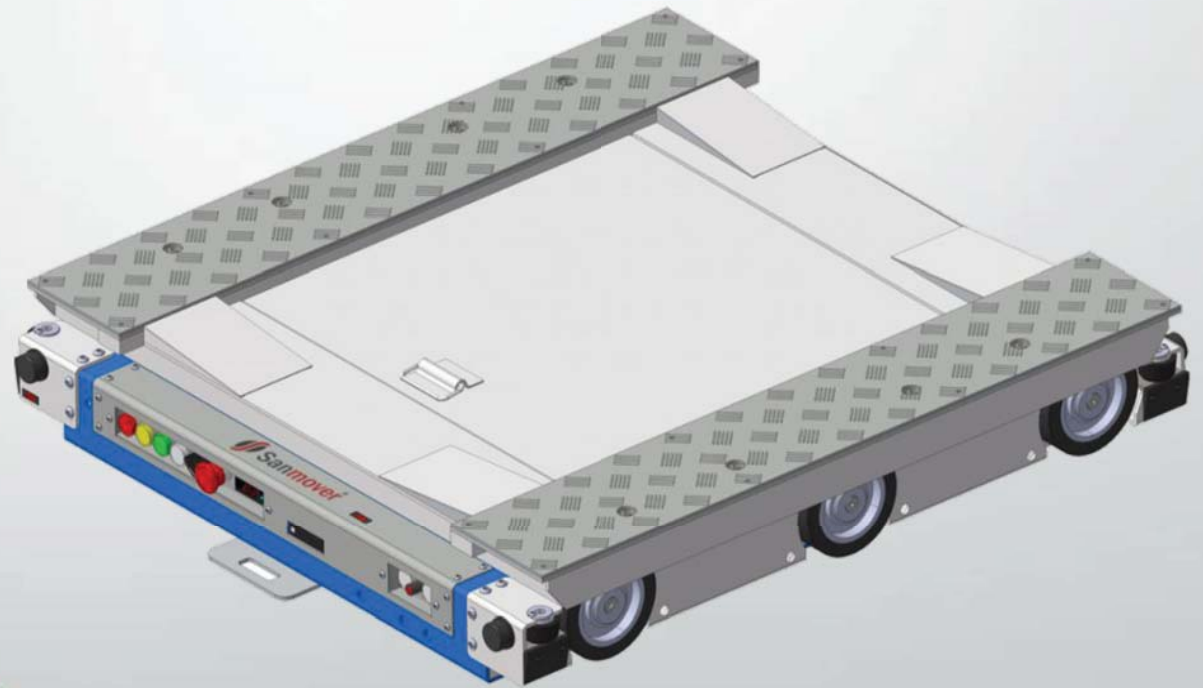


Radio Shuttle Pallet
Smart Storage System



Our story

Sanmover® Industrial technology Company has been designing, manufacturing, and marketing semi-automated storage solutions since 2010. During this period Sanmover® gained many “firsts” in the industry, introducing Sanmover® Radio - Shuttle Pallet device to potential customers all over the world.

Sanmover® products are designed and developed by professional engineer staff, and comply with international Standards and specifications. R&D professional engineers develop solutions to get more efficiency, securely and cost effective products. The products provide an essential bridge between Racking supplier and end users.

