INGENIERIA
Y EJECUCION

2026 CATALOG

Engineering that transforms your warehouse.

Industrial storage systems designed, supplied and installed to fit your operation.

DESIGN / ENGINEERING / SUPPLY / INSTALLATION / MAINTENANCE

01 / ABOUT US

Engineering and execution under one roof

HIE integrates engineering, design and execution to develop storage systems tailored to each client’s real operation. One point of responsibility, from assessment to commissioning.

11
years of experience

380+
projects completed

95+
clients served

MX · US
Mexico and the United States

02 / SOLUTIONS

A system for every type of load

S-01	**Selective pallet rack**	Direct access
S-02	**Double-deep rack**	More density
S-03	**Drive-in / drive-through rack**	High density
S-04	**Pallet flow rack**	FIFO
S-05	**Push-back rack**	Density and speed
S-06	**Cantilever rack**	Long loads
S-07	**Mezzanines and platforms**	More floor space
S-08	**Picking shelving**	Light loads
S-09	**Carton flow rack**	Case picking
S-10	**Wide-span shelving**	Heavy loads
S-11	**Coil rack**	Coils and rolls
S-12	**Mold and die rack**	Tooling
S-13	**Stacking racks**	Irregular product
S-14	**Pallet shuttle**	Automated
S-15	**Dollies**	Mobile
S-16	**Custom solutions**	Made to order

Designed to fit your building, pallets and equipment

HIE project
Selective pallet rack

S-01 / SOLUTIONS

Selective pallet rack

Versatile, robust system of independent bays that form aisles with direct access to every pallet. Ideal for operations with a wide variety of SKUs.

KEY FEATURES

+ Direct access to every pallet
+ Robust, safe structure
+ Versatile for every industry
+ Efficient use of space
+ Adaptable to any operation

