



SAHAY RACKS PRIVATE LIMITED

www.sahayracks.org



Automation by



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About Us



Sahay Racks changes the perspective of storage systems. At Sahay Racks we focus on the latest technology to cater your solution in the storage space. We design your space right from scratch and tailor the right setup for your business.

We are holistic in approach and work to solve the customer's need. Our Integrity is the basic framework for our business and thrive to win over your trust with our products.



Our Values



Integrity



Commitment



Teamwork



Excellence



Why Choose Us ?



Choose us for your racking needs because we offer tailored, high-quality solutions that maximize storage efficiency. Our expert team designs systems that fit your space perfectly, ensuring durability and easy access. With innovative designs and exceptional customer service, we help you optimize your operations.

Choose us for tailored racking solutions that maximize space and improve efficiency. Our durable, custom-built systems offer easy access and long-term reliability. With expert support and quick installation, we optimize your storage needs for increased productivity.



Efficiency Stored, Productivity Unlocked—Innovative Racking Solutions for a Smarter Tomorrow.



What We Do



We understand, evaluate and formulate the right business ecosystem that automate your business process to better productivity and increased Performance.



Our qualified team works closely to draft you the effective floor layout, choosing and manufacturing the right storage rack system and integrating it through a robust data management system (DMS).



We help in transforming your current product portfolio by upscaling technology, integrating it with further supply chain access and getting it transformed through a turnkey operational system. Currently we work on storage and retrieval automation through conveyors, robots and robotic systems both autonomously guided.

Warehouse Consulting

At Sahay Racks, we offer comprehensive warehousing consulting services tailored to meet the diverse needs of our clients. With a team of our experienced and skilled warehouse consultants, we specialize in providing strategic guidance and practical solutions to optimize warehouse operations and enhance efficiency. With a focus on innovation, collaboration, and continuous improvement, Sahay Warehouse Consulting is committed to helping our clients optimize their warehousing operations, improve profitability, and achieve sustainable growth in today's dynamic business environment.



• Warehouse Design • Inventory Management • Process Automation • Technology Integration

Warehouse Storage area

Our Warehouse Solutions optimize space utilization and streamline operations with flexible layouts and advanced storage systems. These solutions ensure smooth workflows, simplify handling, and improve order fulfillment efficiency. Built for durability and reliability, they enhance productivity and are ideal for dynamic, high-volume supply chain environments.



Order Fulfillment area



Warehousing : Streamlines fulfillment with barcode scanning, real-time tracking, and efficient storage.

Turnkey robotics in food processing : Automating food processing with precision, efficiency, and safety.

Quality detection : AI, vision, and robotics for precise, efficient quality control.





Warehouse Storage Solutions

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Slotted/Medium/Heavy – Duty Shelving



Slotted Shelving : Adjustable metal panels for medium to heavy items, used in warehouses and offices.

Heavy-Duty Shelving : Reinforced steel frames for large loads, ideal for industrial and warehouse use.

Medium Weight Shelving : Portable, easy-to-assemble aluminium or thin steel for lighter loads in homes, offices, or retail.



Selective – Pallet Racking

Selective pallet racking is a versatile storage solution offering direct access to each pallet. With upright frames and beams, it accommodates goods of various sizes, supports forklifts for efficient handling and adjusts to different pallet heights. Ideal for high-turnover warehouses, it maximizes space while ensuring organized and efficient inventory management.



Drive - IN



The drive-in racking system is a high-density storage solution that maximizes warehouse space by allowing forklifts to drive into the racks. Operating on a Last-In, First-Out (LIFO) principle, it is ideal for storing large quantities of similar products, especially in cold storage, distribution centers, and space-constrained warehouses. This cost-effective system eliminates aisle space and is perfect for bulk goods requiring infrequent access.



Radio - Shuttle Racking

The radio shuttle racking system is an automated storage solution using shuttle carts to transport pallets within high-density racks. Operable via remote control, it supports both FIFO and LIFO configurations, enhancing efficiency and space utilization. Ideal for high-volume warehouses, it improves inventory management, speeds up retrieval, and reduces labor costs, making it popular in industries like food, pharmaceuticals, and retail.



