



Optimizing Global Logistics Warehousing

143,300 Sq. Ft. Installation

for fulfillment and distribution center in Perris, CA

To support the expansion of a leading global logistics provider, Total Warehouse designed and implemented a high-density material handling solution for their new fulfillment and distribution center in Perris, CA.

Spanning 241,740 square feet, the facility was optimized with 143,300 square feet of custom-designed pallet racking, transforming the main storage area into a highly efficient and organized space.

68

High Density Aisles

Storage Area optimized for 68 Aisles with 14 long row Bays.

30ft

Racks Configured

30ft tall racks, consisting of 2 pick levels and 5 pallet levels.

18k+

Pallet Storage

18,480 Pallets and 3,696 Pick Levels within 1,848 Rack Bays.



About Our Client

Enterprise Fulfillment and Distribution Center

Our client, a Global Logistics Solutions (GLS) faced increasing challenges with warehouse inefficiency. As demand grew, their outdated racking system and wide aisles restricted productivity. The company reached out to Total Warehouse for assistance.

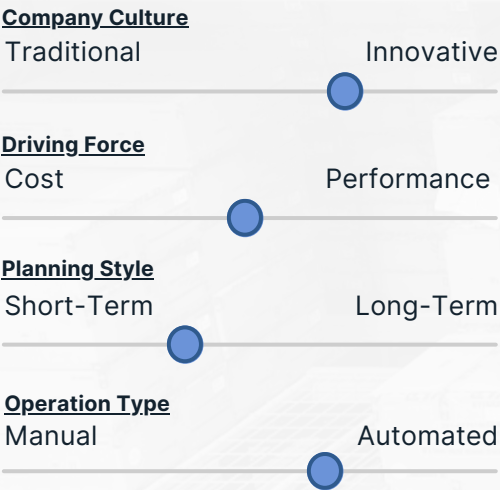
Company Overview

- **Application:** Fulfillment & Distribution
- **Facility Size:** 241,740 sq. ft.
- **Primary Goods Sold:** Consumer goods, automotive parts, industrial equipment
- **Market Presence:** Global supply chain network, operating in North America and Asia

Pain Points

- **Limited Storage Efficiency:** Inadequate racking and wide aisles reduced warehouse capacity, leading to inefficient use of space.
- **Slow Picking & Order Fulfillment:** Ineffective storage layout resulted in increased travel time for operators and delays in order processing.
- **High Operational Costs:** Excess labor, maintenance, and equipment costs due to outdated warehouse infrastructure.

