



ASTOR - Automatic Storage System

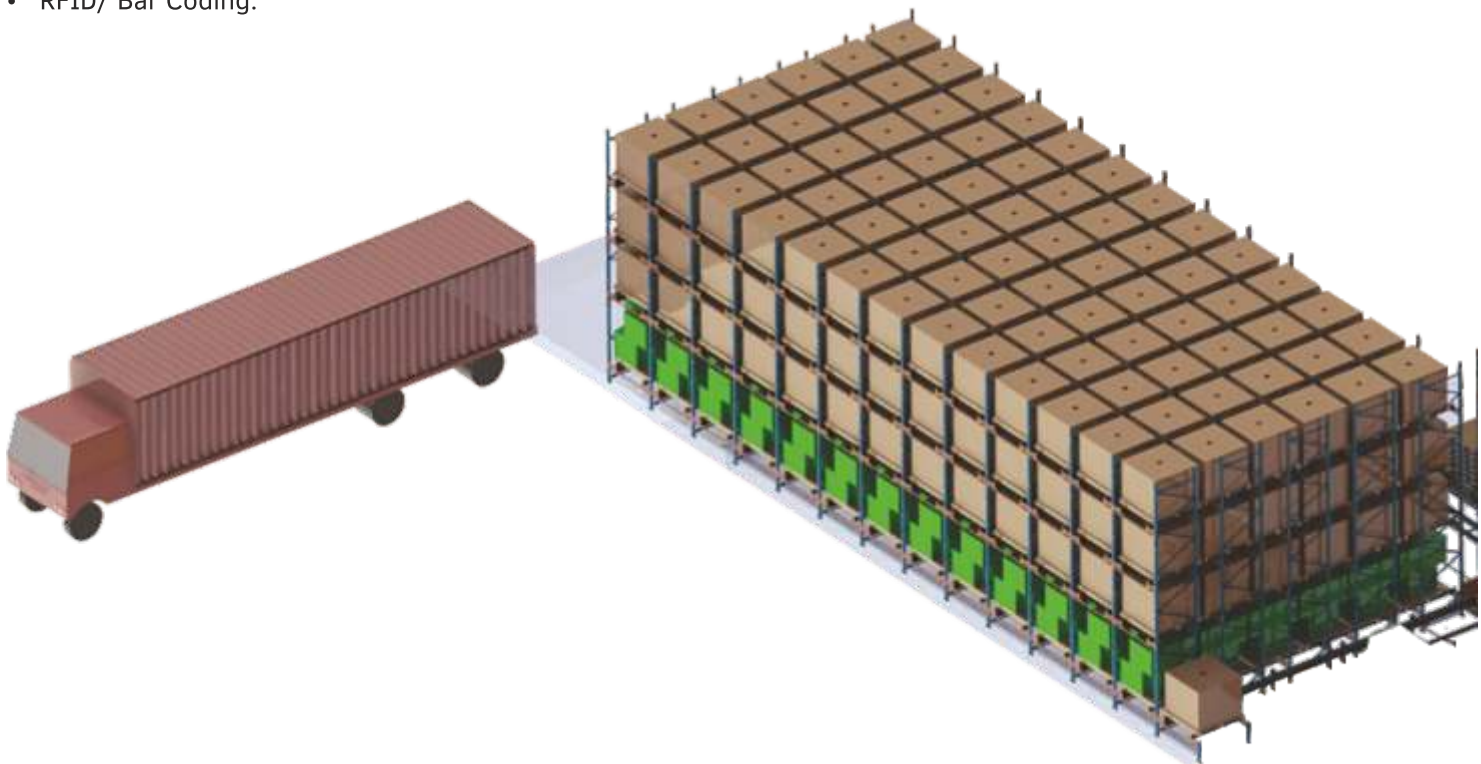
ASTOR - Automatic Storage System

LIMITLESS INNOVATION IN
LIMITED SPACE

SIEGER ASTOR – Storage System

Space is money. Space is time, when space is less, more efficient is the manpower. Our storage solutions including automatic storage & retrieving system is programmed to sort, store, locate, transport and pack goods in the manner you want them.

