



SPECIFICATION DATA



R33 18.360 HOCL-R

GVM : 18,000KG DESIGN

REAR ENGINED, AIR SUSPENDED, BUS & COACH CHASSIS

MANUFACTURER'S AXLE/SUSPENSION CAPACITY OF 21,000KG

Engine Common Rail Euro 4 EGR

Vertical, water cooled 6 cylinder 4 stroke diesel engine with **Common Rail** injection, exhaust turbocharger and intercooler, EGR, low noise and environmentally friendly. Replaceable cylinders liners.

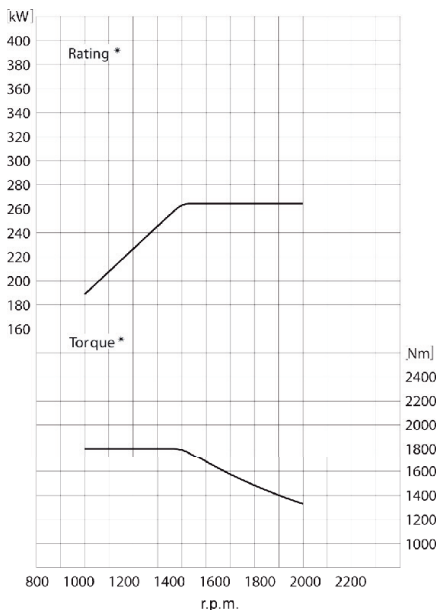
MAN D 2066 LOH 02 EURO 4

EDC: Electronic Diesel Control System.

Rating to EEC 88/195
265kW (360Hp) at 1,900rpm

Maximum Torque: 1800Nm at 1,000 – 1,400rpm

Bore 120mm
Stroke 155mm
Displacement 10,518cm³



* Data in accordance with ISO 1585 88/195 EEC

Lubrication System

Pressure lubrication via gear pump.

Engine Oil Cooler

Integrated in engine lubrication system.

Cooling System

Thermostatically controlled, Hydrostatic fan.
Cooling expansion tank with inspection glass.

Intake System

Dry type air filter with restriction indicator and pre-separator.

Transmission (Auto Change Manual)

ZF 12 speed –Automatic Gear Shift Manual
Tipmatic Transmission model Astonic AS 2001.

Optional: Integrated Intarder

Rear Axle (Disc Brakes)

MAN HY-1336-B
Low-noise hypoid axle.

Axle ratio
Standard: 3.36
Optional: 3.7, 4.11

Axle/suspension design capacity: 13,000 kg.
Optional differential lock.

Front Axle (Disc Brakes)

MAN VOS-08 Independent wheel suspension.

Axle/suspension design capacity: 8,200 kg

Optional: MAN V9-82L Forged rigid axle.

Wheels

Standard: 7 x 10-hole disc wheels
8.5x22.5 -aluminium.

Tyres

Standard: 7 x 295/80R 22.5 Radial

Steering

Ball and nut type power steering.
Type: ZF8098
Steering wheel diameter: 460mm
Steering column adjustable for height and rake.

Suspension (Electronic ECAS)

Air suspension with 6 identical rolling seals with integrated elastic stroke limiter.

No. of units	Front	Rear
Air bellows	2	4
Shock absorbers	2	4
Level control valves	1	2
Stabiliser		1

Electronically controlled constant entrance height and suspension characteristics under all load conditions.

Additional price options:

Raising device – front and rear.
Raising/lowering device – front and rear.
Raising/lowering device – front.
Kneeling facility – left.
Lowering device – front.
Raising device – front.

Brake System (Electronic EBS)

Service brake: Electronic brake system EBS (incl. ABS, TCS).

Dual circuit air brake system to VOV and ADR directives by Wabco.

Front axle: Disc brakes.
Rear axle: Disc brakes.

Automatic brake adjustment on both axles.

Auxiliary and park brake: Spring

Linkage less spring-loaded air brake acting on drive axle.

Manual actuating valve.

Disc brake pad wear indicator.

Electronic brake wear harmonisation system

Mechanical release possible on pressure drop.

Brake System Components

Asbestos-free brake linings.