S-02 · CROSS-SECTION VIEW

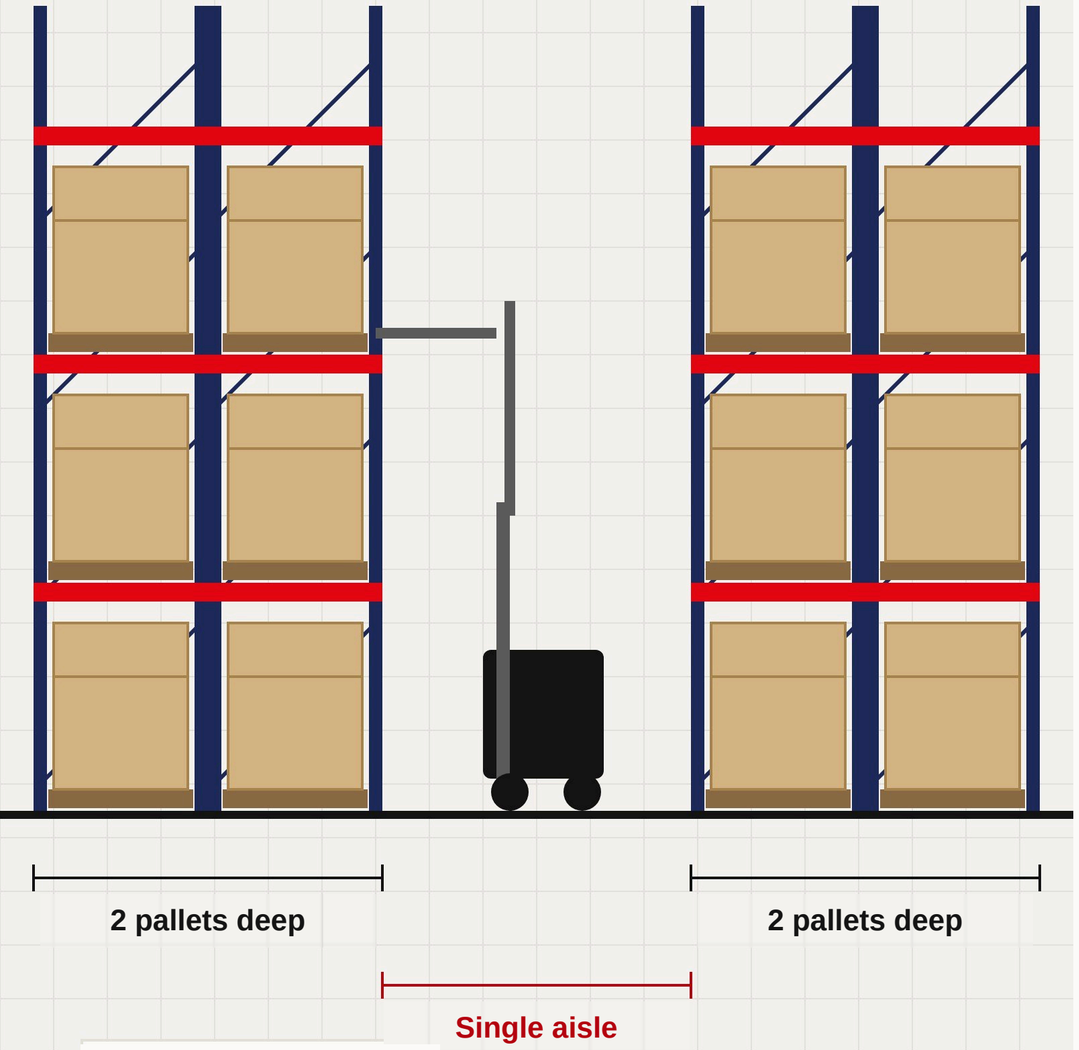


Illustration
Double-deep rack

S-02 / SOLUTIONS

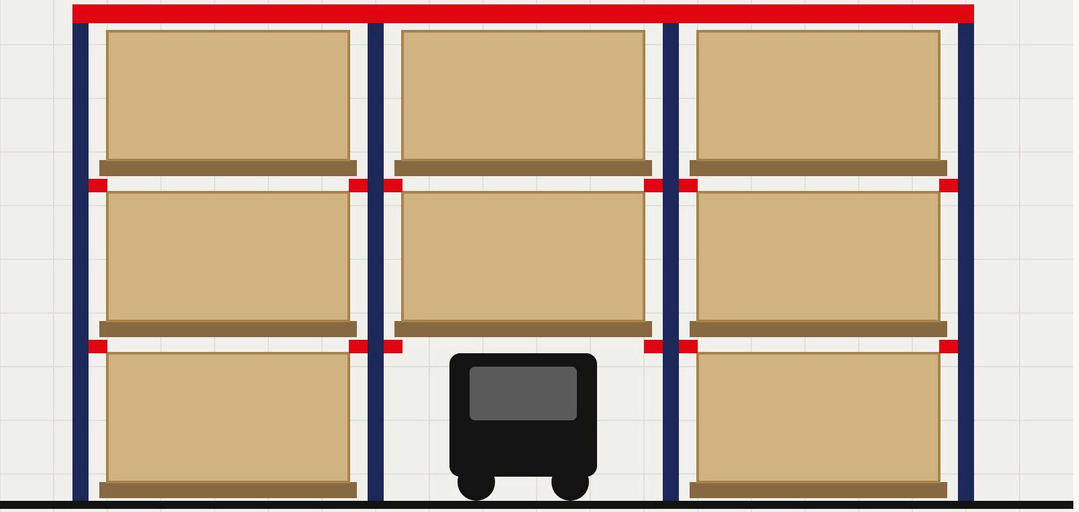
Double-deep rack

Two pallets deep on each side of the aisle: fewer aisles and more positions in the same building. Ideal when each SKU has several pallets.

KEY FEATURES

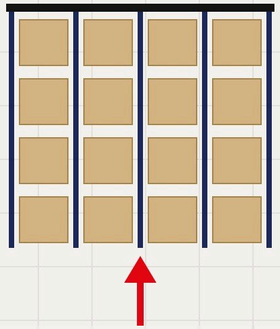
+ Fewer aisles, more positions
+ Built on selective racking
+ Several pallets per SKU
+ Double-deep reach trucks

S-03 · ILLUSTRATION



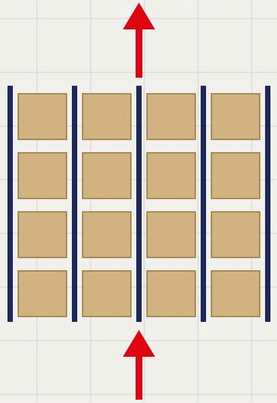
The forklift drives into the lane

Drive-In



Load and unload from one side

Drive-Through



Load on one side, unload on the other

S-03 / SOLUTIONS

Drive-in / drive-through rack

High density for uniform product with few SKUs. It eliminates the aisles between blocks: the forklift drives into the structure and pallets are stored in deep lanes.

