

TECHNICAL DATA SHEET (TDS)

DOUBLE SIDED GONDOLA SHELVING SYSTEM

HEDA SHELVES

Doc Ref: TDS-HEDA-DSG-2026
Category: Supermarket Retail Display

MAIN MATERIAL
Q235B Steel

SHELF CAPACITY
60–120 kg / layer

ASSEMBLY TYPE
Boltless Modular

CERTIFICATIONS
CE / ISO 9001

1. PRODUCT IDENTIFICATION

OVERVIEW & GENERAL SPECS

Item	Technical Specification
Product Name	Double Sided Gondola Shelving
Product Type	Double-Sided Gondola Retail Shelving System
Installation Position	Central Aisle (Double-Sided Visibility & Access)
Structure & Assembly	Modular Construction / Boltless Interlocking Assembly
Application Scope	Retail Product Display, Supermarket Merchandising & Store Storage Organization
Manufacturer	HEDA SHELVES (Guangzhou Heda Shelves Co., Ltd.)
Customization Capabilities	OEM & ODM Available (Custom Dimensions, Colors, Back Panels & Load Ratios)
Industry Style Compatibility	Lozier Style Compatible / Madix Style Compatible Options Available

* The double-sided gondola system is optimized for central-aisle floor plans, providing symmetrical merchandising capacity on both display faces.

2. STANDARD TECHNICAL SPECIFICATIONS

CORE ENGINEERING DATA

Parameter	Standard Configuration Range
Length Options (L)	900 mm / 1000 mm / 1200 mm (Modular section lengths)
Width Options (W)	530 mm / 580 mm / 630 mm / 680 mm (Base width including double depth)
Height Options (H)	1470 mm / 1770 mm / 1970 mm / 2170 mm
Shelf Levels	1 to 7 layers per display side (Configurable)
Level Adjustability	Fully height-adjustable along upright slot pitch
Load Capacity	60 kg to 120 kg per shelf (Uniformly Distributed Load)
Structural Material	High-Grade Cold-Rolled Steel (Grade Q235B) / Optional Wood Highlights
Surface Finish	Electrostatic Thermosetting Smooth Powder Coating
Back Panel Options	Slatwall / Perforated Pegboard / Decorative Wooden / Plain Metal Panel
Packaging & MOQ	Export standard Carton + Bubble Protection Film MOQ: ~50 sets or project-based

3. DIMENSION & LOAD CAPACITY SUMMARY

SIZING & RACKING

Standard Dimensional Matrix

Lengths: 900mm, 1000mm, 1200mm
Widths: 530mm, 580mm, 630mm, 680mm
Heights: 1470mm, 1770mm, 1970mm, 2170mm
All dimensions can be tailored according to specific retail floor layouts and ceiling heights.

Load Rating Guidelines

Adjustable Shelf: 60–120 kg / level
Base Level: Up to 150 kg static load
Safety Factor: Certified structure tested for continuous commercial service under full load capacity.

5. MATERIAL SPECIFICATIONS

METALLURGY & COMPONENTS

Main Structural Material: Q235B Cold-Rolled Steel

The primary load-bearing frame, upright posts, brackets, and shelf plates are fabricated from heavy-gauge Q235B cold-rolled steel. This material ensures high tensile strength, dimensional stability, and resistance to permanent deflection under load in high-traffic retail environments.

Steel Component Features

- Precision-punched upright pitch slots for exact shelf leveling
- Reinforced steel stiffeners spot-welded under shelf plates
- Heavy-duty double-hook shelf bracket locking system

Optional Material Hybrid Options

- Melamine-faced engineered wooden backboards
- Solid wood accent trim & timber end headers
- Combination steel structure + wood shelving profiles

6. SURFACE TREATMENT & FINISH

COATING SPECS

Item	Specification & Capabilities
Surface Treatment Process	Multi-stage chemical degreasing, rust removal, phosphate pre-treatment, followed by electrostatic powder coating.
Standard Finish Quality	Smooth, impact-resistant, anti-corrosion matte or semi-gloss powder coating. Uniform thickness (60–80 µm).
Color Customization	Full RAL color matching, corporate brand colors, textured metallic, textured black/white, or custom accent trim.
Decorative Options	Custom printed graphic panels, branded header logos, and decorative wooden laminate cladding.

