



The Sprinter

Specification Sheet

April 2005



Mercedes-Benz

Sprinter Range Finder

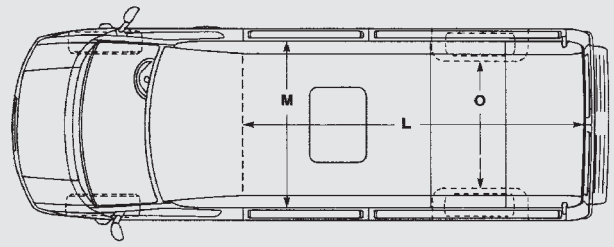
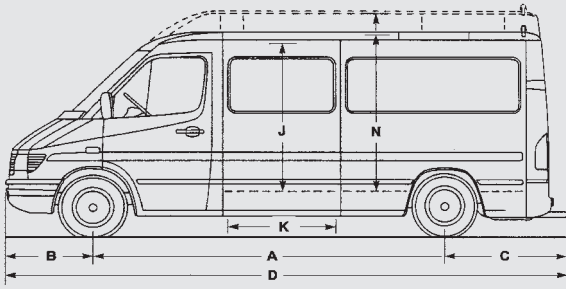
Model	GVW (kg)	Vans Wheelbase (mm)			Chassis Cabs Wheelbase (mm)			Passenger Carrying Variants Wheelbase (mm)		
		3000	3550	4025	3000	3550	4025	3000	3550	4025
2-Series										
208CDI	2590	●	-	-	-	-	-	-	-	-
208CDI	2800	●	●	-	●	●	-	-	-	-
211CDI	2800	●	●	-	-	●	-	-	-	-
213CDI	2800	●	●	-	-	●	-	-	-	-
216CDI	2800	●	●	-	-	●	-	-	-	-
214 Petrol	2590	●	-	-	-	-	-	-	-	-
214 Petrol	2800	●	●	-	-	-	-	-	-	-
3-Series										
308CDI	3500	●	●	●	●	●	●	-	-	-
311CDI	3500	●	●	●	●	●	●	-	-	-
313CDI	3500	●	●	●	●	●	●	-	-	-
316CDI	3500	●	●	●	●	●	●	-	-	-
314 Petrol	3500	●	●	●	-	●	●	-	-	-
TL13 Front Entry	3500	-	-	-	-	-	-	-	●	-
TL13 Side Entry	3500	-	-	-	-	-	-	-	●	-
TL14 Side Entry	3500	-	-	-	-	-	-	-	●	-
TL16 Front Entry	3880/4600	-	-	-	-	-	-	-	-	●
TL16 Side Entry	3880/4600	-	-	-	-	-	-	-	-	●
TL17 Side Entry	3880/4600	-	-	-	-	-	-	-	-	●
4-Series										
411CDI	4600	-	●	●	-	●	●	-	-	-
413CDI	4600	-	●	●	-	●	●	-	-	-
416CDI	4600	-	●	●	-	●	●	-	-	-
414 Petrol	4600	-	●	●	-	●	●	-	-	-
411CDI Bus*	4600	-	-	-	-	-	-	-	-	●
411CDI Mobility*	4250	-	-	-	-	-	-	-	-	●
6-Series										
616CDI	5990	-	-	-	-	●	●	-	-	-

* These models are glazed base vehicles for conversion into passenger-carrying variants by a coachbuilder, i.e. not completed vehicles.

4x4	GVW (kg)	Vans Wheelbase (mm)			Chassis Cabs Wheelbase (mm)		
		3000	3550	4025	3000	3550	4025
3-Series							
311CDI	3500	●*	●	●	●*	●	●
313CDI	3500	●*	●	●	●*	●	●
316CDI	3500	●*	●	●	●*	●	●
4-Series							
411CDI	4600	-	●	●	-	●	●
413CDI	4600	-	●	●	-	●	●
416CDI	4600	-	●	●	-	●	●

* Not available with selectable 4x4 with low ratio.

