AGILOX PRODUCTS ONE, OCF, BCO, IO & ANALYTICS

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



SPECIFICATIONS

4 omnidirectional drives 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

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

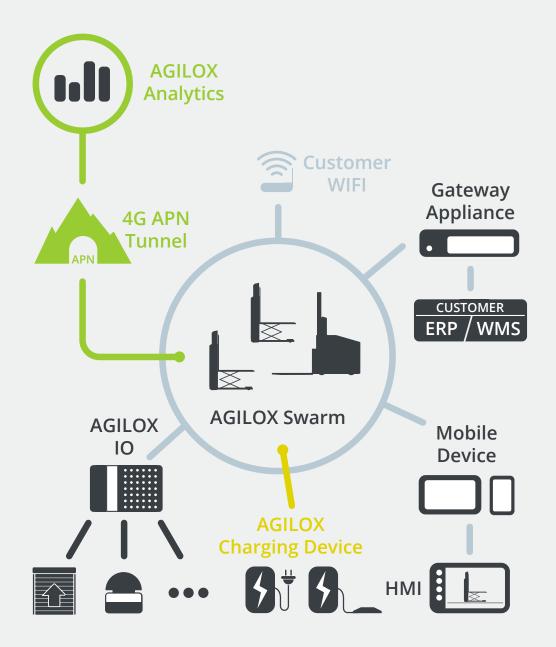


Mobile Charging Device

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

AGILOX 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 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

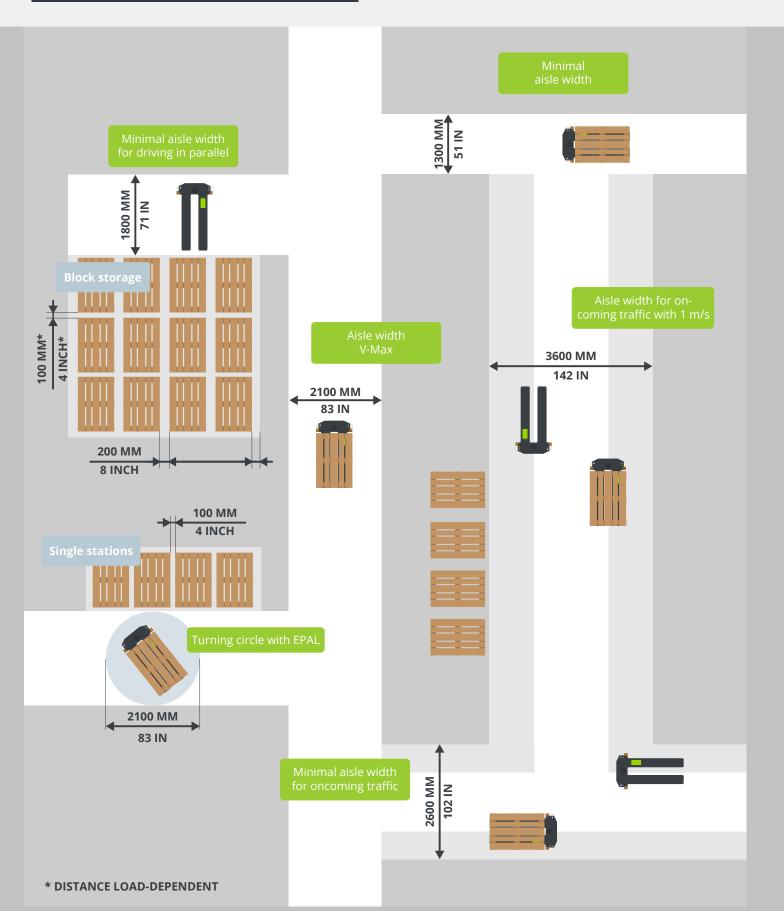
Access to the most important KPIs and data anytime and anywhere.