- Automated sorting and retrieval based on ERP instructions.
- Vertical storage of cartons, sacks, pallets.
- Auto tagging of packages.
- RFID/ Bar Coding.



SIEGER ASTOR - MERITS

- Automated sorting and retrieval based on ERP instructions.
- Vertical storage of cartons, sacks, pallets.
- Auto tagging of packages.
- RFID/ Bar Coding.

Storage System - Types

- High SKU
- Low SKU

Storage System - High SKU



High SKU - Large varieties and less volume per variety

Features

- Quick Storage & Retrieval.
- Ideal option for Random & FIFO.
- Less floor space.
- Value added automation



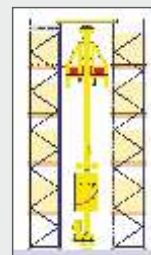
Large varieties



AS/RS + Telescopic Fork

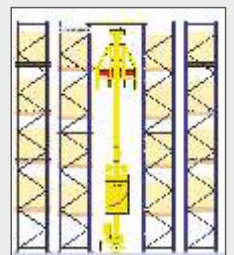


SINGLE Deep



The above structure contains of single deep pallet and multiple of rows.

DOUBLE Deep



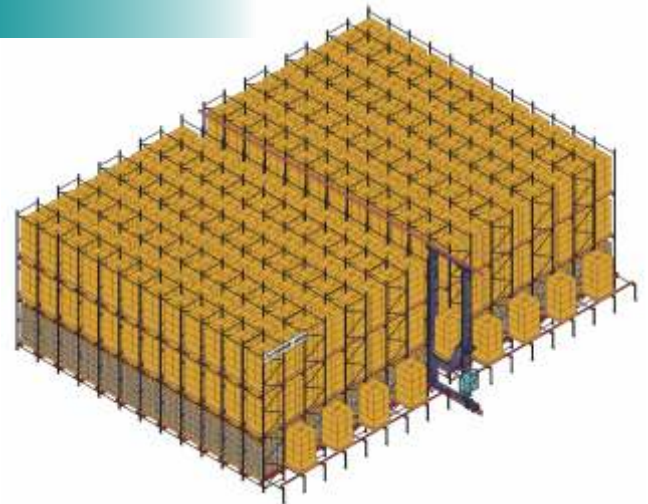
The above structure contains of double deep pallet and multiple of rows.

Storage System - Low SKU

Low SKU - Less varieties and high volume per variety

Features

- High Density Storage.
- Optimization of Space.
- Best Suitable of selective FIFO.
- Good control of inventory.



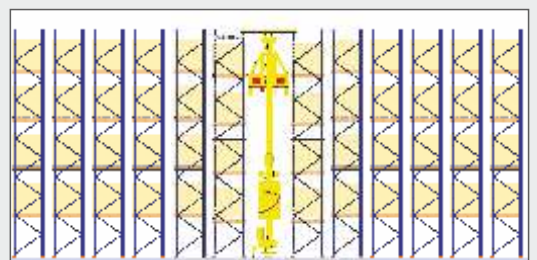
Less varieties



Wifi Radio Shuttle



MULTI Deep



The above structure contains of multiple deep pallet and rows.

SIEGER – ASTOR Modules

- SIEGER AS/RS
- SIEGER Telescopic Fork
- SIEGER Wifi Radio Shuttle
- SIEGER Conveyor System (In/Out)
- SIEGER ICS (Inventory Control System)
- SIEGER WMS (Ware house Management System)
- SIEGER Racking System

