

CELEBRATING  
**30 YEARS**  
OF INTELLIGRATION

[www.suryaequipments.in](http://www.suryaequipments.in)



## **Surya Equipments Pvt. Ltd.**

Regd. Office & Works : B-39, M.I.D.C. Gokul Shirgaon, Kolhapur-416 234 (M.S.)

**Phone : (0231) 2672414. Mobile : (91) 9146036041**

E-mail : [mktg@suryaequipments.co.in](mailto:mktg@suryaequipments.co.in), [surya@suryaequipments.co.in](mailto:surya@suryaequipments.co.in)

**COMPLETE STORAGE SOLUTION**





## **Surya Equipments Pvt. Ltd.**

Surya Equipments Pvt. Ltd. studies the storage needs of the customers and considering the storage space available, offers the best solution that optimises the space utilisation, offers more storage, helps inventory management & control, saves time and thus increases the warehouse efficiency. A special attention is given for the looks and aesthetics of the systems. With our custom-built storage-options we have solution to almost all your problems.



**Mr. Vidyanand Deodhar**, Managing Director - CEO

The founder of the Company is a graduate of the reputed Indian Institute of Technology (IIT, Mumbai) and leads a team of engineers and project managers. His long experience and infallible sense of industry has guided 'Surya' to be one of the best in the field of Storage Solutions.



## OUR UNITS



UNIT - 1



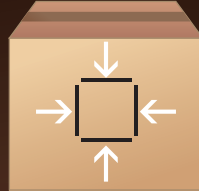
UNIT - 2



UNIT - 3



UNIT - 4



### SPACE SAVING STORAGE

“Ideal storage system is all about storing the products without affecting it's quality and delivering it at the right time. Our products like Manual & Motorised Mobile Storage Systems are the right choice for space-saving, pilferage-proof storage. The ASRS is automoted storage and retrieval system.”



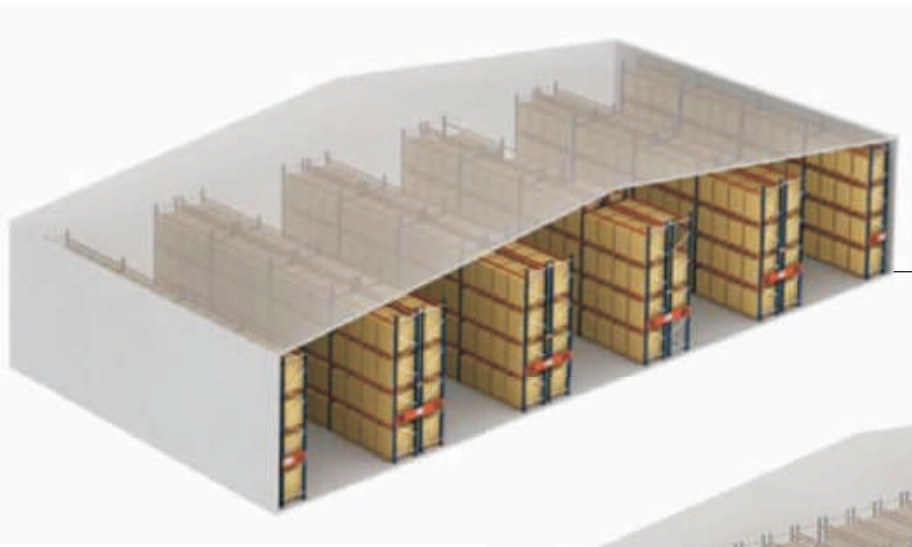
### BEST WAREHOUSE INFRASTRUCTURE

“Efficient pallet rack ideas that greatly reduce warehouse space without affecting the warehouse forklift operations”

