

[www.siegerglobal.net](http://www.siegerglobal.net)



**SIEGER**  
partnering progress



Our Automatic Storage and Intralogistics division caters to a wide range of industries giving them direct savings in space & manpower. We offer a wide range of end-to-end solution to make maximum use of your warehouse space.



# ASTOR

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

ASTOR - Automatic Storage Solutions

## BENEFITS

- End-to-End Control of fabric rolls movement from storage to production
- Manpower savings in logistics and fabric rolls movement
- Digital control of inventory directly linked to the ERP
- Six times ++ saving in warehouse space
- Safe handling of fabric rolls
- FIFO and Quick flow to cutting table







# SOLUTIONS WE OFFER



## Automatic Storage & Retrieval System (AS/RS)

### For High Stock Keeping Unit ( SKU )

- Stacker crane with Telescopic Fork
  - Single Deep
  - Double Deep

### For Low Stock Keeping Unit ( SKU )

- Stacker crane with Radio Shuttle System
  - Multi Deep

### Racking System

- Radio Shuttle Pallet Racking
- Telescopic fork Pallet Racking

### Control Systems

- Warehouse Management System (WMS)
- Warehouse Control System
- Inventory Control Station

### Fabric Handling Systems

- Conveyors : Chain / Roller / Belt / Overhead conveyors
- Transfer Shuttles
- Stretch Wrapping
- Turn Tables

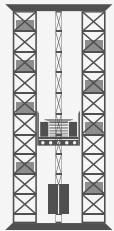
### TRIMS Handling System



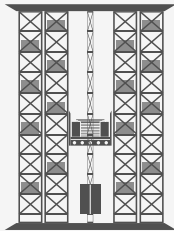


# AUTOMATIC STORAGE & RETRIEVAL SYSTEMS (AS/RS)

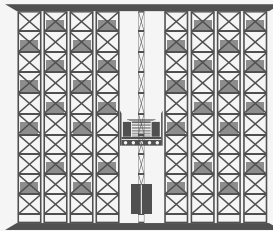
The Automatic Storage & Retrieval System is designed with a dual mast for maximum stability even at high through-put rates. Our unique design ensures a cradle like mechanism that Facilitates smooth and safe operation even for extremely heavy loads at high speeds.



● Single Deep



● Double Deep



● Multi Deep

Our system is designed for **single / double deep / multi-deep storage / retrieval** to make maximum utilization of the available space







## TELESCOPIC FORK

The telescopic fork system is designed for High Stock Keeping Units (SKU) (Large varieties and less volume per variety). The telescopic fork enables for fast transfer of pallets from the racks to the AS/RS. Sieger telescopic fork is suitable for efficient single and double deep retrieval of pallets



Quick storage /  
Retrieval

**2 TONS**

Single & Double Deep -  
Load capacity of 2000 kgs



# SALIENT FEATURES OF SIEGER AS/RS

## 2 TONS

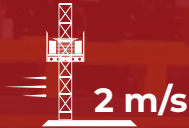
Loads up to 2000 kgs  
can be easily handled



Smooth and  
safe operation



High factor  
of safety



Running speed of 2 m/s



Lifting Speed of 1 m/s



Height up to 40m  
can be achieved



Wi-fi control



Anti-drop mechanism



Laser Guided



FIFO easily achieved



Multiple pallet sizes

## RADIO SHUTTLE SYSTEM

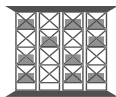




# RADIO SHUTTLE SYSTEM

Our Radio Shuttle is designed for low SKU. Shuttle system is suitable for less variety and high volume per variety.