AGILOX ONE

DRIVING SURFACE DESIGN

OF A 1200 X 800 MM PALLET (EPAL)



FOR HEAVIER LOADS THE AUTONOMOUS COUNTERBALANCED FORKLIFT OCF IS A REAL POWER MONSTER



SPECIFICATIONS

3 omnidirectional drives Drive system

Electric Lift system

LiFePO4 with BMS 3 min charging = 1 h running

Battery

Unit weight

3,600 kg (7940 lbs)

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

Commissioning time

CE, declaration of conformity Certification

125 mm / 5 IN width 450 mm / 18 IN min.

Fork dimensions

70 mm / 3 IN height 960 mm / 38 IN max.

Overall fork width

MAXIMUM EFFICIENCY **ALL PRODUCTS WITH THE PROVEN AGILOX** X-SWARM TECHNOLOGY





OBSTACLE AVOIDANCE

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

OCF ADD-ONS



Barcode Identification Unit

Scanner for the detection of barcodes or QR codes



Mobile Charging Device

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OCF Lifting Aids



Standard Stationary Charging Station

Stationary charging station for the AGILOX OCF (connection 400V / 16A)

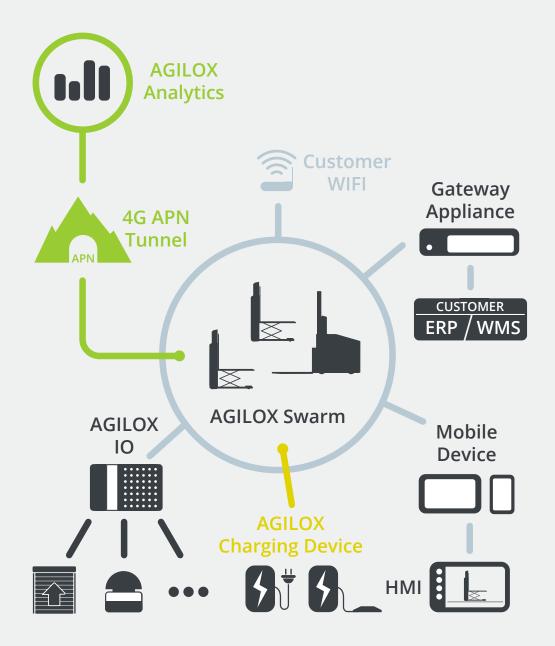


Quick Stationary Charging Station

Stationary fast charging station for the AGILOX OCF (connection 400V / 32A)

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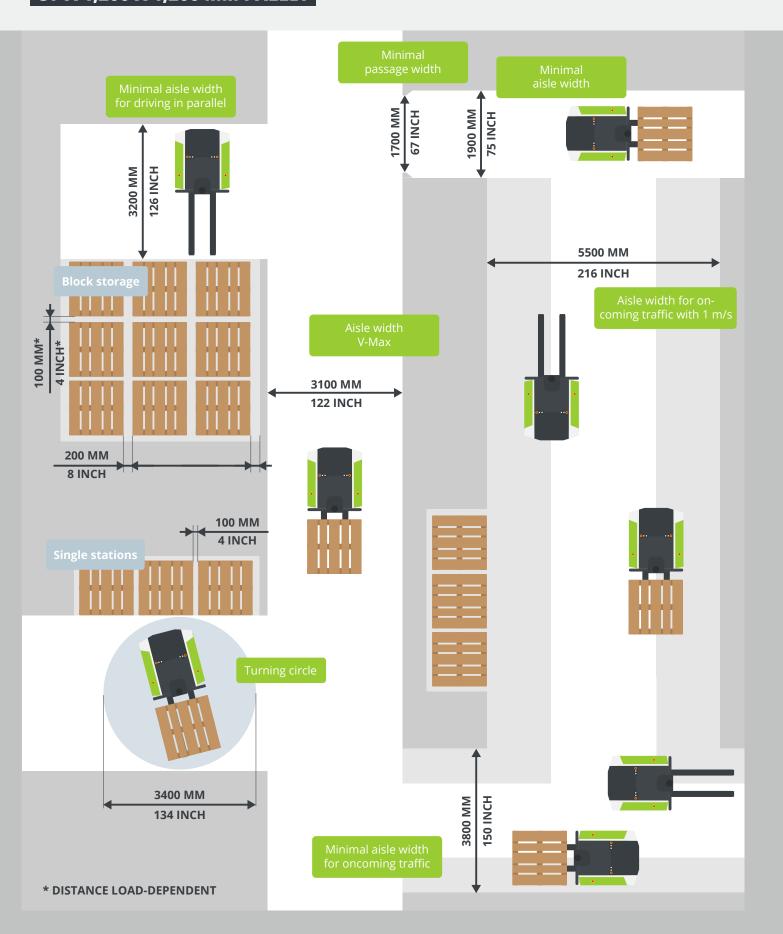
AGILOX Analytics

