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AGILOX ONE

Datasheet

Find comprehensive details and specifications of the AGILOX ONE in the booklet.

www.scanlox.com

AGILOX ONE
Versatility In One

SWARM Intelligence

Omnidirectional

Energy Efficient

Open Interfaces

Analytics

The AGILOX ONE seamlessly combines agility and compact design, making it the ideal floor-to-floor AMR for transporting pallets through tight aisles.

Available in three fork lengths, it is built to suit a large range of operational needs. With an optional double scissor lift, it can raise goods up to 620 mm, offering added versatility for different tasks.

Single Scissor | Double Scissor

Fork Lengths 1400 | 1600 | 1800 mm

Mono Fork | Box Carrier

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Performance Data

620 mm
Max. Lifting Height

1.000 kg
Max. Lifting Weight

1,4 m/s
Max. Speed

Dimensions

1.510 x 800 x 1.850 mm (L x W x H)

Specifications

4 Omnidirectional Drives
Drive System

2.100 mm
Turning Circle

Dual Electric Spindles
Lift System

400 kg
Unit Weight

LiFePO4 with BMS 3 min charging = 1 h operation
Battery

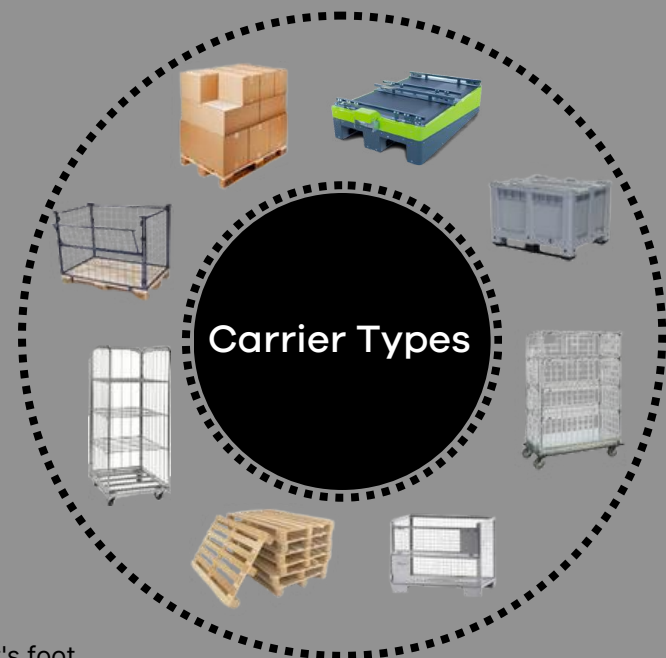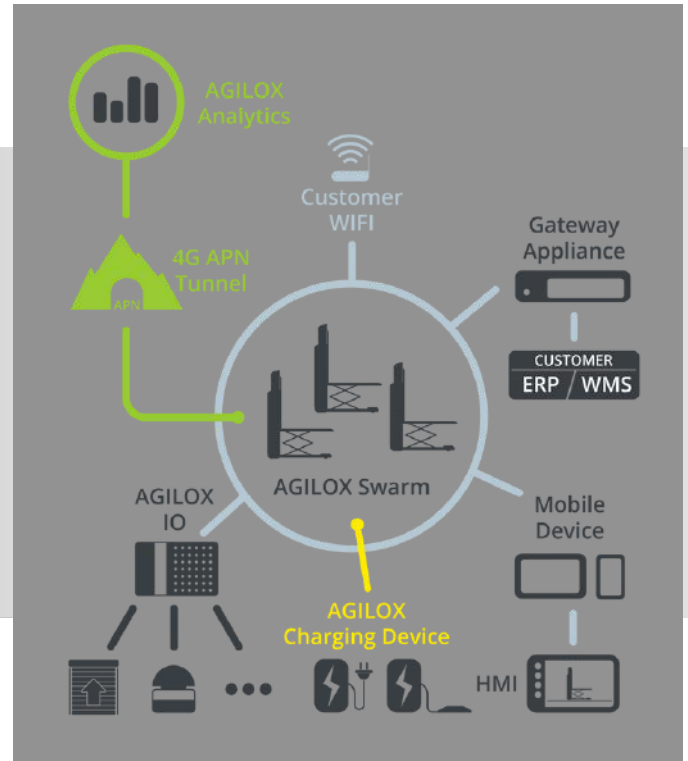| Specification	Details
Pallet	800 / 1.000 / 1.200 EUR format
Boxes	Plastic / wood / metal
Palletboxes	Plastic / wood / metal
AGILOX Boxcarrier	
Cart	
Cages / Rollercages	
Exeptions	Carriers with closed bottom

ⓘ Other types of carriers - inquiry to supplier

ⓘ NB: The vehicle is not limited by plastic wrap on the pallet's foot

Carrier Types

System Overview

Efficient Charging
Operates 24/7 without battery replacement. 60 minutes of operation with just 3 minutes of charging.