KEY FEATURES

+ High-density storage
+ Ideal for uniform product
+ Fewer aisles, more positions
+ Direct access to the first row

HIE project
Pallet flow rack

Pallet flow rack

Gravity flow with FIFO rotation (first in, first out): rollers set on a slight incline carry each pallet to the front as stock is used.

BENEFITS

+ Guaranteed FIFO rotation
+ Fewer errors and less shrinkage
+ Lower operating costs
+ More efficient picking
+ Better inventory control

HIE project
Push-back rack

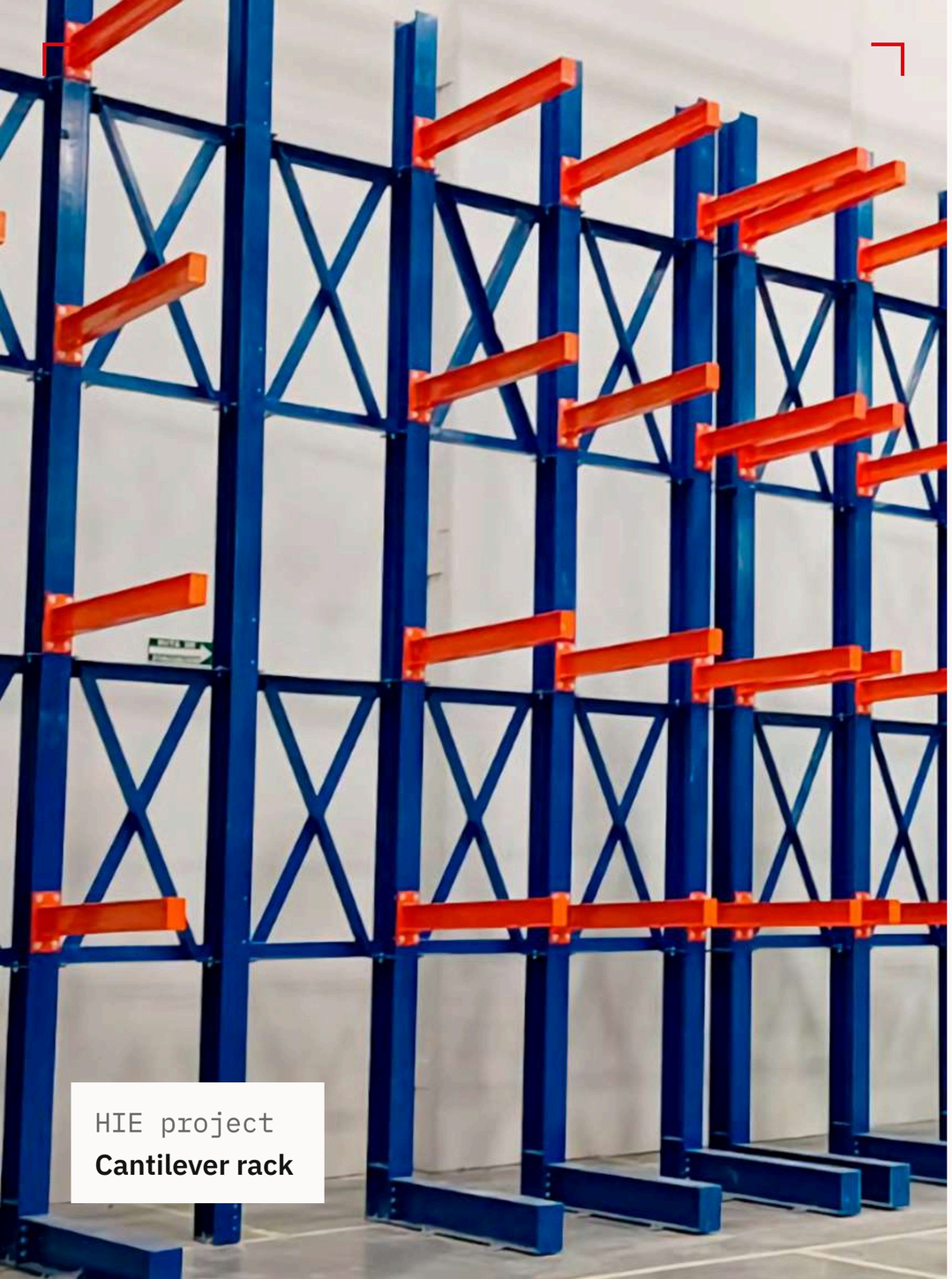
S-05 / SOLUTIONS

Push-back rack

Nested-cart system: loading and unloading take place from the same aisle while pallets move toward the back. Combines density with operating speed.

