



MAN CLA 31.280 8x4
Box Body Tipper



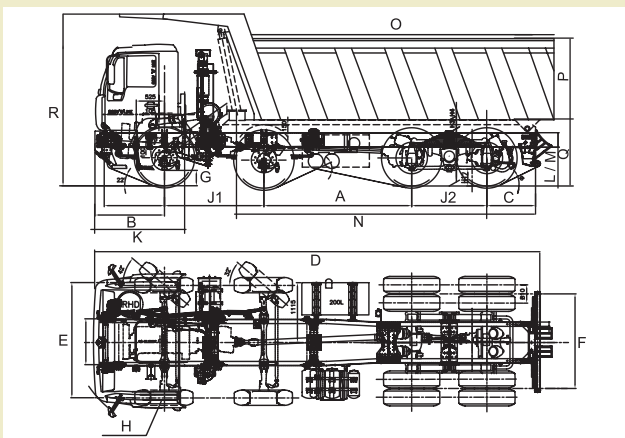
MAN CLA 31.280, 8X4, Box Body Tipper

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, MAN Planetary Rear Axle with Hub Reduction, inter axle and differential lock** 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 cabin 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

- ▶ High volume 18 cuM Box Body Tipper.



Technical Specifications

Dimensions (mm.)

Wheelbase (J1 + A +J2/2)	5300
Front Overhang (B)	1293
Rear Overhang (C)	900
Overall Length (D), Chassis (with Body - 8595)	8282
Front Track (E)	2091
Rear Track (F)	1815
Minimum Ground Clearance (At Front) (G)	270
Turning Radius (H)	10000
Distance Between Axles (Front J1./Rear J2)	1850 / 1400
Cabin Length (K)	1695
Unladen Chassis Height from Ground (L)	1042
Laden Chassis Height from Ground (M)	992

Tipper Body

Pivot Length (N)	5535
Tipper Body Length (O)	5825
Tipper Body Height (P)	1325
Tipper Body Clearance from Ground (Q)	1460
Overall Height of Tipper from Ground (R)	3265
Tipping Angle	50°

Weights in kg

	Unladen (Kerb Weight)*	Laden
Front Axle	6600	6000
Intermediate Axle		6000
Rear Axle	7850	19000
Total	14450	31000

* Nominal values

Engine

Type	MAN D-0836
No. Of Cylinders	DI, Turbo Charged Intercooled
Displacement	6, Inline
Max Power output	6.9 Litres
Max Torque	280 HP (206 kW) @ 2400 r/min
Emission Compliance	1100 Nm @ 1300-1700 r/min
Fuel Tank	BS-III (Euro-III)
Engine Management System	200 Litres
	Microprocessor based ECU

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

Gearbox : ZF 9S 1110 OD, 9-speed Synchronmesh Gearbox

Front Axle : Heavy Duty Rigid I-Beam type, Maintenance free Hub Bearings & Stabiliser Bars.

Intermediate Axle : Heavy Duty Rigid I-Beam type

Rear Axle : MAN H9 & HD9, 13120 Planetary Axles with Hub Reduction, Interaxle & Wheel Differential Locks & Stabilisers for Twin Axles

Rear Axle Ratio : 7.63 : 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, Automatic slack adjuster and asbestos-free brake linings, Exhaust Valve Brake (EVB).

Suspension :

Front : Semi Elliptical Leaf springs with Double Acting Shock absorbers

Rear : Heavy Duty Bogie Type Suspension

Cabin : MAN DAY CAB with AC

Hydraulic Cab tilt with tilt angle of 60 degrees

Wheels & Tyres :

Wheel Rim Size 7.5" x 20"

Tyres 11.00 X 20

Twin mounted tyres on rear 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 28V, 80 AMP, 2240W

Performance Data :

Max. Gradeability Crawler Gear 45 %

Max. Startability Crawler Gear 40 %

Max. Speed (in Top Gear) 78 kmph

Speed Limiter 60 kmph

Economy speed range on top gear 45-48 kmph

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Subject to changes in the course of technical progress.