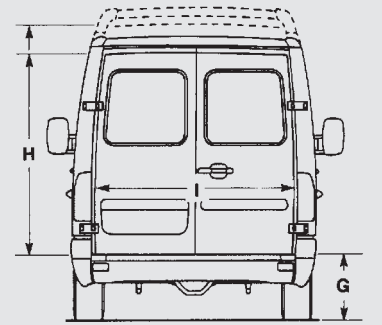
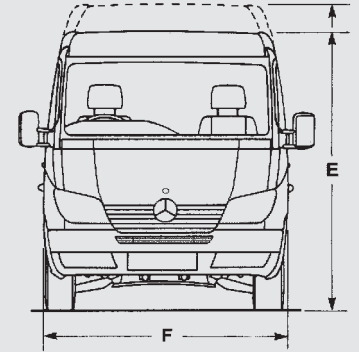
Sprinter Passenger Carrying Variants



DIMENSIONS (mm)

Exterior dimensions

		TL13/TL14 3500kg GVW	TL16/TL17 3880kg GVW	TL16/TL17 4600kg GVW	411CDI Bus/ Mobility
A	Wheelbase	3550	4025	4025	4025
B	Front overhang	939	939	939	939
C	Rear overhang*	1259	1735	1735	1735
D	Overall length*	5748	6700	6700	6700
E	Overall height†:				
	standard roof	2505	–	–	–
	high roof	2735	2730	2750	2610
F	Overall width	1933	1933	1988	1988
Access dimensions					
G	Rear door entry height	655	650	690	690
H	Rear door aperture height:				
	standard roof	1540	–	–	–
	high roof	1775	1775	1775	1775
I	Rear door aperture width	1552	1552	1552	1552
J	Sliding door aperture height	1520	1520	1520	1520
K	Sliding door aperture width	1045	1045	1045	1045
Saloon space dimensions					
L	Saloon length	3265	4215	4215	4215
M	Maximum saloon width	1736	1736	1736	1736
N	Interior height:				
	standard roof	1633	–	–	–
	high roof	1855	1855	1855	1855
O	Width between wheel boxes	1270	1270	1022	1022



* Includes rear step which is optional on Mobility. Deduct 110mm if not required.

† Includes saloon ventilator on Traveliner models. Deduct 140mm if not required.

All dimensions are in unladen state.

WEIGHTS (kg)

	Traveliner								411CDI	
	TL13		TL14		TL16		TL17		411CDI	
	Front	Side	Front	Side	Front	Side	Front	Side	Bus/ Mobility	
Wheelbase (mm)	3550	3550	3550	4025	4025	4025	4025	4025	4025	
GVW	3500	3500	3500	3880	3880	3880	4600	4600	4600/4250	
Kerb weights* (kg)										
Front axle	1200	1230	1240	1220	1250	1260	1260	1290	1300	1200
Rear axle	1160	1160	1160	1380	1380	1380	1560	1560	1560	1055
Total	2360	2390	2400	2600	2630	2640	2820	2850	2860	2255
Payload*	1140	1110	1100	1280	1250	1240	1780	1750	1740	2345
Plated weights (kg)										
Front axle	1600	1600	1600	1750	1750	1750	1750	1750	1750	1750
Rear axle	2240	2240	2240	2430	2430	2430	3200	3200	3200	3200
GTW (unbraked)	4250	4250	4250	4630	4630	4630	5350	5350	5350	5350
GTW (braked)	6300	6300	6300	5600	5600	5600	6600	6600	6600	6600