KEY FEATURES

+ High storage density
+ Efficient pallet access
+ Compatible with your WMS
+ A single operating aisle
+ More capacity per square foot



HIE project
Cantilever rack

S-06 / SOLUTIONS

Cantilever rack

Cantilever structure with long arms and no front uprights, for long, heavy or irregularly shaped loads: structural profiles, pipe, lumber or sheet metal.

KEY FEATURES

+ Long, bulky loads
+ Individual access to each item
+ Efficient use of space
+ High load capacities
+ Versatile configuration

HIE project
Mezzanine

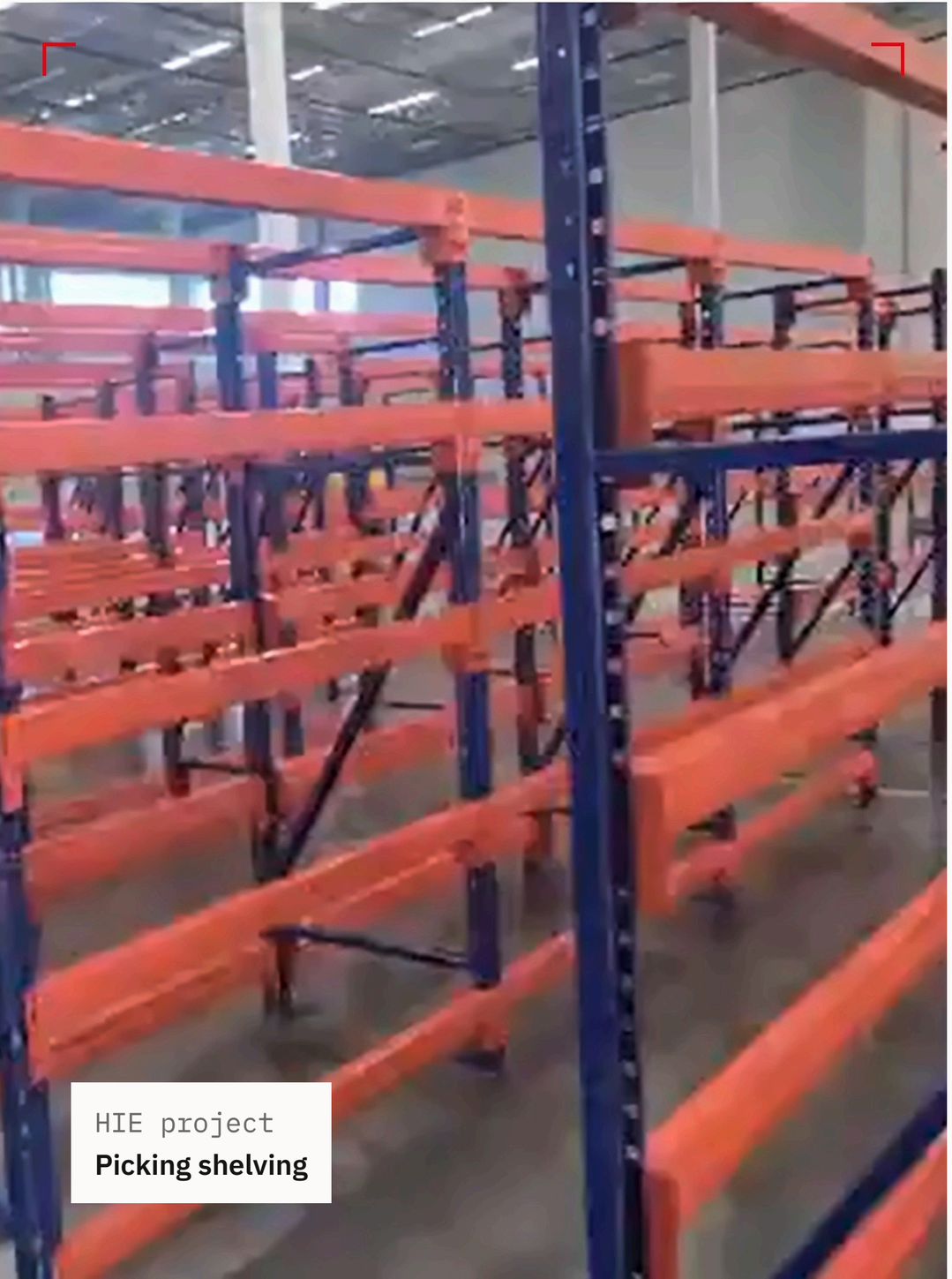
S-07 / SOLUTIONS

Mezzanines and platforms

Industrial mezzanine that makes use of the building’s clear height: a modular structure supports a solid deck and creates a new level within the existing space.

KEY FEATURES

+ More usable floor space
+ No building expansion
+ Versatile use
+ Integrates with existing racks



