

MOBILE CARNIVAL RIDE IMPORT & HIGHWAY COMPLIANCE CHECKLIST

A Pre-Purchase & Factory Acceptance Test (FAT) Audit Guide for International

Buyers

Document Purpose: Use this checklist to audit your equipment supplier's engineering specifications, road legality, and documentation package BEFORE issuing final payment or shipping container loading.

SECTION 1: Vehicle & Highway Compliance (Road Legality)

☐ 17-Digit VIN Registration:

☐ Stamped 17-digit VIN compliant with ISO 3779/ US DOT standards deeply engraved into the main steel chassis tongue.

☐ Riveted aluminum vehicle data plate attached displaying Manufacturer Name,
Model Year, GVWR, and VIN.

☐ Transport Dimensions (Permit-Free Transit):

☐ Transport Width: Under 2.55 meters (102 inches) when folded for shipping/transit.

☐ Transport Height: Under 4.0 meters (13.1 feet) to clear standard bridges and overhead power lines.

☐ Axles & Suspension Infrastructure:

☐ Commercial highway-rated axles (BPW, FUWA, or certified equivalent).

☐ Multi-leaf spring or air suspension system equipped with heavy-duty shock absorbers.

☐ Certified Gross Axle Weight Rating (GAWR) with a minimum 20% safety margin above actual load.

☐ Braking Systems:

☐ Trailers >3,500kg: Dual-line pneumatic air brake system integrated with ABS and emergency spring parking brakes.

☐ Trailers <3,500kg: Dual-axle electric brakes with automatic breakaway switch and battery backup.

☐ Highway Tires & Wheels:

☐ Commercial truck tires with official DOT or E-Mark certification stamps.

☐ High-speed rated tires (minimum 80km/h /50mph transport capability).

☐ Road Lighting & Signal Systems:

☐ Pre-wired LED highway tail lights, brake lights, indicator turn signals, and side marker reflectors.

☐ Standardized 7-pin or 13-pin trailer electrical plug interface.

SECTION 2: Mechanical & Structural Engineering

☐ Steel & Frame Integrity:

☐ Chassis and main load-bearing structures fabricated with certified Q355B / Q235B structural steel.

☐ Non-Destructive Testing (NDT) ultrasonic/magnetic particle inspection reports for critical load welds.

☐ Hot-dip galvanized or multi-layer epoxy anti-corrosion primer coating on underchassis.

☐ Hydraulic Deployment System:

☐ Dual-action hydraulic cylinders with integrated mechanical/hydraulic safety check valves (preventing sudden drop during pressure loss).

☐ Manual hand-pump override system in case of primary motor power failure.

☐ Hydraulic outriggers with wide steel footplates and mechanical safety locking pins.

☐ Wind & Structural Stability:

☐ Certified structural calculation report confirming operational stability in wind

speeds up to 15m/s (33mph).

☐ Free-standing base design eliminating the need for poured concrete foundations.

SECTION 3: Electrical & Operational Safety

☐ Control Console & Motor Drive:

☐ Variable Frequency Drive (VFD) integrated for soft start/stop and generator fuel savings.

☐ Dual Hardwired Emergency Stop (E-Stop) buttons located on the main control console and operator station.

☐ Waterproofing & Cable Protection:

☐ All exterior junction boxes and control cabinets rated IP65/ IP66 waterproof.

☐ Pre-wired RGB LED lighting recessed in protective steel channels ("Lossless Folding" setup).

☐ Industrial quick-connect plug-and-play electrical sockets.

SECTION 4: Import Documentation & Customs Clearance Package

☐ Vehicle Ownership & Registration:

☐ Original Manufacturer Statement of Origin (MSO) / Certificate of Origin

(COO).

☐ Commercial Invoice & Packing List with matching VINs, engine serial numbers,
and weights.

☐ Safety & Quality Certifications:

☐ Factory Acceptance Test (FAT) video proof and signed inspection certificate.

☐ CE /ISO 9001 quality management certificates.

☐ Operational Support:

☐ Comprehensive English Operation & Maintenance Manual.

☐ Hydraulic & Electrical Schematic Diagrams.

☐ Foundation footprint and clearance zone layout drawings.

Audited By (Inspector /Buyer Name): _____

Equipment Serial /VIN Number: _____

Manufacturer Name: Zhengzhou Modern Industry Co., Ltd. (MODERN Rides)

Date of Inspection: ____ / ____ /20____