Traits



Goals

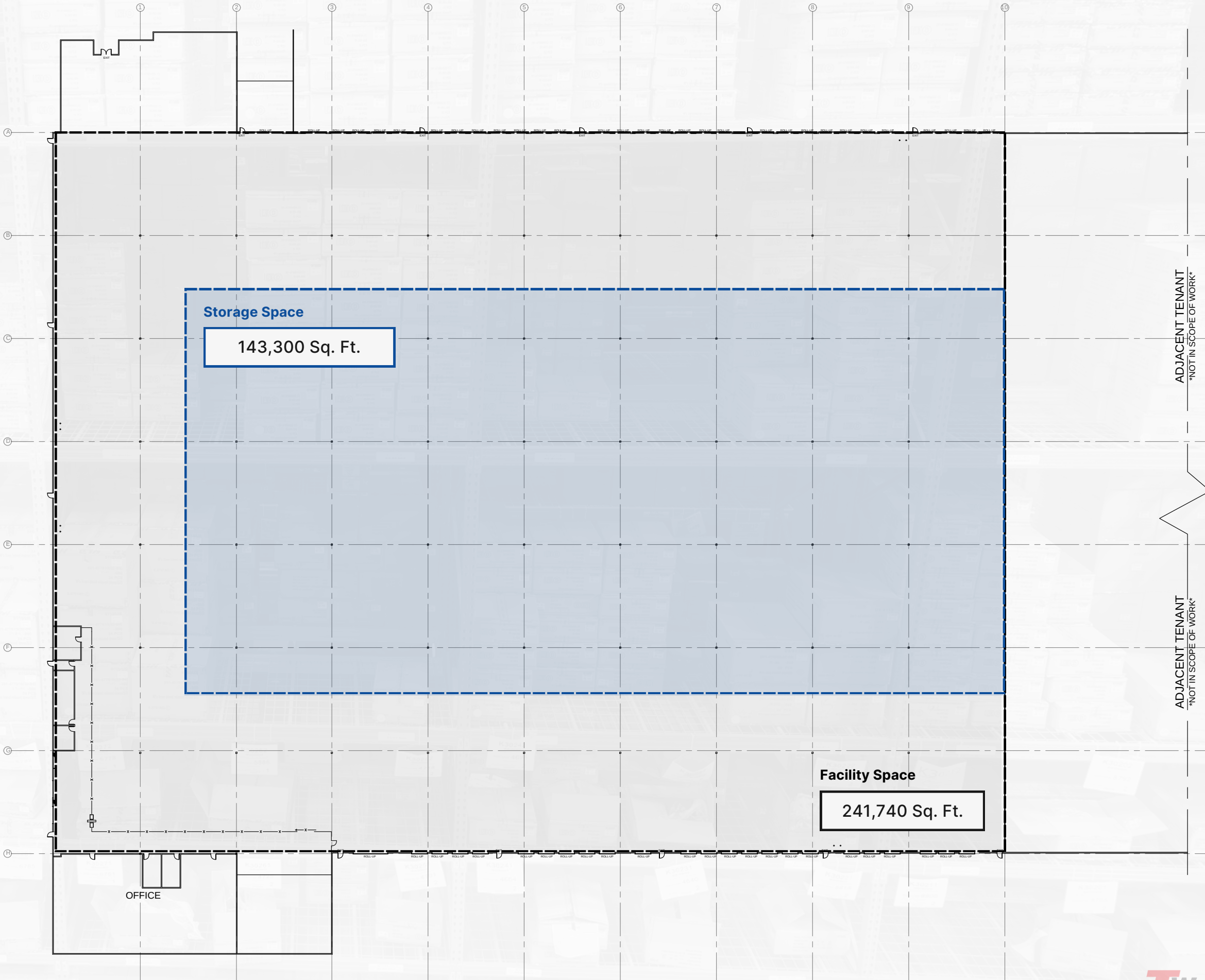
- **Maximize Storage Density:** Optimize warehouse space to store more products within the existing facility footprint.
- **Increase Order Fulfillment Speed:** Improve operator speed and accuracy with an efficient racking layout and equipment integration.
- **Reduce Operational Expenses:** Lower labor, energy, and equipment costs through streamlined processes and a more organized storage system
- **Improve Workplace Safety & Ergonomic:** Reduce the risk of workplace injuries and create a safer, more organized environment

Sources of Information

- **Monthly TW Newsletter:** Learned about our expansive racking solutions and installation services.
- **TW Website:** Researched racking and equipment options and read blogs about maximizing space.
- **TW Sales Representatives:** Spoke to a storage expert and received a free site assessment and proposal.

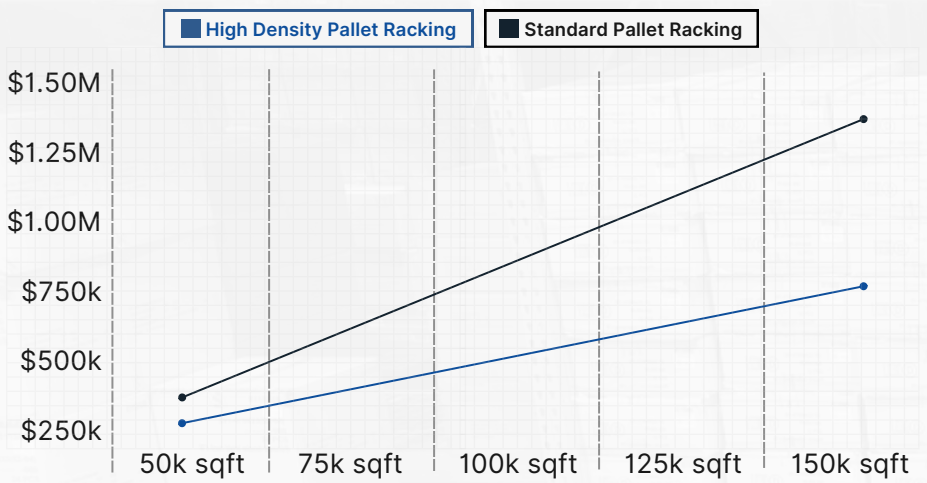
Actions

- **Analyzed Innovative Warehousing Strategies:** Studied how leading fulfillment centers optimized storage and picking processes.
- **Explored Warehouse Equipment Options:** Considered forklift and racking combinations to determine the best fit for operation.
- **Researched Racking Solutions Providers and Requested Site Assessments:** Engaged with racking suppliers websites and over phone/email.



