

Industrial Pallet Racking Supplier: HEDA Shelves Delivers Turnkey Warehouse Solutions Across Latin America

Components & Accessories



Guangzhou, Guangdong Oct 26, 2026 ([IssueWire.com](https://www.issuewire.com)) - Expanding commercial trade networks and industrial logistics modernization across Latin America are driving substantial capital investment into advanced distribution hubs, regional fulfillment terminals, and free trade bonded facilities. Developing high-density storage capacity across growing markets including Uruguay, Chile, Mexico, and Colombia requires dependable structural engineering tailored to demanding operational cycles and regional

seismic building criteria. Implementing engineered [turnkey industrial pallet racking solutions](#) provides logistics operators and commercial warehouse developers with an integrated structural foundation, bridging the gap between initial architectural planning and final operational handover. Founded in 2001, Guangzhou [HEDA Shelves](#) Co., Ltd. (HEDA Shelves) brings over 20 years of dedicated warehouse racking engineering to international supply chains, operating a 30,000-square-meter automated manufacturing base in Foshan alongside an international showroom in Guangzhou.

Upstream Engineering Planning and Detailed Layout Design

Turnkey project success begins with accurate architectural integration and functional workflow design. HEDA Shelves implements a responsive engineering consultation protocol that pairs international project developers directly with dedicated structural specialists. Preliminary layout inquiries receive initial technical engagement in as fast as 10 minutes, followed by dedicated structural engineer consultations within 8 hours. Based on exact building dimensions, column grid spacings, floor slab load-bearing capacities, and material handling equipment parameters, custom AutoCAD warehouse floor plans are delivered within 3 days.

Following contract confirmation, the engineering division generates detailed 3D rendering visualizations and operational movement simulations to verify structural clearances. These spatial models analyze overhead clearance tolerances, forklift turning radiuses, fire sprinkler clearances, and pallet placement paths to resolve physical interferences before steel fabrication commences. Floor plan drawings detail adjustable beam tier configurations and modular upright slot spacing tailored to vertical clearances and pallet height specifications. Detailed structural calculation reports accompany each layout proposal, validating load distributions, beam deflection limits, and base plate anchor loadings to satisfy local industrial construction standards.

Flexible Fabrication Across Heavy-Duty Racking and Mezzanine Platforms

Latin American logistics facilities handle diverse cargo topologies, requiring modular storage systems that adapt to varied inventory densities and package dimensions. HEDA Shelves fabricates structural systems from certified Q235B cold-rolled steel, delivering consistent tensile yield strength and long-term structural durability across all load-bearing members. For high-throughput distribution operations, selective pallet racking systems are engineered around operational versatility: upright frame heights spanning 1,500 mm to 12,000 mm optimize vertical clear heights across varied warehouse architectures to reclaim unused cubic capacity; beam capacities ranging from 800 kg to 5,000 kg per tier accommodate diverse unit loads, from lightweight retail cartons to heavy industrial commodities, without risking structural deflection; and aisle dimensions are calibrated directly around fleet logistics, supporting standard 2,500 mm to 3,500 mm lanes for universal counterbalance forklifts to limit equipment capex, or narrowing down to 1,600 mm to 2,200 mm for reach trucks to minimize aisle footprint.

For specialized footprint constraints and extreme density demands, HEDA tailors application-specific configurations. Very Narrow Aisle (VNA) systems compress aisle widths down to 1.5–1.8 meters while reaching vertical heights up to 18 meters, saving up to 40% floor space when paired with guided turret trucks. Where high-volume, uniform SKUs dominate cold-chain or food distribution, semi-automated Radio Shuttle racks remove forklift travel inside lanes by deploying autonomous carts across storage channels. For non-automated bulk storage, drive-in rack structures condense floor space by accommodating 2 to 10 pallet depths per lane. When facilities require vertical workspace expansion without new building construction, multi-tier rack-supported mezzanines and structural steel platforms double or triple usable floor area across 2 to 4 levels. Featuring uniformly distributed load capacities

from 300 kg to 1,000 kg per square meter and versatile decking options including industrial plywood, steel checker plate, and galvanized steel grating, these platforms effectively support combined pallet staging, manual picking lines, and administrative operations.