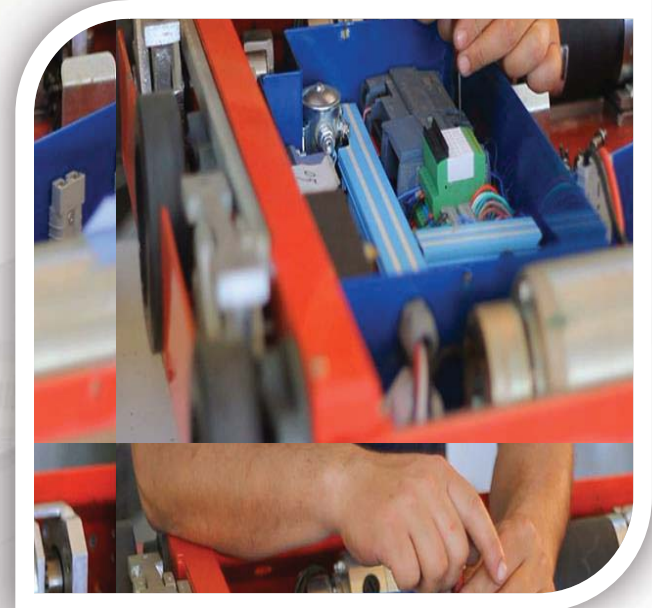
We believe in creating lasting partnerships with our customers all over the world thanks to high-technology and high-quality products. We support our customer relationship with honesty, respect, and friendliness. Sanmover® products with innovative design are successfully used in Food, Packaging, Archive sectors.

Mission

Our mission is to develop high-quality solutions that positively impact our customer's success and profitability with skilled, knowledgeable, professional R&D team.

Vision

If our product provides improve workflow efficiency and reduce operations cost through time savings and reduction of user error to the customer, this is our most important Success!



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WAREHOUSE & STORAGE SYSTEMS

What is Sanmover® Shuttle Pallet ?

It is Semi-automated storage solution for lane-based storage, which combined Drive-in, Push-back, and Live Storage systems in one.

The Shuttle Pallet is remotely controlled by user and moved from one storage lane to another by forklift operator.

It moves goods independently through the lane manually or automatically optimizing storage, loading, and unloading stages.

Sanmover® Shuttle Pallet maximizes warehouse space eliminating aisles between pallets with a greater turnover rate.

It provides high density storage and increases operational efficiency.



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Advantages

Minimum space Maximum Storage capacity

It can work either as LIFO or as FIFO storing system, which is efficient alternative to Flow Racking, Pushback, and Drive-in Racking systems

No risk of damage to the handling equipment or racks

Removes the need for specialist forklift trucks

Reduce number of forklifts and forklift operators, and reduce operating cost

Working at -30°C / +50°C temperature environment at the same time

Is able to store pallets with 800mm, 1000mm, 1200mm depth by the same Shuttle machine

High operating Speed

Maximum carrying capacity 1500kg



GENERAL FEATURES

Features of Sanmover® Shuttle Pallet

Length	: 1150mm
Width	: 975mm
Height	: 175mm
Device weight	: 320kg
Device Noise Level	: ≤ 80db
Pallet Lift Height	: +40mm
Speed (Loaded)	: 60m/min
Speed (without load):	70m/min
Lift Time	: 4 sec
Release Time	: 4 sec



Stored Pallet dimensions

Width	: 1200mm
Depth	: 800mm, 1000mm, 1100mm
Load weight	: 1000kg
Pallet Quality	: Europalet Quality Standard

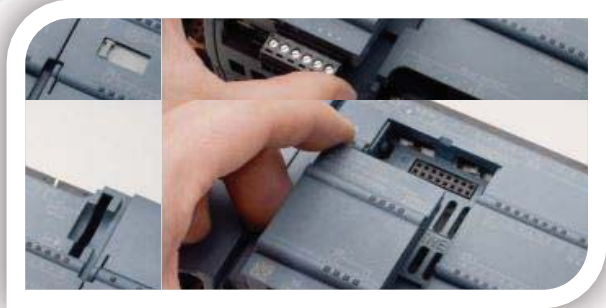


DRIVE AND CONTROL OF THE DEVICE

Control Unit PLC (Programmable Logic Controller)
- an industrial solid-state computer that monitors inputs and outputs, and makes logic-based decisions for automated processes or machines.

Brand : Siemens PLC

Feature : Suitable for Industrial environment, unaffected by external environment, doesn't get parasites.