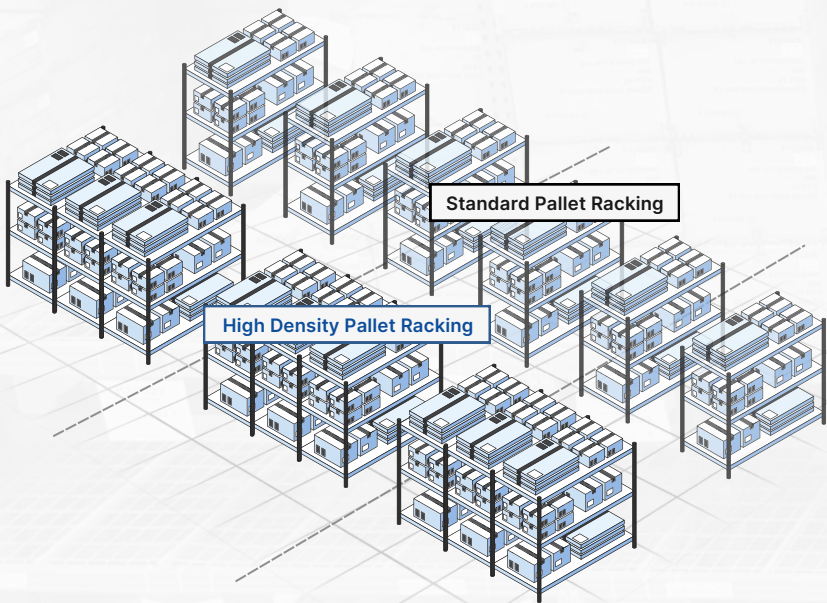
Higher Density = Lower Costs

Warehouses typically incur \$8 per sqft (avg.) annually in space-related expenses. With high-density racking, every 100,000 sq. ft. saved can result in up to \$1 million in annual operating cost reductions, maximizing efficiency and profitability.



Increased Efficiency by 56%

The high-density racking system reduces the required storage space by approximately 56% compared to standard pallet racking



30% More Pallets Stored per Sq Ft

High-density racking maximizes warehouse space by storing more pallets per square foot compared to standard racking. By utilizing vertical space and reducing aisle width, it increases storage capacity while maintaining access to inventory. This allows warehouses to store more product within the same footprint, reducing the need for costly expansions.