Wi-Fi Connectivity
Requires customer-provided Wi-Fi for seamless communication between vehicles.

System Integration
Easily connects to customer ERP, WMS, or MES via AGILOX JSON API.

Swarm Intelligence
Decentralized navigation optimizes fleet coordination and efficiency.

Mobile Control
The AMRs are managed via smartphone, tablet, or any browser-enabled device.

User-Friendly HMI
The interface is accessible through a web browser, ensuring easy interaction at any time.

Seamless Infrastructure Integration
The IO Box enables connection with existing systems, such as roller doors and fire alarms.

Advanced Analytics
Real-time access to key performance data from anywhere.

HMI
Customer–friendly Interface

The control system features a user-friendly and flexible HMI, providing full control, real-time monitoring, and the ability to adjust autonomous mobile robots and system settings on any device.

Key Features

Open Interface
Seamless integration with existing systems.

Zoom function
Improved screen visibility for detailed operation.

Realtime Vehicle Overview
Instant status updates on all AGILOX units.

Direct Workflow Adjustments
Modify layouts and parameters instantly.

Heatmaps
Visualize movement patterns and optimize efficiency.

Comprehensive Tools
All necessary tools included, with error notifications via email or SMS.

Integrated Documentation
Always accessible and directly embedded.

AGILOX seamlessly integrates with customer management systems. Orders from WMS, ERP, PMS, or MES are automatically converted into transport requests. The integration is provided as a gateway solution with an API (REST) for communication, utilizing JSON scripts combined with OPC I/O.

Flexible Order Trigger Options

Easy Button
Operators can initiate transport orders via screen-configured buttons.

Scheduled Orders
Predefined transport tasks executed at specific times or intervals.

Sensor Activation
Automatic triggering based on PLC signals.

Software Integration
Seamless connectivity with customer management systems.

AGILOX Analytics

Performance Data

Easy Access
Analyze logistics data effortlessly via a browser.

Optimized Operations
Leverage real-time insights to improve fleet efficiency.
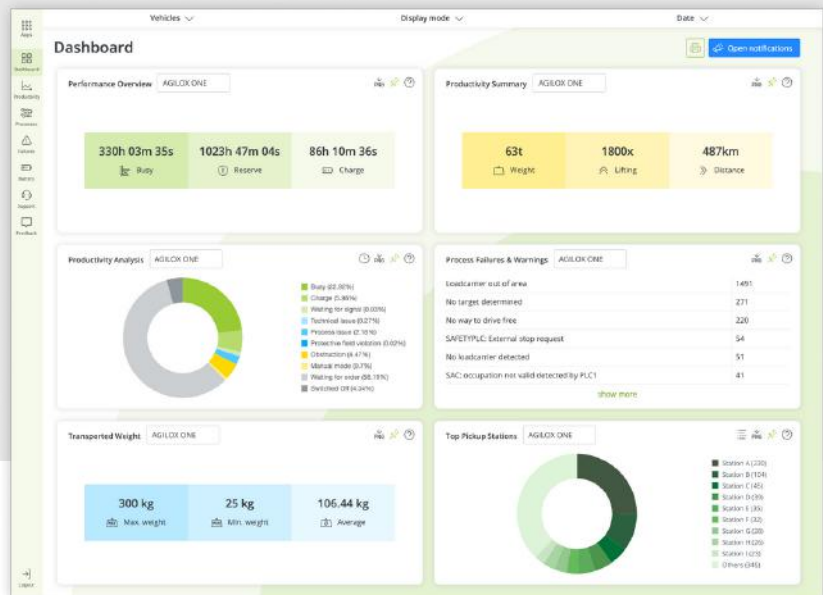
Maximum Security
Certified data center with highest security encryption.

Detailed Reports
3.5 billion + data points per vehicle for precise analysis.