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MOTOR DETAILS

Motion Motor
Motion Motor Control : by Driver
Motion Motor Power : 1000 W
Motion Motor Speed : 2700 rpm

Lifting Motor
Lifting Motor Control : Direct
Lifting Motor Power : 420 W
Lifting Motor Speed : 1450 rpm



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DEVICE WHEELS

Number of Wheel	: 6
Number of Drive Wheel	: 6
Diameter of the Wheel	: 140 mm
Wheel cover	: Polyurethane

The possibility of wheel-spinning is zero due to drive wheel specifications. It allows Shuttle device to move stable and efficient driving comparing with other similar devices with the same motor power.

Advantages of Polyurethane covered Wheels:

- Low temperature resistant
- Impact resistant
- Chemical resistant
- Abrasion resistant
- Doesn't leave stain and trace



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REMOTE CONTROL

RF REMOTE CONTROL – allows operator to keep an eye on Shuttle device and be informed, which mode the device is currently running, by wireless communicating with the device.

Specifications

Type	: Radio Controlled
Keypad	: 8 soft buttons
Protection Class	: IP67
Power Supply	: Battery
Communication Dist.	: 100m (closed area), 500m (open area)

Advantages:

- Doesn't get dust into the Device
- Water resistant
- Unaffected by low temperature, humidity environment



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BATTERY

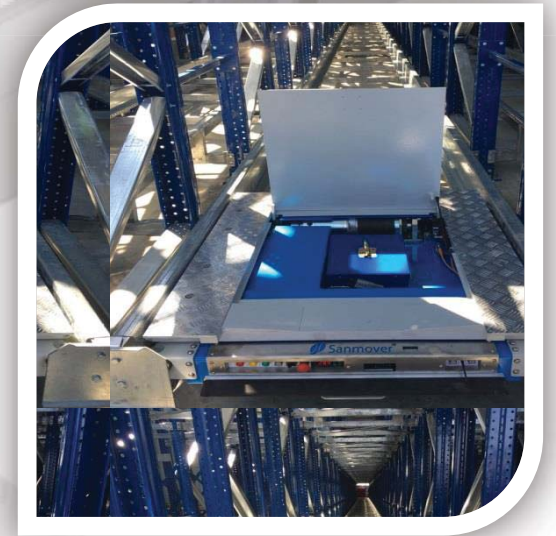
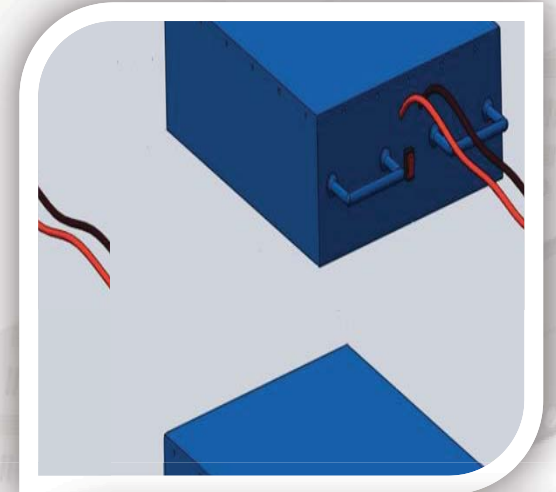
Lithium Battery – most efficient and long life work type battery

Specifications:

Type	: Li-ion
Voltage	: 24 V
Capacity	: 80-150 Ah
Weight	: 15kg
Working period	: 8-18 hours
Charging period	: 5-8 hours
Battery Life	: 1200 cycle/min
Battery quantity	: 1 pc

Advantages:

- Light and easy for charging
- No acid, no leakage, no gas output
- Vibration resistant
- Working period is 8-18 hours
- Charging period is 5-8 hours



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DEVICE SENSORS

Photocell Digital Distance Sensor

- Back drive stop sensor
- Back Pallet stop sensor
- Forward Pallet stop sensor
- Back Pallet deceleration sensor