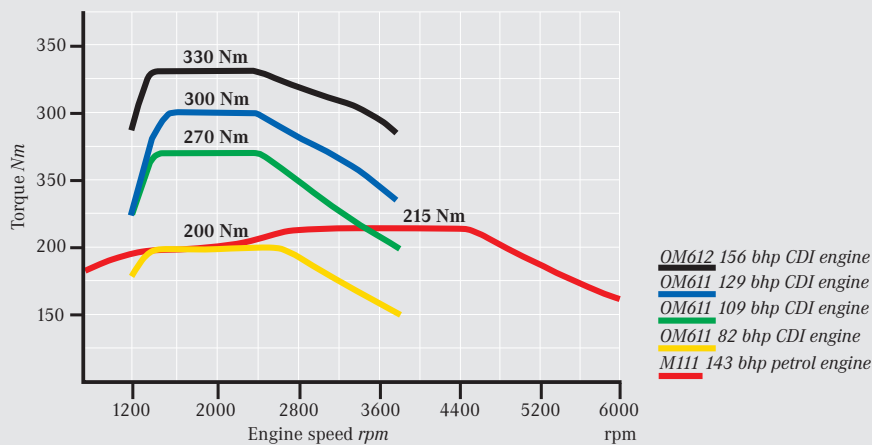
* Weights are to standard specification with full tank of fuel, spare wheel, carrier, and tools but excluding driver and passengers.

PLEASE SEE INTERIOR AND EXTERIOR FOR GENERAL INFORMATION

Engine and transmission

Engine details

	208CDI/308CDI	211CDI/311CDI 411CDI 411CDI MOBILITY & BUS TL13/TL14/TL16/TL17	213CDI/313CDI 413CDI	216CDI/316CDI 416CDI/616CDI	214/314/414
Type	Mercedes-Benz OM611 4-cylinder turbo-charged and intercooled diesel	Mercedes-Benz OM611 4-cylinder turbo-charged and intercooled diesel	Mercedes-Benz OM611 4-cylinder turbo-charged and intercooled diesel	Mercedes-Benz OM612 5-cylinder turbo-charged and intercooled diesel	Mercedes-Benz M111 E23 4-cylinder petrol
Fuel injection	Diesel common-rail direct injection	Diesel common-rail direct injection	Diesel common-rail direct injection	Diesel common-rail direct injection	Petrol HFM-motronic
Maximum power	82bhp/60kW @ 3800rpm	109bhp/80kW @ 3800rpm	129bhp/95kW @ 3800rpm	156bhp/115kW @ 3800rpm	143bhp/105kW @ 5000rpm
Maximum torque	200Nm @ 1400-2600rpm	270Nm @ 1400-2400rpm	300Nm @ 1600-2400rpm	330Nm @ 1400-2400rpm	215Nm @ 3200-4700rpm
Capacity	2148cc	2148cc	2148cc	2686cc	2295cc



Transmission details

Gearbox

Mercedes-Benz synchromesh

Clutch

Hydraulically operated self-adjusting diaphragm spring clutch. Diameter: 240mm

Axles

Front: Mercedes-Benz independent
Rear: Mercedes-Benz hypoid

Gearbox/Engine	G20-5	G32-5	G33-5	FSG-330 Sprintshift	W5A-380 Automatic
	82bhp diesel	109bhp diesel/129bhp diesel/ 156bhp diesel/143bhp petrol	616CDI only	Optional at extra cost All diesel models except 616CDI	Optional at extra cost All 156 bhp diesel models only
1st gear ratio	4.89	5.05	5.05	5.01	3.59
2nd gear ratio	2.53	2.60	2.60	2.83	2.18
3rd gear ratio	1.48	1.52	1.52	1.78	1.40
4th gear ratio	1.00	1.00	1.00	1.25	1.0
5th gear ratio	0.78	0.78	0.78	1.00	0.83
6th gear ratio	-	-	-	0.79	-
Reverse gear ratio	4.58	4.75	4.75	4.56	3.16

PLEASE SEE INDIVIDUAL VEHICLE PAGES FOR SPECIFIC INFORMATION

Axle ratios and vehicle performance

Panel Vans	2-Series						3-Series					4-Series					
	208CDI	208CDI	211CDI	213CDI	216CDI	214 Petrol	308CDI	311CDI	313CDI	316CDI	314 Petrol	411CDI	413CDI	416CDI	414 Petrol		
GVW kg	2590	2800	2800	2800	2800	2590	2800	3500	3500	3500	3500	3500	4600	4600	4600	4600	
Standard axle ratio	4.37	4.37	3.45	3.45	3.45	4.37	4.86	4.85	4.11	4.11	4.11	4.11	5.28	4.11	4.11	4.11	4.85
Maximum speed (mph)	87	87	100	100	100	100	100	78	93	93	93	100	87	87	93	100	
Maximum gradient (%)	45	42	46	51	57	59	54	37	44	49	54	44	35	39	43	33	
Re-start gradient (%)	35	32	33	35	37	38	36	28	32	33	36	33	25	26	29	24	