## FEATURES



High storage density



Better space optimization



Best suitable for selective FIFO



Good control of inventory



Laser Guided

**1.5 TONS**

Load capacity of 1500 kgs



Automatic functions operated from Wi-fi



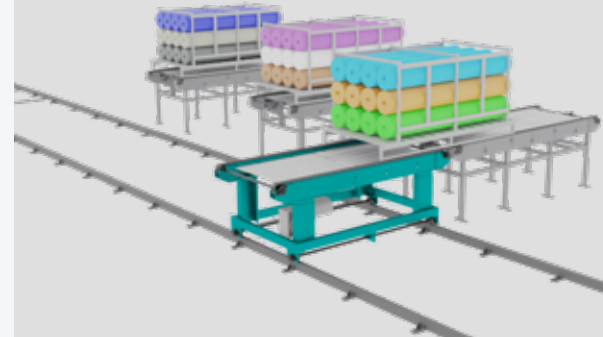
Lithium ion / Super capacitor is used for power supply to the shuttle

# MATERIAL HANDLING SYSTEMS

Stretch Wrapping



Transfer Cart



Turn Tables



Conveyors : Chain / Roller / Belt / Overhead





# INVENTORY CONTROL STATION

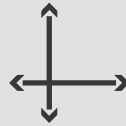
Our Inventory Control Station (ICS) checks the weight of the pallet with reference to the ERP. This gives a complete control of material flow and eliminates the chances of manual errors. The ICS also checks the pallet profile for material that are not properly placed inside the pallet. This ensures a safe & damage free operation.