7. STRUCTURAL CONFIGURATION & COMPONENTS

MODULAR ARCHITECTURE

Main System Components

Upright Frame

Base / Bottom Shelf

Adjustable Shelves

Back Panel (Modular)

Shelf Support Brackets

Base Cover Panels

Top Connection Bar

Price Tag Strip

Optional Structural Accessories

Display Wire Baskets

Storage Bins

Promotion Bars

Top Overhead Stock Rack

End Frame Caps

Divider Pegs

8. BACK PANEL OPTIONS & CONFIGURATIONS

PANEL TYPES

8.1 Slatwall Back Panel

Type: Horizontal Groove Slat Panel

- Integrated horizontal groove slots
- Direct insertion for hooks, arms & wire baskets
- Highly flexible display presentation
- Suitable for:** Supermarkets, Grocery, Cosmetics, Convenience Stores

8.2 Pegboard Back Panel

Type: Perforated Steel Sheet

- Standardized circular hole perforation grid
- Compatible with single/double pegboard hooks
- Optimized vertical hanging merchandise layout
- Suitable for:** Hardware Stores, Electronics, Stationery, Auto Parts

8.3 Wooden Backboard

Type: Premium Decorative Wood Panel

- High-end timber texture finish over steel frame
- Enhances store interior aesthetics
- Creates warm, boutique shopping experience
- Suitable for:** Boutique Supermarkets, Wine Shops, Organic Stores

8.4 Combined Display + Upper Stock Rack

Type: Dual Display & Storage Unit

- Lower levels dedicated to customer retail picking
- Upper heavy-duty rack for buffer inventory
- Maximizes vertical store cubic utilization
- Suitable for:** Hypermarkets, Warehouse Stores, Hardware Centers

9. SHELF CONFIGURATION SPECS

SHELVING ENGINEERING

Shelf Structure & Settings

- 1 to 7 adjustable shelf levels per side
- Multi-angle bracket positioning (Flat or Angled display)
- Variable shelf depths available (e.g., 350mm, 400mm, 450mm, 500mm)
- Integrated front clip slot for acrylic dividers and price tickets

Merchandising Functions

- Packaged food & beverage arrangement
- Boxed consumer electronics & household items
- Heavy canned goods & bottled beverage support
- Retail stock organized for fast shelf replenishment

10. OPTIONAL MERCHANDISING ACCESSORIES

ADD-ON OPTIONS

The double-sided gondola system supports a broad selection of modular accessories, allowing quick conversion between shelf display, hanging peg display, wire bin storage, and promotional feature bays.

Display Hooks

Pegboard Hooks

Wire Baskets

Storage Bins

Promotion Bars

Acrylic Dividers

Top Stock Overhead Rack

LED Shelf Lighting Strips

Branded Header Signboard

11. INSTALLATION & FIELD ASSEMBLY

ASSEMBLY FEATURES

Feature	Engineering & Installation Detail
Assembly Mechanism	100% Boltless modular slotted assembly. No special tools required for main frame setup.
Leveling & Adjustment	Adjustable threaded base feet compensate for uneven floor surfaces in retail spaces.
Expandability	Starter Unit + Add-on Unit configuration system allows continuous aisle runs of infinite length.
Relocation & Maintenance	Components can be easily disassembled, reconfigured, or moved without structural degradation.

12. OEM & ODM CUSTOMIZATION SCOPE

TAILORED ENGINEERING

Dimensional & Structural Customization

- Custom height, length, and shelf depth to match floor plan CADs
- Custom steel gauge thickness for higher load capacities
- Double-sided, single-sided wall, or end-cap gondola units

Aesthetic & Branding Customization

- RAL color matching for corporate identity compliance
- Custom back panel textures (Wood grain, perforated patterns, wire mesh)
- Custom promotional header boards, acrylic logos, and light boxes

13. RETAIL APPLICATIONS MATRIX

STORE TYPE CONFIGURATIONS

Store Type / Application	Recommended Gondola Configuration
Supermarket & Hypermarket	Standard Double-Sided Gondola / Combined Display + Upper Stock Rack
Grocery & Convenience Store	Compact Double-Sided Gondola / Slatwall Back Panel Gondola
Hardware & Electronics Store	Perforated Pegboard Gondola with Heavy-Duty Hooks & Baskets
Boutique & Specialty Retail	Wooden Backboard Gondola with Custom Branded Trim & Accent Lighting
Pharmacy, Pet Store & Stationery	Standard Gondola with Adjustable Shallow Shelves & Divider Strips

14. STORE LAYOUT & ENGINEERING DESIGN SERVICE

CAD & 3D MODELING

HEDA SHELVES offers complete pre-production engineering and store layout services to optimize retail floor utilization, aisle traffic flow, and merchandising capacity before fabrication.