Anywhere, Anytime
Access data from any device for continuous optimization.

✅ Safety in the Overview by

APN connection

ISO 27001 certified data centers

Encryption according to highest standards

Embracing the Power of Simplicity

X-SWARM Technology

One for all. All for one. All for you

All Agilox AMRs communicate in real time, exchanging data on their position and status several times per second. They autonomously allocate tasks, manage the supply and removal of goods, efficiently navigate by identifying free routes, and effortlessly adapt to changes in their environment.

Plug & Perform

it's as easy as that

Plug & Perform technology allows for AMR deployment in under 12 hours, with workflows adaptable in minutes. Skip the long implementation times and high commissioning costs while easily integrating third-party modules, such as (high-)speed doors and IT systems. Built for open communication, the AMRs use Wi-Fi connectivity for smooth interaction and control.

Unique Simplicity

Because it's about ease of use

Engineered with a user-first approach, the technology is designed for intuitive and seamless operation. Hardware, controls, software, and cloud architecture are developed in-house and fully integrated to streamline every phase, from commissioning and operation to maintenance, control, and workflow adjustments.

Flexibility

Being flexible is a guarentee of success

The AMRs instantly adjust to changing requirements with a single click. Stations, map layouts, and entire workflows can be created, modified, or relocated effortlessly, without extra costs or external assistance.

Safety

It's also absolutely safe

The AMRs operate safely alongside employees, navigating shared travel and transport routes without incidents. Advanced safety sensors and a dynamic 360° protective field enable smooth and efficient performance in mixed traffic environments. They are certified to meet key industry safety standards, including CE, UL, and ISO 3691-4.

Supply Chain

Simply no more Standstill. 24/7

Maintain a seamless material flow with absolute flexibility, even in dynamic environments. In the event of a robot failure, the remaining AMRs in the swarm automatically take over to ensure uninterrupted operations. Prevent supply shortages and optimize transport throughput times with fully automated efficiency. Thanks to ultra-fast charging, AMRs are ready for use again within minutes, ensuring a perfectly synchronized material flow.

Features and Add-Ons

Obstacle Avoidance

3D sensor system improves safety in human-machine environments.

Signal Lighting

Multi-color signals (blue, green, red) for increased visibility, with additional fork-tip lights (white, yellow).

Charging Devices

Available as mobile or stationary units

ESD Protection

Prevents electrostatic charging in ESD-sensitive areas.

Rubber Guards

Front and fork-tip protection to deflect dirt.

Barcode Reader

Reads barcodes and QR codes for identification.