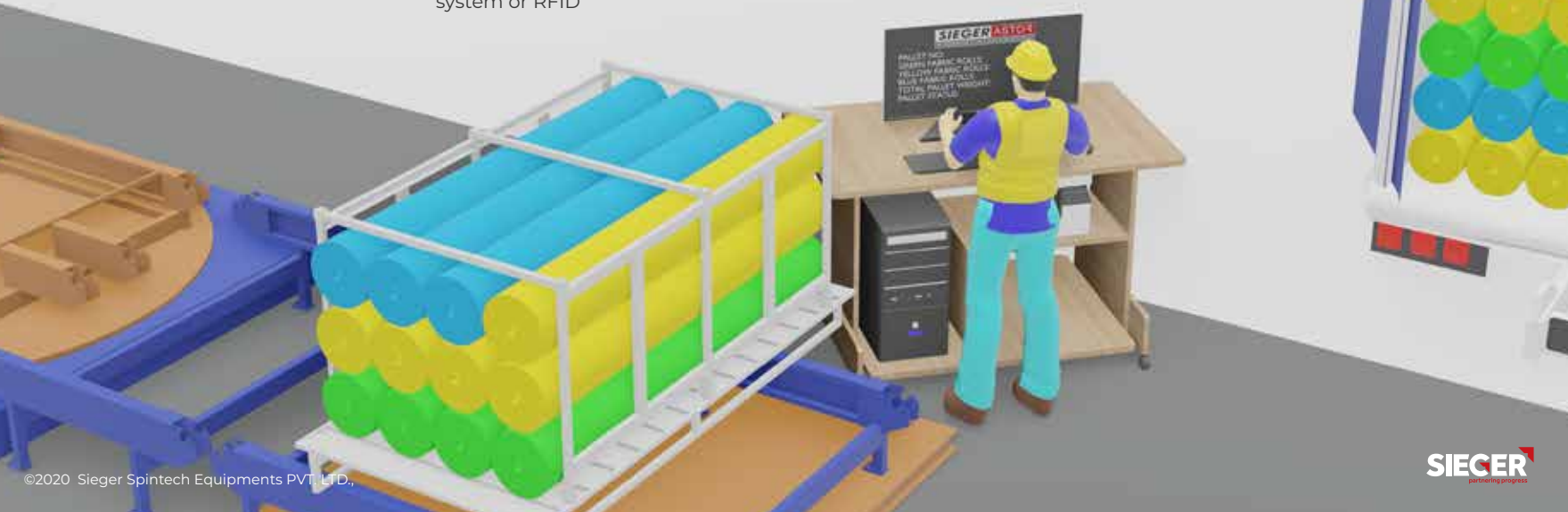
Pallet weight  
measurement



Pallet identification  
using BAR coding  
system or RFID



Pallets Profile  
Check





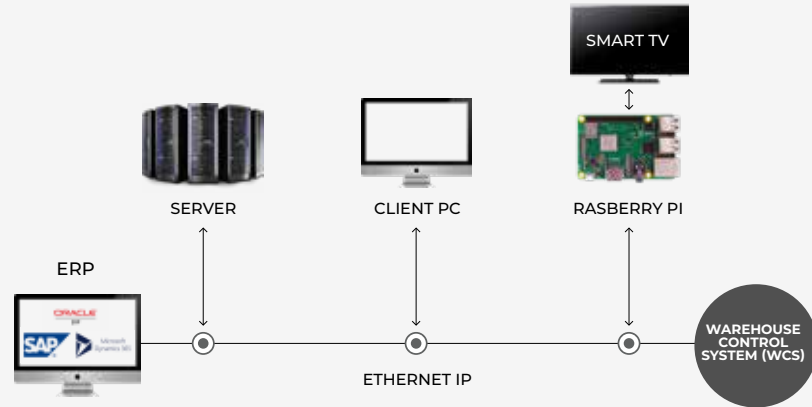
# RACKING SYSTEM

The ASRS Racks are manufactured at sophisticated facilities. The racks are supplied after undergoing structural analysis and seismic calculation certification for respective zones



# WAREHOUSE MANAGEMENT SYSTEM (WMS)

The Warehouse Management System offered by SIEGER along with the ASRS enables complete material inventory control. This gives the user a direct saving in man-power and material retrieval / identification by making the system robust and efficient