Scale Manufacturing Capacity and International Quality Compliance

Large-scale supply chain fit-outs require consistent fabrication capacity capable of meeting strict delivery milestones. Operating from its modern production base in Foshan, Guangdong, HEDA Shelves processes up to 30,000 tons of structural steel and warehouse racking components monthly. Supported by a skilled workforce of over 300 experienced technical and production personnel, the facility coordinates multiple large-scale export orders simultaneously without compromising manufacturing tolerances or delivery schedules.

Fabrication follows a standardized 10-step production protocol to maintain uniform structural tolerances. High-precision automated CNC punching lines maintain slot pitch tolerances within plus or minus 0.1 mm across standardized adjustment increments, enabling exact on-site beam positioning. Continuous cold roll forming equipment shapes rigid upright columns with reinforcing stiffener profiles, while automated robotic lines execute high-integrity welding on beam connector heads. Surface finishing incorporates multi-stage chemical pretreatment, phosphating, and automatic electrostatic powder coating cured at 180°C to 200°C, delivering a durable 60 to 80 µm finish. Hot-dip galvanization is also provided for exterior or high-moisture installations.

Manufacturing governance complies with international quality frameworks, certified under ISO 9001:2015 (Certificate No. 18624Q00169R0M). Structural steel components satisfy the European Construction Products Regulation CE certification (No. 2435-CPR-8605159) under EN 1090-1:2009+A1:2011 execution criteria. Structural calculation models and deflection allowances adhere to EN 15512 and EN 15620 specifications, while surface coatings comply with RoHS environmental standards, confirming engineering compliance across international borders.

Optimized Transoceanic Shipping and End-to-End Installation Support

International turnkey delivery demands structured shipping logistics to control freight expenditures and protect structural components during transoceanic transit. HEDA Shelves utilizes specialized 3D container packing software to calculate volumetric load distributions for 20GP and 40HQ ocean containers. Heavy structural uprights and beams are bundled with protective bubble wrap, corner edge protectors, and durable nylon strapping, while hardware fasteners, beam safety locks, and column protectors are packaged in export-grade wooden cases and reinforced cartons, optimizing container payload volume and mitigating international shipping costs.

On-site installation is streamlined through clear technical documentation. Every shipment includes step-by-step 3D assembly drawings, structural component lists, and video installation tutorials that illustrate correct sequencing and torque specifications. Dedicated engineering teams provide remote technical guidance via real-time video conferencing to support local installation crews. For complex multi-tier mezzanine platforms and extensive logistics hub fit-outs across Latin America, experienced field engineers can be deployed on-site to supervise structural alignment, frame anchoring, and final safety inspections.

Turnkey Engineering Value for Latin American Supply Chains

Sourcing complete warehouse storage systems directly from an integrated manufacturer provides Latin

American project developers with distinct commercial and operational advantages. Direct factory collaboration bypasses intermediary distributor markups, provides transparent project budgeting, and establishes direct engineering accountability across design, fabrication, and installation phases. Standard order production lead times range from 15 to 40 business days, ensuring structured schedules for expanding commercial hubs.

With more than 10,000 successful warehouse engineering installations completed worldwide, including landmark projects such as the multi-tier shelving-mezzanine system in Uruguay and industrial racking deployments across Chile, Mexico, and Colombia, HEDA Shelves continues to deliver proven storage infrastructure for global commerce. Combining advanced structural engineering, certified manufacturing scale, and reliable overseas project execution, the enterprise serves as a trusted partner for modern logistics development across Latin America.

Modernize your warehouse infrastructure, increase storage density, and implement engineered turnkey racking systems tailored to your regional facility specifications. Contact the international engineering team at Guangzhou HEDA Shelves Co., Ltd. to submit architectural drawings, receive custom AutoCAD layouts within 3 days, and obtain direct factory quotations by visiting the official portal at <https://www.hedarackstorage.com/>.



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