Laser Analogue Distance Sensor

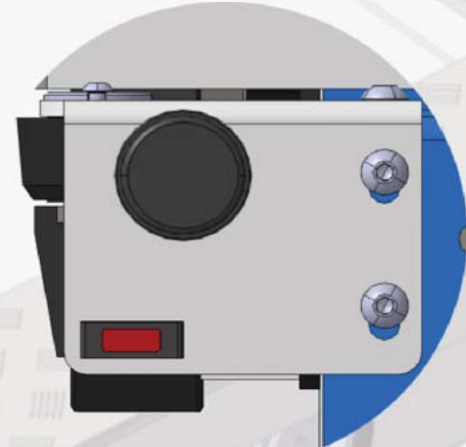
- Forward Pallet deceleration sensor
- Forward Drive deceleration sensor

Inductive Sensor

- Pallet Up Sensor
- Pallet Down Sensor

Safety Sensor

- Forward Safety Sensor
- Back Safety Sensor



OPERATIONAL FUNCTIONS

FIFO working mode - pallets moved to end position, storage and retrieval from opposite sides.

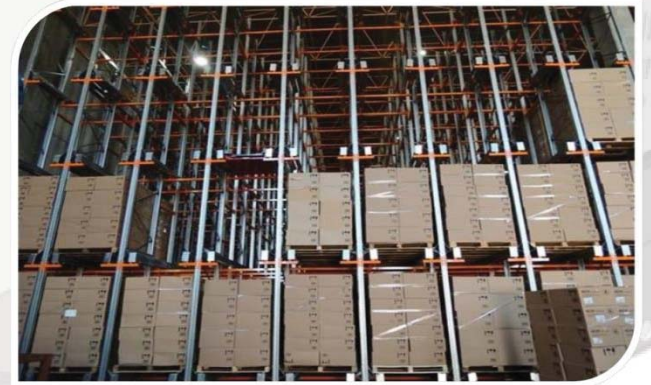
Automatically unloads all the pallets in the lane. When Sanmover® Shuttle Pallet puts the first pallet it goes automatically for the next pallet. Before positioning next pallet it waits for previous pallet to be cleared from the lane.

LIFO working mode - pallets moved to the home position, storage and retrieval from same side. It's the most common system, where input and output of the pallet is in the same direction.

