

# SHUTTLE PALLET RACKING

Remote Handle – Semi-Automated – Collision Free



Safe  
Sustainable  
High Density

## About Us

Godrej Storage Solutions is a part of the renowned Godrej group, a global conglomerate with businesses ranging from consumer products to aerospace engineering. We are a pioneer, visionary and market leader since last 6 decades in the field of warehousing storage systems in India. With innovation, adaptability and reliability as our core strength, we have created more than 200 million square feet of state-of-the-art storage systems for various sectors ranging from E-commerce to 3PL since the beginning of this century.

Our culture of continuous learning coupled with decades of experience in the field of intralogistics has enabled us to design best-in-class solution to serve all storage needs.



## About the product

Godrej Shuttle Pallet Racking, a product of international collaboration. Godrej Storage Solutions is partnered with AutoMHA, Italy. AUTOMHA, an Italian company, leader since 1980s in the production of automatic warehouse and handling systems. Godrej Shuttle Pallet Racking is a semi-automated, high-density pallet storage system with reduced handling times and increased storage capacity in depth. The system uses radio shuttles that independently moves with the rack to load and unload goods.

The operator can control the radio shuttles via remote control and perform all operations. It is a cost-effective and time-saving storage system ideal for dense/bulk material storage and for temperature-controlled storage environment up to -30°C.

Our constant innovation has enabled us to design seismic-resistant racks to withstand zone 5 seismic activity. The Shuttle Pallet Racking with its high throughput performance during loading and unloading function, collision-free storage and retrieval of pallets and optimum space utilisation creates a perfect storage solution.

## APPLICATIONS

- Beverages
- Chemicals
- Consumer Durables
- F & B
- FMCG
- Paints

## RADIO SHUTTLE

- Operation : Remote control
- Remote : Radio frequency
- Std. carry load : 1500 kg
- Speed on load : 35 m/minute
- Speed w/o load : 70 m/minute
- Battery type : Li-on
- Battery capacity : 20 Ah
- Battery Voltage : 48V
- Battery capability : 5 hours

## FEATURES

- ♦ High-density storage system with FIFO or LIFO material access.
- ♦ Battery powered radio shuttle to ensure safe movement of materials in and out of deep storage tunnels.
- ♦ Radio Shuttle controlled by a wireless remote control.
- ♦ Each level can be accessed independently hence each level can have different SKUS
- ♦ Automatically pallet picking and retrieval.
- ♦ All vacant positions are available for storage, no honey combing effect.
- ♦ High throughput through automated shuttle movement
- ♦ Less damage to racking system and more safety to the warehouse operators.
- ♦ Autosat is solely controlled by its radio transmitter. Every single function is regulated by individual commands such as lift, move a pallet and unload.
- ♦ Autosat rearranges automatically the rack utilizing the places available. This function is for mode FIFO.



## CONFIGURATION



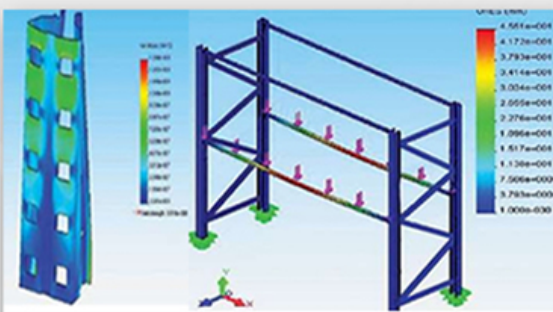
### Basic Elements

S1 Radio Shuttle  
 S2 Pallet Rail  
 S3 Mid Support  
 S4 Entry Support  
 S5 Pallet Guide

S6 Beam Assembly  
 S7 Frame Assembly  
 S8 Bracing  
 S9 Base Plate

### Accessories

Label Holder  
 Safety Precaution Notice



Our accumulated knowledge coupled with cutting edge design tools help us design and analyse each component ensuring reliability

