

MOBILE PALLET RACKING

Versatile – Safe - Remote



COMPACT
MOBILE
ACCESSIBLE

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 Mobile Pallet Racking system is a movable racking solution ideal to store palletized goods. The system is equipped with a sophisticated remote-control mechanism to create a dense storage system. The modular design enables us to you to create the perfect compact storage system utilizing available floor space.

The MPR system involves conventional racking mounted on mobile undercarriages to create aisle at required locations. The undercarriage is motorized and controlled by preprogrammed PLC units, making individual pallet accessible. The modular system enables ease of scalability to expand as per business need. The MPR system increases capacity by up to 90% compared to conventional pallet racking systems. The system is integrated with various technical and safety features creating a safe and efficient storage system.

We possess the capability to convert a conventional pallet racking system to the mobile system thereby increasing storage efficiency by 90%. Based on the installation site, we design a seismic-resistant system for any seismic zone. The MPR is an electronic system that offers a compact, high-density storage solution with 100% accessibility.

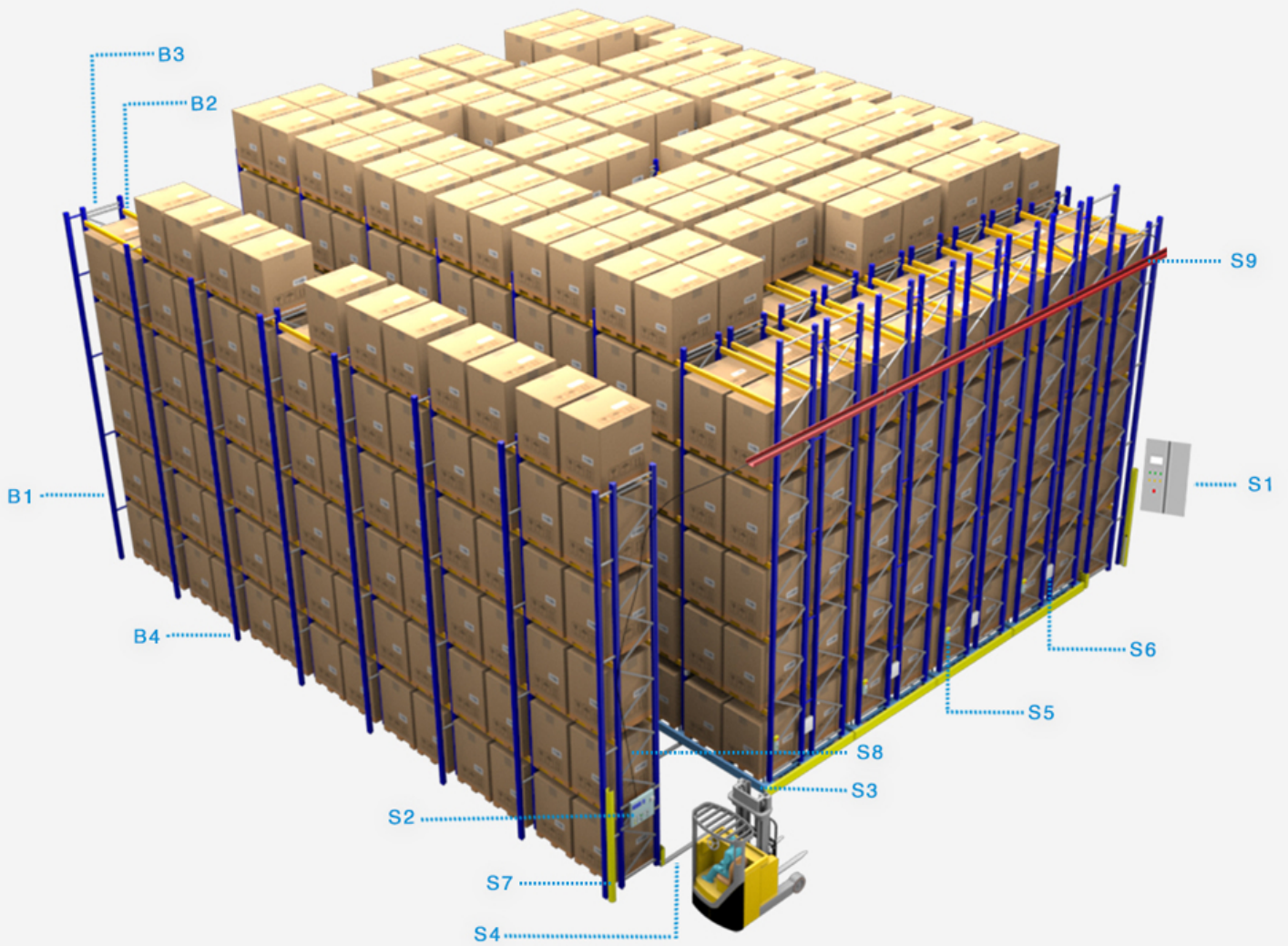
APPLICATIONS

- Cold Storage
- FMCG
- Apparel
- Automobile
- Chemicals
- Consumer Durables
- F & B
- Paints
- Pharma