Chassis Cabs & Chassis Crew Cabs	2-Series				3-Series					4-Series				6-Series
	208CDI	211CDI	213CDI	216CDI	308CDI	311CDI	313CDI	316CDI	314 Petrol	411CDI	413CDI	416CDI	414 Petrol	616CDI
GVW kg	2800	2800	2800	2800	3500	3500	3500	3500	3500	4600	4600	4600	4600	5990
Standard axle ratio	4.85	3.45	3.45	3.45	5.28	4.37	4.37	4.37	5.28	4.37	4.37	4.37	5.28	5.75
Maximum speed (mph)	78	100	100	100	72	87	87	87	100	82	82	82	100	73
Maximum gradient (%)	46	46	51	57	40	41	41	45	44	38	42	46	36	41
Re-start gradient (%)	36	33	35	37	31	27	27	30	33	27	28	30	27	27

Passenger Carrying Variants	Traveliner Minibus						411CDI	
	TL13	TL14	TL16	TL17	TL16	TL17	411CDI Mobility	411CDI Bus
GVW kg	3500	3500	3880	3880	4600	4600	4250	4600
Standard axle ratio	4.37	4.37	4.37	4.37	4.11	4.11	4.85	4.37
Maximum speed (mph)	87	87	87	87	87	87	74	82
Maximum gradient (%)	47	47	43	43	35	35	42	38
Re-start gradient (%)	34	34	31	31	25	25	30	27

4x4 Models

Sprinter 4x4 models vary from standard versions in the areas shown below:

	3-Series	4-Series
Dimensions		
Ride height – front	Increases by 110mm	Increases by 110mm
Ride height – rear	Increases by 80mm	Increases by 55mm
Weights		
Kerb weight – total	Increases by 150kg	Increases by 150kg
Plated weight – front axle	Increases to 1750kg	Increases to 1800kg
Steering		
Turning circle – 3m wheelbase wall to wall	Increases to 13.1m	Increases to 13.1m
Turning circle 3.5m wheelbase wall to wall	Increases to 15.1m	Increases to 15.1m
Turning circle 4m wheelbase wall to wall	Increases to 16.8m	Increases to 16.8m
Fuel tank		
Capacity	Increases to 90 litres	Increases to 90 litres

PLEASE SEE INDIVIDUAL VEHICLE PAGES FOR SPECIFIC INFORMATION

Interior

These interior features are common to all models unless otherwise stated

Trim	<ul style="list-style-type: none"> Hard-wearing cloth seats Door-mounted arm rests Passenger grab handle Moulded ergonomic facia Padded steering wheel with impact-resistant centre Cab headlining 	Warning lights	<ul style="list-style-type: none"> ABS/ASR warning lights Battery charging indicator Brake pad wear Direction indicators Engine heater booster (diesel only) Hazard lights Low brake fluid level Low engine oil Low windscreen washer fluid level Main beam/flasher Parking brake Rear fog lamp
Seating	<ul style="list-style-type: none"> Driver's 4-way adjustable seat with head restraint Three-point inertia reel seat belts to front seats (height-adjustable on outer seats) 	Visibility	<ul style="list-style-type: none"> Deep opening side windows with manual winders and fixed quarterlights Laminated windscreen Two large exterior rear-view mirrors Two sunvisors plus shaded windscreen centre
Refinements	<ul style="list-style-type: none"> Ashtray with cup holder Cab interior lighting including map-reading light Cigarette lighter Stereo radio cassette with two speakers 	Stowage	<ul style="list-style-type: none"> Deep and wide door pockets plus full-width opening lower panel in both doors Lockable glovebox with hinged drop-lid providing cup holders Tool kit under floor in passenger footwell recess Two coat hooks on internal 'B' pillars
Controls	<ul style="list-style-type: none"> Hazard warning lights Heater and demister with multiple outlets Horn in centre of steering wheel Key start with steering lock and transponder engine immobiliser (Thatcham Category 2) Left-hand stalk for indicators, lights, main beam, headlamp flasher and parking lights Right-hand stalk for two-speed wipers, intermittent wipe and wash/wipe Recirculating air switch and four-speed fan with directional air flow switch 		
Instruments	<ul style="list-style-type: none"> ASSYST – flexible servicing system Coolant temperature gauge Digital clock (in multi-function display) Digital odometer with trip counter (in multi-function display) Fuel gauge Rev counter Speedometer 		