## FEATURES

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

1

Inventory Control station is linked to the WMS

2

The WMS is directly linked to the ERP

3

100% control of material flow

4

Each ASRS can be controlled independently with Master Control Station

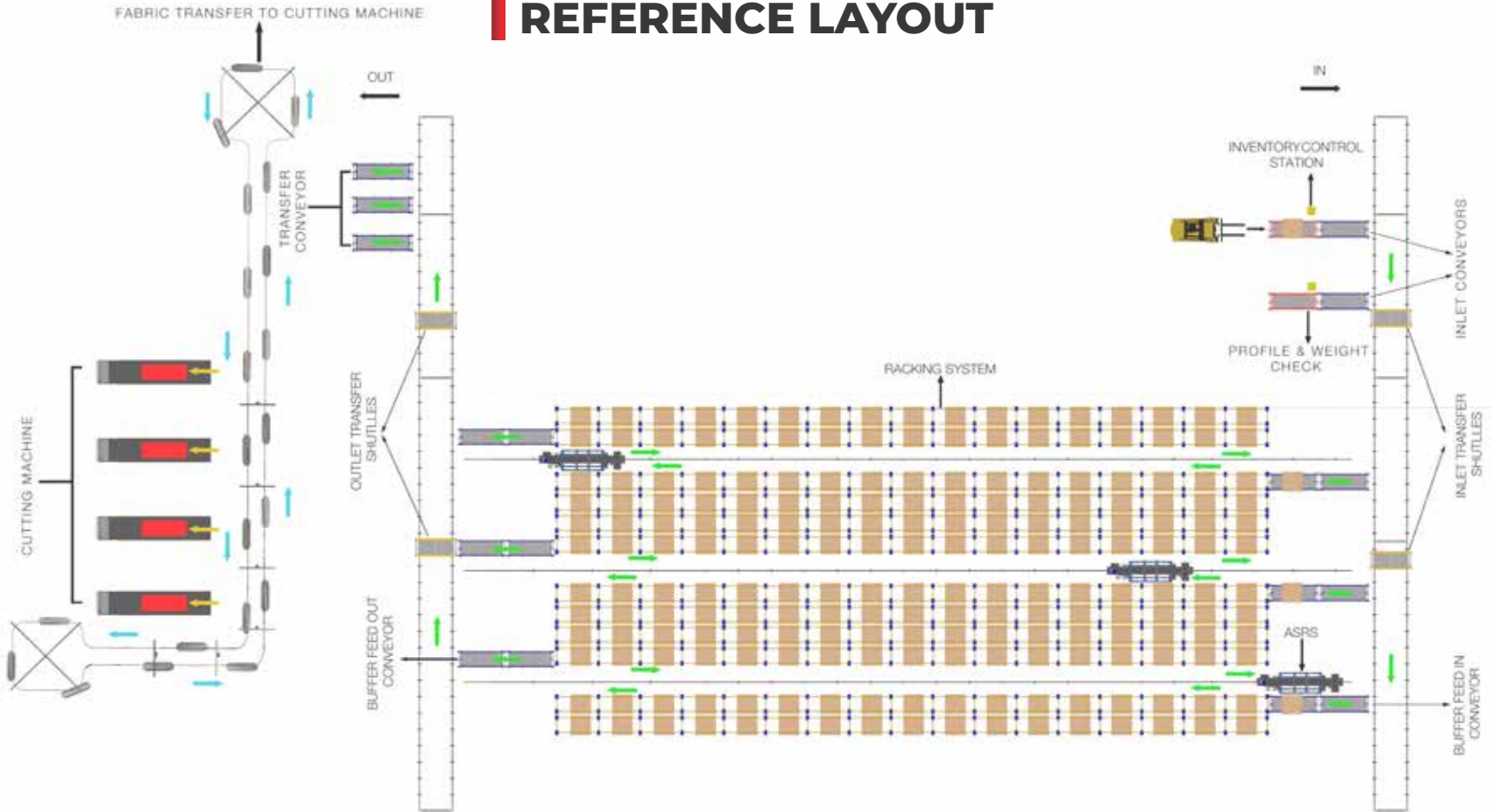
5

Any material that falls out of the pallet is detected by the WMS

6

The WMS will detect any manual interference of changing the material in the pallet

# REFERENCE LAYOUT





Our fabric handling system efficiently delivers the fabric rolls from storage to the cutting machines. This gives the user a direct savings in man power and process time. It also controls the flow of fabric resulting in absolute accuracy of inventory.

# FABRIC HANDLING SYSTEM (FHS)

## FEATURES



ERP linked system for highest control



Overhead Conveyors resulting in space saving



Bar-code / RF-ID Pallets



Sturdy conveyors capable of smooth transport of fabric



Digital control of inventory

## ADVANTAGES



Direct savings in man power and process time



Control of fabric flow



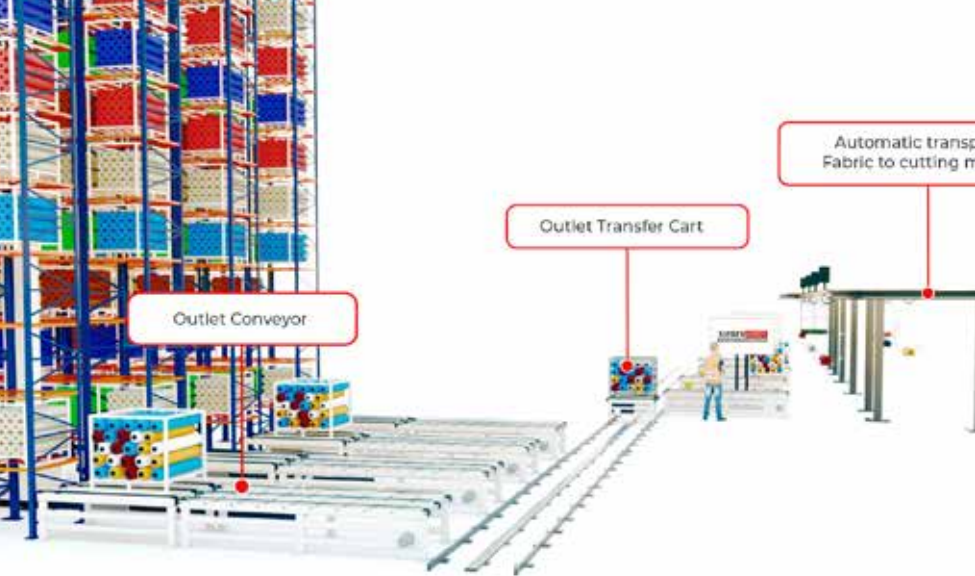
Eliminates manual error in fabric handling



