



wheel base	standard	long
WB	3,000 mm	3,500 mm
L	5,270 mm	5,770 mm
RT	1,860 mm	2,360 mm
RS	2,190 mm	2,690 mm

Tyres	12 R 22,5	1100 R 20	310/80 R 22,5	
A	940 mm	940 mm	935 mm	Values A – D may be reduced by 50 mm at lowered rear axles air suspension. Value B may be increased by 25 mm with rubber mudguards.
B	1,135 mm	1,135 mm	1,130 mm	
C	1,600 mm	1,600 mm	1,525 mm	
D	2,075 mm	2,075 mm	2,000 mm	
E	3,310 mm	3,310 mm	3,305 mm	

Subject to technical modifications without notice  
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# Technical Data T 230



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## Engines

Cummins industrial diesel engine QSB6.7-C173, low emission acc. to exhaust stage III A (97/68/CE), 6-cylinders, straight configuration, turbocharged

### Option:

Cummins industrial diesel engine QSB6.7-C220, low emission acc. to exhaust stage III A (97/68/CE), 6 cylinders, straight configuration, turbocharged with diesel oxidation catalyser (DOC)

### Option:

Volvo-Penta industrial diesel engine TAD 551 VE, TAD 552 VE low emission acc. to exhaust stage III A (97/68/CE), 4 cylinders, straight configuration, turbocharged

### Option:

Volvo-Penta industrial diesel engine TAD 571 VE, TAD 572 VE low emission acc. to exhaust stage IV (97/68/CE), 4 cylinders, straight configuration, turbocharged, with SCR catalyser (selective, catalytic reduction) and AdBlue tank 45 l

Other emission stages on request.

## Fuel

Fuel tank: 230 l  
Filter with water separator

## Combustion air supply

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

## Exhaust system

Special muffler with vertical outlet pipe

## Cooling system

Air/air after cooler; water/air engine coolant radiator oil/air transmission cooler

## Transmission 4 x 2

ALLISON automatic transmission type 3000P, gear ratios: 3,5 / 1,9 / 1,4 / 1,0 / R5,0 with hydrodynamic torque converter and lock-up clutch with engine dependent pump drive, Gears: 4 forward, 1 reverse, neutral, electro-hydraulic shifting with automatic logic, manual gear selection possible

Engine displacement: 6,7 l  
Maximum power: 129 kW/175 hp at 2,200 rpm  
Maximum torque: 800 Nm at 1,400 rpm  
Air compressor: 460 cm<sup>3</sup>

Engine displacement: 6,7 l  
Maximum power: 172 kW/230 hp at 2,000 rpm  
Maximum torque: 949 Nm at 1,500 rpm  
Air compressor: 2 cylinder 460 cm<sup>3</sup>

Engine displacement: 5,1 l  
Maximum power (TAD551VE): 129 kW/175 hp at 2,200 rpm  
Maximum power (TAD552VE): 160 kW/218 hp at 2,200 rpm  
Maximum torque (TAD551VE): 810 Nm at 1,400 rpm  
Maximum torque (TAD552VE): 910 Nm at 1,450 rpm  
Air compressor: 360 cm<sup>3</sup>

Engine displacement: 5,1 l  
Maximum power (TAD571VE): 129 kW/175 hp at 2,300 rpm  
Maximum power (TAD572VE): 160 kW/218 hp at 2,300 rpm  
Maximum torque (TAD571VE): 810 Nm at 1,100 rpm  
Maximum torque (TAD572VE): 910 Nm at 1,200 rpm  
Air compressor: 360 cm<sup>3</sup>

**Option:** 5 gears in combination with MEM\* (MAFI Eco Mode)  
\*MEM is an intelligent economic drive program which detects if the operation is with or without load. MEM shifts gears automatically up at lower engine revolution if there is no or reduced load detected. This will result in fuel savings up to 20 %, reduce operating costs and in addition a reduced noise level. All in all this is an operational cost saving and environment friendly process.

**Option:**  
Powershift reversing transmission ZF 5WG191; gear ratios: 4,579/2.304/1.501/0,963/0,627 with hydrodynamic torque converter; with motor-dependent pump drive;  
Gears: 5 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 5WG191 with lock up clutch;

## Front axle (not driven)

MAFI, (SISU, Volvo), max. admissible axle load 27,5 t. Suspension: parabolic steel springs, incl. hydraulic shock absorbers, hydrostatic power steering, supplied by a load-sensing priority valve

## Rear axle

Kessler, admissible axle load 40 t;  
Axle drive ratio: i = 12,73;  
with differential lock

**Option:** air suspension up to 14 t

## Wheels and tyres

Steel disc rim, radial tyre 12 R 22,5  
with wheel nut protection ring at front axle

## Brake system

Compressed air brake system with air dryer based on EC specifications and 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 coated with anti-slip paint. Tow bar coupling front with single pin for tow bar diameter 40 mm, tow bar coupling rear for all common tow bar diameter 40 – 90/190 mm. Pin interchangeable between front and rear.

**Option:** long wheel base 3,500 mm

## Tractor dead weight

7,600 kg

## Fifth wheel

Fifth wheel coupling Eurohitch 2" FW 3510-TR for 36 000 kg, single- or double acting cylinders, pneumatically operated safety remote release.

## Hydraulic system

Hydraulic oil tank: 90 l, with integrated 16 µm-return filter, high performance cast iron gear pump, operating pressure: 250 bar

## Electrical system

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

## Lighting

- >> Two H4-headlights at front (high and low beam) with integrated turn signal
- >> Brakelights, turn signals rear lights and reverse lights in LED

## Driver's cab

- >> Cabin made of steel with tubular safety frame
- >> ROPS and FOPS 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 (hydro bushes) and buffer
- >> Side door made of safety glass, access via anti-slip platform
- >> All windows tinted and made of safety glass
- >> Front and rear windscreen made of laminated safety glass
- >> Horizontal sliding window on the driver's side
- >> Parallelogram windscreen wipers with two-step intervals
- >> Washer system
- >> Safety hand rails on the cabin rear side
- >> Adjustable left and right wing mirror, right wing mirror telescopic
- >> Paint finish: Colour RAL 9010 (Pure white)

## Interior features

- >> Reading lamp, ashtray, coat hook, storage compartment
- >> High-performance cab heating via engine coolant water
- >> Powerful 4-speed fan for fresh air circulation and A/C-unit built-in filter
- >> Panorama rear view mirror
- >> Anti-slip rubber floor mat
- >> Comfortable driver's seat, adjustable in height, length and angle, air-suspended
- >> Steering wheel adjustable in height and angle

## Controls

- >> Ignition lock
- >> Combination lever for turn signal, parking lights and low beam, two step interval windscreen wiper/washer front, horn
- >> Joystick for raising and lowering the fifth wheel
- >> Touch Pad operating panel for selecting gears
- >> Switch for parking and drive lights, switch for warning beacon, two working lights front and/or rear, parking brake, safety release for fifth wheel coupling, bypass motor-stop, hazard lights
- >> Display indicating: speed, water coolant temperature, fuel supply, operating hours
- >> Instrument panel: speedometer in km/h and mph, cooling water temperature in °C and °F, fuel level gauge, high beam, turning signal, engine temperature control, engine fault, engine oil pressure, brake pressure, cooling water level, transmission fault, gear oil pressure, gear oil temperature, 5<sup>th</sup> wheel king pin lock, low beam, turning signal control for trailer, parking brake activated



Further options on request