



wheel base	standard	short
WB	3,250 mm	3,000 mm
H	2,230 mm	1,980 mm
K	2,350 mm	2,100 mm
L	2,420 mm	2,170 mm
M	2,090 mm	1,840 mm
N	5,458 mm	5,208 mm
R1	6,970 mm	6,630 mm
R2	2,800 mm	2,550 mm

Tyres	11.00 R 20 & 12 R 22,5	310/80 R 22,5 X-Terminal-T	315/80 R 22,5 R 336
Capacity	32 t	32 t	36 t
A	1,010 mm	1,005 mm	1,010 mm
B	1,100 mm	1,095 mm	1,100 mm
C	1,595 mm	1,590 mm	1,595 mm
D	2,110 mm	2,105 mm	2,110 mm
E	3,085 mm	3,080 mm	3,085 mm

Values A - D may be reduced by 30 mm at lowered rear axles air suspension.

Subject to technical modifications without notice
332,099,0019-O – Revision: May 2016

Technical Data

R 332 | R 336



Engines

Volvo-Penta industrial diesel engine TAD 851 VE
low emission rating acc. to exhaust stage III A (97/68/EC)
6 cylinders, straight configuration, turbocharged

Option:

Volvo-Penta industrial diesel engine TAD 852 VE
low emission rating acc. to exhaust stage III A (97/68/EC)
6 cylinders, straight configuration, turbocharged

Option:

Volvo-Penta industrial diesel engine TAD 871 VE, TAD 872 VE
low emission rating acc. to exhaust stage IV (97/68/EC)
6 cylinders, straight configuration, turbocharged

Option:

Mercedes/MTU industrial diesel engine OM 906 LA
Low emission rating acc. to exhaust stage III A (97/68/EC)
6 cylinders, straight configuration, turbocharged

Option:

Mercedes/MTU industrial diesel engine OM 936 LA
low emission rating acc. to exhaust stage IV (97/68/EC)
6 cylinders, straight configuration, turbocharged

Engine displacement: 7,7 l
Maximum power: 185 kW/252 hp at 2,200 rpm
Maximum torque: 1,160 Nm at 1,100 – 1,500 rpm
Air compressor: 2 cylinders 636 cm³

Engine displacement: 7,7 l
Maximum power: 210 kW/285 hp at 2,200 rpm
Maximum torque: 1,237 Nm at 1,100 – 1,600 rpm
Air compressor: 2 cylinders 636 cm³

Engine displacement: 7,7 l
Maximum power: 185 kW/252 hp at 2,200 rpm
210 kW/285 hp at 2,200 rpm
Maximum torque: 1,160 Nm at 1,100 - 1,500 rpm
1,235 Nm at 1,100 - 1,600 rpm
Air compressor: 2 cylinders 636 cm³

Engine displacement: 6,37 l
Maximum power: 170 kW/228 hp at 2,200 rpm
190 kW/255 hp at 2,200 rpm
205 kW/275 hp at 2,200 rpm
Maximum torque: 810 Nm at 1,200 – 1,600 rpm
1,000 Nm at 1,200 – 1,600 rpm
1,100 Nm at 1,200 – 1,600 rpm
Air compressor: 2 cylinders 636 cm³

Engine displacement: 6,37 l
Maximum power: 180 kW/245 hp at 2,200 rpm
210 kW/285 hp at 2,200 rpm
Maximum torque: 1,000 Nm at 1,200 – 1,600 rpm
1,150 Nm at 1,200 - 1,600 rpm
Air compressor: 2 cylinders 650 cm³

Transmission

Powershift reversing transmission ZF 6WG 211 with lock-up clutch;
gear ratios: 5.683/ 3.702/ 2.304/ 1.501/ 0.963/ 0.627 with
hydrodynamic torque converter; with motor-dependent pump drive;
Gears: 6 forward, 3 reverse (warning signal during reverse), neutral
electro-hydraulic shifting; with automatic logic and the possibility for
manual gear selection

Option: Without lock-up clutch

Front axle (driven) 4 x 4

Kessler LT71 PL375, max. admissible axle load 35 t; axle drive ratio:
i = 18.28. Suspension: parabolic steel springs; incl. hydr. shock absorbers;
hydrostatic power steering supplied by a load-sensing priority valve.

Option: Non-driven front axle (4x2.)

