



OGHAB AFSHAN AUTOMOTIVE COMPANY

Coach Maral 440



Engine Specifications

- Engine Model: CUMMINS-ISM11E5-440
- Engine Type: 6-cylinder in-line diesel engine
- Power: 440 hp / 320 kW at 1900 RPM
- Maximum Torque: 2080 Nm at 1200 to 1300 RPM
- Engine Displacement: 10.8 liters
- Equipped with an intercooler and a turbocharger
- Emission Standard: EURO 5 + EEV

Gearbox Specifications

- Gearbox: ZF-TraXon-12TX2411BO (manufactured by ZF)
- 12-speed (forward transmission) equipped with both manual and automatic shifting systems
- Equipped with a powerful retarder and gearbox oil cooler

Vehicle Capacity and Dimensions

- Passenger Capacity in Two Classes:
 - Standard: 44+1+1 passengers
 - VIP: 25+1+1 passengers with footrests
- Overall Length: 12,680 mm
- Overall Width: 2,550 mm
- Overall Height: 3,840 mm including the air conditioner
- Wheelbase: 6,300 mm
- Front Overhang: 2,820 mm
- Rear Overhang: 3,520 mm
- Front Axle Weight Limit: 7,500 kg
- Rear Axle Weight Limit: 13,000 kg
- Curb Weight: Approximately 14,000 kg
- Fuel Tank Capacity: 600 liters
- AdBlue Tank Capacity: 80 liters

Safety and Brake System Specifications

- Disc Brakes for Front and Rear Wheels (Brand: Knorr)
- EBS (Electronic Braking System): Includes ABS (Anti-lock Braking System), ASR (Anti-slip Regulation), and CRB (Jake Brake)
- ESC: Electronic Stability Control System to improve vehicle balance in various road conditions
- AEBS: Advanced Emergency Braking System
- FMS: Fleet Management System with online and remote vehicle diagnostics
- Equipped with Brake Pad Wear Sensor
- Equipped with TPMS (Tire Pressure Monitoring System)

Suspension System and Wheel Specifications

- Axles: Meritor (USA)
- Front Axle: 2 air bellows + 2 SACHS shock absorbers
- Rear Axle: 4 air bellows + 2 SACHS shock absorbers

- Level Control: Manual bus level control according to road conditions. For enhanced safety, the system automatically returns to normal ride level when speed exceeds 30 km/h.
- Rim Size: 22.5 x 9 aluminum
- Tire Size: 315/80R22.5

Electrical System Specifications

- Three 150-Amp 24-Volt alternators
- Two 12-Volt 200 Ah batteries
- Multiplex (CAN) electrical system for reduced wiring, easy troubleshooting, and protection against tampering
- Equipped with a keyless start system

Climate Control System

- Advanced HVAC system designed for optimal passenger and driver comfort in extreme hot and cold climates.
- Main Cooling Unit: High-performance air conditioner with 44 kW cooling capacity — among the most efficient systems currently available.
- Driver-Specific Cooling (Frontbox): 7 kW unit ensuring an ideal cabin environment for the driver.
- Driver's Berth Cooling: 3.7 kW cooling system.
- Heating System: Includes rooftop heater, convectors, and dedicated heaters for driver's cabin and berth.

Steering and Driver Environment

- Steering System: Hydraulic steering with telescopic steering wheel height and rake adjustment system, BOSCH 8098
- LCD instrument cluster
- Equipped with Cruise Control
- Equipped with Lane Departure Warning (LDW)
- Emergency Stop Switch
- On-Board Diagnostics (OBD)
- Pneumatically suspended driver seat with armrests and 3-point seatbelt
- Modern dashboard with elegant design
- Equipped with Adaptive Cruise Control (ACC)
- Equipped with a tachograph

Vehicle Body and Cabin

- Robust, standards-compliant structure
- CO₂ shielded welding compliant with ISO 3834 standards
- Fully coated structure with zinc chromate primer and underbody insulation for corrosion protection
- Robust rear chassis and engine underguard for enhanced safety
- Bodypanels constructed from galvanized automotive-grade steel
- For corrosion protection, the entire bus structure is coated with epoxy paints.

- One-piece fiberglass roof to prevent corrosion and improve roof insulation
- Exterior Lighting: Fully compliant with ECE R48
- Certification: EU Type Approval for R66 (Rollover) and R107

Interior Trim and Equipment

- Engine compartment fully insulated against heat and noise from engine and gearbox, minimizing cabin noise intrusion.
- Roof and sidewalls fully insulated against the external environment to minimize heat transfer.
- Double-glazed windows to reduce noise and heat penetration.
- Silica-reinforced anti-wear flooring with proper sealing at joints
- USB charger for driver use
- USB chargers for passenger use
- Front bumper with a hinged panel for convenient access to the tow hook
- Double-glazed tempered side windows
- One-piece laminated windshield and rear window
- Two electrically operated side mirrors, adjustable from inside, equipped with a heater and a camera
- Driver's berth equipped with air conditioner, heater, intercom for communication with driver, and separate audio-visual system.
- Power window for the driver
- Illuminated entry and exit steps
- Electric sun visor for windshield
- Refrigerator and water dispenser
- Fire detection and suppression system in the engine compartment
- Fire detection system in the battery compartment and driver's berth

Audio-Visual System

- Two LCD monitors
- Equipped with touchscreen multimedia system
- Exterior digital display

Optional Equipment

- Onboard toilet
- 10-inch monitors on VIP seats
- Customized body color upon order
- Coffee maker