



SB 3000 WS

Sales specification

Engine	11.6 l Advanced Turbo intercooling 242 kW / 268 kW / 315 kW EURO 2
Suspension	air suspension

Weights in kilograms

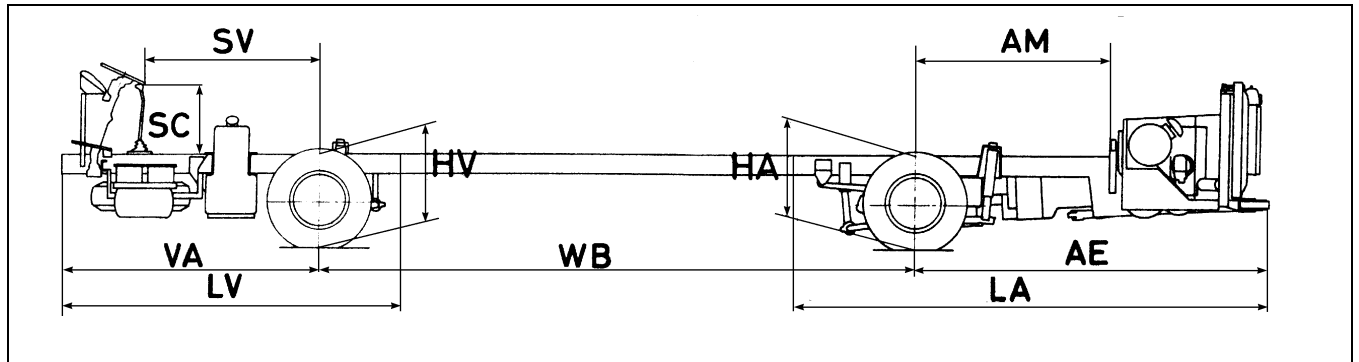
Tyres:	Load index	Remark	Gross Vehicle Weight (GVW) ⁵			Chassis Weight		
			front	rear	total ⁶	front	rear	total
315/80 R 22,5	154/150M	Design max.	7.500	12.000	19.100	1.290	4.440	5.730
295/80 R 22,5	152/148M	Design max.	7.100	12.000	19.100	1.275	4.410	5.680

Weights calculated with:

WS 268 engine, gearbox 8S140, WB 5.85, 2 x 215-litres fuel tanks (empty), without spare wheel without winch.
Without transport equipment and underframe mid-section. Weight tolerance $\pm 3\%$.
These weights vary in production and are intended as a guide only.

Dimensions in metres:

WB	TL	LV	VA	SV ¹	SC ¹	HV ^{2,4}	LA	AE	AM	HA ^{2,4}	TB ^{3,4}
5.85 (LHD)	11.87	3.35	2.55	1.67-1.76	0.62-0.78	0.97	4.49	3.48	1.94	0.99	2.48
6.02 (RHD)	11.87	3.35	2.55	1.67-1.76	0.62-0.78	0.97	4.32	3.31	1.77	0.99	2.48



VEHICLE SPEED

Vehicle speed in km/h at maximum power (engine 2000 rpm) and 295/80 R22,5 tyres. The maximum theoretical vehicle speed in km/h is shown in brackets for an unloaded vehicle (engine 2280 rpm), on the flat road, normal wether conditions and 295/80 R 22,5 tyres.

Gear box / Axle ratios	2.93	3.31	3.73	4.10
8S140 (8.49 - 1.00:1)	131 (150)	116 (133)	-----	-----
8S180 (8.73 - 1.00:1)	131 (150)	116 (133)	-----	-----
5HP600 (3.43 - 0.83:1)	-----	-----	124 (142)	112 (129)

Note: Combinations with theoretical speed $\geq 100\text{km/h}$ (62,5mph) are only in compliance with EC 92/24 if a speedlimiter is fitted.

¹ Adjustable steering column
² HV and HA at max. load

³ TB: overall width over driven axle
⁴ with 295/80 R 22,5 tyres

⁵ Limitations due to national legislation not included
⁶ Max. trailer weights on request

Engine

6 cylinder diesel engine with direct injection and Advanced Turbo intercooling, vertically mounted behind rear axle
Emission levels EURO 2 (NOx < 7g/kWh)
Bore x stroke 130 x 146 mm
Swept volume 11,63 dm³
Compression ratio 16:1
Governor all-speed RQV-K
Lubrication system pressure lubrication with gear type pump, full-flow oil filter, with oil cooler
Cooling system water cooling with centrifugal pump, V-belt driven, 1 thermostat
Air intake system dry air cleaner, with replaceable element
Fan thermostatically controlled, hydraulically driven

Type **WS 268**
Max.output¹ 268 kW / 365 hp at 2000 rpm
Max.torque¹ 1500 Nm at 1500 rpm

Optional:
Type - **WS 242**
Max.output¹ 242 kW / 330 hp at 2000 rpm
Max.torque¹ 1350 Nm at 1500 rpm

Type - **WS 315**
Max.output¹ 315 kW / 428 hp at 2000 rpm
Max.torque¹ 1765 Nm at 1500 rpm

Clutch

Single dry plate, hydraulically operated and pneumatically assisted.

