



DB 250 RS

LOW FLOOR

U.K. Sales specification

Engine	Advanced Turbo intercooling 160 kW (218 hp) / 200 kW (272 hp) Euro 2
Suspension	Full air suspension

Weights in kilograms

Tyres	Load index	Remark	Gross Vehicle Weight (GVW)			Chassis Weight		
			front	rear	total	front	rear	total
275/70 R 22,5	148/145J	Max techn. speed 80 km/h	6.500	11.000	17.400	1.200	4.700	5.900
275/70 R 22,5	148/145J	Plated weight (max. 100 km/h)	6.300	10.500	16.800			

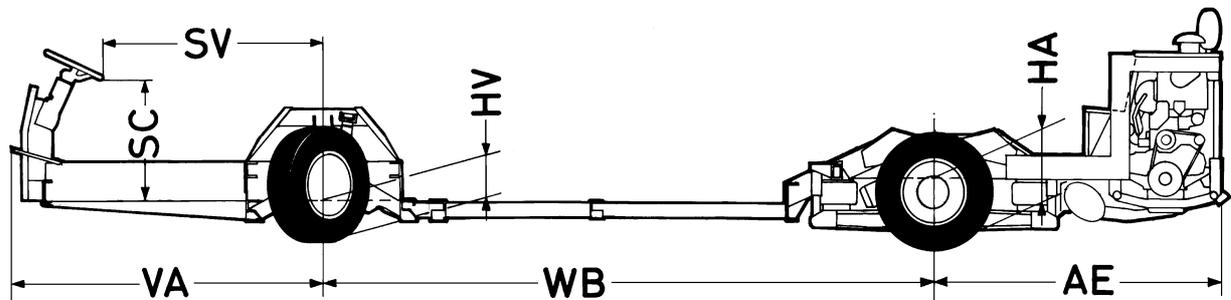
Weights calculated with:

Engine RS 200, automatic gearbox, without fuel tank.

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

Dimensions in metres:

WB	TL	VA	SV ¹	SC ¹	HV ³	HA ³	TB ^{2,3}	AE
5.45	10.36	2.56	1.80-1.91	0.98-1.15	0.34	0.58	2.48	2.35



VEHICLE SPEED

Vehicle speed in km/h at maximum power (engine 2300 rpm) and 275/70 R22,5 tyres. The maximum theoretical vehicle speed in mph is shown in brackets for an unloaded vehicle (engine 2535 rpm), on the flat road, normal wether conditions and 275/70 R 22,5 tyres.

Gearbox / Axle ratio	4.87
D851.3 (5.20 - 1.00:1)	80 (55)
4HP500 (3.43 - 1.00:1)	80 (55)
5HP500 (3.43 - 0.83:1)	97 (66)
D854.3 (5.20 - 0.73:1)	109 (75)

Note: Combinations with theoretical speed ≥ 100 km/h (62,5mph) are only in compliance with EC 92/24 if a speedlimiter is fitted.
If theoretical speed ≥ 96 km/h (60mph) passenger safetybelts have to be fitted in compliance with UK legislation.

¹ Adjustable steering column

² TB: overall width, measured over driven axle

³ with tyres 275/70 R22,5

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 118 x 132 mm
Swept volume 8,66 dm³
Compression ratio 16,1:1
Governor two-speed
Lubrication system pressure lubrication with gear type pump, 2 full-flow oil filters, oil cooler
Cooling system water cooling with centrifugal pump, V-belt driven, 1 thermostat
Air intake system dry air cleaner, with replaceable element
Fill and dip off side fill and dip facility

Type RS 200
Max.power¹ 200 kW / 272hp at 2300 rpm
Max.torque¹ 1010 Nm at 1500 rpm

Gearbox

Electronically controlled fully automatic gearbox with foot controlled integrated retarder

Standard: Voith D85.3 Max. 3 bar (to be integrated into door system)

Gear ratios:

1st	5.30
2nd	1.43
3rd	1.05
4th	-
reverse	3.84

Optional:

	ZF Ecomat 4 HP 500 E	ZF Ecomat 5 HP 500 E	Voith D854.3*
Gear ratios:			
1st	3.59	1st 3.59	1st 5.30
2nd	2.11	2nd 2.11	2nd 1.43
3rd	1.49	3rd 1.49	3rd 1.05
4th	1.05	4th 1.05	4th 0.77
5th	-	5th 0.87	5th -
reverse	5.07	5.07	reverse 3.84

* On special factory request.

Construction

Welded low floor steering and drive unit for fully integral body construction. With transportation fuel tank (64 litres).

Cooling unit

Radiator unit with V-belt fan drive integrated in engine compartment. Fan thermostatically controlled. Including coolant level sensor.

Front axle

Type: 154 N Low Floor.
Stub axles with needle bearings, 'long life' greased.

Rear axle

Type: GKN D66-11B-1G
Low floor cast. rear-drive, drop centre, hub reduction with excentric differential 90° and hypoid bevel gearing
Ratio: 4.87:1

Suspension

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

Wheels and tyres

Standard:
Wheels 7.50 x 22.5, 10 holes
Tyres 275/70 - 22.5
Twin wheels at rear

1.5 kg

registration, km/h + mph

Steering gear

Right-hand (RHD) drive.
Hydraulic power steering with adjustable steering column, rake: 20° - 31°, height: 80 mm. Soft grip steering wheel ø 500 mm.
Inner wheel turning angle: 56°
Turning circle radius outer front wheel:
WB 5.45 m: 7.50 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.
Brake dimensions:
- steering axle 420 x 150 mm
- driven axle 394 x 203 mm
Compressor 2 cylinder 440cc water cooled 680 l/min at 2300 rpm and 10 bar
Air reservoir 3 x 36 + 2 x 20 litres
Handbrake by means of spring brake actuators on driven axle
Optional:
- ABS (Anti-lock Braking System) (standard in coach specification)
- halt brake on driven axle, electrically

Electrical system

Voltage 24 V
Alternator 140 A
Batteries 2 x 200 Ah on swing out tray
Starter 5.2 kW
Engine electrical system: Electromagnetic engine stop, cold start, glowplugs.
Service controls in engine compartment Operating switch front/rear; switches for:
Central E-panel glowing, engine start and stop.
Central electronic panel comprising: printed circuit boards with relays and electronic control units.

Throttle control:

Throttle cable linkage.
Optional: - speedlimiter

Instruments and controls

The instrument panel is available in Coach version. Suitable for integration in the body fascia.

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, retarder oil temperature.

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

Multi-function switch:
Direction indicators, horn, headlamp main-beam / dipped-beam, headlamp flasher, horn.

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

Optional:
- Automatic chassis lubrication: Willy Vogel grease class II; reservoir capacity
- Tachograph, 2 drivers without rev.

¹ ECE R24-03 (ISO 1585)

Vehicles are subject to country specifications.
Subject to modifications without prior notice.