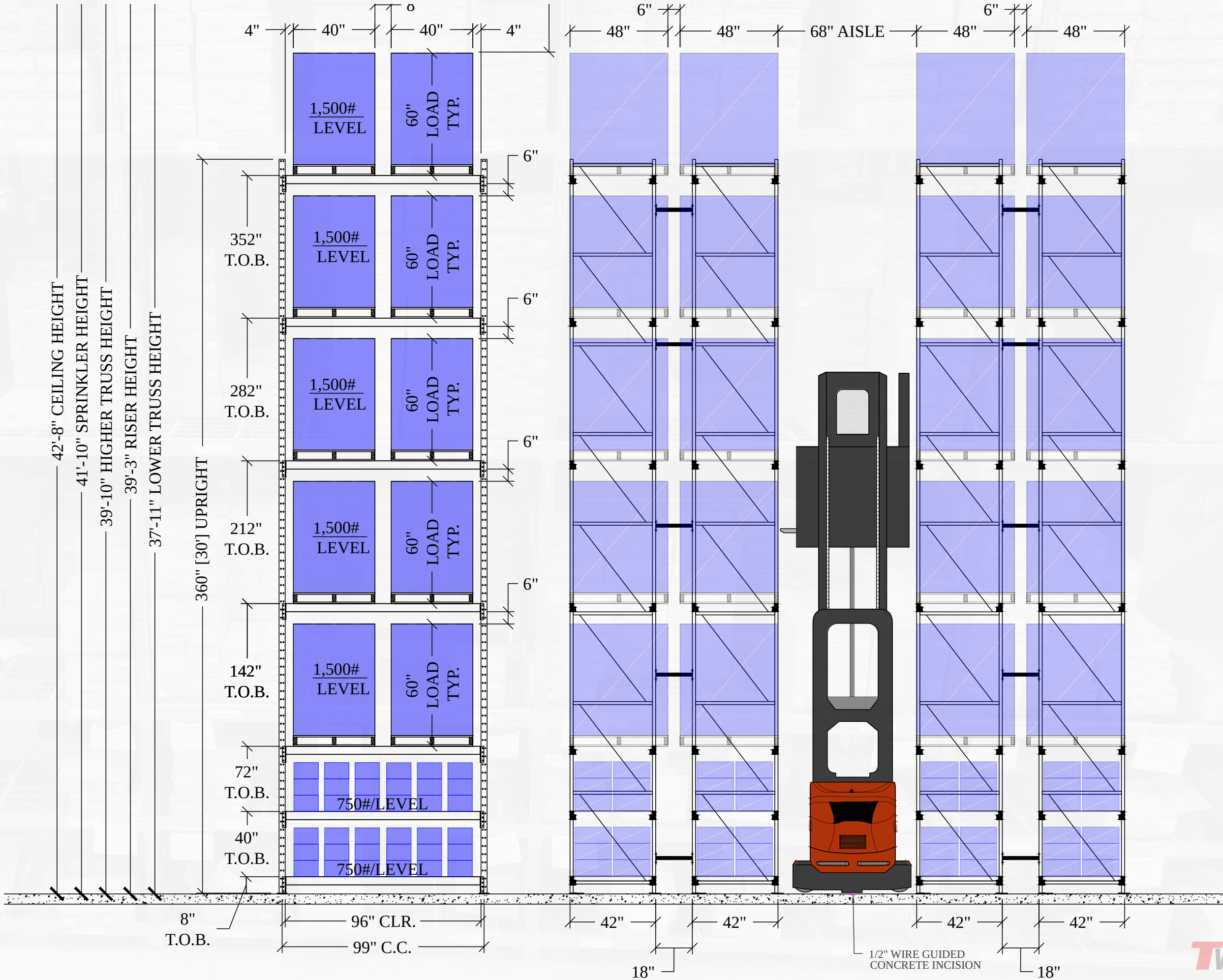
Narrow Aisle vs Standard Aisle Equipment