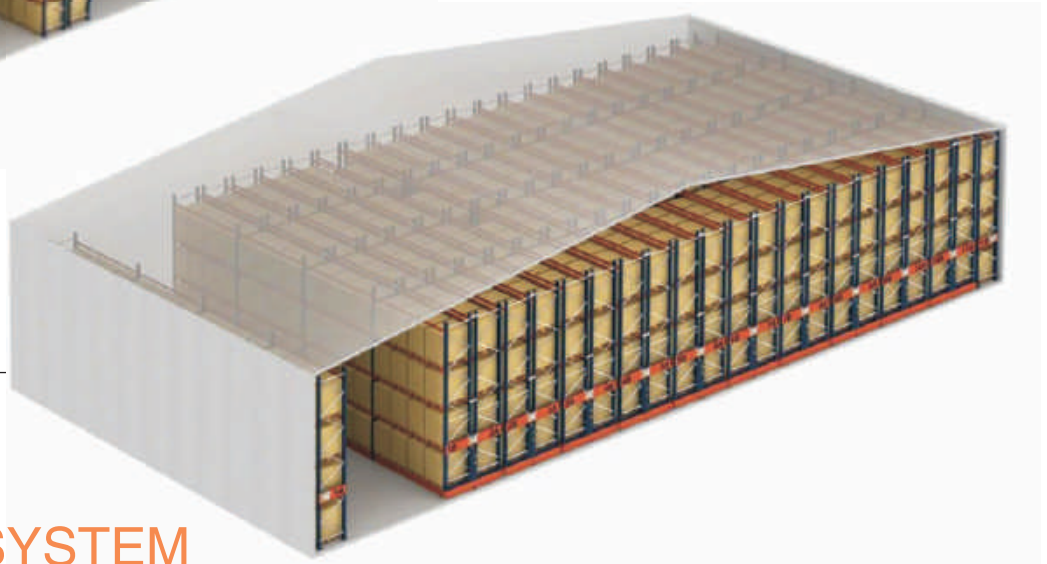


### AUTOMATED SYSTEM

“An automated storage system consist of a variety of computer controlled system for automatically storing and retrieving loads from defined location to the required location”



CONVENTIONAL STORAGE



SURYA'S STORAGE SYSTEM

**“One Stop Solution For All Your Storage Needs”**

**FLEXIBILITY**

**RELIABILITY**

**DURABILITY**

**AESTHETICS**

**PERFORMANCE**

**STRENGTH**







## HDPR & FIXED RACK

## HDPR & FIXED RACK

### Undercarriage:

- Designed for suitable heavy duty loads.
- Fabricated using high quality structural steel.
- Customized storage design for various material.

### Options for Superstructure:

- Slotted angle / structure panel racks.
- Light / Heavy duty pallet racks.
- Any special arrangement as per requirement.

### Surface Finish :

- Pre-coat 7 tank surface treatment.
- Powder coating as per requirement.
- Rich aesthetics.

### Quality Control:

- Components "Designed for manufacturing."
- In-Process inspection.
- In-house testing of load and stability.

### Safety:

- Safe for person working in aisles.
- Safety factor consideration for heavy load and stability.

### Storage Application:

- Document Storage.
- Control Sample Store.
- Engineering Store.
- CNC/VMC Tool Store.
- RM/PM/In-process Store.





## MANUAL MOBILE STORAGE SYSTEM

## MANUAL MOBILE STORAGE SYSTEM

### Undercarriage:

- Designed for suitable heavy duty loads.
- Fabricated using high quality structural steel.
- Flanged wheels supported on ball bearings.
- Designed for higher stability and smoother movement.
- Full drive shaft.

### Options for Superstructure:

- Slotted angle / structure panel racks.
- Light / Heavy duty pallet racks.
- Pigeon- holes / lockable shelves.
- Any special arrangement as per requirement.
- Rails flush to floor for better man & material movement.

### Surface Finish :

- Pre-coat 7 tank surface treatment.
- Powder coating as per requirement.
- Rich aesthetics.

### Quality Control:

- Components "Designed for manufacturing."
- In-Process inspection.
- In-house testing of drive assembly.

### Safety:

- Anti-Topple design.
- Safe for person working in aisles.
- Safety stopper designed for easy operation & better accessibility.
- All Material under lock & key.

### Storage Application:

- Document Storage.
- Control Sample Store.
- Engineering Store.
- CNC/VMC Tool Store.
- RM/PM/In-process Store







## MOTORISED MOBILE STORAGE SYSTEM

## MOTORISED MOBILE STORAGE SYSTEM

### Prime Drive:

- Highly efficient and compact ' Planetary ' type gearbox
- Driven by energy efficient 4P-3Ph induction motors.
- Cables running through conduits. (Traversing cables are supported with cable fastening system)

### Sensors:

- Appropriately located, state-of-the-art IR abased sensors
- No plungers or protruding parts in the aisle.

### Control Strategy Options:

- Semi Automatic
- Fully automatic PLC based
- PC Based fully automatic control system.

