RADIANT HONOR

CO., LIMITED

Heavy Gauge Thermoforming Manufacturer

Vertically Integrated | Since 2000

2000	**Founded Year**
20,000 m²	**Factory Area**
5000×2500mm	**Max Forming Size**
50+	**Export Countries**

IATF 16949 & ISO 9001/14001/45001 Certified

ROHS & UL Certified Materials

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Offices: Huizhou · Hong Kong · Guangzhou

About RADIANT HONOR

Company Profile

Founded in 2000, RADIANT HONOR CO., LIMITED is a vertically integrated heavy-gauge thermoforming manufacturer specializing in custom plastic enclosures and oversized vacuum-formed components. With over two decades of industry leadership, we operate from an advanced 20,000 m² manufacturing facility, with additional offices in Huizhou, Hong Kong, and Guangzhou.

We seamlessly integrate every stage of production — from raw polymer sheet extrusion to high-precision 5-axis CNC trimming, painting, and final sub-assembly. Our one-stop manufacturing approach eliminates subcontractor coordination, reduces lead times, and ensures consistent quality from prototype to mass production.

We serve high-demand sectors including automotive & EV, aerospace & drone, medical devices, industrial & robotics, agriculture, and custom retail displays. Our products are exported to 50+ countries worldwide.

Founded	2000 (25+ years)
Factory Area	20,000 m²
Offices	Huizhou, Hong Kong, Guangzhou
Export Countries	50+ countries
Certifications	IATF 16949, ISO 9001/14001/45001, ROHS, UL
Materials	ABS, PC, PMMA, PETG, HIPS, PVC, PP, PE, ABS/ASA
Sheet Thickness	2 mm – 12 mm
Max Forming Size	5000 × 2500 × 1000 mm

Core Strengths

Why Choose RADIANT HONOR

01 — Extra-Large Capacity & Precision

Built for complex scales that standard facilities struggle with. Our advanced production lines and large-format capabilities handle oversized, high-precision components with industry-leading efficiency. Max forming size: 5000 × 2500 × 1000 mm.

02 — One Roof, 8 → 1

Multiple process stages, a single trusted vendor. We manage tooling, manufacturing, processing, and assembly in-house — one streamlined workflow, one point of accountability, significantly reducing communication overhead and delivery risks.

03 — DFM-Led Engineering

Deep engineering know-how backed by decades of experience. A free DFM review on every job catches potential issues before tooling begins, not after. Structural integrity, material limits, and stress management — complex manufacturing punishes guesswork.

04 — Fully Certified Quality

IATF 16949, ISO 9001, ISO 14001, ISO 45001, ROHS, and UL certified. Our quality management systems hold internationally recognized certifications, backed by a strong portfolio of proprietary patents.

Factory Equipment

3	Sheet Extrusion Lines
5	CNC Milling Machines
2	Mold CNC Machines
19	5-Axis CNC Machines
23	Vacuum Forming Machines
23	CNC Engraving/Laser Machines

From prototype to mass production in as fast as 2–3 weeks.

Product Categories

Nine Core Product Lines

1. Farm Equipment Housings & Trays

Agricultural machinery enclosures, planting trays, hydroponic trays, and collection liners.

2. Automotive & EV Plastic Components

EV charging housings, AGV shells, golf cart body panels, interior trim, and exterior body panels.

3. Custom Vacuum Formed Trays

Custom-nested trays, inserts, protective liners, and component-handling solutions.

4. Industrial & Robotic Enclosures

Machine housings, robot shells, control panel covers, access panels, and equipment guards.

5. Aesthetic & Appliance Enclosures

Painted housings, textured surfaces, branded appliance shells, and decorative components.

6. Custom Leisure & Sports Equipment Parts

Sports equipment shells, protective covers, and recreational product components.

7. Custom Large-Scale Heavy Gauge Thermoforming

Oversized enclosures, advertising towers, branded display structures, and one-off large parts.

8. Custom Aerospace & Drone Plastic Molding

Aerospace fairings, drone body shells, and lightweight structural components.

9. Plastic Transparent Products

Clear covers, transparent guards, and optical-grade display components.

Materials: ABS, ABS/ASA, ABS/PC, PC, PMMA, PETG, HIPS, PVC, PP, PE, HDPE

Surface Finishes: Painting, silk screen printing, custom textures, Pantone/RAL color matching

One-Stop Manufacturing Process

From Concept to Finished Product — 8 Steps Under One Roof

1. Consultation

Define needs, review requirements, and provide tailored thermoforming solutions.

2. DFM & Design

3D modeling, prototyping, and design optimization for manufacturability.

3. Sheet Extrusion

In-house production of custom-color, texture, and multi-layer plastic sheets.

4. Tooling & Molding

Aluminum/composite mold making with in-house CNC machining.

5. Thermoforming

Vacuum forming and heavy-gauge forming on 23 forming machines.

6. 5-Axis CNC

Precision trimming, cutting, hole patterns on 19 five-axis CNC machines.

7. Finishing

Painting, silk screen printing, surface treatment, and assembly.

8. QC & Delivery

Strict quality inspection, custom packaging, and global logistics.

Minimum Order Quantity	1 piece (prototype) to 10,000+ (production)
DFM Review	Free — feedback within 24–48 hours
Tooling Lead Time	2–4 weeks
Prototype Samples	1–2 weeks after tool approval
Mass Production	2–4 weeks (depending on volume and complexity)
File Formats Accepted	STEP, IGES, STL, DWG, DXF, PDF

Certifications & Quality

Internationally Recognized Standards

IATF 16949	Automotive Quality Management System
ISO 9001:2015	Quality Management System
ISO 14001	Environmental Management System
ISO 45001	Occupational Health & Safety
ROHS	Hazardous Substances Compliance
UL 94	Flame-Rated Materials (V-0/V-1/V-2)

All materials are ROHS-compliant. UL 94 flame-rated materials (V-0, V-1, V-2) are available. We provide full traceability for materials, processes, and inspection records.

Trusted by Brands Worldwide

Products exported to 50+ countries across Europe, America, Africa, Oceania, and Southeast Asia.

Serving industries including: automotive, aerospace, medical devices, electronics, industrial enclosures, agriculture, retail displays, and custom manufacturing.

Let’s Build Something Together

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Ready to start your project?
Send us your CAD file, drawing, or sketch. We provide a free DFM review and quote within 24–48 hours.

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YouTube: youtube.com/@heavygaugeforming
Facebook: facebook.com/share/1E2axEhqde