Rear axle (driven)

R 332: Kessler D81 PL378, max. admissible axle load 40 t;
axle drive ratio: i = 18.0

R 336: Kessler D81 PL478, max. admissible axle load 50 t;
axle drive ratio: i = 18.0

Differential lock, airsuspended rear axle, level controlled up to 20 t

Wheels and tyres

R 332: Steel disc rim radial tyre 12R 22,5
with wheel nut protection ring at front axle
R 336: Steel disc rim radial tyre 315/80R 22,5
with wheel nut protection ring at front axle

Brake system

Compressed air brake system with air dryer based on EC specifications
and dual-circuit brake system with dual-line trailer brake
connection, spring-loaded parking brake

Vehicle frame

Welded steel frame; colour RAL 7024 (graphite grey); dry film
thickness (dft): 120 µm; all accessible surfaces made of non-slip
aluminium plate; tow front bar coupling, with socket pin for tow
bar diameter 40 mm; tow bar rear coupling, with socket pin for all
common tow bar diameter 40 – 90/190 mm

Tractor dead weight

9,800 kg

Fifth wheel

Fifth wheel coupling Eurohitch 2" FW 3510-TR; admissible load
36,000 kg; double-acting lift cylinders; safe pneumatic remote
release

Hydraulic system

Hydraulic oil tank 110 l; with integrated 10 µm return filter
High-power, cast iron gear pump
R 332: working pressure 220 bar
R 336: working pressure 250 bar

Electrical system

- >> DC electrical system 24 V
- >> Two maintenance-free, high-performance batteries 12V/150 Ah;
with battery main switch
- >> Electric compartment in the cabin; protected; easily accessible
- >> 7-pin trailer power socket

Lighting

- >> Two H4 main headlights at front (high and low beam)
- >> Two turn indicators at front
- >> Two combined LED tail lights, brake-/ turn indicator and
reversing lights
- >> Warning beacon
- >> Working light at rear side of cabin

Option: LED Headlights

Driver's cab

- >> Cabin made of sheet steel with tubular safety frame; ROPS
tested and certified (FOPS with grid) acc. ISO 3471/SAE J1040
- >> Wide tilt angle (55°) using double-acting hydraulic cylinder and
manually operated safety pump
- >> Vibration isolated bearing with integrated hydraulic
suspension (hydro bushes) and buffer

- >> Rear sliding door with safety glass panel
- >> Side door
- >> Electrically operated vertical sliding window
- >> Horizontal sliding window on the side
- >> Roof window
- >> All windows tinted and made of safety glass
- >> Front and rear windscreen made of laminated safety glass
- >> Parallelogram windscreen wipers with washer system for front
and rear windscreen
- >> Hand rails at cabin rear side
- >> Manually adjustable left and right wing mirrors
- >> Paint finish: Colours RAL 9010 (pure white); dry film
thickness (dft) 120 µm

Option: Pneumatically opening door, outside mirror electrically
adjustable and heated, A/C unit, auxiliary heating

Interior features

- >> 2 sun visors at front and rear windscreen
- >> Reading lamp; ashtray; coat hanger; storage compartment
- >> High-performance cab heating via engine coolant water
- >> Powerful 3-speed fan with fresh air circulation and built-in filter
- >> Panorama rear view mirror
- >> Anti-slip, easily cleaning rubber floor mat
- >> Comfortable, air-suspended driver's seat; adjustable in height,
inclination, cross and lengthwise

Option: Swivel seat with automatic change of steering logic.

Controls

- >> Ignition lock
- >> Combination lever for turn signal, parking lights and low beam,
windscreen wiper/washer front, horn
- >> Joystick for raising and lowering the fifth wheel coupling
- >> Selector lever for shifting gears and driving mode
- >> Switches for: Main lights, warning beacon, rear operational
spotlight, parking brake, safety release for fifth wheel coupling,
bypass motor-stop; hazard lights
- >> Multi-function display with the following indicators:
Rpm gauge; speedometer; water coolant temperature;
transmission oil temperature; transmission oil pressure;
engine oil pressure; brake reserve pressure (3 cycles); fuel
supply; battery voltage; operating hours
- >> Control lights: King pin lock; differential lock; low beam; high
beam; turn signal for tractor; turn signal for trailer; battery
charge; clog indicator of air filter; motor coolant level; brake
reserve pressure; parking brake; transmission warning; motor
malfunction

Fuel

Fuel tank: 250 l
Filter with water separator protected in steel compartments

AdBlue Tank (Stage IV)

Content: 40l

Combustion air supply

Dry air filter with replaceable cartridge and cyclone dust
pre-separator

Exhaust system

Stage IV: Mercedes or Volvo SCR catalyser with vertical outlet pipe,
exhaust pipe stainless steel;

Stage III A: Muffler with vertical outlet pipe

Cooling system

Water/air radiator for engine coolant;
Oil/air radiator for transmission oil;
Air/air charge air cooler



Further options on request