PLEASE SEE INDIVIDUAL VEHICLE PAGES FOR SPECIFIC INFORMATION

Additional interior features

	Van	Chassis Cab	Chassis Crew Cab	Bus/Mobility Variant	TL13 Front Entry	TL13 Side Entry	TL14 Side Entry	TL16 Front Entry	TL16 Side Entry	TL17 Side Entry
Dual passenger seat with head restraints	●	●	●	-	-	-	●	-	-	●
Rear door windows	○	-	-	●	●	●	●	●	●	●
Rear view mirror	○	●	●	●	●	●	●	●	●	●
Rear cab window	-	●	●	-	-	-	-	-	-	-
Tachograph (standard on models over 3,500kg GVW only)	●	●	●	○	○	○	○	○	○	○
Rear bench seat for four passengers fitted with two three point lap and diagonal seat belts (outer seats) and two lap only seat belts (inner seats)	-	-	●	-	-	-	-	-	-	-
Windows in crew area of cab	-	-	●	-	-	-	-	-	-	-
Windows in passenger saloon sides and rear doors	-	-	-	●	●	●	●	●	●	●
Fire extinguisher	○	○	○	○	●	●	●	●	●	●
First aid kit	○	○	○	○	●	●	●	●	●	●
Highback passenger seats with 3-point seat belts	-	-	-	-	●	●	●	●	●	●

● standard equipment

○ optional equipment

- not available

PLEASE SEE INDIVIDUAL VEHICLE PAGES FOR SPECIFIC INFORMATION

Exterior

These exterior features are common to all models unless otherwise stated

Wheels and tyres		Suspension	
2 & 3-Series & Traveliner		Front axle	Fully independent strut with transverse leaf spring, shock absorbers and stabiliser
Wheels	6J x 15	Rear axle	Parabolic leaf springs, shock absorbers and stabiliser
Tyres	225/70R 15		
4-Series		Steering	
Wheels	6J x 15	Type	Power-assisted rack and pinion
Tyres	195/70R 15	Turning circle:	
		3m wheelbase	Kerb to kerb – 10.23m Wall to wall – 11.16m
616CDI		3.5m wheelbase	Kerb to kerb – 11.89m Wall to wall – 12.82m
Wheels	6J x 16	4m wheelbase	Kerb to kerb – 13.31m Wall to wall – 14.24m
Tyres	205/75R 16		
2- & 3-Series	Single rear wheels		
4- & 6-Series	Twin rear wheels		
Spare wheel	Mounted on carrier under rear of body		
Brakes		Fuel tank	
Front/Rear	Floating caliper discs all round with pad wear warning	Capacity	75-litre plastic tank 100-litre plastic tank (616CDI only) Filler on left 'B' pillar (secured behind hinged panel)
Service	Dual circuit hydraulic system ABS and ASR on all models ESP on all van models up to 3500kg GVW (except 4x4 versions, or vehicles with differential lock), and on all Traveliner models (except 4600kg GVW versions) Load-dependent brake regulation		
Parking 2-, 3- & 4-Series	Ratchet-operated, floor-mounted parking brake operating on rear axle	Electrical System	
Parking 6-Series	Air-assisted, spring-operated parking brake with release fitted to driver's seat box operating on rear axle	Voltage	12 volt
		Battery	88Ah
		Alternator	14 volt /90 amp
		Road lights	Halogen headlamps Headlamp levelling Indicator side repeaters Rear fog lamp Reversing lights Third brake light (Traveliner only) Sited in steering column housing
		Fuse box	

