

SB 220 GG

LOW FLOOR

LPG

UK Sales specification

Engine 8,65 I LPG horizontal

170 kW

EURO 2

Suspension Full air suspension

Weights in kilograms

g			Gross Ve	Gross Vehicle Weight (GVW)			Chassis Weight		
Tyres	Load index	Remark	front	rear	total	front	rear	total	
275/70 R 22,5	148/145J	Max techn. speed 80 km/h	6.500	11.600	18.100	1.500	4.300	5.800	
275/70 R 22,5	148/145J	Plated weight (max. 100 km/h)	6.000	10.500	16.500				

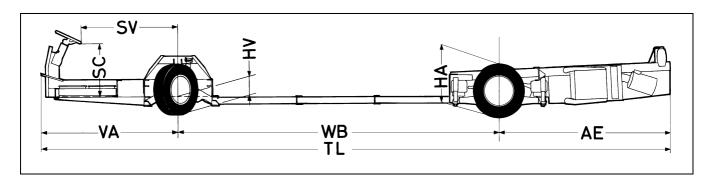
Weights calculated with:

Engine GG 170 LPG, automatic gearbox, 2 empty LPG-tanks, without spare wheel.

Without transport equipment. Weight tolerance ± 3 %. These weights vary in production and are intended as a guide only.

Dimensions in metres:

 SV^1 WB VA SC HV HA TB^2 ΑE 6.00 11.57 2.56 1.80-1.91 0.98-1.15 0.34 0.84 2.41 2.97



PERFORMANCE

Vehicle speed in km/h at maximim power (engine 2000 rpm) with 275/70 R 22,5 tyres.

gear box / axle ratios	3.31	3.73	4.10	4.56	5.13
4HP500 (3.43 - 1.00:1)	107	96	87	78	69
5HP500 (3,43 - 0.83:1)		113	103	93	84
D851.3 (5.20 - 1.00:1)	107	96	87	78	69
D854.3 (5.20 - 0.73:1)			117	105	95

Note: Speedlimiter mandatory (EC 92/24) for geared speeds \geq 100km/h (62,5mph)

¹ Adjustable steering column

 $^{^{2}\,}$ TB: overall width, measured over driven axle

Engine 6 cylinder LPG engine with spark plugs, turbo charged and charged-cooled, horizontally mounted behind rear axle

Emission levels

significantly better than EURO 2 (NOx < 1g/kWh) 118 x 132 mm 8,66 dm³ Bore x stroke Swept volume

Compression ratio

electronically controlled LPG multipoint injection, 3-Way catalist Fuel system

Lubrication system

pressure lubrication with gear type pump, full-flow oil filter, with oil cooler water cooling with centrifugal pump, gear Cooling system

driven, 1 thermostat Air intake system

dry air cleaner, with replaceable element

GG 170 170 kW / 231 hp at 2000 rpm Type Max.output

Max.torque 940 Nm at 1200 rpm

Gearbox

Electronically controlled fully automatic gearbox with foot controlled integrated retarder, automatic neutral shift at standstill and kick-down.

(3,43 - 1.00:1) (3.43 - 0.83:1) (5.20 - 1.00:1) (5.20 - 0.73:1) ZF 4HP500 - ZF 5HP500 - Voith D851.3 Standard Optional:

Voith D854.3

Construction

Welded steering and drive units for fully integral body construction up to 12 metres in length. Chassis in Low Floor version. Including LPG tanks 2×300

Cooling unitRadiator unit with hydraulic fan drive integrated in engine compartment. Fan thermostatically controlled. Including coolant level sensor.

Steering unit

Front axle type 154 N Stub axles with needle bearings, 'long life' greased.

Driven Unit

Type 1339
Fully floating single-reduction rear axle. Crownwheel and pinion with hypoid

bevel gearing.
Ratios see other side Performance.

Suspension

Electronically controlled air suspension with "high speed" kneeling / ferry-lift facility (2 air bags at front and 4 air bags at rear). Adjustable double-acting telescopic shock absorbers and stabilisers on both axles.

Wheels en tyres 7.50 x 22.5 wheels with 275/70 R 22,5 tyres. Twin wheels on driven axle.

Steering gear
Right-hand (RHD) drive.
Hydraulic power steering with adjustable steering column,
rake: 20° - 31°, height: 80 mm. Soft grip steering wheel f 500 mm.
Inner wheel turning angle: 56°
Turning circle radius outer front wheel: 8.52 m

Optional:

Brake systemAir mechanical, dual circuit, air brakes with air dryer and automatic slack adjusters. Drum brakes with asbestos free linings on both axles.

Brake dimensions: steering axle driven axle

420 x 240 mm 2 cylinder 440cc water cooled, 600l/min at 2000 Compressor

engine rpm and 10 bar Air reservoir 3 x 36 + 2 x 20 litres

Handbrake by means of spring brake actuators on driven

halt brake on driven axle
 ABS (Anti-lock Braking System)
 ASR (Anti Wheelspin System in combination

with ABS and E-gas)

Electrical equipment

Voltage Alternator 24 V 140 A

2 x 200 Ah, on swing out tray 5.2 kW Batteries

Starter

Operating switch front/rear; Service controls in engine compartment switches for engine start and stop.

Central electronic panel comprising: printed circuit boards with relays and electronic control Central E-panel

Central chassis lubrication:

Automatic central lubrication system, with grease 2 or grease 00.

Throttle control:

Electronic throttle control (E-gas), with integrated speedlimiter and throttle interlock

Instruments and controls:

The Coach version instrument panel is suitable for integration in the body facia. Instruments:

Speedometer (km/h + mph), electronic rev.counter, gauges for: air pressure (with audible signal), fuel level, voltage, oil pressure (with audible signal), coolant temperature engine (with audible signal), retarder oil temperature.

Switches: Main switch, contact/stop, start, instrument panel lighting (2 intensities), reverse conformation switch, retarder on/off, fog lights front and rear, headlamp switch, air suspension height adjustment switches, hazard warning lights.

optionally: contact, starter and stop switch integrated within steering lock. **Multi-function switch:** Direction indicators, horn, headlamp main-beam / dipped-beam, headlamp

flasher. Windscreen wipers (2-speed), intermittent wipe / wipe-wash.

Indication lights:

Central alarm light, central warning light, main switch, glowing system, headlights main/dipped beam, fog lights rear, direction indicators, parking brake, retarder oil temperature, gearbox control (Voith), retarder on/off. Optional:

halt brake, central lubrication system.

Standard Warning System (SWS) panel:

Warning lights for engine compartment temperature with audible signal, oil pressure (with audible warning), coolant temperature and low coolant level engine (with audible warning), battery charge, alternator voltage, chassis level, open doors, air filter exchange. Optional: ABS, speedlimiter.

Accessories:

Cigar lighter/inspection lamp socket.

Further Equipment:

automatic sump topping-up system

off side fill and dip facility tachograph, 2 drivers without rev. registration, km/h + mph