Mobile Shelving Solution



Our Mobile Shelving Solution streamlines storage and retrieval with intelligent features like LED-guided shelf indicators. When an item is requested, shelves align to the exact location, reducing search time.

Real-time inventory updates ensure accurate tracking and efficient operations, making it ideal for modern, space-efficient storage environments.

Applications of Mobile Shelving

- Bulk documents
- Light Assembly Parts
- Sample Storage in the Inspection Area
- Hardwares
- Maintenance Parts
- Antique and Art Storage
- Laboratory Samples and Equipments
- Library

Advantages of Mobile shelving solution

- **Increased Storage Density :** By eliminating fixed aisles, mobile shelving systems maximize storage capacity within the same warehouse footprint.
- **Improved Picker Ergonomics :** Bringing inventory directly to the picker reduces walking distances and minimizes physical strain.
- **Enhanced Picking Efficiency :** Reduced travel time and improved accessibility lead to faster order fulfillment.
- **Improved Space Utilization :** Optimized space utilization allows for increased storage capacity without expanding the warehouse space/area.



Mobile Pallet Racking - with Rail

Our Mobile Pallet Racking with Rail system enhances storage efficiency by allowing racks to move along guided rails, creating aisles only when needed. This space-saving design maximizes storage capacity while ensuring smooth and safe rack movement.

Built for durability and precision, it streamlines material handling and improves operational efficiency, making it ideal for high-volume storage facilities.



Advantages of Mobile Pallet Racking-with Rail

Mobile pallet racking with rail offers a relatively low installation and maintenance cost compared to other high-density storage systems, especially when you factor in its significant space-saving benefits and operational efficiency.

- **Space Optimization** : Maximizes storage capacity by reducing the need for multiple fixed aisles, creating access only where required.
- **Enhanced Accessibility** : Allows for quick and easy access to stored items without compromising on organization.
- **Operational Efficiency** : Streamlines material handling, reducing time and effort in retrieving or storing items.
- **Flexibility** : Adapts to various storage needs and can accommodate different types of pallets and loads.



Mobile Pallet Racking - without Rail

Mobile pallet racking without rails is a flexible storage solution where racks are mounted on mobile bases that move smoothly on a flat surface. Operated manually, mechanically, or electrically, it creates movable aisles, optimizing storage density and ensuring easy pallet access. Ideal for warehouses with high space utilization needs, it offers a cost-effective, adaptable alternative to traditional rail-based systems, suitable for industries like manufacturing, retail, and logistics.

Advantages of Mobile Pallet Racking-without Rail

Mobile pallet racking without rails optimizes space, reduces costs, and offers flexibility for changing layouts. It ensures easy access to pallets and is ideal for fast-paced environments like manufacturing and logistics.

- **Maximized Space Utilization** : Creates movable aisles to optimize storage density, making the most of available warehouse space.
- **Cost-Effective** : Eliminates the need for floor-embedded rails, reducing installation and maintenance costs.
- **Flexible** : Adapts to changing layouts and diverse goods storage.
- **Easy Access** : Maintains efficient access to pallets in high-density systems.