Well equipped and dedicated in-house lab enables us to conduct experiments and perform validation to comply with all global standards



## About AUTOSAT

AUTOSAT is the semi-automated shuttle created and designed by AUTOMHA for intense multi-depth pallet storage. The satellite operates in traditional drive-in lanes and guarantees the highest levels of efficiency in situations requiring repeated filling/emptying of shelves. The satellite is equipped with a special removable Lithium battery and is controlled by a simple multifunction radio controller with a multi-lingual LED display. By moving autonomously within the lanes, AUTOSAT can be easily moved between various levels and shelves by a standard fork-lift truck as it picks, stows and re-orders the pallets in the storage lanes according to FIFO (first in - first out) or LIFO (last in - last out) mode. Warehouses equipped with AUTOSAT technology can be managed by the special LOG software, which manages and processes data regarding the inbound and outbound handling of Loading Units in manual or semiautomated warehouses.

## FUNCTIONS

**STORAGE:** The AUTOSAT Satellite lifts the pallet and carries it to the first free position within the storage lane. Once the pallet has been stowed, it returns to the starting position.

**PICKING:** The satellite, runs along the rack, stops in below the first available pallet, lifts it and carries it to the "Home" position. The operator can therefore easily collect the pallet with the forklift truck.

**CONTINUOUS PICKING:** The operator can set off an activity consisting of multiple picking missions, without the need to repeatedly press the buttons on the radio controller. This is useful for multiple picking operations in the same lane.

**PALLET OVERFLOW ADJUSTMENT:** Manual setting of distance between pallets from 20 to 150 MM. In the case of pallet overflow, the distance between pallets can be managed automatically via radio controller.

## OPTIONAL FUNCTIONS

### **"Compacting push" pallet reorganisation mode**

AUTOSAT automatically reorganises the lane, compacting all of the pallets to fill empty spaces. (function available for FIFO mode, compacting from production)

### **"Compacting pull" pallet reorganisation mode**

AUTOSAT autonomously reorganises the lane, compacting all of the pallets to fill empty spaces. (function available for FIFO mode, compacting from shipping)

### **Anti-collision between AUTOSAT units in the same lane**

Required if multiple satellites are used in the same lane. The satellites communicate with each other, avoiding collisions. (function available for FIFO mode)



## AUTOSAT SATELLITE

### TECHNICAL ADVANTAGES

- ◆ Powered by removable lithium battery Maximum charging time 5 hours
- ◆ Average battery run time 8 hours
- ◆ Anti-tipping guides
- ◆ Laser targeting system for slowing down and positioning at the end of the lane Guide
- ◆ wheels for easy insertion into the lane
- ◆ Can be transported with a standard forklift truck
- ◆ Rapid and silent movement
- ◆ Real-time machine operational data available via the radio controller
- ◆ Suitable for refrigerated areas at temperatures as low as -30°C
- ◆ Significant energy savings with green technology



# THE GODREJ ADVANTAGE



State-of-the-art, high-capacity automated manufacturing facility



Comprehensive in-house testing facility for assured quality



Tested seismic racking



13 branches & 75+ channel partners serving all locations across the country

## WHY GODREJ?

**YOUR  
RELIABLE  
PARTNER**

Best in Quality  
&  
Innovative Design

of Steel  
of Engineering  
of Solution

Quick & Safe  
Project Execution

Committed to Safety  
Timely handover

Life Cycle Support

Rack Audit  
Repair & Modification  
Relocation

## Racking Solutions



Mobile Pallet Racking



Shuttle Pallet Racking System



Double Deep Pallet Racking



Very Narrow Aisle Pallet Racking System



Selective Pallet Racking

Our solutions, perfected with years of experience and our highly trained installation team, backed with world-class production facility enable us to provide our clients with superior storage solutions.

You are one call away from your perfect racking partner

### Enquire now

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### Know more

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