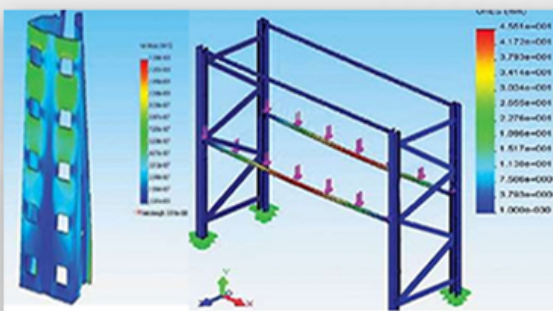
FEATURES

- ◆ Versatile to fit all needs with a wide range under carriage & superstructures profiles to suit varying load requirements
- ◆ Direct and Individual Access of Pallets
- ◆ Comprehensive accessories to meet a wide range of applications.
- ◆ Improved storage with a maximum system height of 12.5 meter and maximum load per undercarriage up to 740 tons
- ◆ Patented design for HEM beam 3021/CHE/2009
- ◆ Compatibility with any Material Handling Equipment's like Forklift, Reach truck, Stacker.
- ◆ Self-Greasing Motors reduces maintenance cost.
- ◆ Automatic aisle lighting improves energy efficiency
- ◆ Modular and scalable both vertically and horizontally
- ◆ Designed, manufactured and installed as per international standards.

CONFIGURATION



MPR Elements		Basic Elements
S1 Main Control Panel	S6 Unit Control Panel	B1 Upright
S2 Secondary Panel	S7 Front Barrier	B2 Beam
S3 Mobile Base	S8 Distribution Cable	B3 Bracing
S4 Floor Rails	S9 Cable Tray	B4 Base Plate
S5 Indication Lamp		



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

Product Description

Engine on Carriage



- ◆ Each unit is equipped with separately fed electric drives.
- ◆ Speed of movement of the shelf 4.7 m / min
- ◆ Degree of protection IP 54
- ◆ Gear oil change after 10 000 working hours.
- ◆ Maintenance-free self-lubricating bearings in the gearbox

Working Modes



Modes of Operation

- ◆ Automatic run
- ◆ Remote control - optional
- ◆ Manual control of movement (In case of emergency)
- ◆ WMS – control of carriages from a WMS software in PC

Control Boards



- ◆ Control system with Siemens Simatic S7 1200 or S7 300
- ◆ Terminal boards
- ◆ Softstart (Standard) for smooth start and finish of the movement
- ◆ 24V control voltage source
- ◆ Power switch elements

Control Panel



- ◆ Control panel located on every carriage:
 - ◆ Green button to START
 - ◆ White control of opened corridor
 - ◆ Red emergency stop button

Remote Control



- ◆ Control panel located on every carriage:
 - ◆ Green button to START
 - ◆ White control of opened corridor
 - ◆ Red emergency stop button

Light Beacon



Indications

- ◆ White color is on: automatic mode
- ◆ White color flashes: manual mode or failure situation in automatic mode
- ◆ green color is on: equipment is unblocked for movement start
- ◆ Orange color flashes: carriages are moving to left or right side



TECHNICAL DIRECTIVES

- ◆ EN 15095 +A1 motorized mobile carriages for shelving and racking
- ◆ EN ISO 12100 Safety of machines – basic concepts, general principles for design
- ◆ EN ISO 14121-1 Safety of machines – evaluation of risks – part 1: guidelines
- ◆ EN 60204-1 Safety of machines – electro equipment of machines
- ◆ EN ISO 13849-1 Safety of machines - Safety-related parts of control systems - Part 1: General principles
- ◆ EN 349 +A1 safety of machines - Minimum gaps to avoid crushing of parts of the body
- ◆ EN 1037 Safety of machinery - Prevention of unexpected start

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



Drive in 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

☎ 1800-419-7060
✉ gsssales@godrej.com
🌐 www.godrejstoragesolutions
📍 #1, SIDCO Industrial Estate, Ambattur
Chennai, Tamilnadu, India - 600098

Know more

GodrejStorageSolutions