Mini – Load ASRS

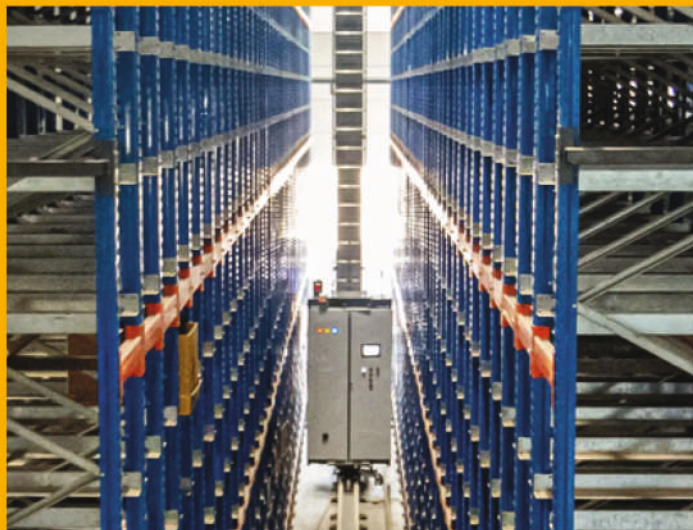


The Mini Load ASRS is an efficient automated system for storing and retrieving small items in high-density environments. It uses shuttles, cranes, or AGVs to transport items between storage and retrieval points. Ideal for warehouses, e-commerce, spare parts storage, and manufacturing, it reduces human intervention, improves inventory management, optimizes storage, and accelerates order fulfillment, making it essential for organized, fast-paced operations.



Stacker Crane ASRS

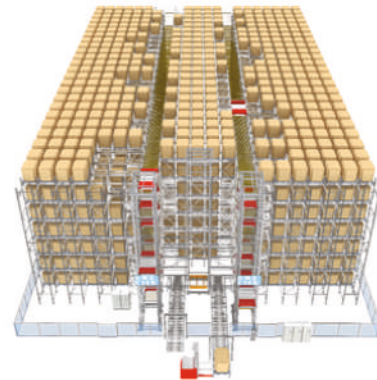
The Stacker ASRS uses stacker cranes to store and retrieve pallets in high-bay warehouses, maximizing vertical space in narrow aisles. Ideal for large warehouses, distribution centers, or manufacturing facilities, it offers high-density storage, fast retrieval, and improved efficiency while reducing labor costs. This system is perfect for bulk pallet storage and retrieval.



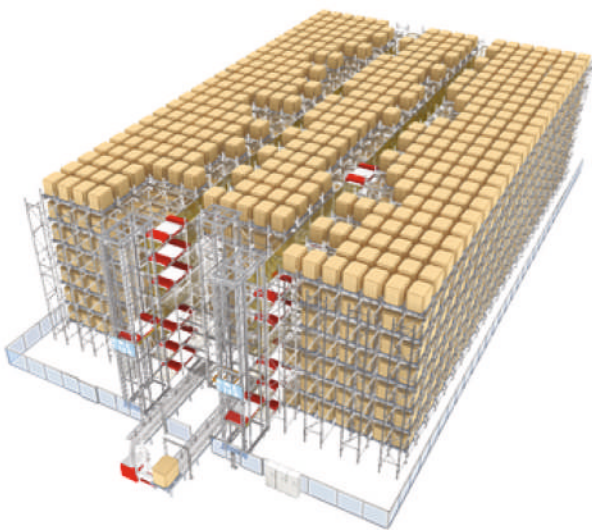
Mother & Child Shuttle ASRS



The Mother-Child Shuttle system is an advanced, high-density storage solution used in warehouses to maximize space and improve efficiency. This system consists of two main components: the "mother" shuttle, which is a stationary unit located at the beginning of a storage lane, and the "child" shuttles, which are smaller, mobile units that move along the racking lanes to transport pallets. The child shuttle is loaded with goods and moved into the racking system, where it deposits or retrieves items. The mother shuttle then takes the child shuttle to a transfer point for unloading or reloading.



This system combines the benefits of high-density storage with automated retrieval, improving both storage capacity and throughput. It's especially useful for environments with large volumes of goods that need to be stored quickly and efficiently, such as in the food and beverage industry, e-commerce, and manufacturing. The mother-child shuttle system allows for more flexible and faster pallet handling compared to traditional methods, while reducing labor costs and increasing operational efficiency.





