

Oil and Gas Company Maximizes Storage with Mobile Racking and Industrial Shelving

A private oil and gas company needed more storage capacity inside a new warehouse that could not expand. Southwest Solutions Group designed a combined storage layout with powered mobile pallet racking, static industrial shelving, and drawer storage for pallets, materials, and smaller parts.

INDUSTRY

Industrial

Completed for an oil and gas operation that needed more warehouse storage within a fixed building footprint.

LOCATION

Mont Belvieu, TX

Served a new warehouse operation in the Houston area.

FACILITY TYPE

New Industrial Warehouse

The warehouse was designed with mobile pallet racking and industrial shelving before inventory was moved into the building.

SOLUTION

Mobile Racking and Industrial Shelving

Powered mobile pallet racking increased storage density, while static industrial shelving and drawers organized smaller materials and parts.

PRODUCTS USED

Mobile Pallet Racking, Pallet Rack, and Industrial Shelving

The layout combined powered mobile pallet racking, pallet rack beams and uprights, wire decking, closed industrial shelving, and shelving with drawers.

OPERATIONAL GOAL

Increase Warehouse Storage Capacity

The goal was to maximize storage capacity within the existing warehouse footprint.

THE PROBLEM

A New Warehouse Needed More Storage Capacity

An oil and gas company was moving into a new warehouse with a fixed building footprint. Traditional static pallet racking alone could not provide the required pallet positions. The company also needed organized shelving and drawer storage for smaller materials before inventory was moved into the building.



01

Fixed Warehouse Footprint

The warehouse could not be expanded to create more storage space. Traditional pallet racking did not provide enough capacity within the available floor area.

02

Different Materials Needed Different Storage

The customer needed more pallet positions along with organized storage for smaller materials and parts. One storage type could not meet every need within the available space.

03

Storage Plan Needed Before Move-In

The storage plan had to be finalized before inventory was moved into the new warehouse. The design needed to work within the fixed building footprint from the start.

THE SOLUTION

Mobile Racking and Industrial Shelving Maximize Warehouse Storage

Southwest Solutions Group designed a combined warehouse storage layout for palletized materials and smaller parts. Powered mobile pallet racking reduced the number of permanent aisles and increased pallet capacity. Static industrial shelving, closed shelving, wire decking, and drawer storage created organized locations for materials that did not require pallet rack.



WHAT WE INSTALLED

Mobile Pallet Racking and Industrial Shelving

The installed solution included powered mobile pallet racking, pallet rack uprights and beams, waterfall wire decking, closed industrial shelving, and static shelving with drawers for smaller parts.

WHY IT FIT

Each Storage Type Served a Different Need

Powered mobile racking created more pallet positions by reducing permanent aisles. Static industrial shelving and drawers provided practical storage for smaller materials that did not need to be stored on pallets.

OPERATIONAL IMPACT

Pallets and Smaller Parts Organized Together

The completed layout created separate storage areas for palletized inventory, shelf-based materials, and smaller parts stored in drawers. The combined design supported different inventory types within the same warehouse.

Installing Mobile Racking and Industrial Shelving

The installation converted an empty warehouse into a combined storage area for palletized materials and smaller parts. Work included layout planning, rail anchoring, mobile carriage assembly, pallet rack installation, industrial shelving installation, control setup, safety testing, and user training before inventory was loaded.

01

DISCOVERY & SITE SURVEY

Reviewed Pallet and Parts Storage Needs

The team reviewed the available floor space, pallet position goals, access needs, and smaller-parts storage requirements. This helped shape a layout that combined mobile racking with static industrial shelving.

02

LAYOUT, POWER & DATA PLAN

Planned Rails, Aisles, and Storage Zones

Plan view drawings were prepared for the mobile pallet racking, static shelving, and drawer storage areas. The design covered aisle access, rail placement, anchorage, electrical needs, pallet rack locations, and smaller-parts storage zones.

03

SUBMITTALS & APPROVALS

Prepared Drawings for Approval

Plan views showed the mobile racking, pallet rack, industrial shelving, drawers, aisles, and storage zones. These drawings helped confirm the complete layout before installation began.

04

FABRICATION & DELIVERY

Coordinated System Components for Installation

Components were coordinated for the powered mobile racking, pallet rack uprights and beams, wire decking, closed industrial shelving, and shelving with drawers. Delivery and staging were planned around the warehouse schedule.

05

INSTALLATION & TRAINING

Installed Mobile Racking and Static Shelving

Technicians anchored the floor rails, installed the mobile carriages and pallet rack, assembled the static industrial shelving and drawers, and connected the controls and safety devices. The mobile system was tested and demonstrated before use.

06

MAINTENANCE & SUPPORT

Prepared the System for Daily Use

The handoff covered safe operation, daily use, and reliable access to stored materials. The completed storage system was prepared for long-term warehouse use.

RESULTS

Mobile Racking and Industrial Shelving Maximized Storage

The completed storage layout increased capacity within the fixed warehouse footprint. Powered mobile pallet racking reduced the need for permanent aisles, while static industrial shelving, wire decking, and drawers supported smaller materials and parts.

PRIMARY OUTCOME

More Storage in the Same Warehouse

The combined mobile racking and industrial shelving layout provided the required pallet positions and parts storage without expanding the building.

WORKFLOW

Aisles Opened Only When Needed

Staff can open only the aisle they need while keeping pallet and shelf storage organized and accessible. This improves access while reducing wasted floor space.

ORGANIZATION

Dedicated Storage for Pallets and Parts

Mobile pallet rack, wire decking, closed industrial shelving, and drawers created separate storage areas for palletized inventory and smaller parts.

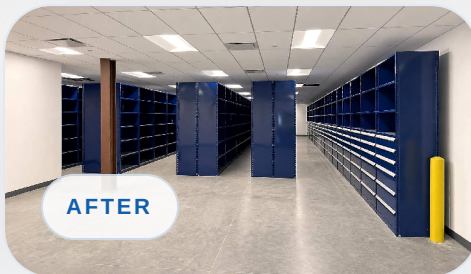
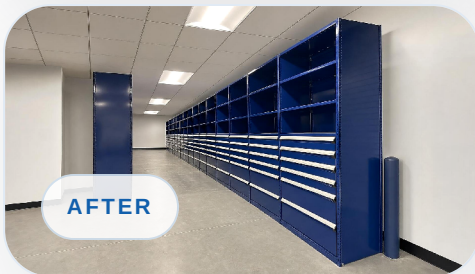
LONG-TERM VALUE

High-Density Storage Without Building Expansion

The combined mobile racking and industrial shelving layout makes better use of the current floor space. It provides long-term pallet and parts storage without relying on future building expansion.

Before and After Warehouse Storage Installation

These images show the empty warehouse before installation and the completed mobile pallet racking, pallet rack, industrial shelving, and drawer storage layout.



READY TO SOLVE A SIMILAR PROBLEM?

Need More Storage Without Expanding Your Warehouse?

Mobile racking and industrial shelving can increase capacity while organizing pallets, materials, and smaller parts within the same warehouse.

Southwest Solutions Group designs and installs mobile racking, pallet rack, industrial shelving, and drawer storage for warehouses with limited space.