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



AGILOX OCF

DRIVING SURFACE DESIGN OF A 1,200 X 1,200 MM PALLET





WITH THE AGILOX BOX CARRIER, BOXES AND TRAYS CAN BE TRANSPORTED EFFORTLESSLY

BOX CARRIER

The AGILOX BCO (Box Carrier) is an additional module that the AGILOX ONE can hold like a Euro pallet. Power and controls are transmitted via CAN bus and the connection is made automatically – no human intervention is necessary to complete the retooling process. The upper part standard consists of two belt conveyors. On request, the conveyor technology can be expanded to up to eight conveyors on four levels.



MAXIMUM EFFICIENCY ALL PRODUCTS WITH THE PROVEN AGILOX CORE INTELLIGENCE



VARIATION BCO

1 to 4 levels Number of levels Height of the levels individually designable

Between 2 and 8 conveyors

Number of conveyors

Integrated scale

Optional add-on

Roll or belt conveyor Conveyor type

two levels

Box Carrier two levels with roll conveyor

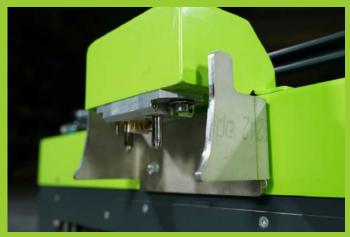


CONNECTOR ONE / BCO

ONE connector for BCO



Connector BCO



THE AGILOX IO BOX MAKES THE COMMUNICATION WITH PERIPHERAL DEVICES POSSIBLE

AGILOX IO

The AGILOX IO is an industrial control system (optionally Beckhoff or Siemens) with potential-free relay outputs and digital inputs (24VDC), which is connected to the AGILOX network. It can be used as an interface with the system operator's automation world and connects fieldbus systems and the IOs with the AGILOX network to ensure the required data exchange.





StandardSI 14/10

StandardBE 12/6

MiniSI 6/4







Туре	StandardSi 14/10	StandardBE 12/6	MiniSI 6/4
ArtNr.	AGIIO-NSI	AGIIO-NBES	AGIIO-MSIS
PLC Manufacturer	Siemens	Beckhoff	Siemens
Control Cabinet	760 x 760 x 300 mm (WxHxD)	400 x 300 x 155 mm (WxHxD)	Yes
Input Count	14	12	6
Output Count	10	6	4
Output Characteristics	potential-free	potential-free	potential-free
I/O Extension Possible	max. 7 x IO Extension SI 16/16	No	No
Network Connection	Ethernet	Ethernet	Ethernet
Decentralized IOs possible	No	No	No
Assembly and Wiring	by customer	by customer	by customer
Required Power Supply	110 - 230 VAC	110 - 230 VAC	110 - 230 VAC

MAXIMUM EFFICIENCY ALL PRODUCTS WITH THE PROVEN AGILOX X-SWARM TECHNOLOGY



AGILOX IPC - GATEWAY APPLIANCE

AGILOX swarms do not need a master computer, the vehicles communicate with each other via WLAN and via this path they also communicate with higher-level IT systems (e.g. ERP, WMS, MES). In order to provide a permanently available contact person for these higher-level systems, who can also be reached via Ethernet, there is the Gateway Appliance. This instance consists of an industrial PC running the AGILOX Core Software. This means that orders from higher-level systems can also be transferred to the AGILOX system if, for example, all AGILOX vehicles are switched off or no WLAN is available at the moment.