Order Fulfillment Solutions

Warehouse Order Fulfillment and Automation

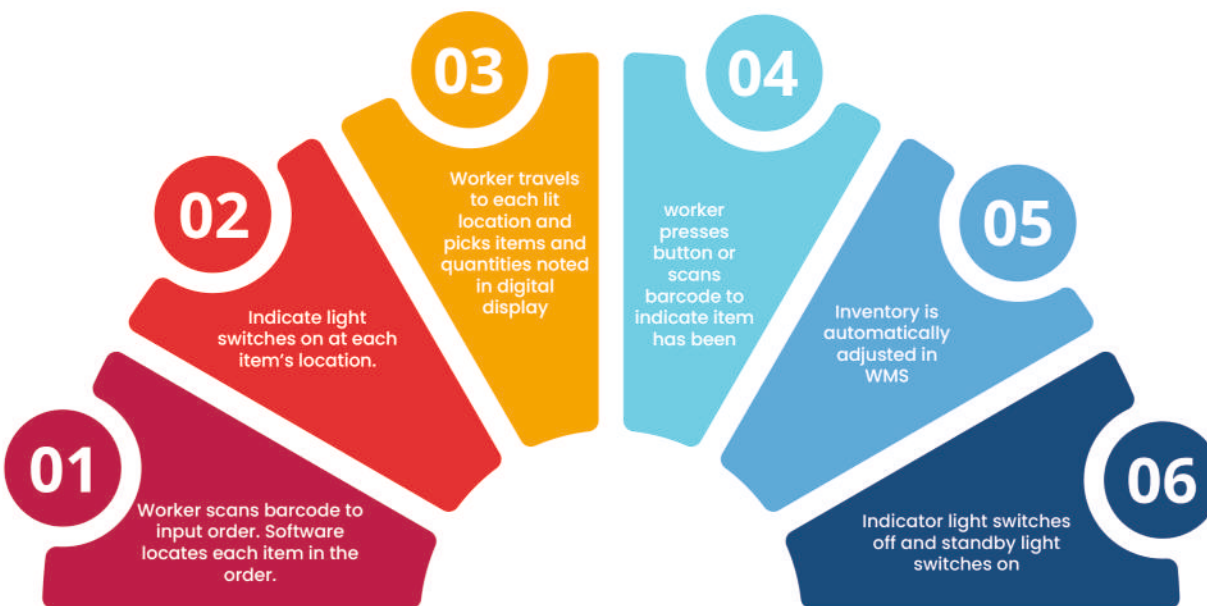


Pick-to-Light System for Streamlined Order Fulfillment

Our advanced Pick-to-Light system optimizes order fulfillment by guiding pickers directly to the correct rack location with precision lighting cues. When an order is placed, our application sends a signal to the designated rack location, illuminating an LED indicator. This signal allows the picker to swiftly identify the exact product location, improving picking accuracy and reducing search time. Once the product is picked, confirmation from the picker seamlessly updates the inventory data in our system, ensuring real-time tracking and operational efficiency. This intuitive solution enhances productivity and accuracy, making it ideal for high-paced warehouse environments.



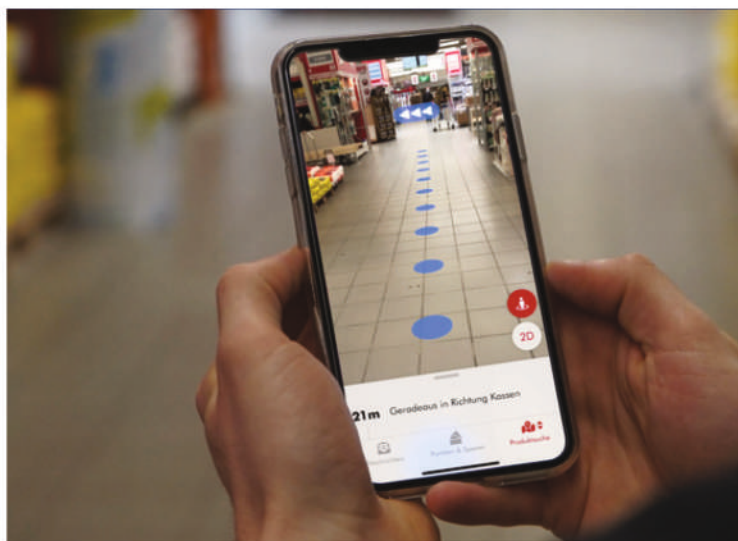
Pick-to-Light Operation



Pick-to-Light Warehouse Operation

Augmented Reality -AR based Location Guidance System - ARLGS

Our Pick-to-Light system, enhanced with AR navigation, streamlines the picking process by guiding workers directly to product locations. When an order is placed, a signal activates an LED at the rack, while the AR system provides visual directions, reducing search time and boosting efficiency. Once the item is picked, the system updates inventory data instantly, ensuring accurate, real-time tracking.