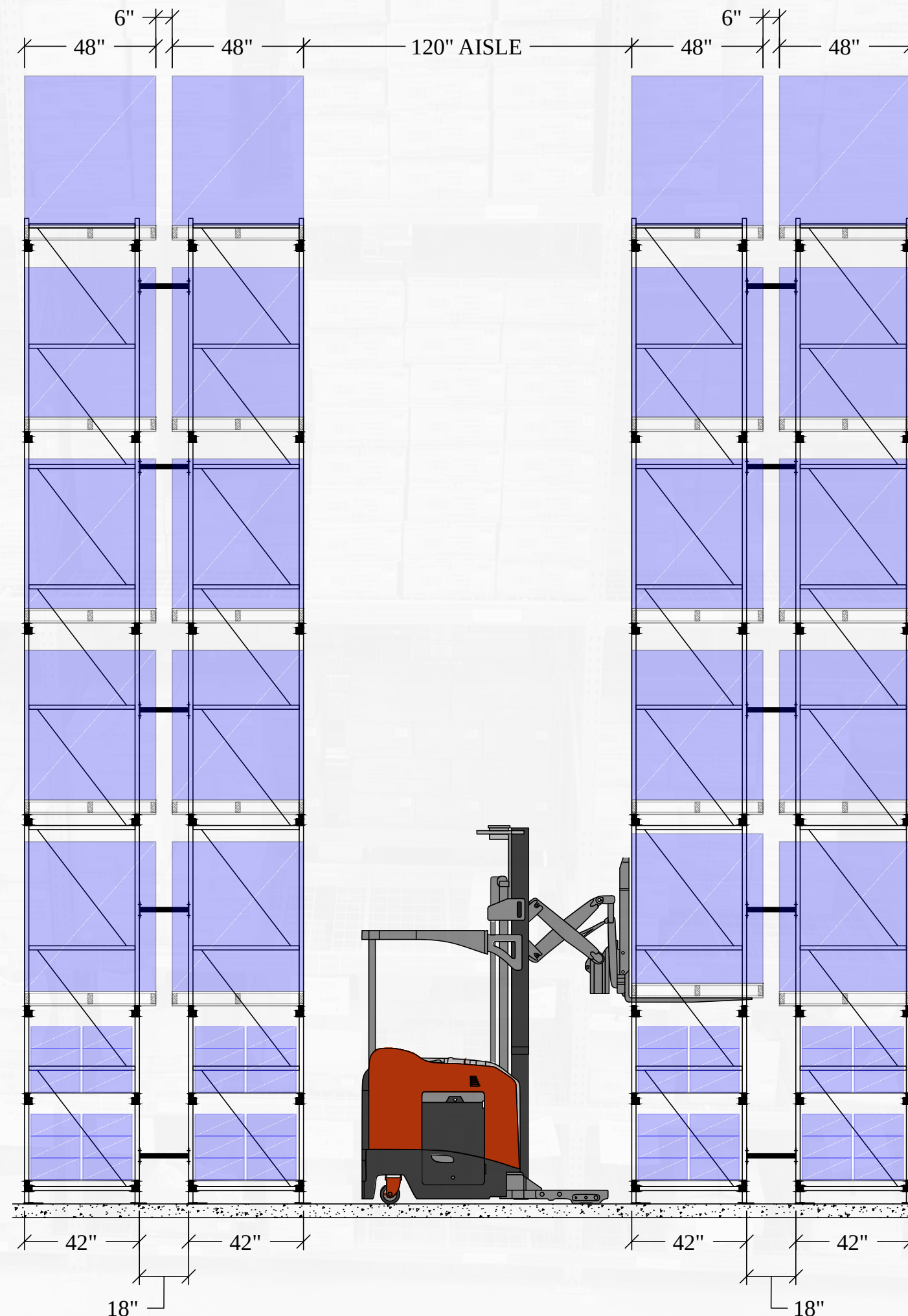
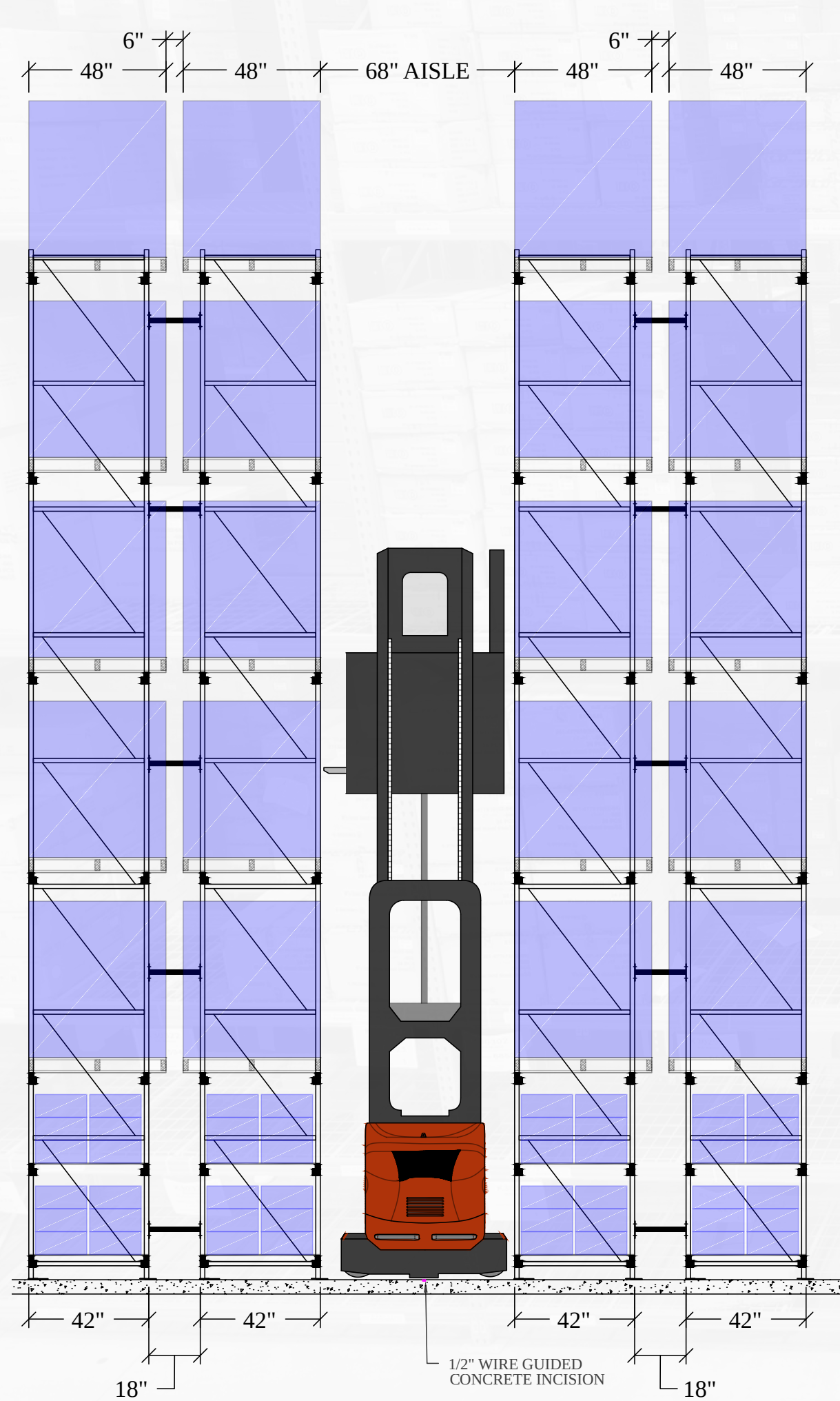
The implementation of turret trucks, designed for high-speed operation in narrow aisles, optimized picking accuracy and workflow efficiency. The solution included 68 aisles with 14 bays per aisle, featuring 30-foot-tall racks with two pick levels and five pallet levels per bay. This advanced racking system now accommodates 18,480 pallets and 3,696 dedicated pick locations, maximizing space utilization while streamlining inventory management.