SIEGER – AS/RS

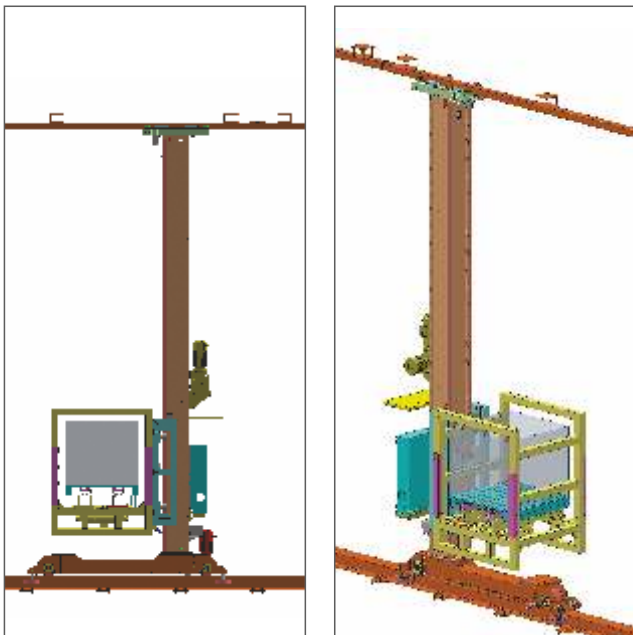
AS/RS Stacker Crane

- Single Column (for lighter loads)
- Double Column (above 500kgs.)

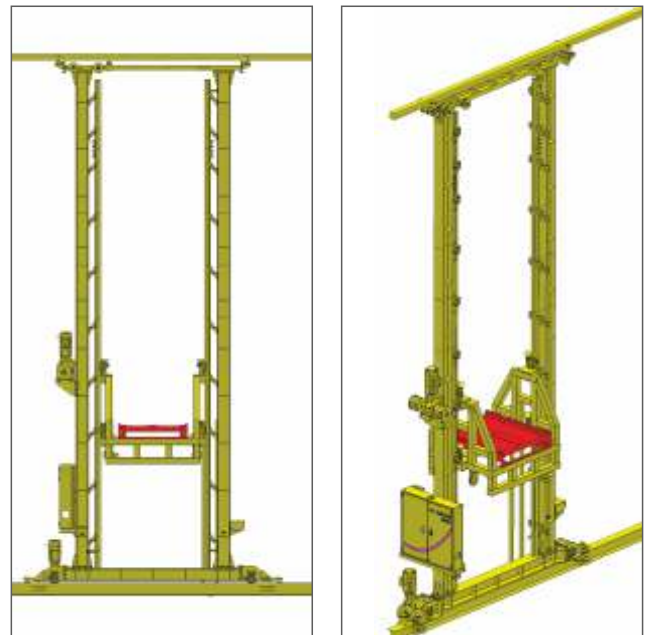
Technical Specification & Features

- Max Capacity 2000Kgs.
- Max Height 25m
- Max. Running Speed 1.5m/s
- Max. Speed and Lifting 0.5m/s
- WIFI Controls
- Suitable for pallet sizes 1200 x 1200mm
- Anti Drop Mechanism.
- Laser Guided.

AS/RS Single Column
Stacker Crane



AS/RS Double Column
Stacker Crane

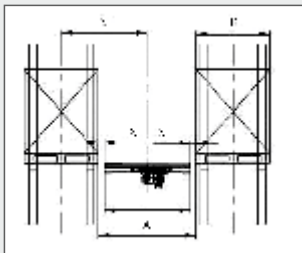


Single Deep / Double Deep

- Load capacity – 1000 / 1500kgs.
- Quick storage/ retrieval.

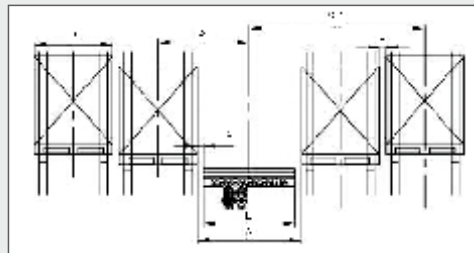


Single Deep



L Fork length
S Single Deep stroke
A Aisle width
D Load length
X Lateral clearance

