AGILOX

OMNIDIRECTIONAL DOLLY MOVER MADE FOR INTELLIGENT TRANSPORTS OF SMALL LOAD CARRIERS

DIMENSIONS (L x W x H)

1,095 MM
43.1 IN

×

400 MM
15.8 IN

×

1,235 MM
48.6 IN

PERFORMANCE DATA

250 MM
9.8 IN
max. lifting height

300 KG
661 LBS
max. lifting weight

1.4 M/S
4.6 FT/S
max. speed

SPECIFICATIONS

2 omnidirectional drives
Drive system

Single electric spindles
Lift system

LiFePO4 with BMS 3 min charging = 1 h running
Battery

approx. 160 kg / 352 lbs
Unit weight

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

CE, declaration of conformity
Certification

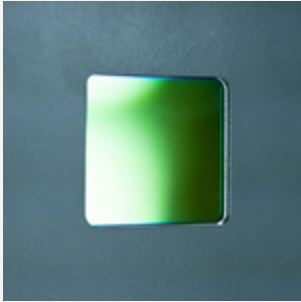**205 mm / 8.1 IN**
Fork width

95 mm / 3.8 IN
Fork height

MAXIMUM EFFICIENCY

ALL PRODUCTS WITH THE PROVEN AGILOX X-SWARM TECHNOLOGY
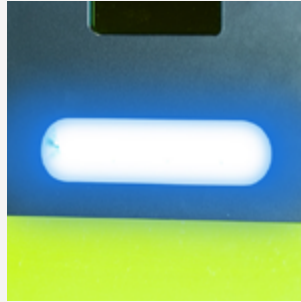
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ODM ADD-ONS

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 Reader

Scanner for the detection of barcodes or QR codes

Mobile Charging Device

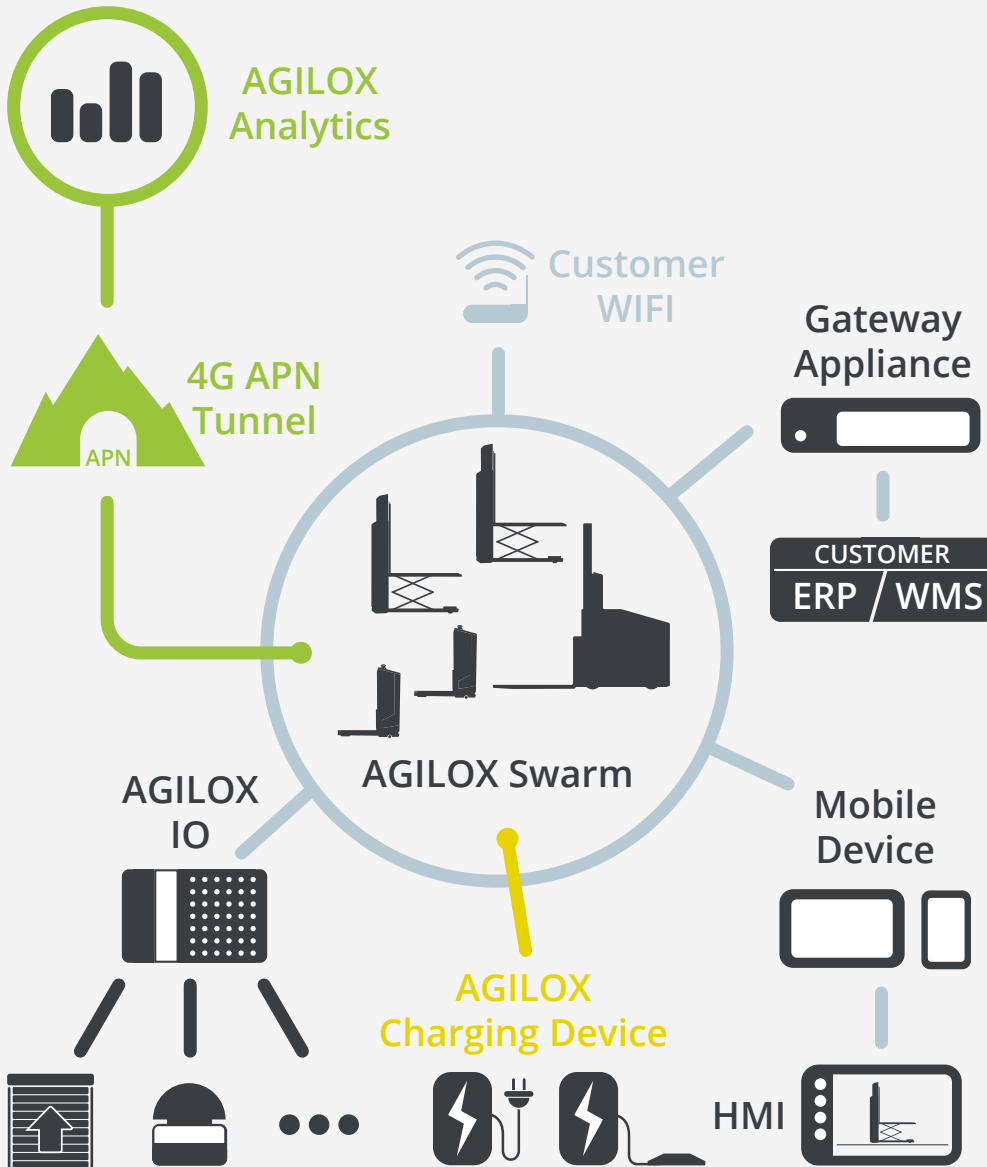One mobile charger is recommended per AGILOX fleet (connection 230V / 16A)

ESD Protection

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

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SYSTEM OVERVIEW

The use of an AGILOX AMR 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 AMRs 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 ODM

DRIVING PATH DESIGN

Load Carrier	A	B	C	D	E	F	G
Dolly 600 x 400 MM 23.6 x 15.7 IN	900 MM 35.4 IN	1300 MM 51.2 IN	2400 MM 94.5 IN	1400 MM 55.1 IN	1600 MM 63 IN	1600 MM 63 IN	50 MM 2 IN

Minimal aisle width

A

Minimal aisle width for driving in parallel

B

Aisle width for on-coming traffic with V-Max

C

G

Aisle width V-Max

D

Turning circle

E

Minimal aisle width for oncoming traffic

F