HIE project
Picking shelving

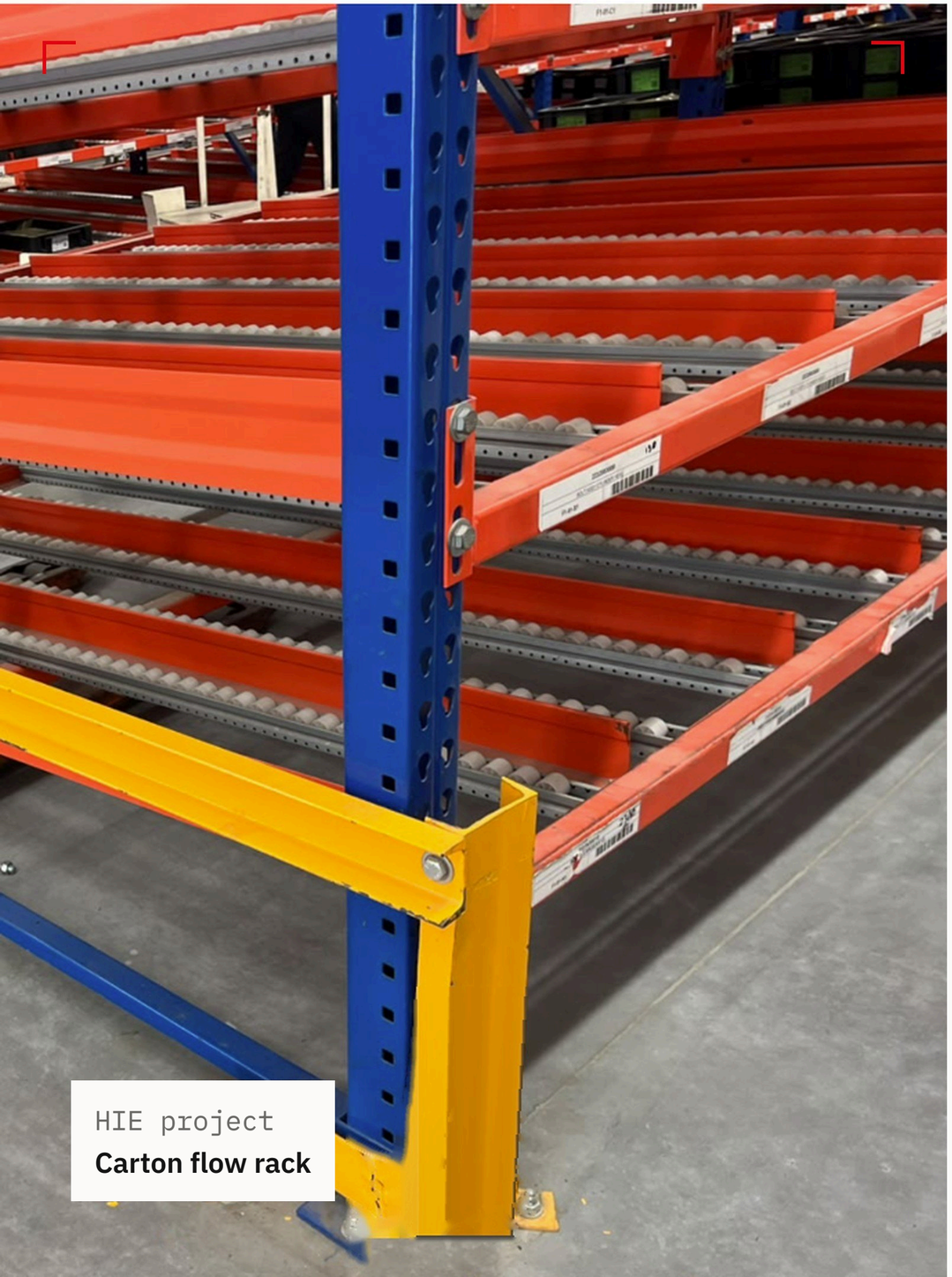
S-08 / SOLUTIONS

Picking shelving

Independent, adjustable units for manual order picking and light-duty storage, with direct access to every product.

KEY FEATURES

+ Direct access to products
+ More efficient picking
+ Compatible with your WMS