Store Layout → Aisle Planning → Gondola Config → CAD / 3D Render → BOQ Confirmation → Production

Design Services Included

- Full store floor plan CAD layout planning
- Aisle clearance and traffic optimization analysis
- 3D photorealistic rendering of shelving configurations
- Exact quantity bill of materials (BOQ) calculation

Custom Engineering Deliverables

- Technical structural drawings for approval
- Load distribution analysis for heavy merchandise
- Modular unit assembly instructions & video guides

15. MANUFACTURING CAPABILITY

FACTORY SPECIFICATIONS

Parameter	Factory Profile Data
Manufacturer Name	HEDA SHELVES (Guangzhou Heda Shelves Co., Ltd.)
Year Established	2001 (Over 25 years of specialized retail & warehouse racking manufacturing)
Workshop Area	30,000+ m² modern production facility in Guangzhou, China
Workforce & R&D	300+ trained workers, 20+ senior structural R&D engineers
Core Products	Supermarket Shelving, Gondola Display Racks, Warehouse Heavy Racking, Custom Retail Displays

16. KEY MANUFACTURING MACHINERY

PRODUCTION EQUIPMENT

Automatic CNC Tube Cutting Saws

High-Precision Tube Punching Machines

Guillotine Shearing Machines

CNC Plate Bending Machines

Automatic Multi-Point Spot Welding Machines

Automated Powder Coating Line

17. QUALITY SYSTEM & CERTIFICATIONS

QUALITY ASSURANCE

Quality System Certifications

ISO 9001: Certified Quality Management System

CE Mark: Compliant with European Union health, safety, and environmental protection standards.

Quality Control Protocol

Raw Material Inspection: Steel thickness & composition check

In-Process QC: Welding seam strength & hole tolerance checks

Pre-Shipment Inspection: Test assembly & powder finish audit

18 & 19. PACKAGING & ONE-STOP PROJECT SUPPORT

LOGISTICS & SERVICE

Export Standard Packaging

All upright frames, shelves, and back panels are packed using multi-layer protection: heavy-duty corrugated cartons, air bubble film, and protective plastic corner caps. Components are securely bundled on wood/metal pallets for safe forklift loading and container transport.

Design → Engineering → Manufacturing → QC Audit → Packaging → Shipping → After-Sales

20. PROCUREMENT DATA SHEET

COMPREHENSIVE TECHNICAL SUMMARY

Procurement Parameter	Technical Specification / Capability
Product Designation	Double Sided Gondola Shelving System
Product Category	Supermarket Retail Display & Store Merchandising Shelving
Installation Placement	Central Floor Aisle Display
Standard Module Lengths	900 mm / 1000 mm / 1200 mm
Standard Module Widths	530 mm / 580 mm / 630 mm / 680 mm
Standard Height Options	1470 mm / 1770 mm / 1970 mm / 2170 mm
Shelf Configuration	1 to 7 Adjustable Levels per face
Load Rating per Shelf	60 kg to 120 kg uniformly distributed load
Main Structural Material	Q235B High-Tensile Cold-Rolled Steel
Optional Hybrid Materials	Melamine Wood Backboard, Solid Wood Accent Trims
Surface Finish	Electrostatic Thermosetting Powder Coating
Color Options	Customized RAL colors, corporate brand matching
Back Panel Compatibility	Slatwall / Perforated Pegboard / Decorative Wood / Solid Metal
Compatible Accessories	Pegboard Hooks, Wire Baskets, Storage Bins, Promotion Bars, Top Overhead Rack
Structure & Assembly	100% Boltless Modular Interlocking Structure
Customization (OEM/ODM)	Full Dimensions, Load Ratings, Branding, Colors & Layouts
Retail Style Standard	Lozier Style & Madix Style Compatible Configurations
Certifications	ISO 9001 Quality Management / CE European Conformity
Packaging & Export	Protective Carton + Bubble Film Sheeting / Palletized Shipping
Store Layout Engineering	CAD Drawings, 3D Photorealistic Rendering, Aisle Planning Provided
Manufacturer	HEMA SHELVES (Guangzhou, China)

21. CONTACT & ORDERING INFORMATION

MANUFACTURER SUPPORT

Manufacturer Direct Contacts

Manufacturer: HEDA SHELVES
Email Inquiry: heda@hedashelf.cn
WhatsApp / Phone: +86 180 1196 8225
Manufacturing Base: Guangzhou, Guangdong, China

Project Support & Order Info

Minimum Order Quantity (MOQ): ~50 sets or project-based custom engineering.
Turnkey Services: Layout design, technical CAD approval, custom fabrication, export shipping, and installation guidance.

Technical Document Status: Approved for Export Distribution

Issued By: HEDA SHELVES Engineering Dept.

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