

ENGINE

Mercedes OM906LA (Euromot IIIA)

Six cylinder four-stroke direct injection electronically controlled diesel engine with turbo charging and intercooler.

Displacement:6,4 dm³

Bore:102 mms

Stroke:130 mms

Compression ratio: 18,0:1

Output: 170 kW (231 Hp) at 2200 rpm

Torque: 810 Nm at 1200-1600 rpm

Acc. ECE 80/1269

GEARBOX

Allison, type 3000 series

Automatic shift transmission with 5 gears forward and 1 gear reverse. Including std. F/R shift protection and lock-up.

Gear theoretical speed

ratio's	km/h		Tractive effort
3.487	7.6	(F1)	135 kN
1.864	17.9	(F2)	48 kN
1.409	24.0	(F3)	26 kN
1.00	34.2	(F4)	19 kN
0.75	38.0	(F5)	14 kN
5.027	7.6	(R)	190 kN

(Tyresize 11R22.5, Axleratio 11.98:1, speed 38 km/h @ 1772 rpm)

Terberg Benschop B.V.

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FRONT AXLE

Terberg TTA type 60-01

Steering axle with oil greased bearings

Capacity: 10.000 KGs (at 20 km/h)*

* depending on tyre rating

REAR AXLE

Terberg TTA type 70-11

Reduction ratio 11.98:1

Capacity: 30.000 KGs (at 20 km/h)*

* depending on tyre rating

SUSPENSION

Front: Parabolic leaf springs in rubber mountings with 2 telescopic shock absorbers.

Maintenance free system.

Rear: Directly bolted to chassis frame.

RIMS AND TYRES

Tyres: 11R22,5 (6 pieces)

Rims: 10 stud disc wheels 22,5 x 8,25

STEERING SYSTEM

Fully hydrostatic orbitrol steering system with priority valve and double acting steering cylinder.

Emergency steering property.

Steering wheel diameter 350 mm

Turning circle over front bumper (m)

W.B.

3100	13,1
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5TH WHEEL

2" Cast steel plate

Technical capacity 36.000 kg.

Lifting capacity 34.000 kg.

Automatic locking of jaw system. Pneumatic unlocking of 5th wheel, operated from cabin.

Indicator light for positive locking inside the cabin.

HYDRAULIC SYSTEM

Engine driven hydraulic pump for steering and lifting 5th wheel plate, directly mounted to engine, with priority valve for the steering system.

Hydraulic oil tank protected mounted to the chassis frame.

Tank capacity 50 dm³.

Hydraulic valve pneumatically operated from inside the cab to lift/lower/hold the 5th wheel.

Working pressure 250 Bar

2 heavy-duty hydraulic single stage lift rams

CHASSIS

Welded construction of rolled steel channels 200x100x10 mm

Air reservoirs and fuel tank protected mounted in steel boxes to the chassis, access steps with anti-slip surface integrated in chassis.

Towing pin attachment at front- and rear of chassis.

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BRAKE SYSTEM

Full air brake system with split front- and rear-axle circuits.

Front- and rear axle with S cam-brake system. Automatic adjusters front and rear. Tank volume: 2 x 40 dm³. 1 x 30 dm³

2 Line trailer brake system mounted on rear side of cabin, with yellow and red spiral hoses with glad-hands. Air dryer. Brake cylinders: Front axle diagram and Rear axle spring brake.

Brake pressure: 7.5-8.1 Bar

FUEL TANK

Capacity 200 dm³ and integrated with hydraulic tank.

COOLING SYSTEM

Fin and tube type radiator of heavy-duty construction mounted on rubber silent blocks with separate air to air transmission oil cooler and engine intercooler all mounted side by side.

EXHAUST

Muffler with vertical pipe.

Exhaust pipe in critical area protected with stainless steel grille.

ELECTRICAL SYSTEM

24 Volt negative ground.

Alternator : 28 V/70 A

Batteries : 2 x 12 Volt / 135 Ah

Output starter : 4 kW

Fuses and relays mounted in central electrical box.

Wiring with code numbers and easy readable/visible mounted in central electrical box.

7 pin S.A.E. socket at rear of cab for trailer connection (DIN ISO 1185).

LIGHTING

H4 headlights with dipped and main beam and direction indicators.