+ Higher picking accuracy
+ Adaptable to every need



HIE project
Carton flow rack

S-09 / SOLUTIONS

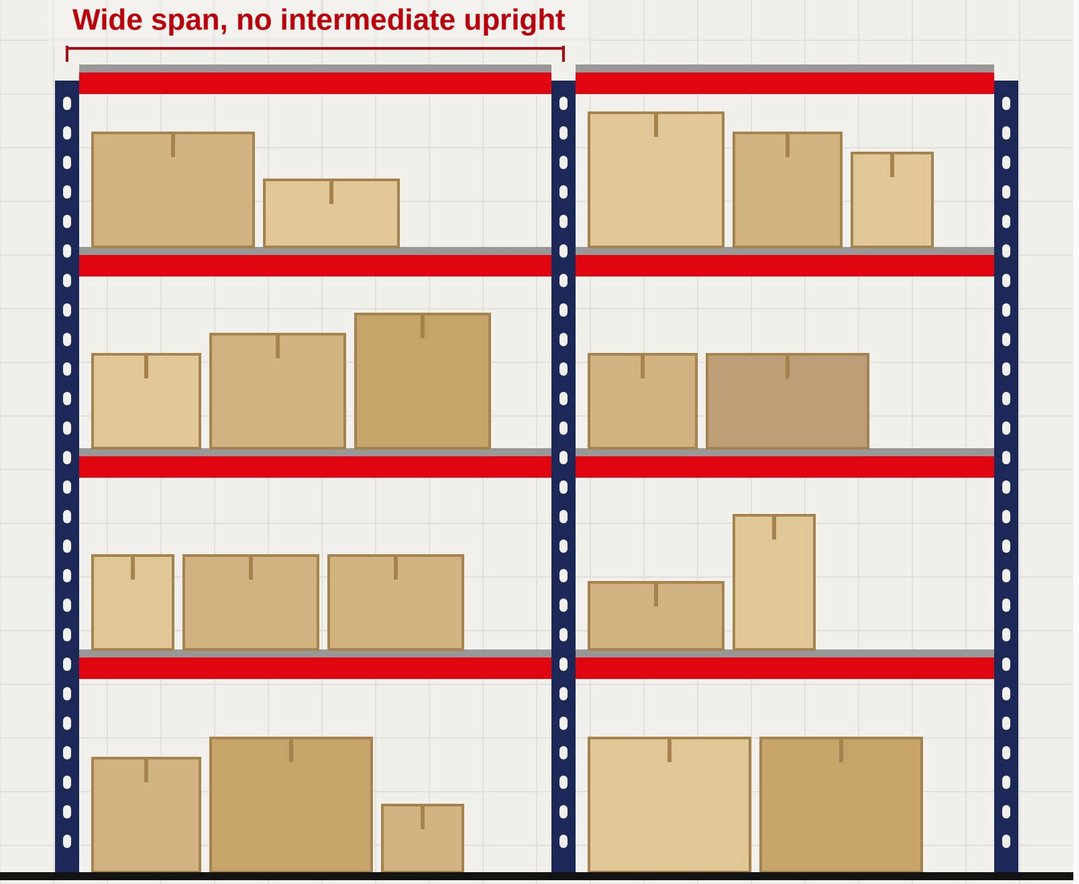
Carton flow rack

Gravity case flow: cases roll down inclined lanes toward the pick face. Handles cardboard cases, plastic totes and bagged items.