Better inventory control



The right fabric is at the right machine all the time



- 1 Fabrics are transferred to the transfer cart from racking system

- 2 Fabric from storage is transferred to the overhead conveyors





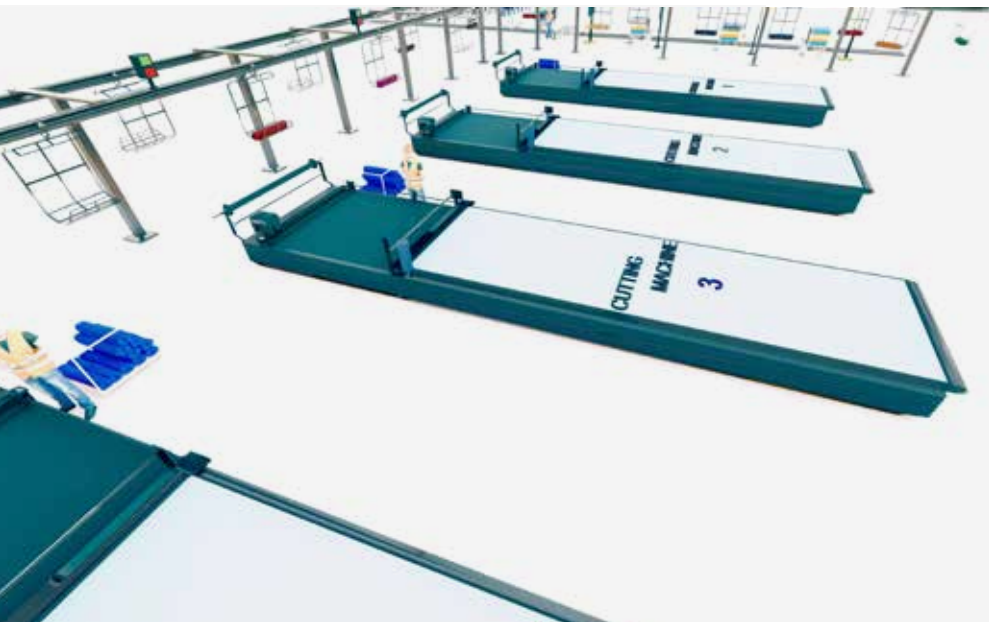
3

Fabrics is transfered to the cutting meachine via the transfer conveyor



4

Fabrics are manually transfered to the cutting machine



# TRIMS HANDLING SYSTEMS (THS)

The Trims Handling Systems is an efficient way of transporting the trims to the stitching line. Over head conveyors are used to transport the TRIMS to the designated stitching line.