### Safety Features:

- All Sensors wired in fail-safe mode
- Floor level and hip level IR based "Through Beam Sensors"
- EMERGENCY STOP button stations.
- "SAFETY GAP" inbuilt in the undercarriage to safeguard person working in the aisle.
- "OVER TRAVEL" mechanical limit switch.
- Floor Sensors covering all floor area of the system with IR based "light curtain sensors".

### Rack Variants:

#### Compartment Size:

- From Pigeon holes 300x300x300 to Pallets with size 1200x1200x1500.

#### Overall Dimensions:

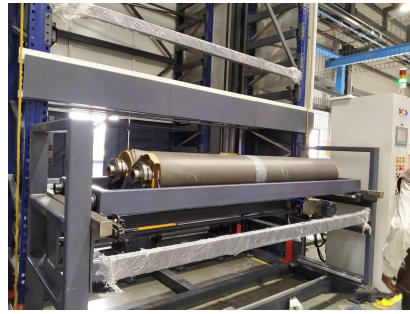
- Length up-to 45m.
- Height up-to 13m.
- Weight per Mobile Unit upto 150 MT.

### Temperature Range:

- Ambient Temperature
- High Temperature up-to 65° C.
- Cold Storage up-to -40° C.







## VERTI STORE SYSTEM

## VERTISTORE SYSTEM

### Structure :

- Fabricated heavy structure
- Verified by FEA (Finite Element Analysis Software)

### Safety Features :

- Over-travel limit switch
- Load alignment sensors
- Load overweight sensors
- Emergency stop-chain
- Fail safe wiring of sensors

### Load Profile :

- Maximum Weight- 1000 Kg
- Load size – 600-1500 mm

### System Height :

- Maximum – 12 M

### Performance :

- Lifting Speed - upto 60m/min
- Shuttle Speed - upto 60m/min

### Controls :

- HMI

### Drive & Motors :

- A/C motors with VFD

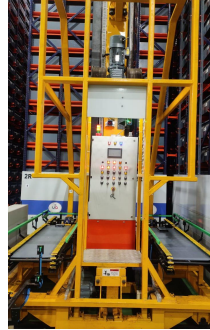
### Positioning System :

- Encoders (Option: Laser Unit)
- Laser distance meter (Optional)

### Storage Application :

- Crate Storage.
- Dies and Punches Box Storage.
- Gauges.
- High Value Items.





## AUTOMATED STORAGE & RETRIEVAL SYSTEM [ASRS]

## AUTOMATED STORAGE & RETRIEVAL SYSTEM (ASRS)

### Structure :

- Racking system – roll formed sections
- As per RMI design standards
- Design validated by FEA

### SRM (Storage & Retrieval Machine)

- Manufactured using structural steel
- Design validated by FEA

### Safety Features :

- Anti-fall device
- Lift carriage over-speed sensor
- Over travel limit switches
- Pay load skew indicator
- Bin over- weight over-height indicator
- Bin present ( in Rack / Fork) sensor
- Travel / fork / lift motion interlocks

### Load Profile :

- Load upto 1200 kg
- Load dimensions- W 600 -1200 x D 600 -1200
- System Height -  
Upto 15 m in house  
Upto 35 m (Imported)

### Controls :

- Through out PLC + HMI
- With IPC ( Optional )
- Controlled through PC using SCADA / WMS
- Integration with ERP possible

### Drive & Motor :

- A/C motor with VFD

### Positioning System :

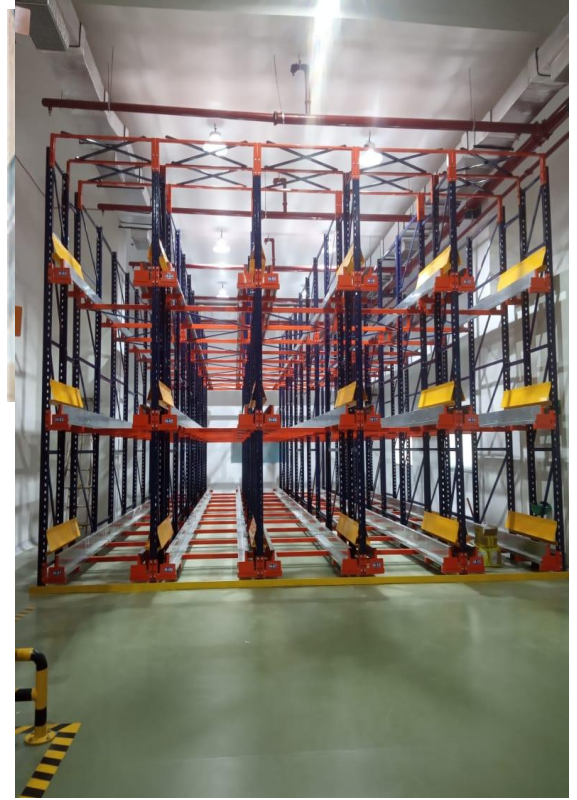
- Limit switches
- Encoders
- Load distance meter