KEY FEATURES

+ Shorter picking time
+ Less physical effort
+ Compatible with your WMS
+ Faster replenishment
+ FIFO rotation

S-10 · ILLUSTRATION



Adjustable levels · manual or equipment loading

S-10 / SOLUTIONS

Wide-span shelving

Shelving for heavy, bulky products, with wide clear spans and no intermediate uprights. Configurable in different heights, lengths and depths to fit your space.

KEY FEATURES

+ Heavy, bulky loads
+ Wide clear spans
+ Custom configuration
+ Manual or equipment loading

HIE project
Coil rack

Coil rack

Designed to organize, protect and simplify the handling of steel coils, metal rolls and other heavy materials, with robust modular structures.

KEY FEATURES

+ Safe storage
+ Robust structure
+ Versatile configuration
+ Various diameters and weights

HIE project
Mold and die rack

Mold and die rack

Reinforced structure for heavy molds and tooling, with pull-out drawers on roller bearings so each mold can be pulled out and lifted safely by crane.

KEY FEATURES

+ Pull-out drawers
+ High load capacity
+ Safe crane lifting
+ Molds organized and visible

HIE project
Stacking racks (pallet converter)

S-13 / SOLUTIONS

Stacking racks

Stackable steel frames that turn a pallet into a safe stack for irregular product, such as tires. They stack several levels high without the product bearing the weight.

KEY FEATURES

+ Stack several levels high
+ Protect the product
+ Moved by forklift
+ Ideal for tires

Automation
Pallet shuttle

Pallet shuttle

High-efficiency automated storage: a shuttle cart moves pallets inside compact racking. For high-volume warehouses and distribution centers.

KEY FEATURES

+ High throughput
+ Automated operation
+ Compact storage
+ Fewer forklift moves

HIE project
Dollies

Dollies

Mobile racks on casters, ideal for tight spaces, changing storage needs or when parts must be reached quickly from different angles.

KEY FEATURES

+ Effortless mobility
+ Quick access to parts
+ Custom shelves or drawers
+ Space optimization

HIE project
Roller conveyor tables

Custom solutions

When no standard system fits your operation, we design one: roller conveyor tables, structures for special parts and adaptations to your building.

KEY FEATURES

+ Custom engineering
+ Structural validation
+ Integration with your process
+ From design to installation

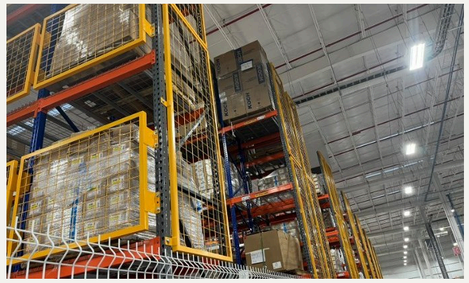
ACCESSORIES

Rack accessories

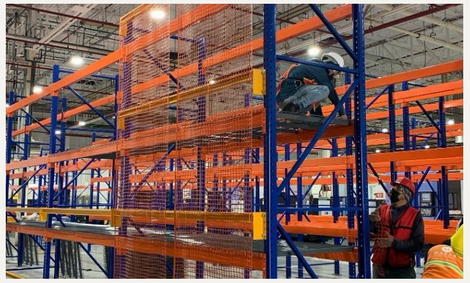
We protect your system and your people: we reduce impact damage, prevent falling loads and post the load capacity of every level.

+ Upright guards and rear pallet stops
+ Wire mesh back guards and netting
+ End-of-aisle guards
+ Flue keepers and pallet support bars
+ Temporary empty pallet storage
+ Location labels and capacity signage