Rear lights mounted behind cabin, with direction indicators and brake lights.

5th wheel floodlight behind cabin.

Gauge illumination.

Interior light in cabin.

Mounting for rotating beacon light

CABIN

1 person - **Right hand drive position.**

Forward facing drivers position.

Dimensions outside:

- width : 1400 mm
- length : 1593 mm
- height : 1821 mm

Cabin construction of over dimensioned strong steel profiles to resist latest Rops/Fops regulations.

Cab mounted on 3 anti-vibration mounts in combination with shock absorbers.

Entrance to cab by inboard door for safe and easy entrance/exit to/from driver position.

Horizontal sliding window at driver side

Cabin can be tilted with hydraulic hand pump to 65°

Large windows with excellent visibility.

All windowpanes are tinted hardened safety glass, except front window which is layered.

Noise insulation exceeds international standards.

Drivers seat with air suspension and fully adjustable, mounted on console

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Demister/heater with 3 speed blower and recirculation system.

Steering column with 1 brake pedal and 1 accelerator pedal, mounted at right side of column.

Front dashboard switches:

- Ignition
- Differential lock
- Work light
- Hazard lights
- Lighting
- Gear selector
- Switches for:
 - * 5th wheel high/low
 - * 5th wheel unlocking (2x)
- Indicator lights:
 - * Preheating engine
 - * Alternator charging
 - * Direction indicator
 - * Hi beam
 - * Differential lock
 - * Handbrake activated
 - * Air filter clogged
- Voltmeter
- Engine revolution counter
- Running hours counter
- Indicator lights/check system with optical signal and buzzer on:
 - * High temperature gearbox
 - * Low oil pressure engine
 - * High temperature engine
 - * Low air pressure circuit 1
 - * Low air pressure circuit 2
 - * Low fuel level
 - * Low voltage

Steering column:

- Kombi switch for:
 - * Direction indicators
 - * Wiper front
 - * Hi/Low beam
 - * Horn

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CABIN INSTRUMENT:

Standard is mounted a Moto-Meter Kombi instrument conform attached drawing.

The following functions are present:

- Standard in display appear at Contact switch "off" *Running hours
- Standard in display appear at Contact switch "on" *Rpm and Diesel qty.

Via the push buttons can be checked:

1. voltage
2. air pressure circuit 1
3. air pressure circuit 2
4. temperature coolant engine
5. temperature coolant transmission
6. oil pressure engine
7. Diesel qty.

On these 7 functions the following checks are possible:

- press button for check of actual value
- first warning by the high/low value
- by flashing red light
- intermediate buzzer
- actual value in display intermediate
- In case values are reaching max./min. value:
 - flashing red light
 - continuous buzzer
 - actual value in display intermediate

At the right hand side of this Kombi instrument is present:

A panel with control lights, with following functions:

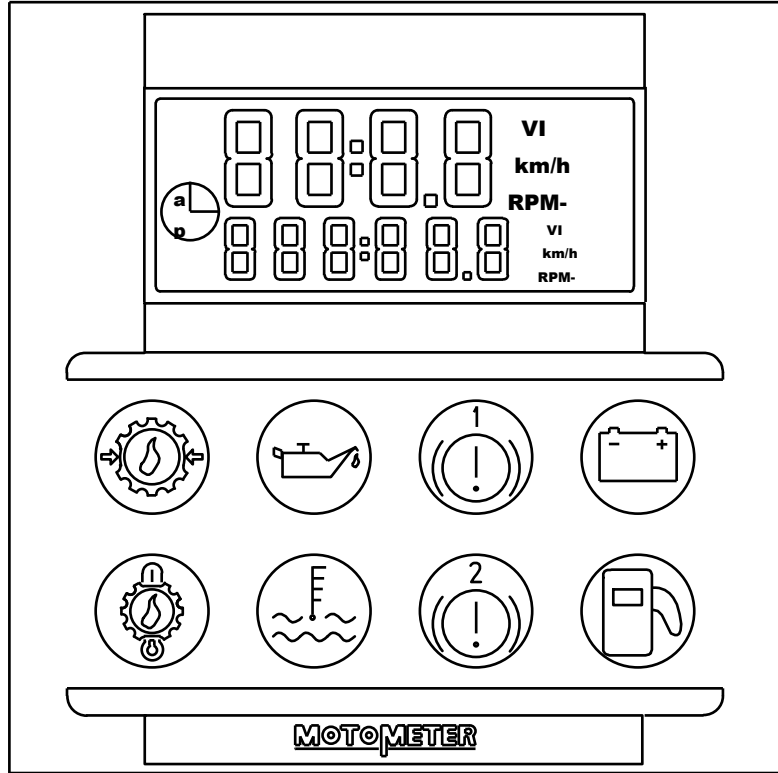
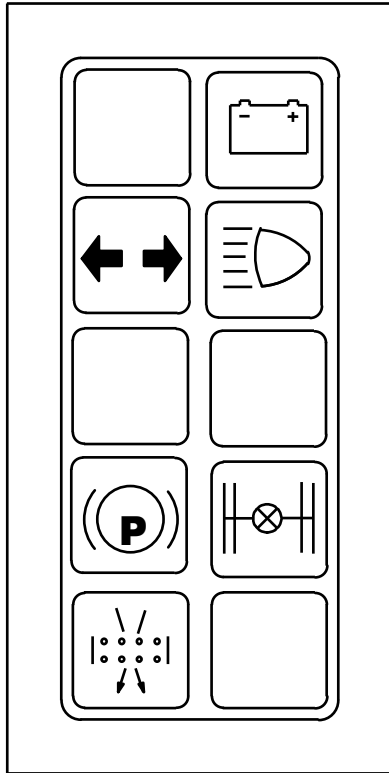
- Direction indicator
- Handbrake on
- Clogged air filter
- Alternator charging
- Main beam
- Differential lock

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MULTIMETER:



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PAINT TREATMENT OF TERBERG TERMINAL TRACTORS

Cabin:

1. All steel parts of the cabin are shot blasted
2. All seams of the cabin are filled up with a sealing
3. The cabin is treated with a primer
4. The cabin is treated with a second layer of two component epoxy primer
5. The finishing layer is a PU finish paint.

The total dry thickness is $\pm 100 \mu\text{m}$.

Chassis and body panels:

Two component paint.

- 1) The complete chassis construction is shot blasted and painted with one two component primer layer.
- 2) Completed chassis and additional body panels are painted with a two component chassis coating
- 3) After assembling of the complete vehicle, the chassis is painted with a two component chassis coating

The gloss of the end layer is $\pm 70\%$.

The new paint system for the chassis and the body panels fulfils the latest environmental requirements

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OPTIONS INCLUDED:

Cabin

- RHD cabin
- Roof-window pane
- Laminated tinted rear pane
- Wiper on rearside of cabin
- Safety lever for cab tilting
- Air-conditioning integrated in heating unit
- 2 outside mirrors
- Fire extinguisher 2 kg

Engine

- Stainless steel exhaust silencer
- Safety element in air filter

Fuel system

- Speed limiter electr.engine via sensor load 5th wheel (30 km/hr)
- Lockable cap on fuel tank
- Stainless steel fuel/hydraulic combitank.

Electric Installation

- Anderson start connection 72 mm
- 7 core trailer electric spiral cable
- Reverse buzzer/bleeper 90 dBA
- Automatic engine stop on low oil pressure (std)
- Automatic engine stop on high coolant tem. (std)
- Automatic engine stop on low coolant level
- Rotating warning beacon
- 1 Reversing light
- Speedometer (km/h)
- Km registration integrated in MFA10 instrument

Pneumatic system

- C-couplings, quick release (instead of palm-couplings)

Rear-axle

- Air suspension + release valve

Tyres instead of standard 11R22,5

- Michelin 12 R22,5 (6 pcs)

Chassis

- Wheelbase 3.100 mm
- Protection plate under diesel/hydraulic tank
- Lift capacity 34 T
- Mudguards plastic
- Sliding plates to 5th wheel

Hydraulic

- 3,5" fifth wheel instead of 2"

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Paint-system

- Cabin colour Ral no. 3020 Red
- Chassis colour Ral no. 3020 Red
- Rim colour Ral no. 3020 Red (silber is standard)
- Safety stripes in reflecting colour (Stickers)
- Anti-skid surface (paint on walking platform)
- 250 mu paint thickness on cab and chassis