Double Deep



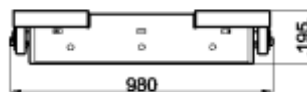
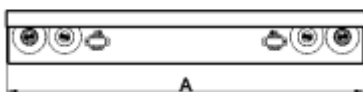
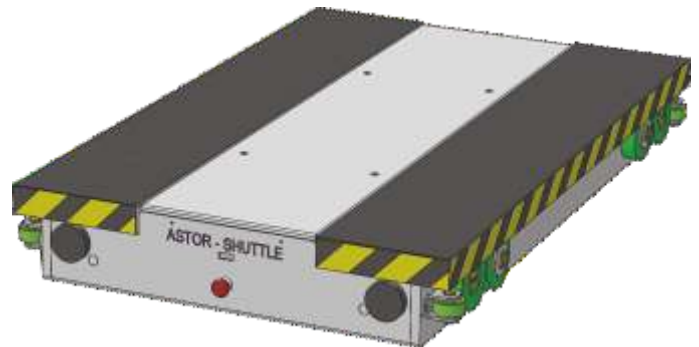
L Fork length
S1 Single Deep stroke
S2 Double Deep stroke
A Aisle width
D Load length
X Lateral clearance
Y Gap between loads

SIEMER Wifi Radio Shuttle

SIEMER Wifi Radio Shuttles is suitable for deeper access & for dense storage of pallets.

Features

- Laser Guided and WIFI Controls
- Automatic functions operated from WIFI
- Power supply - Lithium battery / Super cap
- Capacity – 1500kgs



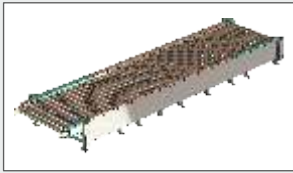
Sl.No	Description	Specifications		
1	Pallet length	800 mm	1000 mm	1200 mm
2	Pallet Width	1200 mm	1200 mm	1200 mm
3	Shuttle length A	1086	1286	1486
4	Shuttle Width	980	980	980
5	Shuttle height	195	195	195
6	Pallet Lifting height	45 mm	45 mm	45 mm
7	Lifting Load capacity	1500 kg	1500 kg	1500 kg
8	Travelling speed With load	40 m/min	40 m/min	40 m/min
9	Travelling speed Without load	58 m/min	58 m/min	58 m/min
10	Lifting and Down time	2.5sec	2.5sec	2.5sec
11	Ambient temperature, Deg.C	+ 45 to -30		
12	Battery Voltage	48 V	48 V	48 V
13	Travelling Motor Power	800 w	800 w	800 w
14	Lifting Motor Power	800 w	800 w	800 w
15	Battery type	Lithium ion / Supercap		
16	Connectivity	Wi - Fi		

SIEMER – Conveyor System (In / Out)

- ASRS Loading & Unloading. (Material IN & Out)
- Transport the goods from production to storage systems.
- Act as buffer for In/Out of pallets.



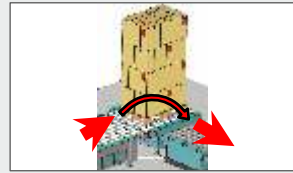
Linear Conveyors



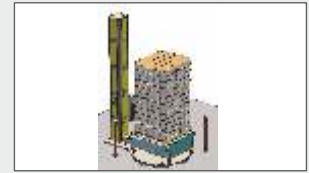
Palletize



Turn Table



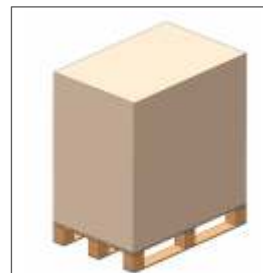
Stretch Wrapping



SIEMER - ICS (Inventory Control Station)

Function of Inventory Control Station

- Weight measurement.
- Pallet Dimensions measurement.
- Pallet Identification.



Bar Coding / RFID

Identification of pallets using BAR Coding System or RFID.



Weighing Scale

- Pallet Weight measurement.
- Pallet Dimension measurement.