LHD Connector

Interface for BCO integration

Safety & Scanners

Navigation Scanner
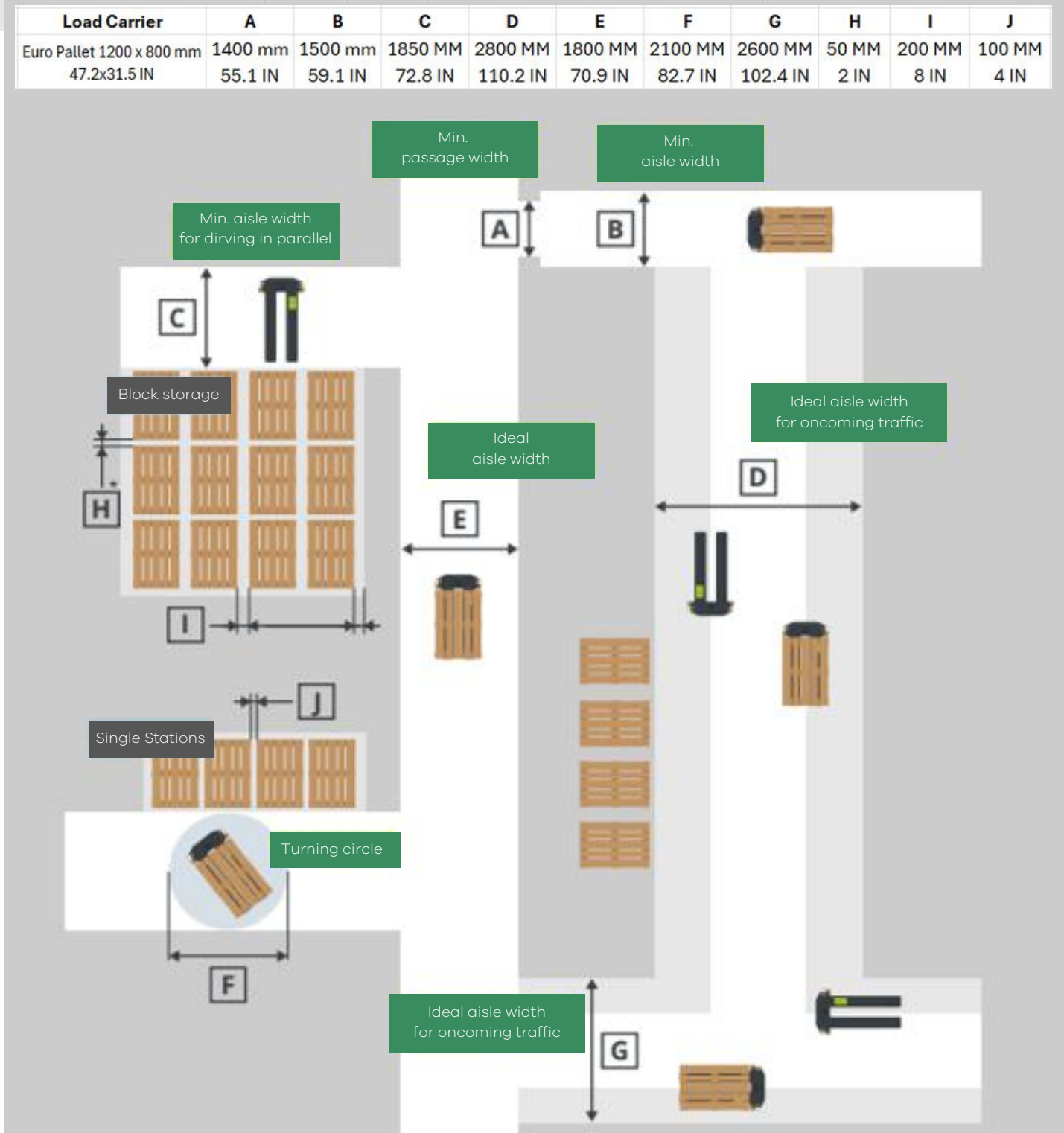
"Collision Avoidance"

SICK Nanoscan

Load Sensor

Ultrasound Scanner

The AMRs are equipped with advanced safety systems designed to protect employees, infrastructure, and the robots themselves.