Additionally, operators benefit from reduced travel time, faster order fulfillment, and an overall safer, more productive working environment.



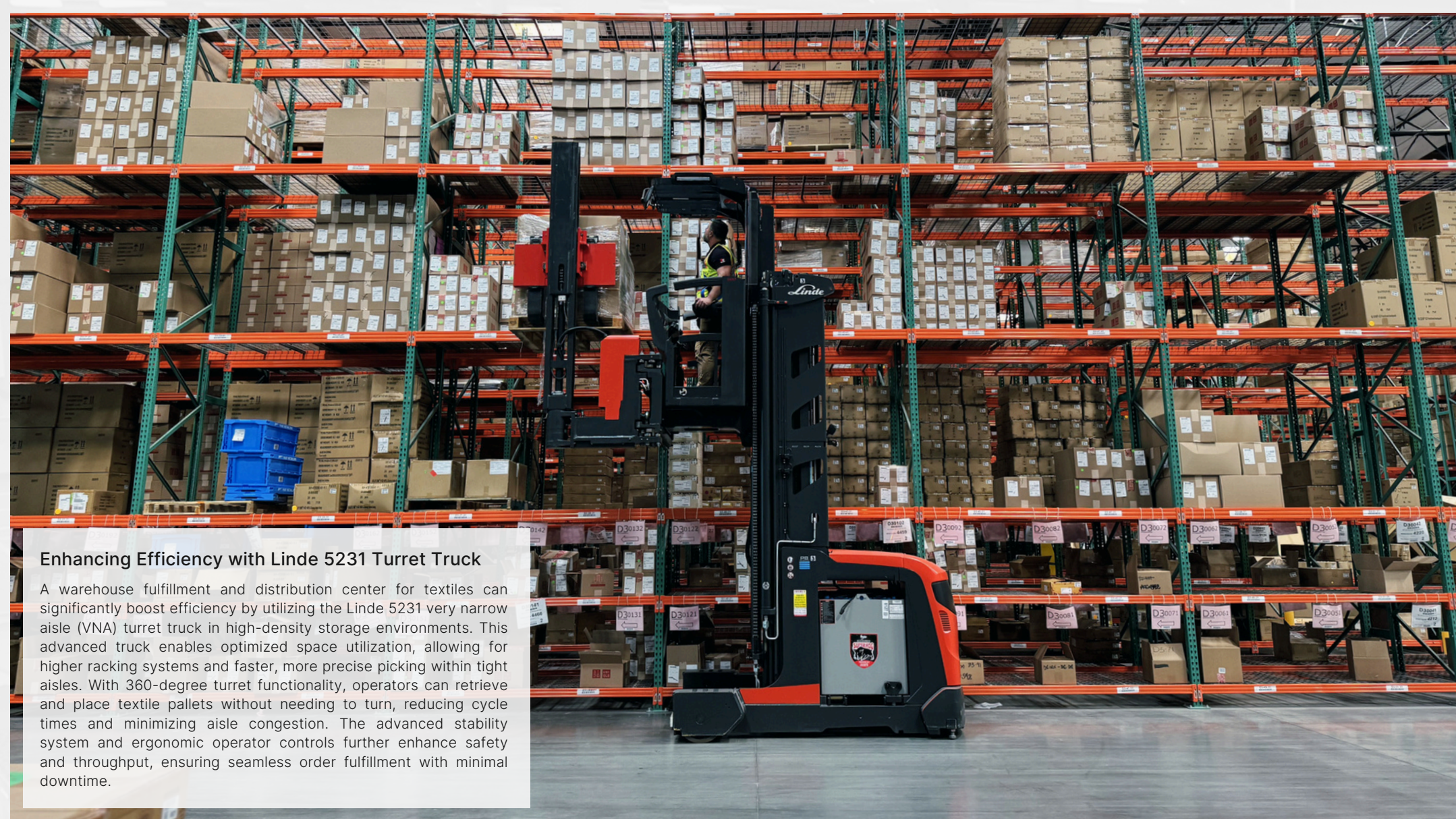
Category	Narrow Aisle (6 ft. Aisles)	Counterbalance (10 ft. Aisles)	Annual Savings
Equipment Needed	5 VNA Trucks	10 Forklifts	Fewer trucks required
Total Equipment Cost	1 forklift: 900,000	5 forklifts: 250,000	Narrow Aisle Initial Cost Higher
Labor (Operators)	5	5	\$250,000 saved
Maintenance Cost	\$25,000	\$70,000	\$45,000 saved
Energy Cost	\$12,500	\$40,000	\$27,500 saved
Pallets Moved Per Hour	40	25	60% higher efficiency
Total Annual Savings	\$322,500	Baseline	\$322,500 saved
5-Year Savings	\$1.6M+	Baseline	Over 1M in operation costs saved.





Very Narrow Aisle vs Narrow Aisle Equipment.