STACK-IN working mode – Shuttle pallet moves pallets to unloading location

STACK-OUT working mode - Shuttle pallet moves pallets to loading location

IN-OUT working mode – Load/unload a specific number or all pallets in a lane



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SANMOVER® OPTIONS

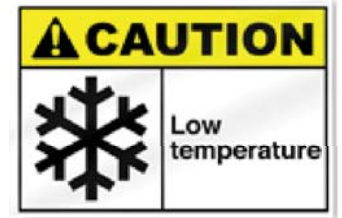
Shuttle Pallets for Light Loads

Inventory count – counts pallet on the lane,
reduces human errors

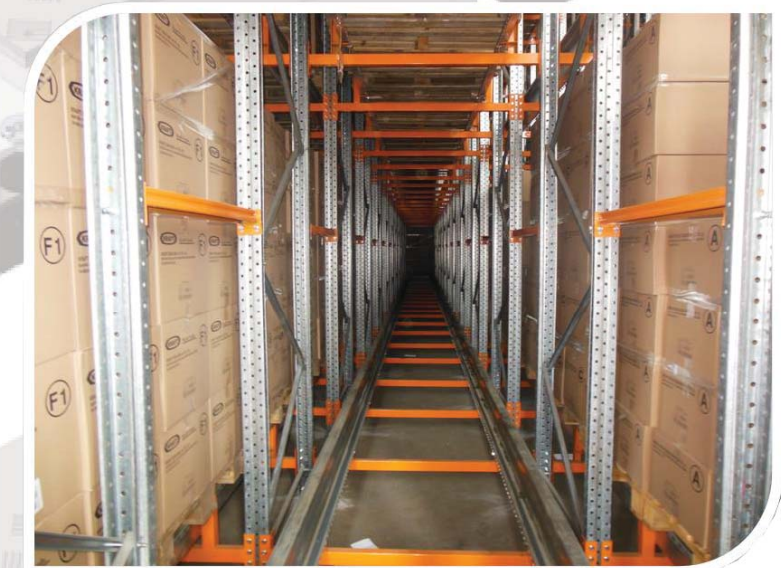
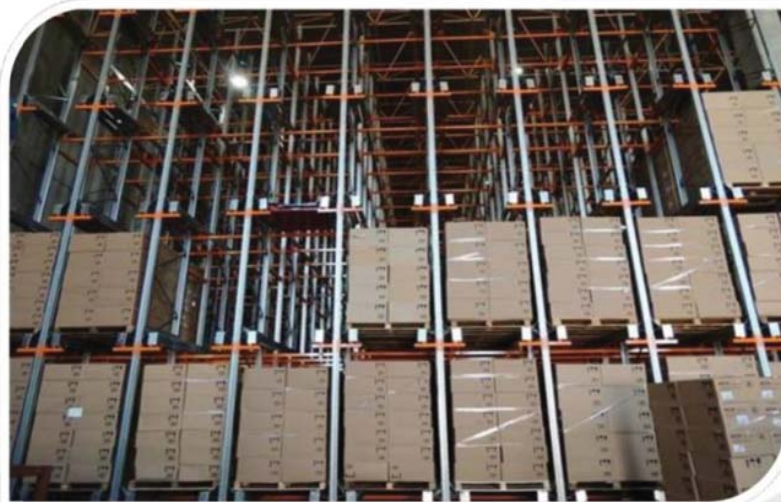
Location notice system – provides latest location
of the Shuttle by wireless connection ERP-WMS
or to hand terminal

WMS – Radio-Shuttle can be remote controlled
by WMS. Inventory Count can be done from
miles away via recording on database by the
Shuttle