Brake lines of plastic (stainless steel in engine area).

Brake lining wear indicators and inspection holes.

Engine Brake EVB

Manual Transmission only with EVB

Optional
Semi-Automatic transmission: Integrated interarder.

Compressed Air System

Gear-driven compressor with water-cooled cylinder head.

Bendix air dryer.
Tyre inflator connection: 1.
Test connections.

Frame

Bolted ladder-type frame made up of U-section main members and cross members.

Towing device at front and rear.

Fuel System

Electronic throttle control.
Fuel tank capacity: 480 liters.
Number of tanks: 1
Position of tank: On top of front axel.
Fuel and water separator: In line.

Electrical System

Chassis electronics based on CAN bus system for on-board electronics with full diagnostic capability (TEPS) and defined interface for various body electrics version.
Voltage: 24V.
Alternator Bosch 2 x 120A
Low-maintenance batteries: 2x12V/225Ah.
Starter: 24V/4kW (5.4hp).
Main battery switch: electric.

Instruments/Gauges/Devices

Instrument panel with central display (LCD) and intergraded rev counter for monitoring operation and function (on-board diagnosis)
Optional Electronic tachometer (analog or digital)
Dual pressure gauge for front and rear axle brake circuits.
Oil pressure gauge.
Coolant temperature gauge.
Fuel gauge.
Battery charging check lamp.
Warning flasher system.
Horn.
Stalk switch for direction indicators, high beam, headlight flasher and wipe/wash system.
Speed limited to 100 km/h.
Optional cruise control.
Pulley on engine for air conditioning.

Performance

Geared Speed in km/h at 1,900rpm (electronically limited to 100 km/h)
Manual with automatic change transmission ZF AS 2001

295/80 R22.5 Tyres

Axle ratio:	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th	10 th	11 th	12 th	Rev1	Rev2
3.36:1	12.33	9.59	7.43	5.78	4.56	3.55	2.70	2.10	1.63	1.26	1.00	0.78	11.41	8.88
100km/h @ 1370rpm	8.8	11.3	14.6	18.7	23.7	30.5	40.1	51.5	66.4	85.9	108.2	138.7	9.5	12.2

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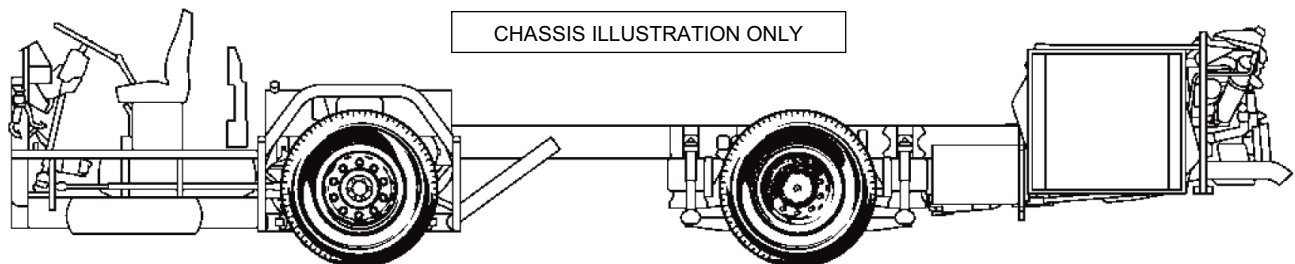
295/80 R22.5 Tyres

Axle ratio:	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th	10 th	11 th
3.70:1	12.33	9.59	7.43	5.78	4.56	3.55	2.70	2.10	1.63	1.26	1.00
100km/h @ 1508rpm	8.0	10.2	13.2	17.0	21.5	27.7	36.4	46.8	60.3	78.0	98.2

Chassis Variants

Chassis Design: U-section
Front Overhang: 2550mm
Wheel Base: Transport frame (Buggy form)
Rear Overhang: 3265mm

Centre frame to be constructed by Body Builder as part of body construction and incorporated into the cost of the body price. All construction must comply with ADR (Australian Design Rules) Regulations and Manufactures Chassis/Body Building guide lines.



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