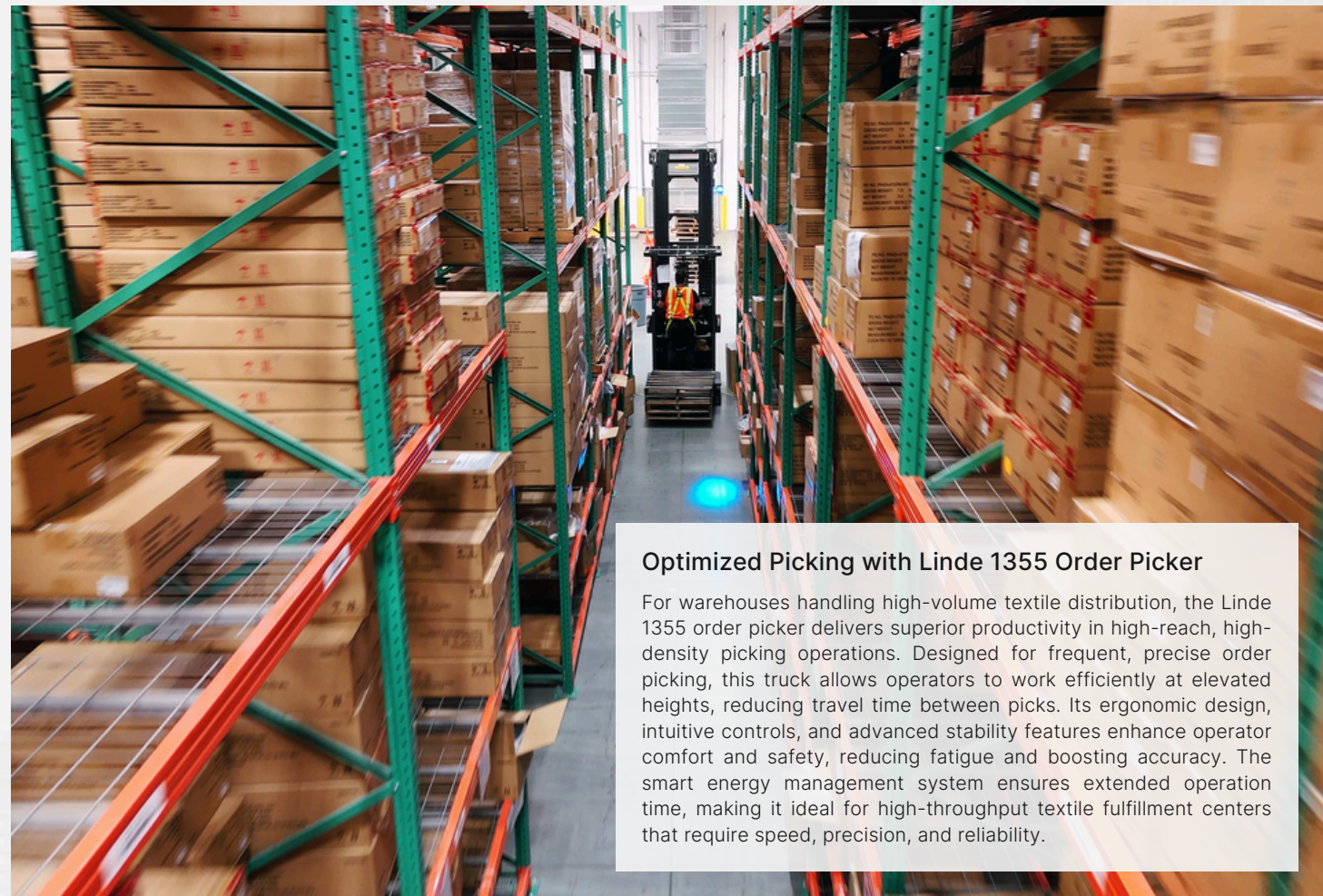
Very Narrow Aisle (VNA) turret trucks, guided by wire systems, can operate in aisles as narrow as 5.5–6 feet, allowing for up to 50% more storage density compared to narrow aisle reach trucks, which require at least 9 feet of aisle space. Additionally, turret trucks can achieve pallet handling speeds of 30–40 pallets per hour, significantly outperforming reach trucks, which typically handle around 20–25 pallets per hour.



Enhancing Efficiency with Linde 5231 Turret Truck

A warehouse fulfillment and distribution center for textiles can significantly boost efficiency by utilizing the Linde 5231 very narrow aisle (VNA) turret truck in high-density storage environments. This advanced truck enables optimized space utilization, allowing for higher racking systems and faster, more precise picking within tight aisles. With 360-degree turret functionality, operators can retrieve and place textile pallets without needing to turn, reducing cycle times and minimizing aisle congestion. The advanced stability system and ergonomic operator controls further enhance safety and throughput, ensuring seamless order fulfillment with minimal downtime.





Optimized Picking with Linde 1355 Order Picker

For warehouses handling high-volume textile distribution, the Linde 1355 order picker delivers superior productivity in high-reach, high-density picking operations. Designed for frequent, precise order picking, this truck allows operators to work efficiently at elevated heights, reducing travel time between picks. Its ergonomic design, intuitive controls, and advanced stability features enhance operator comfort and safety, reducing fatigue and boosting accuracy. The smart energy management system ensures extended operation time, making it ideal for high-throughput textile fulfillment centers that require speed, precision, and reliability.

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