



SPECIFICATION DATA

Euro 4 Bus

A91 18.280 HOCL-R

GVM : 18,000KG DESIGN

REAR ENGINE, 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.

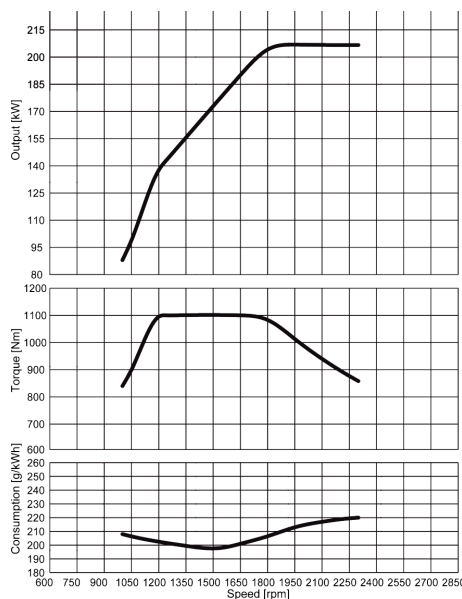
MAN D 0836 LOH 51 EURO 4

EDC: Electronic Diesel Control System.

Rating to EEC 88/195
206kW (280Hp) at 2,300rpm

Maximum Torque: 1100Nm at 1,200 – 1,650rpm

Bore 108mm
Stroke 125mm
Displacement 6,871cm³



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

ZF 6 speed automatic model 6HP 504C, with integrated retarder and electric pressure modulation.

VOITH DIWA 4 speed automatic model D854.5, with integrated retarder and hydraulic torsional vibration damper.

ZF 6 speed 6S 1900 BO synchronous manual transmission with joystick gear change control.

Rear Axle (Disc Brakes)

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

Axle ratio
Standard: 5.57
Optional: 4.63, 4.11

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

Front Axle (Disc Brakes)

MAN V9-82 SL

Forged rigid axle with deep drop centre.
Axle/suspension design capacity: 8,200 kg

Wheels

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

Tyres

Standard: 7 x 295/80R 22.5

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 ADR directives by Wabco.

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

Automatic brake adjustment on both axles.

Auxiliary and park brake: Spring

Linkageless 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.

Bus stop brake for urban operation actuated by lever on instrument panel.

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

EVB only with manual transmission.

Automatic transmission: Integrated retarder. Water cooled with electric pressure modulation.

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: 300 litres.

Number of tanks: 1

Position of tank: On right, behind rear wheels.

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 electronics version.

Voltage : 24V.

Alternator : Bosch 2 x 110A

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 2,300rpm (electronically limited to 100 km/h)

With automatic transmission ZF 6HP 504C

295/80 R22.5 Tyres

Axle ratio:	1 st	2 nd	3 rd	4 th	5 th	6 th	Rev
	3.43	2.01	1.42	1.00	0.83	0.59	4.84
5.57:1	23	39.3	55.6	79.0	95.2	133.9	16.3

100km/h @ 1718rpm

With manual transmission ZF 6S 1900 BO

295/80 R22.5 Tyres

Axle ratio:	1 st	2 nd	3 rd	4 th	5 th	6 th	Rev
	6.32	3.62	2.15	1.37	1.00	0.81	5.81
4.11:1	16.9	29.6	49.8	78.2	107.1	132.2	18.4

100km/h @ 1740rpm

Chassis Variants

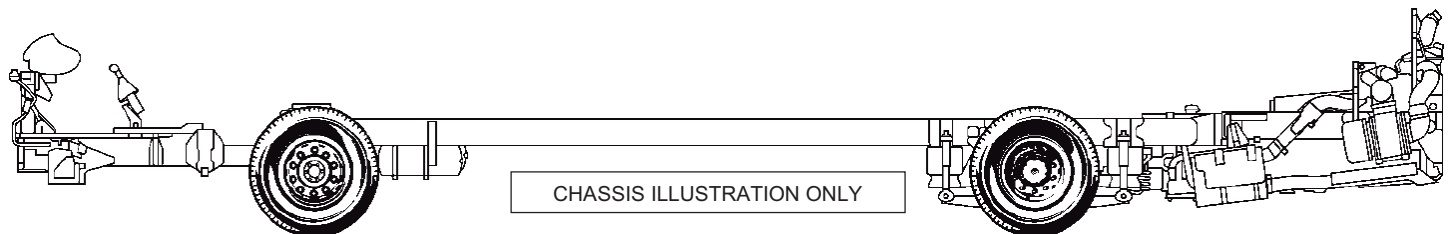
Chassis Design: U-section

Front Overhang: 2450mm

Wheel Base: Transport frame (Buggy form)

Rear Overhang: 3400mm

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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