Rear pallet stop

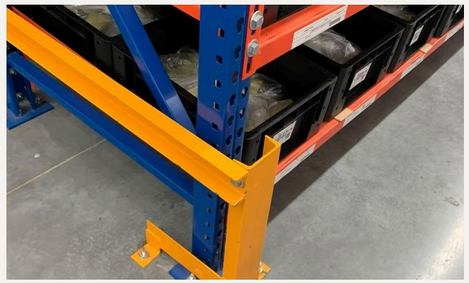


Wire mesh back guard



Safety netting

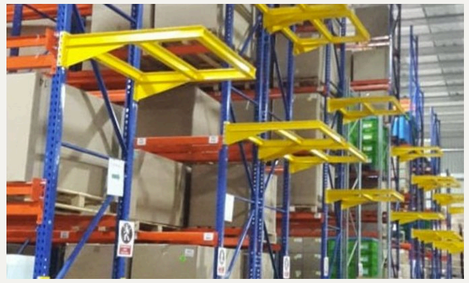
Flue keeper



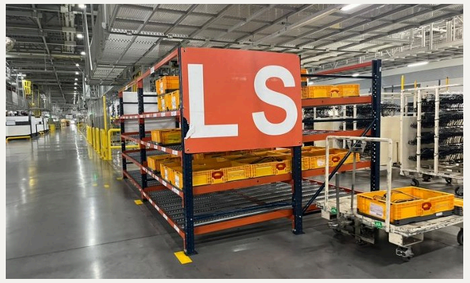
End-of-aisle guard

Upright guards

Pallet support bars



Empty pallet rack



Location labels

03 / ENGINEERING SERVICES

We design before we build

01

Technical assessment

Site visit and survey to understand your operation, building and load.

02

AutoCAD layout and drawings

Warehouse layout and drawings ready to build.

03

Warehouse design consulting

The system with the best balance of capacity and access for your operation.

04

Structural calculations

Structural validation based on configuration, loads and conditions.

05

Certified expert report

Independent technical opinion on your installed storage system.

06

Capacity simulation

Find out how many positions you'll gain before you invest.

03 / INSTALLATION & AFTER-SALES

Your system, safe for its service life

01

Rack installation

Assembly, leveling and anchoring by specialized crews.

02

Rack relocation

Dismantling, transport and reassembly at your new location.

03

Reconfiguration

We adapt your system to new loads, heights or pallets.

04

Rack inspection

Visual and technical evaluation of your installed system.

05

Preventive maintenance

Scheduled program to keep your system safe and performing.

06

Corrective maintenance

Repair or replacement of damaged components.

07

Spare parts

Sourcing and replacement of components and accessories.

08

Dismantling and removal

Professional removal of decommissioned racks.

04 / CAPABILITIES

One point of responsibility, from assessment to commissioning

01 **Engineering and design**
Site survey, layout, CAD design and structural calculations.

02 **Manufacturing and supply**
Components built to each project's approved engineering.

03 **Professional installation**
Assembly, leveling and anchoring of every system.

04 **Coverage**
Projects in Mexico and the United States, based in Monterrey.

05 **Safety and quality**
Load capacities defined by engineering on every project.

06 **After-sales service**
Inspection, maintenance and reconfiguration for life.

Industries: automotive · 3PL logistics · manufacturing · appliances · food & beverage · retail · e-commerce · distribution centers

From site survey to commissioning

PHASE A · ASSESSMENT

01 **Assessment**
We understand your operation, product and challenges.

02 **Site survey**
Measurement of the building, pallets and handling equipment.

03 **Operational analysis**
Flows, turnover and inventory volumes.

PHASE B · ENGINEERING

04 **Layout and proposal**
Optimal layout and system alternatives.

05 **Engineering**
CAD design and structural calculations.

06 **Capacity simulation**
Positions and capacity before you invest.

PHASE C · EXECUTION

07 **Manufacturing**
Components built to the approved engineering.

08 **Installation**
Assembly, leveling and anchoring of every system.

09 **Commissioning**
Handover with load capacity signage.

A responsible, honest company.

We build long-term relationships: we tell the truth about what a system can do, we look after the people who work with it, and we stand behind our work throughout its service life.

Four principles that guide every project

01

Honesty and transparency

Clear quotes, real load capacities and timelines we can actually meet. If a system isn’t right for your operation, we’ll tell you.

02

People’s safety

We design, install and label every system to protect the people who work in your warehouse. Safety is never traded for lower costs.

03

Quality you can count on

Structural validation, installation to the approved engineering and support throughout the system’s service life.

04

Social responsibility

Fair treatment of employees, clients and suppliers, development of local talent and responsible use of steel: reconfigure and relocate before replacing.

06 / CLIENTS

Companies that trust HIE

More than 95 clients in automotive, logistics, manufacturing and consumer goods, in Mexico and the United States.

INGENIERIA
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Tell us what you need and we'll help you gain more capacity.

Share floor plans (DWG or PDF), photos and your pallet details. An HIE engineer will review your case.

Request your technical assessment

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