Lightmap & Illumipick

Advantages of Pick-to-Light and Put-to-Light Systems

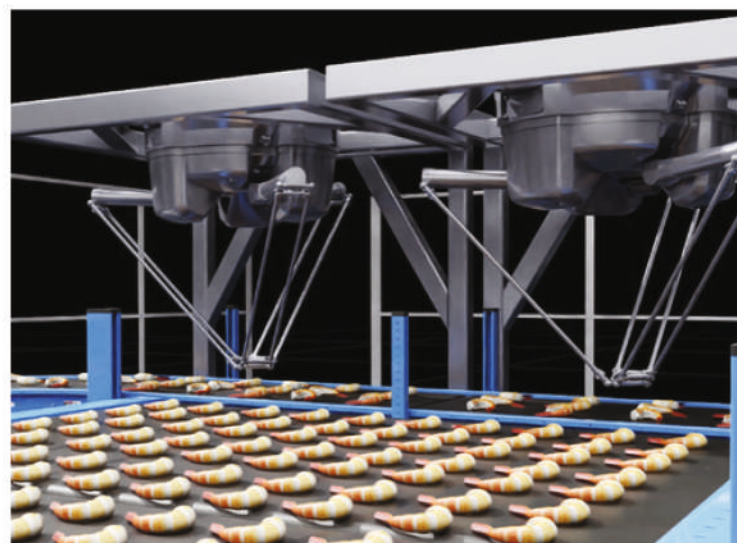
Pick-to-light and put-to-light have a relatively low hardware and install cost compared to other automation options, especially when you consider some of the other advantages:

- **Reduction in picking and placing errors** : it's been shown to provide up to 99.6% picking and placing accuracy.
- **Reduced labor costs** : these systems allow more productivity per operator.
- **Low hardware and install cost for automation** : these can be installed right to the pick face via a plastic channel tek screwed.
- **Shortened order fulfillment cycle times.**
- **Reduced training time for new employees.**



Turnkey solutions in Food Processing Industry

Turnkey solutions with robotics in the food processing industry integrate advanced automation to streamline operations, enhance efficiency, and ensure consistency. These solutions involve designing, developing, and implementing robotic systems tailored to meet the specific needs of food processing, packaging, and distribution. Here's how robotics can play a pivotal role in turnkey solutions for the food industry.



Applications in Food Processing

- **Sorting and Grading** : Robotic systems equipped with machine vision can sort and grade produce based on size, color, and quality, ensuring high accuracy.
- **Cutting and Slicing** : High-precision robots can perform delicate operations like slicing meat, fruits, or vegetables while maintaining hygiene and reducing waste.
- **Mixing and Blending** : Robots automate mixing and blending processes, ensuring consistent quality and reducing manual labor.

Benefits of Turnkey Robotic Solutions

- Increased Production Efficiency
- Reduced Labour Costs
- Enhanced Product Quality and Consistency
- Improved Workspace Safety
- Scalability for Future Growth

Turnkey Solutions in Automation Industry

A turnkey solution for quality detection in automated industries integrates machine vision, AI, and robotics to ensure precise and efficient quality control. It features high-resolution cameras for inspection, AI-driven software for defect detection, and robotic systems for sorting. Seamlessly integrating with production lines, it provides real-time data for optimization, reducing errors, improving consistency, minimizing waste, and ensuring compliance with industry standards.



Applications by Industry

- **Manufacturing** : Detect surface defects, dimensional inaccuracies, or assembly errors.
- **Pharmaceuticals** : Inspect pills for size, color, and coating uniformity; ensure packaging integrity.
- **Electronics** : Detect PCB soldering defects, missing components or alignment issues.
- **Automotive** : Inspect parts for cracks, wear, or improper assembly Automated Inspection Systems.
- **Machine Vision for Quality Detection** : High-resolution cameras inspect paint consistency, color, and surface defects. AI models analyze patterns to identify.

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