

**NEXT GEN
STRUCTURAL
FOR ROBUST
OPERATIONS**



**RACKS &
ROLLERS**
STORAGE TECHNOLOGIES AND AUTOMATION

RACK SUPPORTED WAREHOUSES

Rack Supported Warehouses or Clad-Rack Warehouses are self-supporting structures that make maximum use of ground space and heights. By using the racks or shelves as the support structure that holds the walls & roof of the warehouse in place, this system itself becomes a core part of the warehouse building. No matter what kind of racks & shelves you are using, be it conventional, drive-in, live or shuttle, you can easily make use of the racks or shelves as a base to turn it into a structure that becomes the warehouse building itself.

RACK SUPPORTED WAREHOUSES

www.racksandrollers.com

The main reason Rack Supported Warehouses are used is because of their ultimate space saving feature. With racks and shelves that are almost touching the ceiling of the building, there is no doubt about the space efficiency of this system.

Rack Supported Warehouses are robust systems with the strength acquired from dense racking structure. The numerous upright columns of the racks distribute the weight of the actual loads among themselves. Not only that, RSWs are designed to take the force of external phenomenon like wind, heat, snowfall, rain, seismic movement etc. The height of these warehouses can be as high as 40 m or even more according to the reaching capacity of MHEs and local government regulations.

All in all, they are optimal solutions that do not let any inch of space go to waste. This makes them cost effective as well. As compared to Pre-Engineered buildings (PEB), self-supported warehouses take lesser time and money to be constructed. A wide variety of goods can be stored in these structures with both automated & conventional storage systems.

COMPONENTS OF RACK SUPPORTED WAREHOUSES

- Racks
- Gutter Lines
- Roof Truss
- Canopy
- Purlins
- Docks
- Roof Sheets
- Fire Hydrant Systems
- Side Cladding
- Civil floor and structure.

BEST SUITED FOR

High density storage and high rise buildings.

NOT RECOMMENDED FOR

3PL or changing requirements of storage.

MAIN FEATURES

SMART CONSTRUCTION

Roof and walls are added to the racks to turn it into a building.

ROBUST AND POWERFUL

The self supporting structure i.e. the main part of the building, protects the goods from the brutal forces of nature.

HIGHLY ADAPTABLE

Works with any kind of racking/shelving.

VERSATILE

Wide variety of goods can be stored.

PROS

- 👍 Best in space effectiveness
- 👍 Very high storage capacity
- 👍 Inexpensive construction
- 👍 Can be relocated

CONS

- 👎 The overall design cannot be changed