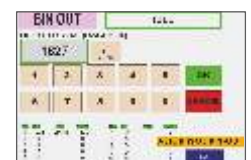
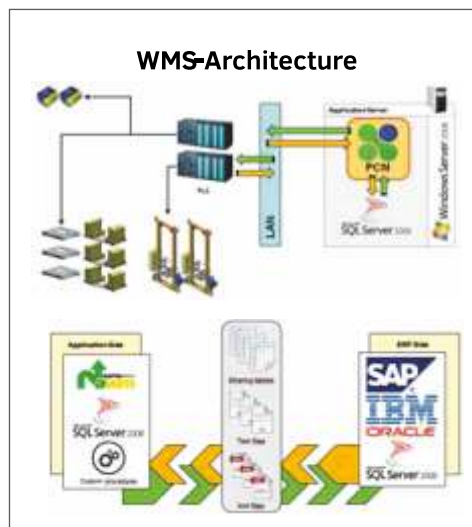
SIEMER – WMS (Warehouse Management System)

Features

- Touch Screen Display
- IOT Technology
- Master Control Panel with PLC
- Link to ERP

Reports

- Total stock available
- Variety wise stock
- What is where?
- Where is what?
- Particular variety locations.
- Particular variety retrieval FIFO or on demand date wise.
- Day wise in out report.
- Monthly report.
- Total operation time of ASRS.



Types of Racking System

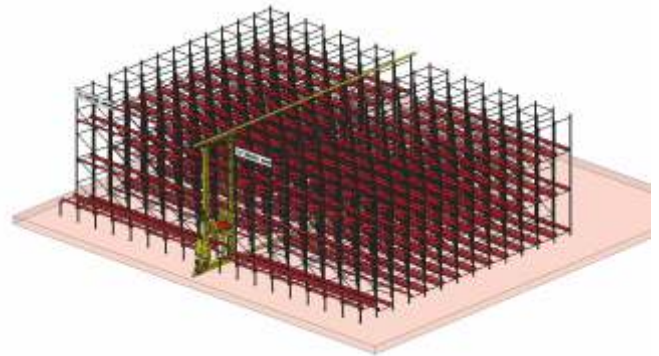
- Radio shuttle pallet racking.
- Telescopic fork pallet racking.

Features

- As per EN Standards.
- Customized Design.

Protection Devices

- Column Guard
- Pallet Support Bar
- Skid Channel
- Frame Protectors
- Rack End Barriers
- Rear End Support
- Frame Protections
- Barriers
- Anti Collapse Mesh



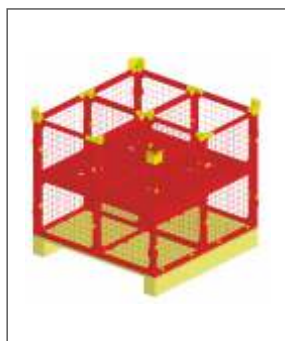
Types of Pallets (Storage Goods)

- Different Standard sizes of pallets used for loading & retrieving in ASTOR.
- Customized Pallet based on Storage Goods & Varieties.

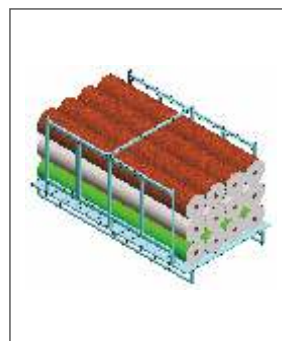
Cone Pallet



Full Bin



Fabric roll



Box Pallet



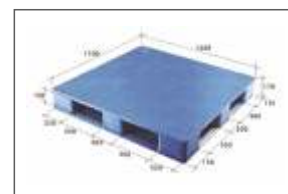
Wooden Pallet



Metal Pallet



Plastic Pallet





Infrastructure

- State - of - the - art - infrastructure spread over 15,000 SQ.MTR.
- Facility comprises CNC Laser Sheet metal process equipments, online surface treatment and CNC Machining Centre,
- Quality established as per ISO 9001:2015 Standards.



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