PLEASE SEE INDIVIDUAL VEHICLE PAGES FOR SPECIFIC INFORMATION

Body – These exterior features are common to all models unless otherwise stated

Construction	All steel integral body/cab Emergency towing eye front Chassis frame with welded top-hat section longitudinals and cross-members (Chassis Cab models) Body mounting brackets (Chassis Cab models) Wide opening door to crew area on Chassis Crew Cab (right side only)	Bus/Mobility Passenger area Glazing Floor Rear access Lighting	Fixed windows to side and rear Wooden floor with bonded resin non-slip finish Flat-topped wheel arches Full-height lockable rear doors with stop at 90° Full opening at 270° Full-width rear step (option on mobility models) Grab handle on right-hand door pillar Interior passenger area lighting switched independently or activated by nearside or rear loading doors
Access Service access	Wide opening driver and passenger doors Internally released hinged bonnet for access to: Air filter with condition indicator Battery Clutch/brake fluid Engine coolant Engine oil dipstick/filler cap Power steering reservoir Water filter for diesel system Windscreen washer reservoir	Traveliner Passenger area Glazing Floor Side access Rear access Lighting	Fixed windows to side and rear Vinyl washable Nearside lockable sliding side door with internal access step (TL13/TL14/TL16/TL17 side entry only) Full-height lockable rear doors with stop at 90° Full opening to 180° Full-width rear step Grab handle on right-hand door pillar Interior passenger area lighting switched independently or activated by nearside or rear doors. Low intensity light function in passenger saloon
Protection and finish Paint Cavities Underbody Entry steps Bumpers	Phosphate treatment, primer and gloss paint finish Below waist rails are coated with wax protection Underfloor and chassis are waxed Underbody and wheel arches are undersealed with PVC and rust inhibitor Plastic covered Front and rear bumpers moulded in damage-resistant, impact-absorbing plastic (front only on Sprinter chassis cab models)		
Vans – Load area Floor Side access Rear access Load restraint Lighting	Wooden floor with bonded resin non-slip finish. Flat-topped wheel arches Nearside lockable sliding side load door with internal access step Full-height lockable rear doors with stop at 90° and 180° Full opening to 270° – 3.5/4.0m wheelbase only Grab handle on right-hand door pillar Steel frame for a range of bulkhead installations Load lashing rings on body sides just above floor level Interior load area lighting switched from dashboard or activated by nearside or rear loading doors		

Glossary

ABS – ‘Anti-lock Braking System’	– ABS regulates the brake pressure to ensure that the wheels do not lock when you apply the brakes.
ASR – ‘Acceleration Skid Control’	– ASR works in the same way as ABS in that it detects and avoids wheel slip. The only difference is that it detects slip when the wheel is driving rather than braking and that instead of reducing the braking as in ABS, ASR reduces the engine torque.
ESP – ‘Electronic Stability Program’	– ESP and ASR stabilises the vehicle by braking individual wheels and limiting the engine power output.
GVW – ‘Gross Vehicle Weight’	– The maximum allowable weight of a laden vehicle.
GTW – ‘Gross Train Weight’	– The maximum allowable weight of a laden vehicle and trailer combination. Shown for both ‘unbraked’ and ‘braked’ trailers in the specification pages.
Wheelbase	– The dimensions from centre of front wheel to centre of rear wheel.
CDI – ‘Common-rail Direct Injection’	– Fuel injection system used on Mercedes-Benz Sprinter diesel engines.

Please refer to the latest edition of the Mercedes-Benz Vito, Sprinter and Vario Recommended Price List for availability and prices of optional equipment. The right is reserved to alter specification or equipment without notice. All specifications refer to UK sourced products only. All weights and dimensions quoted are approximate and subject to normal manufacturing tolerances of $\pm 5\%$.

The illustrations may show accessories and items of optional equipment which are not part of the standard specification. Colours may differ slightly from those shown, owing to the limitations of the printing process. For more information please contact your Mercedes-Benz van dealer or visit our website:

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