

COMPACT AUTONOMOUS FORKLIFT AGV

K55 Pallet Stacker

Compact autonomous lifting for narrow aisles and pallets up to 1,200 kg.

500 / 1,200 kg
payload

1 m/s

Mapping

STANDARD

VDA5050
compatible

APPLICATION

Compact autonomous forklift for transporting and lifting pallets in spaces with maneuvering restrictions. Designed to integrate into complex flows and reduce human intervention.

Key applications

- Transport and lifting of pallets up to 1.2T
- Narrow aisles and confined spaces
- Connection with ASRS and staging areas
- Automation of complex logistics flows

TECHNICAL SPECIFICATIONS

Model	K55Sx / K55Bx / K55Ax
Dimensions	Sx/Bx: 1920 x 920 x 2340 mm Ax: 1933 x 1354 x 2346 mm
Lift height	Sx/Bx: up to 1500 mm; Ax: up to 1400 mm
Maximum payload	Sx: 500 kg; Bx/Ax: 1,200 kg
Maximum speed	1 m/s
Navigation	Mapping
Safety	Safety scanners according to configuration
System	Bidirectional

KEY INDUSTRIES

Automotive

Manufacturing

Logistics

Pharma & Health

Food & Beverage

Electronics

Retail

About Kivnon Robotics

Founded in Barcelona in 2009, Kivnon designs, manufactures and implements AGV and AMR solutions for intralogistics worldwide. With 16+ years of experience and 6,000+ mobile robots deployed, we deliver continuous, zero-downtime automation for the most demanding industries.

16+

Years

6,000+

Robots

Global

Reach

Part of Cap Capital · Green Robotics Division · Backed by 52M€ social capital



K55 Pallet Stacker · compact autonomous lifting

Key Features

- **Compact pallet lifting** - Transports and lifts pallets according to variant.
- **Payload options** - 500 kg (K55Sx) or 1,200 kg (K55Bx/K55Ax).
- **Lift options** - Up to 1,500 mm (K55Sx/K55Bx) or 1,400 mm (K55Ax).
- **Mapping navigation** - Autonomous operation with mapped routes.

500 / 1,200 kg

Payload capacity

1 m/s

Max speed

1,400 / 1,500 mm

Lift height

Mapping

Navigation

Mapping Navigation - Compact Pallet Stacking

The K55 Pallet Stacker transports and lifts pallets in narrow aisles and confined spaces. Its mapping navigation supports autonomous pallet handling, ASRS and staging connections, and bidirectional operation for complex logistics flows.

Pallet lifting

Narrow aisles

Mapping navigation

ASRS integration

VDA5050

READY

Seamless integration into multi-vendor fleets, Fleet Manager and WMS.

Global Partner Network

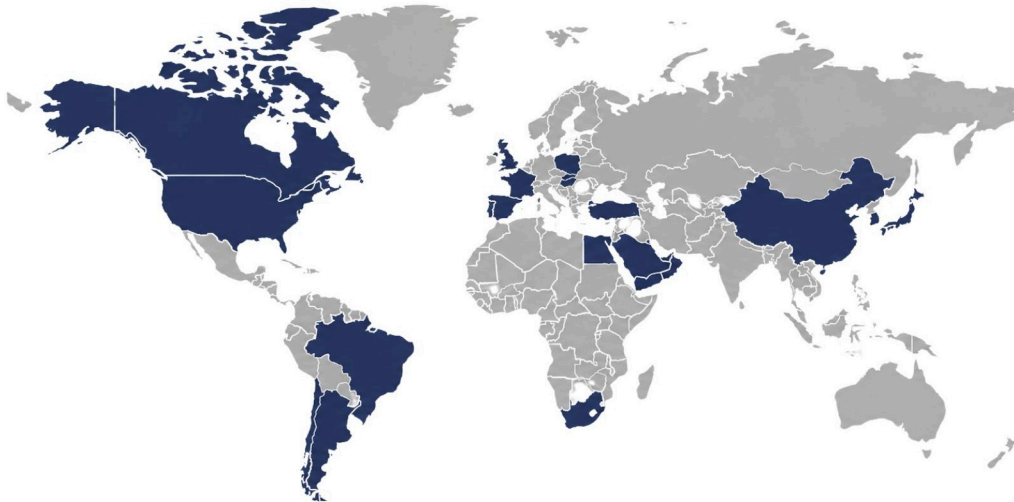
A worldwide network of certified integrators, distributors and technology partners ensures local implementation, after-sales service and continuous support.

Europe

Americas

Asia-Pacific

Middle East



Trusted by global industry leaders

Gestamp

Benteler

Adient

Alps Alpine

SIG

Citroën

Ford

Ready to automate your intralogistics?

We design end-to-end AGV/AMR solutions tailored to your facility.