



**MAN CLA 31.280 8x4**  
Rock Body Mining Tipper



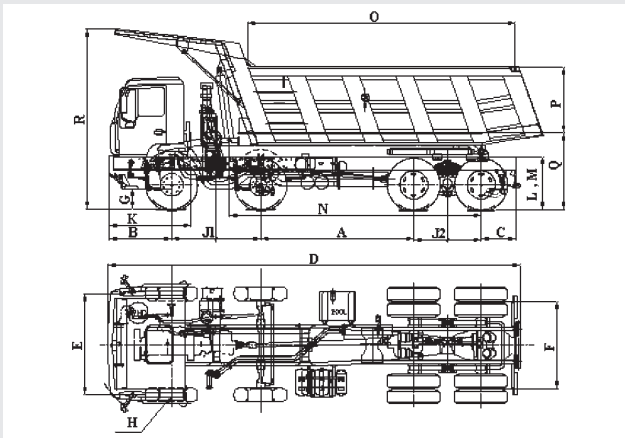
# MAN CLA 31.280, 8X4, Rock Body Mining Tipper

## MAN Advantage

- BS-III Compliant, MAN D-0836 Turbo charged, Inter cooled Engine with Electronically Controlled Common Rail System, Environment friendly, Fuel Efficient, Most reliable.
- **Straight Rigid Front Axle, Intermediate steerable axle, MAN Planetary Rear Axle with Hub Reduction, inter axle and differential lock** providing superior traction, higher ground clearance. 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. Hydraulically operated tilt cabin mechanism - Maximum comfort and safety for driver.
- 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 RAEX 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 - 8925)	8282
Front Track (E)	2091
Rear Track (F)	1800
Minimum Ground Clearance At Front / At Rear	385/327
Turning Radius (H)	10000
Distance Between Axles (Front J1./Rear J2)	1850/1400
Cabin Length (K)	1695
Unladen Chassis Height from Ground (L)	1157
Laden Chassis Height from Ground (M)	1107
<b>Tipper Body</b>	
Pivot Length (N)	5255
Tipper Body Length (O)	5990
Tipper Body Height (P)	1320
Tipper Body Clearance from Ground (Q)	1575
Overall Height of Tipper from Ground (R)	3455
Tipping Angle	52°

Weights in kg	Unladen (Kerb Weight)*	Laden
Front Axle	7255	6000
Intermediate Axle		6000
Rear Axle	9195	19000
Total	16450	31000

\* Nominal values

<b>Engine</b>	MAN D-0836 LFL 13
Type	DI, Turbo Charged Intercooled
No. Of Cylinders	6, Inline
Displacement	6.9 Litres
Max Power output	280 HP (206 kW) @ 2400 r/min
Max Torque	1100 Nm @ 1300-1700 r/min
Emission Compliance	BS-III (Euro-III)
Fuel System	Bosch Common Rail

<b>Fuel Tank</b>	200 Litres
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**Clutch :** Single Plate – Pull Type, Power Assisted, 430 mm Dia

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

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

**Intermediate Axle :** Heavy Duty Straight Forged 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 Mining Pattern

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 80 AMP

### Performance Data :

Max. Gradeability Crawler Gear 45 %

Max. Startability Crawler Gear 40 %

Max. Speed (in Top Gear) 78 kmph

Economy speed range on top gear 45-58 kmph

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Text and illustrations not binding.  
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