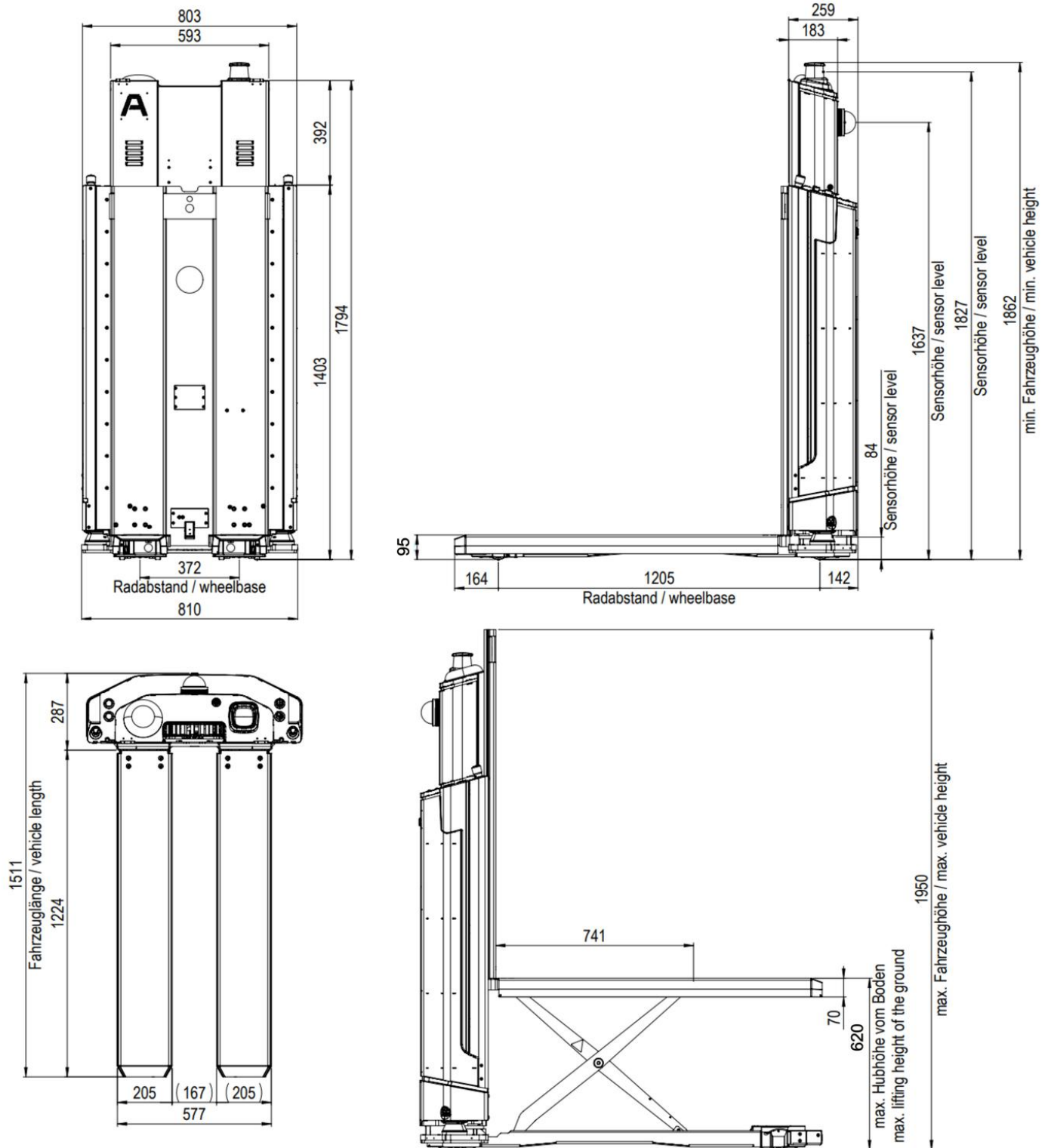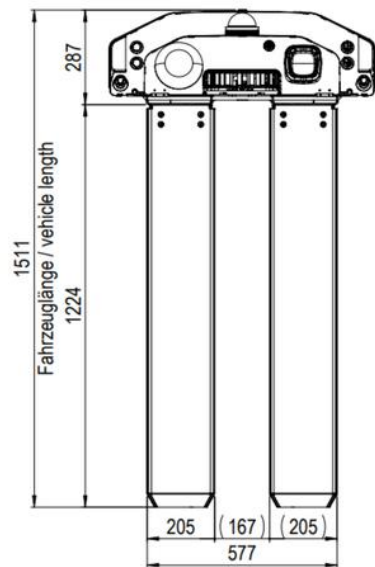Compliance with international standards such as **ISO 3691-4 and EN1525.**

Drive Path Design

Load Carrier	A	B	C	D	E	F	G	H	I	J
Euro Pallet 1200 x 800 mm 47.2x31.5 IN	1400 mm 55.1 IN	1500 mm 59.1 IN	1850 MM 72.8 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 dirving in parallel

A

B

C

Block storage

Ideal aisle width for oncoming traffic

Ideal aisle width

D

E

H

Single Stations

I

J

Turning circle

F

Ideal aisle width for oncoming traffic

G

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Dimensions

Dimensions

Double-Scissor Lifting System

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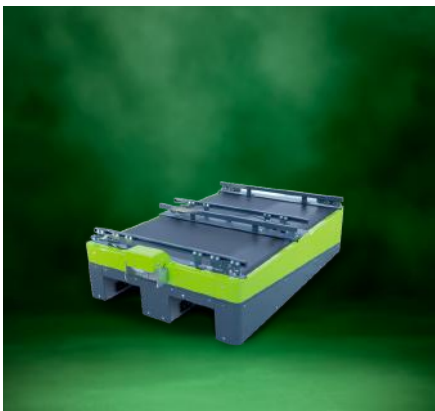SCANDINAVIAN LOGISTICS

Variations

ONE Longer Forks 1400 | 1600 | 1800

NFK Mono Fork 1200 | 1400

Box Carrier Different Variants

ODM Mono Fork 600 | 800

OCF Free Forks 1200 | 1400
Payload: 1.500 kg | 750 kg
Max. Lift Height:
1.600 mm = Vehicle Height 2,56 m
1.200 mm = Vehicle Height 2,34 m