

smart fortwo:

Technical data

	smart fortwo 37 kW	smart fortwo 45 kW / smart fortwo cabrio 45 kW
Engine		
Type	petrol engine	petrol engine
Number of cylinders/configuration	three in-line	three in-line
Valves	two per cylinder	two per cylinder
Engine capacity (cc)	698	698
Bore x stroke (mm)	66.5 x 67	66.5 x 67
Rated output (kW)	37 at 5,250 rpm	45 at 5,250 rpm
Max. torque (Nm)	80 at 1,800 - 4,000 rpm	95 from 2,000 - 4,000 rpm
Compression ratio	9.0 : 1	9.0 : 1
Fuel delivery	electr. multipoint injection with electronic accelerator	electr. multipoint injection with electronic accelerator
Power transmission		
Clutch	single-plate dry clutch	single-plate dry clutch
Transmission	sequential automated six-speed transmission	sequential automated six-speed transmission
Ratios		
Final drive	3,920 / 1,551	3,920 / 1,551
1st gear	13,230	13,230
2nd gear	9,604	9,604
3rd gear	6,899	6,899
4th gear	5,235	5,235
5th gear	3,800	3,800
6th gear	2,730	2,730
Reverse	12,005	12,005
Running gear		
Front axle	wishbone, McPherson strut, anti-roll bar	wishbone, McPherson strut, anti-roll bar
Rear axle	DeDion axle tube with central mount, wishbone, coil springs, telescopic shock absorbers, anti-roll bar	DeDion axle tube with central mount, wishbone, coil springs, telescopic shock absorbers, anti-roll bar
Brake system	hydr. dual circuit system with vacuum booster, disc brakes at front, drum brakes at rear, electronic stability programme esp (incl. abs and brake-force distribution ebd), brake assist	hydr. dual circuit system with vacuum booster, disc brakes at front, drum brakes at rear, electronic stability programme esp (incl. abs and brake-force distribution ebd), brake assist
Steering	rack-and-pinion steering, steering damper	rack-and-pinion steering, steering damper

	smart fortwo 37 kW	smart fortwo 45 kW / smart fortwo cabrio 45 kW
Wheels front/rear	4 J x 15 / 5.5 J x 15	4 J x 15 / 5.5 J x 15
Tyres front/rear	145/65 R 15 / 175/55 R 15	145/65 R 15 / 175/55 R 15
Dimensions and weights		
Wheelbase (mm)	1,812	1,812
Track width front (mm)	1,272	1,272
Track width rear (mm)	1,354	1,354
Length (mm)	2,500	2,500
Width (mm)	1,515	1,515
Height (mm)	1,549	1,549
Turning circle (m)	8.8	8.8
Luggage compartment capacity	150 to waistline/ 260 to roof	150 to waistline/ 260 to roof
Weight without driver (kg)	730	730 (fortwo cabrio 740)
Payload (kg)	260	260 (fortwo cabrio 250)
Permissible total weight (kg)	990	990
Fuel tank capacity/ reserve (l)	33/5	33/5
Performance		
Acceleration 0 – 100 km/h (s)	18.3	15.5
Maximum speed	135 km/h	135 km/h
Fuel consumption (l/100 km)/Euro-premium		
urban cycle	6.0 (softip)	6.0 (softip)
extra-urban cycle	4.0 (softip)	4.0 (softip)
combined cycle	4.7 (softip)	4.7 (softip)
CO ₂ emissions (g/km)	113 (softip)	113 (softip)
Emission class	EU4	EU4

smart fortwo.

Technical data

	smart fortwo coupe cdi / smart fortwo cabrio cdi	smart fortwo coupé BRABUS / smart fortwo cabrio BRABUS
Engine		
Type	diesel	petrol engine
Number of cylinders/configuration	three in-line	three in-line
Valves	two per cylinder	two per cylinder
Engine capacity (cc)	799	698
Bore x stroke (mm)	65.5 x 79.0	66.5 x 67
Rated output (kW)	30 at 4,200 rpm	55 at 5,250 rpm
Max. torque (Nm)	100 at 1,800 – 2,800 rpm	110 from 2,500 – 4,500 rpm
Compression ratio	18.5 : 1	9.0 : 1
Fuel delivery	common-rail direct injection	electr. multipoint injection with electronic accelerator
Power transmission		
Clutch	single-plate dry clutch	single-plate dry clutch
Transmission	sequential automated six-speed transmission	sequential automated six-speed transmission
Ratios		
Final drive	3,667 / 1,353	3,920 / 1,717
1st gear	12,375	13,250
2nd gear	8,983	9,604
3rd gear	6,453	7,370
4th gear	4,566	5,796
5th gear	3,315	4,208
6th gear	2,381	3,220
Reverse	11,569	12,005
Running gear		
Front axle	wishbone, McPherson strut, anti-roll bar	wishbone, McPherson strut, anti-roll bar
Rear axle	DeDion axle tube with central mount, wishbone, coil springs, telescopic shock absorbers, anti-roll bar	DeDion axle tube with central mount, wishbone, coil springs, telescopic shock absorbers, anti-roll bar
Brake system	hydr. dual circuit system with vacuum booster, disc brakes at front, drum brakes at rear, electronic stability programme esp (incl. abs and brake-force distribution ebd), brake assist	hydr. dual circuit system with vacuum booster, disc brakes at front, drum brakes at rear, electronic stability programme esp (incl. abs and brake-force distribution ebd), brake assist
Steering	rack-and-pinion steering, steering damper	rack-and-pinion steering, steering damper

	smart fortwo cdi / smart fortwo cabrio cdi	smart fortwo coupé BRABUS / smart fortwo cabrio BRABUS
Wheels front/rear	4 J x 15 / 5.5 J x 15	5.5 J x 16 / 6.5 J x 16
Tyres front/rear	145/65 R 15 / 175/55 R 15	175/50 R 16 / 205/45 R 16
Dimensions and weights		
Wheelbase (mm)	1,812	1,812
Track width front (mm)	1,276	1,282
Track width rear (mm)	1,354	1,354
Length (mm)	2,500	2,500
Width (mm)	1,515 (fortwo cabrio 1,537)	1,515 (cabrio BRABUS 1,537)
Height (mm)	1,549	1,549
Turning circle (m)	8.8	8.8
Luggage compartment capacity	150 to waistline/ 260 to roof	150 to waistline/ 260 to roof
Weight without driver (kg)	730 (fortwo cabrio 740)	730 (cabrio BRABUS 740)
Payload (kg)	260 (fortwo cabrio 250)	260 (cabrio BRABUS 250)
Permissible total weight (kg)	990	990
Fuel tank capacity/ reserve (l)	22/5	33/5
Performance		
Acceleration 0 – 100 km/h (s)	19.8 (softip)	12.3
Maximum speed	135 km/h	150 km/h
Fuel consumption (l/100 km)/Euro-premium		
urban cycle	3.9 (softip)	6.5 (softip)
extra-urban cycle	3.1 (softip)	4.6 (softip)
combined cycle	3.4 (softip)	5.3 (softip)
CO ₂ emissions (g/km)	90	127
Emission class	EU3	EU4