High-density OEM racks



Overview

OEM/ODM warehouse high density racking Manufacturer, warehouse Drive-through racking is a high-density storage solution designed to optimize warehouse spac.

Key Takeaways

High-density OEM racks are engineered storage solutions designed to maximize space utilization, support heavy loads, and improve operational efficiency in warehouses, factories, and data centers.

Types of High-

Density OEM Racks

Warehouse and Industrial Racks: These include drive-in, drive-through, push-back, and mobile pallet racks. Drive-in and drive-through racks allow forklifts to access pallets from one or both ends, optimizing vertical and horizontal space while supporting FIFO inventory management. Push-back systems use nested rolling carts on sloped lanes for high-density storage with moderate selectivity, and mobile racks move along floor rails to maximize storage in limited spaces.

Heavy-

Duty Shelving and Pallet Racks: Designed for bulky or heavy items, these racks use steel frames for durability and adjustable shelving to accommodate various product sizes. Proper design includes safety features like anti-tip mechanisms to prevent accidents.

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Data Center and I

T Racks: OEM high-density racks for IT environments, such as Vertiv and Belden systems, support servers, storage, switches, PDUs, and UPSs. They feature perforated doors for airflow, cable management systems capable of handling thousands of Cat 6 cables, and modular designs for scalability. These racks are available in multiple heights (42U, 48U) and widths (600mm, 800mm) to fit evolving IT infrastructure needs.

Key Features and Benefits

Space Optimization: High-density racks increase storage capacity by utilizing vertical space and reducing aisle requirements, sometimes improving storage efficiency by 20–30%. Load Capacity: OEM racks are built with robust steel frames to handle heavy pallets or equipment safely. Flexibility: Adjustable shelving and modular designs allow customization for different product sizes or IT equipment configurations.

Safety and Durability: Surface treatments like acid-washing, phosphating, and high-grade powder coating enhance longevity, while anti-tip and locking mechanisms improve safety. Operational Efficiency: Systems like selective, double-deep, and mobile racks streamline picking, loading, and inventory management, reducing labor time and improving workflow.

Considerations for Selection

When choosing high-density OEM racks, consider: Warehouse or facility layout to determine the best rack type (drive-in, push-back, mobile). Load requirements to ensure the rack can safely support the intended weight. Inventory management needs (FIFO vs.

LIFO) to select appropriate configurations. Future scalability for expanding storage or IT infrastructure. Compliance and safety standards to minimize workplace hazards.

High-density OE

M racks provide a reliable, scalable, and efficient solution for maximizing storage capacity while maintaining safety and operational effectiveness in industrial and IT environments.

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Article Content

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Security: This is the highest level of physical protection available in a rack format. 5.3 Open-Frame Racks: The Connectivity Hub Capacity Range: 29U

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