Diameter respectively:
WS 242 / 268: 420 mm
WS 315: 430 mm

Gearbox

WS 242 / 268: Type 8S140 (8.49-1.00:1)
WS 315: Type 8S180 (8.73-1.00:1)
8-speed, synchronised gearbox.
PGS (Precision Gear Shift)
Controls
Optional contr. gearbox: - AVS pre-select gear shift control in combination with E-gas

Optional gearbox:
WS 242 / WS 268: Type - ZF Ecomat 5HP600 (3.43-0.83:1) fully automatic gearbox with foot controlled integrated retarder

Optional controls retarder: - control lever on steering column and integrated in foot brake valve

Optional retarder:
ZF 8S140/8S180: Types - ZF Intarder
- Retarder prepared (for Telma)

Controls retarder control lever on steering column
Optional controls retarder: - control lever on steering column and integrated in foot brake valve

Construction

Welded steering and drive unit for fully integral body construction up to 12 metres in length. Including fuel tanks 2 x 215 litres.

Optional:
- 200mm lowered driving position.
- fuel tanks 2 x 150 litres
- fuel tank 1 x 325 litres
- winch for spare wheel

Cooling unit

Intercooler, oil cooler and radiator with thermostatically controlled hydraulic fan drive, positioned at left side of engine. Including coolant level sensor.

Steering unit

Front axle type 152 N
I-section axle, stub axles with needle bearings.

Driven Unit

Type 1339
Fully floating single-reduction rear axle. Crownwheel and pinion with hypoid bevel gearing.
Ratios see other side Performance.

Suspension

Full air suspension. Kneeling facility (8cm) on front axle and ferry-lift (8 cm) upwards on both axles. Adjustable double-acting telescopic shock absorbers and stabilisers on both axles.

Wheels and tyres

8.25 x 22.5 wheels with 295/80 R 22,5 M-rated radial tyres.
Twin wheels on driven axle.

Optional: - 9.00 x 22.5 wheels with 315/80 R 22,5 tyres

Steering gear

Available in left-hand (LHD) or right-hand (RHD) drive.
Hydraulic power steering with mechanical adjustable steering column rake: 20° - 31°, height: 80 mm. Soft grip steering wheel f 500 mm.

Inner wheel turning angle: 54°
Turning circle radius Outer front wheel
WB 5.85 m: 8.60 m
WB 6.02 m: 8.70 m

Brake system

Air mechanical - dual circuit - air brakes with air dryer and automatic slack adjusters. Drum brakes with asbestos free linings on both axles. Including ABS, (Anti-lock Braking System).

Brake dimensions:
- steering axle drum lining dimensions 420 x 150 mm
- driven axle lining dimensions 420 x 240 mm
Air reservoir 3 x 36 + 1 x 20 litres
Exhaust brake foot operated
Handbrake by means of spring brake actuators on driven axle
Optional:
- Disc brakes (22,5") on steering axle, disc f 430 mm, lining area 823 cm²
- ASR (Anti Wheelspin System in combination with ABS and E-gas))

Electrical equipment

Voltage 24 V
Alternator 140 A
Batteries 2 x 200 Ah on pull out tray
Starter 5.4 kW
Service controls in Operating switch front/rear; switches for:
engine compartment glowing, start and stop of engine
Central E-panel Central electronic panel comprising: printed circuit boards with relays and electronic control units

Optional: - central safety switch

Throttle control:

Cable linkage
Optional throttle control: - speedlimiter
- E-gas (electronically throttle control) with cruise control

Instruments and controls:

Complete instrument panel suitable for integration in the body facia comprising:

Instruments:
Tachograph (2 drivers without rev. registration, km/h + m/h), electronic rev. counter, fuel gauge, voltmeter, coolant temperature engine with audible signal, air pressure gauge with audible signal, optionally: AVS display.

Switches:
Main switch, starter and stop switch integrated within steering lock, cold start, glow plugs, headlamp switch, instrument panel lighting (2 intensities), hazard warning lights, fog lights, air suspension kneeling and ferry-lift height adjustment, optionally: retarder control.

Multi-function switch:
Direction indicators, horn, headlamp main-beam / dipped-beam, headlamp flasher.
Windscreen wipers (2-speed), intermittent wipe / wipe-wash, optionally: E-gas.

Indication lights:
Central alarm light, central warning light, main switch, glowing system, headlights main/dipped beam, direction indicators, handbrake, retarder activity, kneeling and ferry-lift activity, rear fog light, optionally: ASR.

Standard Warning System (SWS) panel:
Warning lights for engine compartment temperature with audible signal, ABS, oil pressure (with audible warning), coolant temperature, low coolant level engine (with audible signal), battery charge, alternator voltage, kneeling and ferry-lift, open doors, speedlimiter, air cleaner, optionally: AVS / E-gas.

Accessories:
Cigar lighter/inspection lamp socket.

Further Equipment:

Optional:
- air conditioning prepared comprising: compressor frame, 55A alternator, tensioner pulley
- air conditioning related automatic engine rev. control in neutral

¹ ECE R24-03 (ISO 1585)

Vehicle versions are subject to country specifications.
Subject to modification without prior notice.