Туре	Simple IPC
ArtNr.	AGIIO-SIPC
PLC Manufacturer	-
Control Cabinet	No
Input Count	-
Output Count	-
Output Characteristics	-
I/O Extension Possible	No
Network Connection	Ethernet + WiFi
Decentralized IOs possible	No
Assembly and Wiring	by customer
Required Power Supply	230V



AGILOX HYBRID BOX

The Hybrid Box combines the communication interface to automation units (IO Box) and IT systems (Gateway Appliance) in one control cabinet.





Туре	Hybrid BE	Hybrid SI
ArtNr.	AGIPC-HBE	AGIPC-HSI
PLC Manufacturer	Beckhoff	Siemens
Control Cabinet	400 x 800 x 300mm (WxHxD)	760 x 760 x 300mm (WxHxD)
Input Count	12	14
Output Count	6	10
Output Characteristics	potential-free	potential-free
I/O Extension Possible	No	max. 7xIO Extension SI 16/16
Network Connection	Ethernet + WiFi	Ethernet + WiFi
Decentralized IOs possible	No	No
Assembly and Wiring	by customer	by customer
Required Power Supply	110V-230V	110V-230V



OTHER IO BOXES

Туре	SimpleBE 12/6	SimpleBE 32/8	SimpleBE 128/32
ArtNr.	AGIIO-SBES	AGIIO-SBEM	AGIIO-SBEL
PLC Manufacturer	Beckhoff	Beckhoff	Beckhoff
Control Cabinet	No	No	No
Input Count	12	32	128
Output Count	6	8	32
Output Characteristics	potential-free	potential-free	non potential-free
I/O Extension Possible	No	No	No
Network Connection	Ethernet	Ethernet	Ethernet
Decentralized IOs possible	No	No	No
Assembly and Wiring	by customer	by customer	by customer
Required Power Supply	24VDC/4A	24VDC/4A	24VDC/4A

Туре	SimpleSI 14/10	StandardBE 128/32	StandardBE WiFi 12/6		
ArtNr.	AGIIO-SSI	AGIIO-NBEL	AGIIO-NBEW		
PLC Manufacturer	Siemens	Beckhoff	Beckhoff		
Control Cabinet	No	600 x 380 x 210 mm (WxHxD)	600 x 380 x 210 mm (WxHxD)		
Input Count	14	128	12		
Output Count	10	32	6		
Output Characteristics	potential-free	non potential-free	potential-free		
I/O Extension Possible	max. 7 x IO Extension SI 16/16	No	No		
Network Connection	Ethernet	Ethernet	Ethernet + WiFi		
Decentralized IOs possible	No	No	No		
Assembly and Wiring	by customer	by customer	by customer		
Required Power Supply	24VDC/4A	110V-230V	110V-230V		

Туре	StandardSI WiFi 14/10	Decentral BE 8/4
ArtNr.	AGIIO-NSIW	AGIIO-DBE
PLC Manufacturer	Siemens	Beckhoff
Control Cabinet	760 x 760 300 mm (WxHxD)	400 x 300 x 155 mm (WxHxD)
Input Count	14	8
Output Count	10	4
Output Characteristics	potential-free	potential-free
I/O Extension Possible	max. 7 x IO Extension SI 16/16	Beckhoff EP2338-1001
Network Connection	Ethernet	Ethernet
Decentralized IOs possible	No	max. 12 boxes with 8 digital channels each (max. 32 outputs can be used)
Assembly and Wiring	by customer	by customer
Required Power Supply	110V-230V	110V-230V

AGILOX ANALYTICS ENABLES UP-TO-THE-SECOND PERFORMANCE ANALYSIS AND THE EFFICIENCY INCREASE OF LOGISTICS PROCESSES

AGILOX ANALYTICS

Collecting various process data and analyzing it is a key factor in optimizing operations in the material handling industry - especially when it can be done easily via a browser without any additional effort. As logistics processes are automated by an AGILOX, the volume of data increases, and with it the opportunity to make use of it. In AGI-LOX Analytics, the collected data is compiled and clearly presented. While our vehicles directly increase efficiency in operation, our private cloudbased data analysis platform AGILOX Analytics offers the possibility to do performance analysis as well as to get software support for the complete AGILOX fleet.

