



Value A:
5th wheel Jost JSK38 – 1.415 mm
5th wheel Eurohitch FW0100 – 1.540 mm.

Value A may be reduced by 30 mm at lowered rear axles air suspension.

Subject to technical modifications without notice
345,099,0014-B – Revision: March 2015

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Technical Data HD 445



Engines

Volvo Penta industrial diesel engine TAD 1170 VE,
low emission rating acc. to exhaust stage IV (97/68/EG)
6 cylinders, straight configuration, turbocharged

Option:

Volvo Penta industrial diesel engine TAD 1171/72 VE,
low emission rating acc. to exhaust stage IV (97/68/EG)
6 cylinders, straight configuration, turbocharged

Option:

Volvo Penta industrial diesel engine TAD 1150/51/52 VE,
low emission rating acc. to exhaust stage III A (97/68/EG)
6 cylinders, straight configuration, turbocharged

Engine displacement: 10.8 l
Maximum power: 235 kW/ 320 PS at 2,100 rpm
Maximum torque: 1,580 Nm at 1,000 – 900 rpm
Generator: rotary current 28 V/ 110 A
Air compressor: 2 cylinders 636 cm³

Engine displacement: 10.8 l
Maximum power: 265 kW/ 360 PS at 2,100 rpm
285 kW/ 388 PS at 1,700 rpm
Maximum torque: 1,785 Nm at 950 – 1,450 rpm
1,938 Nm at 1.100 – 1,300 rpm
Generator: rotary current 28 V/ 110 A
Air compressor: 2 cylinders 636 cm³

Engine displacement: 10.8 l
Maximum power: 235 kW/ 320 PS at 2,100 rpm
265 kW/ 360 PS at 2,100 rpm
285 kW/ 388 PS at 2.000 rpm
Maximum torque: 1,580 Nm at 900 – 1,450 rpm
1,785 Nm at 950 – 1,450 rpm
1,938 Nm at 1,100 – 1,300 rpm
Generator: rotary current 28 V/ 110 A
Air compressor: 2 cylinders 636 cm³

Transmission

Powershift reversion transmission ZF 6 WG 260 with torque
converter clutch for engines TAD 1150 VE, TAD 1151 VE,
TAD 1170 VE, TAD 1171 VE; gear ratios: 5.350/ 3.455/ 2.206/
1.421/ 0,969/ 0,624 with hydrodynamic torque converter,
with engine-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: Powershift reversing transmission ZF 6WG 310 with torque
converter clutch for engines TAD 1152 VE and TAD 1172 VE;
gear ratios: 5,350/ 3,455/ 2,206/ 1,421/ 0,969/ 0,624 with
hydrodynamic torque converter with engine-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

Front axle (powered) 4 x 4

Kessler LT81 PL488, max. admissible axle load 35 t; axle drive ratio:
i = 17,5. Suspension: parabolic steel springs; incl. hydr. shock absorbers;
hydrostatic power steering supplied by a load-sensing priority valve.

Rear axle (powered)

Kessler D81 PL488, admissible load 50 t; axle drive ratio: I = 17,5;
differential lock; air suspended rear axle level regulation up to 20 t

Wheels and tyres

Steel disc wheel with tapered rim radial tyre Michelin 12.00 R
24 XZM with wheel protection ring at front axle

Brake system

Compressed air brake system with air dryer based on EC
specifications in form of a 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 button plate; tow bar coupling, front with socket pin
for tow bar ring diameter 40 mm; tow bar coupling, rear with
socket pin for all common tow bar ring diameter 40 – 90/190 mm

Tractor dead weight

14,000 kg

Fifth wheel

Fifth wheel coupling Eurohitch FW0100 3,5”, universally mounted,
admissible load 45,000 kg; single acting lifting cylinders, pneumatic
safety remote release

Option: Fifth wheel coupling Jost JSK 38 3,5”, universally mounted,
admissible load 36,000 kg;

Hydraulic System

hydraulic oil tank 160 l, with integrated 10 µm return filter,
protected in right side, compartment; high-power cast iron gear
pump, working pressure 300 bar

Electrical system

>> DC electrical system, operating voltage 24 V
>> Two maintenance-free, high-performance starter batteries
12 V/150 Ah connected in series; with battery main switch
>> Central electric 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 brake/turn indicators and tail lights at rear
with integrated LED reversing light
>> Yellow warning beacon
>> Working light at rear side of cabin

Driver’s cab

>> Cabin made of sheet steel with tubular safety frame;
ROPS tested and certified (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 and buffer
>> Rear sliding door with safety glass panel
>> Side door, mounted at the front
>> Electrically operated vertical sliding window in the side door
>> Horizontal sliding window on the right 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 wing mirrors left and right
>> Paint finish: Colours RAL 9010 (pure white); dry film
thickness (dft) 120 µm

Option: High-roof cabin without roof window; rear sliding door
pneumatical opening; outside mirror electrically adjustable,
heatable; A/C unit; auxillary 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 lenghtwise

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
>> Flip switch or button: main lights, warning beacon, rear working
spotlight, parking brake, safety release for 5th wheel coupling,
bypass engine-stop, hazard lights
>> Multi-function display indicating: rpm gauge, speed, water
coolant temperature, transmission oil temperature, transmission
oil pressure, engine oil pressure, brake reserve pressure , fuel
supply, battery voltage, operating hours
>> Control lights: 5th wheel coupling lock, differential lock, low
beam, high beam, turn signal for tractor, turn signal for trailer,
battery charge, contamination indicator of air filter,
engine coolant level, brake reserve pressure, parking brake,
transmission warning, engine malfunction