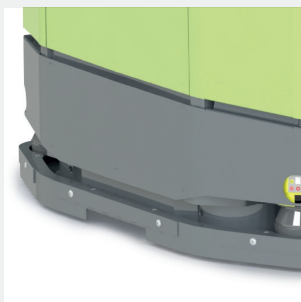
Barcode Identification Unit

Scanner for the detection of barcodes or QR codes

ESD Protection

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

Debris Protection

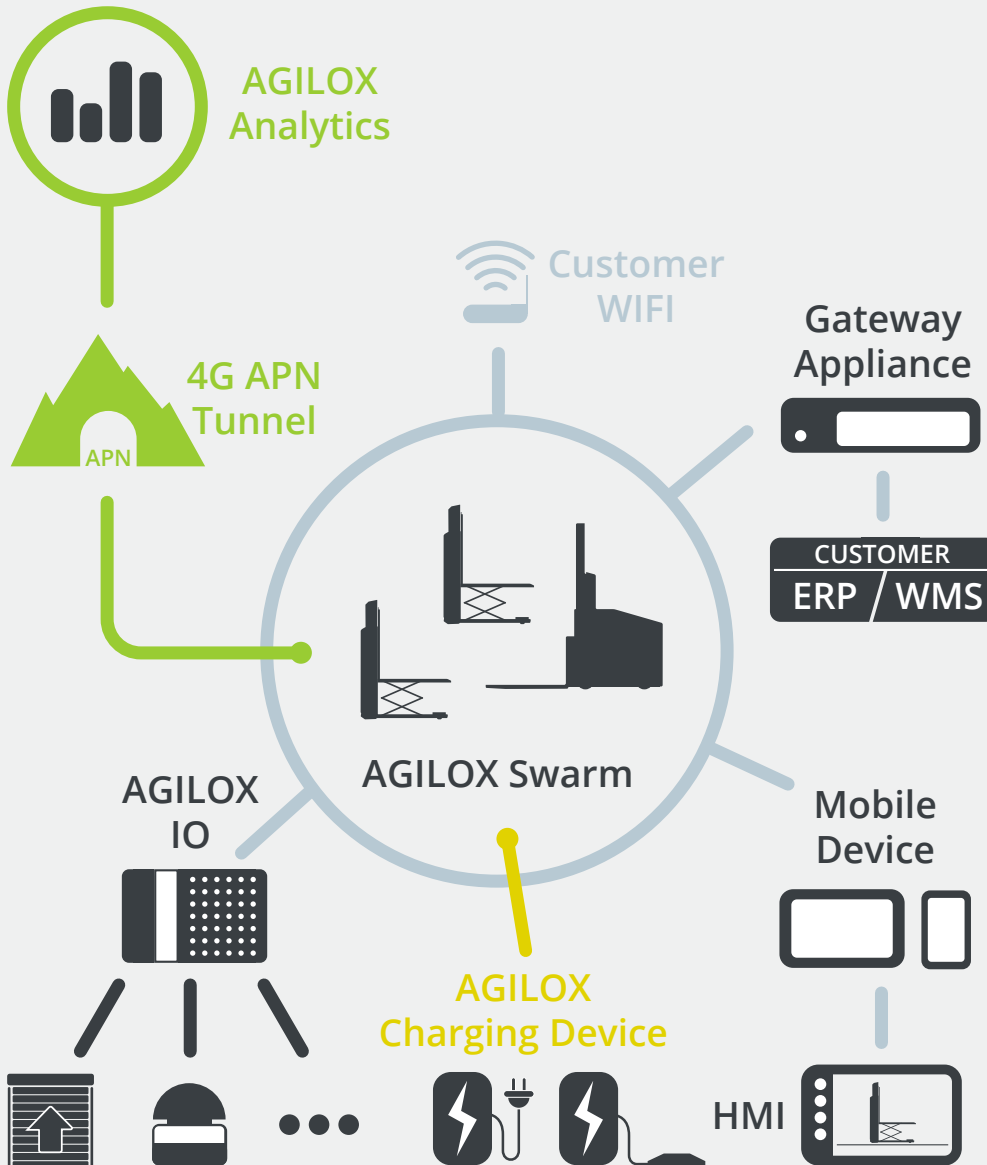Dirt deflector in the front area of the vehicle, versions in rubber lip or brush

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.

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AGILOX ONE
DRIVING SURFACE DESIGN
OF A 1200 X 800 MM PALLET (EPAL)

Minimal
aisle width

Minimal aisle width
for driving in parallel

1300 MM
51 IN

1800 MM
71 IN

Block storage

Aisle width for on-
coming traffic with 1 m/s

100 MM*
4 INCH*

Aisle width
V-Max

3600 MM
142 IN

2100 MM
83 IN

200 MM
8 INCH

100 MM
4 INCH

Single stations

Turning circle with EPAL

2100 MM
83 IN

Minimal aisle width
for oncoming traffic

2600 MM
102 IN

* DISTANCE LOAD-DEPENDENT