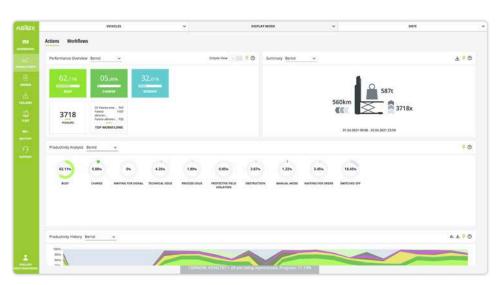
Guaranteed data safety

Because data security plays an essential role, AGILOX relies on a sophisticated security concept with a certified data center (ISO 27001). Data encryption to the highest security standards and a private connection to our cloud-based analytics platform, where the data is processed, guarantee the protection of customer data from unauthorized access and thus maximum data security.

Detailed data reports

AGILOX Analytics offers the possibility to analyze logistics processes as well as the condition of vehicles. More than 3.5 billion data points generated per vehicle in a year enable near real-time performance analysis down to the second over the entire service life. Sophisticated and detailed reports as well as an ongoing expansion of functions accommodate profound performance analysis. As a result, the productivity and efficiency of the entire logistics and production processes can be continuously improved, and forward-looking strategic decisions can be made. Browser-based access to the data is possible anytime and anywhere - whether via PC, tablet or smartphone.

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Q. Search.								
ID	Name	Start	End	Duration	Distance	Batteryusage	Pickups	
4223/966212//10013	Halette abholen SV starten	25-04-2021 11:41:49	23.04.2021 11:44.22	00:02.31	76-83m	-1%	¥	
275398902127710002	PARK	25.04.2021 11:22:06	25.04.2021 11:22:58	00:00:50	9.53m	0%	0	
622378662127710003	Palette abiholen SV	25.04.2021 11:16:29	25.04.2021 11:32:06	00/05/38	157,58m	-3%	1	23
275398902127710001	PARK	25.04.2021 11:10:38	25.04.2021 11:12:52	00.02.16	67.62m	-1%	0	1
275398902127710000	Supply Workflow V1 Ungefaltet SV	25.04.2021 11:06:45	25.04.2021 11:10:38	00.03.52	122.33m	-2%	1	8
622378662127700018	Supply V1 Ungefaitet SV starten	25.04.2021 11:04:35	25.04.2021 11:06:44	00:02:11	74.2m	-1%	0	3
622378662127700023	AGRO_2	25.04.2021 10:59:33	25.04.2021 11:04:34	00.04.58	94.05m	-2%	<u>\$0</u>	
275398902127700006	Palette abholen SV	25.04.2021 10:54:11	25.04.2021 10:59:32	00:05:18	159.08m	-3%	1	2
Action	Start		End			Station		
PICKUP	25.04.2021 10:54:11		25.04.2021 10:56:42			VT_SV_Volt7		
DROP	25.64.2021 10:56:42		25.04.2021 10:59:32			Abgabe		
275398902127700004	Palette abholen SV	25.04.2021 10:49:05	25.04.2021 10:54:09	00.05.03	157.02m	-2%	1	- 23
275398902127700005	Palette abholen SV	25.04.2021 10.44.19	25.04.2021 10.49:03	00.04.43	93.04m	-28	1	
275398903127700007	DEDEADLOCK	25.04.2021 10:47:08	25.04.2021 10:47:30	00.02.20	1.73m	c%	0	- 89
622378662127700014	Palette abholen SV starten	25.04.2021 10:41:48	25.04.2021 10:44:17	00.02.31	77.03m	-1%	0	3
275398902127700003	PARK	25.04.2021 10:33:13	25.04.2021 10:34:15	00.01.05	13.99m	0%	0	
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