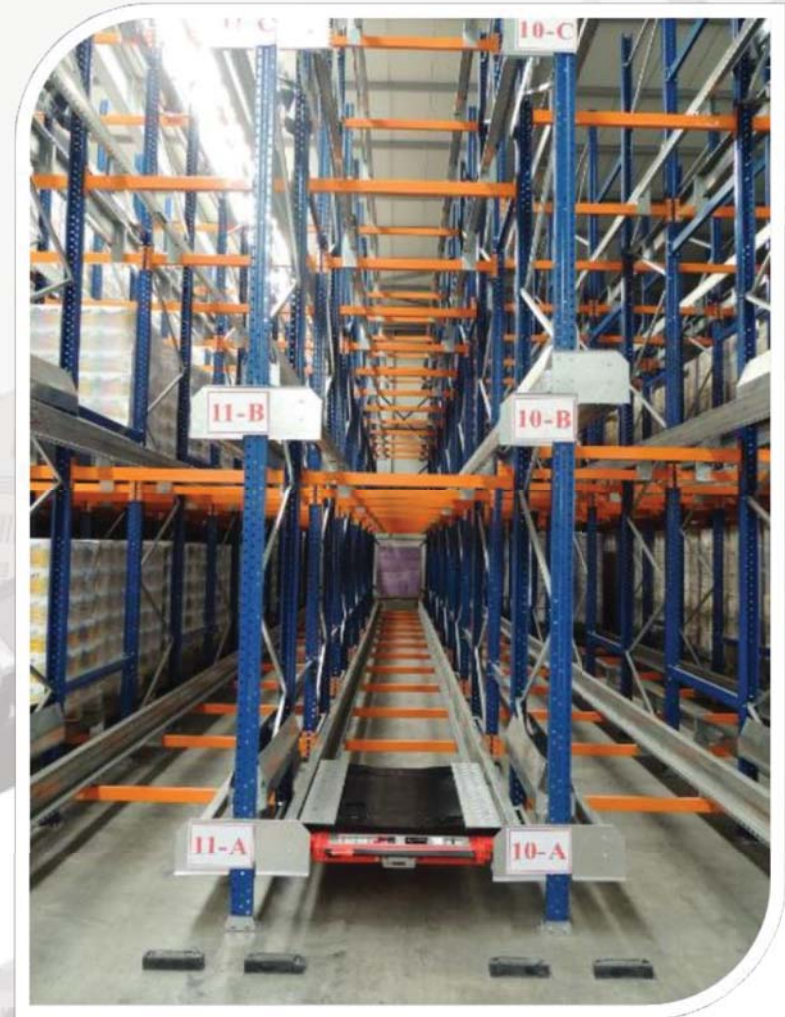
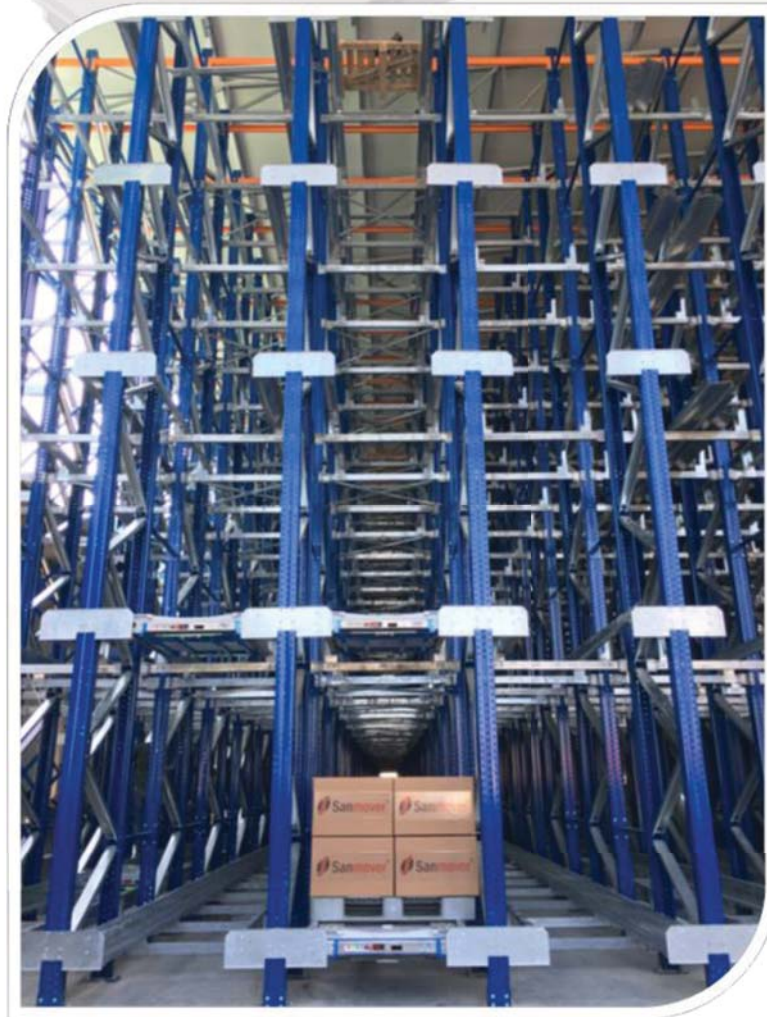
Coldroom Shuttle



APPLICATION OF RACKING SYSTEM & SHUTTLE PALLET



APPLICATION OF RACKING SYSTEM & SHUTTLE PALLET



CERTIFICATES



European Conformity Certificate



Turkak



GOST Certificate



TSEK Quality Certificate



British Quality Certificate

REFERENCES

ColaTurka

Coca-Cola

SIRMA®

Paşabahçe

Torku
Doğal olarak bizden

DOĞANAY®

DOĞUŞ

TATLOG

akfood
frozen food

Kalkan

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TURKUVAZ

ثلاجة شماعة
Shehata Cold Stores

DEVOLD®
NORWAY 1853

aromsa

Eczacıbaşı

VitrA®

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rack & storage systems

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