## FEATURES OF THS



Sturdy track with modular drive adjustments



High variety of materials can be handled



Diverter mechanism with smart logic to control the flow of trims



The rail is tapered to avoid accumulation of dust and fluff and enhances self-cleaning



High speed pickers for TRIMS storage for fast retrieval of material



ERP linked system



Exact quantity of TRIMS is delivered to the stitching line



Control of TRIMS inward



Efficient control of flow of TRIMS which will enhance your productivity



ERP linked system ensures perfect inventory control

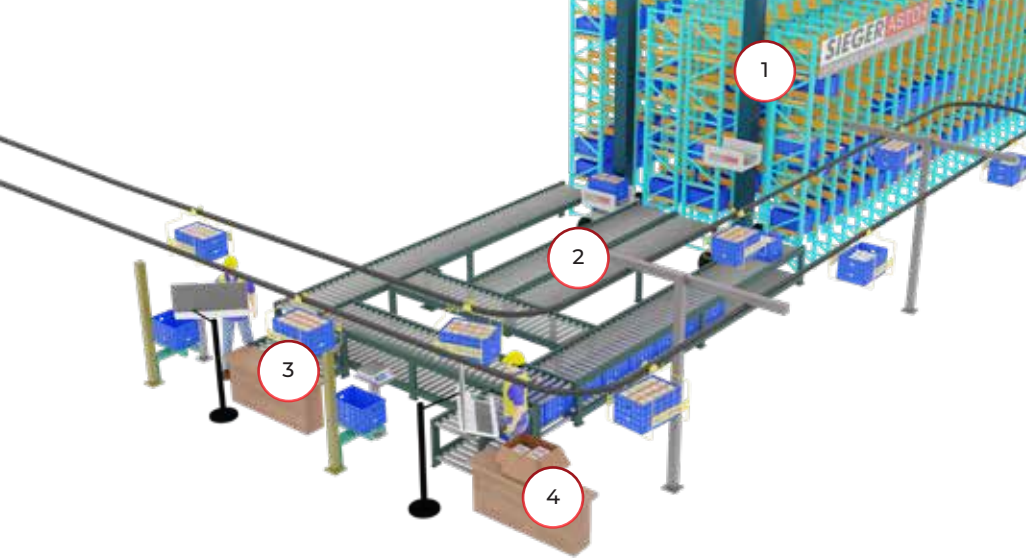


Reduced manpower and transport time



Trims delivery linked to daily LINE production plan





# TRIMS HANDLING SYSTEM

## PROCESS FLOW



- ① TRIMS STORAGE with high speed picker
- ② Loading / Unloading Station  
( Input / output of material from storage )
- ③ Inventory Control Station (ICS)
- ④ Kitting Station
- ⑤ Overhead Conveyors for transport of TRIMS
- ⑥ Sticking line

With over 25 years of experience in manufacturing textile machinery, we at Sieger have diversified into end to end automation solutions. Our entire portfolio of business moves towards finding and providing a solution which will yield direct profits to our customers.

We have a dedicated R&D Team working seamlessly with a world-class manufacturing facility to provide high quality products in the field of Textile Machinery, Automatic Car Parking, Automatic Storage and Material Handling Systems.

**SIEGER**  
partnering progress

M A N U F A C T U R I N G A T S I E G E R



Our components are manufactured with utmost accuracy for many critical applications in our world-class 15000 square meter design and manufacturing facility



High precision CNC machines for enhanced quality and productivity

State of the art advanced convey-  
orised powder coating system



Industry 4.0 and Digital factory at  
work.

Complete Digitalization of our  
Shop Floor with E-Drawings and  
QR coded Components for  
process control







**LASER CUTTING**



**CNC MACHINING**



**AUTOMATION ASSEMBLY LINE**

## SIEGER TEXTILE MACHINERY

With 3 decades of experience, we are the world leaders in the manufacturing of Yarn Conditioning Plants. Our Textile machinery Portfolio :

- YCP
- Automatic Packing (APAC)
- Automatic Doffing (ADOF)
- Bobbin Transport System (BTS)
- Overhead Travelling Cleaners (OHTC)



**ADOF**



**YCP**



**APAC**



**BTS**



**OHTC**



## SIEGER PARKING

We executed India's largest integrated puzzle parking system. Our Car Parking projects have resulted in enormous saving with a 100% customer satisfaction



**SIEGER SPINTECH EQUIPMENTS PVT. LTD.,**

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