### Storage Application:

- Crate / Pallet Storage
- Dies and Punches Box Storage
- High Value Items







## RADIO PALLET SHUTTLE [RPS]

## RADIO PALLET SHUTTLE (RPS)

### Structure :

- The RADIO PALLET SHUTTLE (RPS) is a customized Remote Operated Battery vehicle, used for storing and removing pallets in a guided rail path in the racking system. This RPS is designed according to the pallet size and load. This equipment is radio frequency operated, PLC based equipment and sensors are used for controlling the functioning of the RPS.

### Safety Features :

- Sensors are provided for every movement of the RPS, for slowing down, for stopping, for lifting and lowering and for pallet position sensing.
- Welded end stoppers on the Rails of the RPS prevents the falling down of RPS in case of sensor malfunctioning.
- Audio & video signal during movement of RPS.
- Time out delay for drive motor and Traction motor.
- Stop switch on the Remote stops the RPS cycle.
- Manual Power Cut off Switch.

### Load Profile :

- Maximum Weight - 1600 Kg.
- Pallet size - 1000 x 1000mm to 1200 x 1200mm.

### RPS Height :

- Maximum - 300 mm.

### Performance :

- Maximum Traveling speed - 200 m/min.
- Maximum Lifting Speed - 60m/min.
- Battery - 5-6 hr. operation

### Controls :

- Remote control panel works on Radio frequency

### Drive & Motors :

- DC motors with controller

### Positioning System :

- Traveling laser unit
- Lifting & Lowering Proximity Sensor

### Storage Application :

- Pallet Storage
- High Value Items





# Our Presence

# INDIA



# OVERSEAS



## OUR VALUABLE CLIENTS

 Alembic Touching Lives over 100 years	 ARVIND FASHIONING POSSIBILITIES		 MIS B. G. CHITALE Chitale DAIRY	 Abbott A Promise for Life		
 Biocon	 Pernod Ricard	 बैंक ऑफ इंडिया Bank of India	 CASPRO Group of Companies	 Cipla	 Colocon	 Dr.Reddy's
 Emcure SUCCESS THROUGH INNOVATION	 Dr. Babasaheb Ambedkar Maharashtra Pratishthan Dr. Hedgewar Hospital	 FABER-CASTELL and P&C	 FDC FDC Limited	 Gokul	 gsk GlaxoSmithKline	 Glenmark
 GRANULES	 Indoco INDOCO REMEDIES LTD.	 ipca A dose of life	 GHATGE PATIL INDUSTRIES LTD.	 JASLOK HOSPITAL A lifetime of care	 Kirloskar	 LUPIN PHARMACEUTICALS, INC. Research Driven. Quality Committed. Customer Focused.
 LAURUS Labs Knowledge. Innovation. Excellence	 RPG LIFE SCIENCES	 Kusum Healthcare	 SANDOZ	 S. B. RESHELLERS PVT. LTD.	 Menon & Menon Ltd.	 MRF
 Encube	 ALKEM	 MICRO LABS MICRO LABS LIMITED	 Mylan	 NEELIKON Food Dyes & Chemicals Ltd.	 PIAGGIO VEHICLES PVT. LTD.	
 Watson	 wilo Mather+Platt	 Raymond	 ROQUETTE	 SUN PHARMA	 SANOFI	 WALLACE PHARMACEUTICALS PVT. LTD.
 SIEMENS	 SUNAWALLA GROUP SERUM INSTITUTE OF INDIA PVT. LTD.	 torrent PHARMA	 UJ ULTRA GROUP	 UNICHEM LABORATORIES LTD.	 Vadilal	 ZENTIVA



## Surya Equipments Pvt. Ltd.

Regd. Office & Works : B-39, M.I.D.C. Gokul Shirgaon, Kolhapur - 416 234 (M.S.)

Phone : (0231) 2672414. Mobile : (91) 9146036041

E-mail : mktg@suryaequipments.co.in, surya@suryaequipments.co.in

[www.suryaequipments.in](http://www.suryaequipments.in)