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Multi-Media Archiv Datenbank

ML 320



Model: W 163 E 32Description: 163.154

• **Production:** 05.1997 / 07.1997 - 07.2001

· production start-up pre-production series / standard production - end of production

Specifications

Engine

Combustion principle: four-stroke Otto (with manifold-injection and emission control device with 3-way

catalyst)

Configuration: front, longitudinal; vertical Engine type: M 112 E 32 / 112.942

Number of cylinders / arrangement: 6 / 90° V; light-alloy block

Bore x Stroke: 89.9 x 84.0 mm

Total displacement:3199 ccCompression ratio:10.0Crankshaft bearings:4

Rated output: 160 kW / 218 hp at 5700 rpm **Rated torque:** 310 Nm at 3000 - 5000 rpm

Number of valves / arrangement: 2 intake, 1 exhaust / V-shaped overhead Valve operation: 1 overhead camshaft per cylinder bank

Camshaft drive: double roller chain

Fuel system: microprocessor controlled injection system with hot-film air mass sensor (Bosch

ME engine management)

Cooling: water cooling / pump; 12.0 l water **Lubrication:** pressure circulation lubrication / 7.0 l oil

Electric system: 12 V

Battery: 100 Ah / in the engine compartment

Generator: three-phase AC / 1610 W **Starter:** electrical / 1.7 kW

Ignition: map-controlled phased twin-spark ignition

Fuel tank: position / capacity: in front of the rear axle / 70 I
Fuel supply: electric delivery pump

Chassis and Drivetrain

Frame design: box-section ladder-type frame / steel unit body

Front-wheel suspension: double wishbone Rear-wheel suspension: double wishbone

Front springs: torsion bar springs, torsion bar stabilizer

Rear springs: coil springs, torsion bar stabilizer

Shock absorber front/rear: twin-tube gas-pressure shock absorbers

Steering: rack-and-pinion power steering

Steering ratio: 3.6 turns lock-to-lock

Brake system (foot brake): hydraulic dual-circuit brake system with vacuum booster and antilock system,

from 09.1998 with Brake Assist; disc brakes front (internally ventilated) and rear

Parking brake (hand brake): mechanical (foot-operated), acting on rear wheels

Diameter of brake discs and/or

brake drums:

brake discs front / rear: 301 / 285 mm

Wheels: light-alloy wheels
Wheel rims: 6 1/2 J x 16 H 2

Tires: 225/75 R 16 104 T; from 02.1999: 225/75 R 16 104 H

Driven wheels: permanent four-wheel drive on front and rear wheels, controlled via electronic

traction system ETS

Drivetrain: from power divider via single-piece cardan shafts on front-axle differential and

rear-axle differential (power distribution 48% front, 52% rear)

Transmission and Performance

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Gearing: 5-speed automatic transmission (electronically controlled)

Availibility: as standard

Shifting: central floor selector lever

Clutch: hydraulic torque converter with slip-controlled lockup clutch

Transmission type: planetary gear

 Gear ratios:
 I: 3.93; II: 2.41; III: 1.49; IV: 1.0; V: 0.83; R: 3.10

 Final drive ratio:
 front/rear: 3.69; transfer gear: road 1.0 / off-road 2.64

 Maximum speed:
 180 km/h (controlled); from 02.1999: 195 km/h

Acceleration 0-100 km/h: 9.5 s

Comments: acceleration by shifting through from 0 - 100 km/h (2 occupants)

Fuel consumption: 18.2 / 11.2 / 13.8 |

by Guideline: 93/116/EC: figures apply to City / EUDC (extra-urban) / NEDC (New European

Driving Cycle, average from 36,8% City and 63,2% EUDC)

Dimensions and Weights

Turning circle diameter:

 Wheelbase:
 2820 mm

 Front / rear track:
 1565 / 1565 mm

 Length:
 4587 mm

 Width:
 1833 mm

 Height:
 1807 mm

Kerb weight: 1990 kg; from 09.1998: 2010 kg; since .1999: 2120 kg

11.90 m

by Guideline: EC 92/21 (including driver, 68 kg, and baggage, 7 kg; tank 90 % full)

Gross weight: 2650 kg; since .1999: 2750 kg **Gross axle weight; front:** 1250 kg; since .1999: 1300 kg

Gross axle weight; rear: 1600 kg

Payload: 660 kg; from 09.1998: 640 kg; since .1999: 630 kg

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Permissible trailer weight; braked: 2650 kg; since .1999: 3500 kg

Permissible trailer weight; 750 kg

unbraked:

General Data

Units produced: not documented separately

Prices: 09.1997: DM 75,900.00 04.1998: DM 76,560.00 09.1998: DM 77,836.00

02.1999: DM 78,880.00 09.1999: DM 79,576.00 01.2000: DM 80,852.00

01.2001: EUR 41,876.00 (DM 81,902.33)