



MAN CLA 31.220 8x2
Chassis and Cab



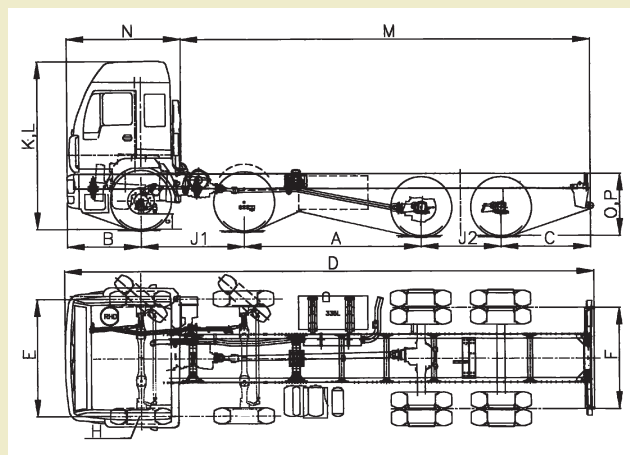
MAN CLA 31.220 8x2, Chassis and Cab

MAN Advantage

- ◆ BS-III Compliant, MAN D-0836 Turbo charged, Inter cooled Engine with microprocessor based Engine Management System, Environment friendly, Fuel Efficient. Most reliable.
- ◆ **Extra Strong Rigid Front Axle, Intermediate steerable axle, Meritor Hypoid Rear Axle** providing superior traction. Unmatched reliability and outstanding gradeability.
- ◆ MAN patented **Exhaust Valve Brakes (EVB)** in combination with LSV provides extra safe braking and long life.
- ◆ Extra Strong ladder frame chassis, special high strength steel provides high torsional and bending stress capability. Specially treated for corrosion resistance.
- ◆ New generation aerodynamic high roof sleeper cabin with twin beds with heat and sound dampeners - Maximum comfort and safety for driver. Hydraulically operated tilt cabin mechanism - easy accessibility for maintenance
- ◆ Prompt and efficient after sales service provided by a nation wide network of main and associate dealers, parts depots, mobile service vans, 24x7 helpline.

Applications

- ◆ Cargo Truck (Container Van, Reefers, Tankers for Petroleum, Oil & Liquid Transportation)
- ◆ Special purpose vehicle (Fire, Foam Tenders, Mobile Cranes, Hydraulic Platforms, TTL etc.)



Technical Specifications

Dimensions (mm.)

Wheelbase (J1 + A + J2/2)	5740
Front Overhang (B)	1320
Rear Overhang (C)	1600
Overall Length (D)	9375
Front Track (E)	2091
Rear Track (F)	1816
Minimum Ground Clearance (At Front) (G)	270
Turning Radius (H)	11500
Distance between front two axles (J1)	1850
Distance between rear two axles (J2)	1430
Overall height from ground unladen (K)	3062
Overall height from ground laden (L)	3022
Cabin Length (N)	2046
Available Platform Length (M)	7329
Unladen Chassis Height from Ground (O)	1157
Laden Chassis Height from Ground (P)	1112

Weights in kg

	Unladen (Kerb Weight)*	Laden
Front Axle	2600	6000
Intermediate Axle	2080	6000
Rear Axle	3420	19000
Total	8100	31000

* Nominal Values

Engine

Engine	MAN D-0836
Type	DI, Turbo Charged Intercooled
No. Of Cylinders	6, Inline
Displacement	6.9 Liters
Max Power output	220 HP (162 kW) @ 2400 r/min
Max Torque	800 Nm @ 1200-1800 r/min
Emission Compliance	BS-III (Euro-III)
Fuel Tank	335 Liters
Engine Management System	Microprocessor based Ecu

Clutch : Single Plate – Pull Type, Power Assisted, 430 mm Dia

Gearbox : ZF 9S 1110 DD, 9-speed Synchromesh Gearbox

Front Axle : Heavy Duty Cranked Forged I-Beam type.

Intermediate Axle : Heavy Duty Cranked Forged I-Beam Type

Rear Axle : MS 14-160 Meritor Hypoid Axles

Rear Axle Ratio : 4.63 : 1

Chassis Frame : C-channel rolled section, side-members and cross-members made of high-strength steel

Steering : Power steering - ZF 8046, Telescopic & Adjustable, Twin Steerable Front Axle

Brakes : S-Cam, Dual-circuit, Air Actuated Drum brakes, Drum Dia 410 mm., Automatic slack adjuster and asbestos-free brake linings, Exhaust Valve Brake (EVB).

Suspension :

Front : Semi Elliptical Leaf springs with Double Acting Shock absorbers

Rear : Semi Elliptical Leaf springs with Bell Crank mechanism.

Cabin : MAN - High Roof Sleeper CAB (AC Optional)

Hydraulic Cab Tilt with tilt angle of 60 degrees

Wheels & Tyres :

Wheel Rim Size 7.5" x 20"

Tyres 10.00" X 20" (10R20 Optional)

Twin Mounted Tyres on Drive Axles, Spare wheel with tyre.

Electrical System:

Double pole wiring system with separate ground wire Harness enclosed in safe sheathing/casing

Battery capacity 2x100 Ah, 24V

Alternator capacity 28 V, 80 AMP, 2240 W

Performance Data :

Max. Gradeability 1st Gear 25 %

Max. Speed (in Top Gear) 90 kmph

Speed Limiter 60 kmph

Economy speed range on top gear 50-65 kmph

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A member of the MAN Group

Printed in INDIA

Text and illustrations not binding.

Subject to changes in the course of technical progress.

