

smart forfour:

## Technical data

	<b>smart forfour 47 kW</b>
<b>Engine</b>	
Type	petrol engine
Number of cylinders/configuration	three in-line
Valves	four per cylinder
Engine capacity (cc)	1124
Bore x stroke (mm)	75 x 84.8
Rated output (kW/bhp)	47/64 at 5,500 rpm
Max. torque (Nm)	92 at 2,500 rpm
Compression ratio	10.5
Fuel delivery	MPI
<b>Power transmission</b>	
Clutch	single-plate dry clutch
Transmission	manual five-speed transmission (MT)
Ratios	
Final drive	4,353
1st gear	14,389
2nd gear	8,327
3rd gear	5,476
4th gear	4,104
5th gear	3,322
Reverse	14,063
<b>Running gear</b>	
Front axle	wishbone, McPherson strut, anti-roll bar
Rear axle	twist beam axle, coil springs, telescopic shock absorbers
Brake system	hydr. dual circuit system with vacuum booster, disc brakes at front
Steering	rack-and-pinion steering, electr. power steering eps
Wheels front/rear	5.5 x 14
Tyres front/rear	175/65 R 14

	<b>smart forfour 47 kW</b>
<b>Dimensions and weights</b>	
Wheelbase (mm)	2,500
Track width front (mm)	1,460
Track width rear (mm)	1,445
Length (mm)	3,752
Width (mm)	1,684
Height (mm)	1,450
Turning circle (m)	10.5
Luggage compartment capacity	268 - 910
Weight without driver (kg)	965
Payload (kg)	485
Permissible total weight (kg)	1,450
Roof load (kg)	50
Fuel tank capacity/reserve (l)	47/5
<b>Performance</b>	
Acceleration 0 – 100 km/h (s)	15.3
Maximum speed	158 km/h
<b>Fuel consumption (l/100 km)/Euro-premium</b>	
urban cycle	6.9
extra-urban cycle	4.5
combined cycle	5.4
CO <sub>2</sub> emissions (g/km)	128
Emission class	EU4

smart forfour:

## Technical data

	<b>smart forfour 1.1l (55 kW)</b>	<b>smart forfour 1.3l (70 kW)</b>
<b>Engine</b>		
Type	petrol engine	petrol engine
Number of cylinders/configuration	three in-line	four in-line
Valves	four per cylinder	four per cylinder
Engine capacity (cc)	1124	1332
Bore x stroke (mm)	75 x 84.8	75 x 75.4
Rated output (kW)	55 at 6,000 rpm	70 at 6,000 rpm
Max. torque (Nm)	100 at 3,500 rpm	125 at 4,000 rpm
Compression ratio	10.5	10.5
Fuel delivery	MPI	MPI
<b>Power transmission</b>		
Clutch	single-plate dry clutch	single-plate dry clutch
Transmission	manual five-speed transmission (MT) or sequential automated six-speed transmission softouch plus (AMT)	manual five-speed transmission (MT) or sequential automated six-speed transmission softouch plus (AMT)
Ratios		
Final drive	4,353 (MT) / 4,529 (AMT)	4,158 (MT) / 4,529 (AMT)
1st gear	14,398 / 13,912	13,753 / 13,912
2nd gear	8,327 / 8,665	7,954 / 8,665
3rd gear	5,476 / 5,698	5,231 / 5,698
4th gear	4,104 / 4,271	3,920 / 4,271
5th gear	3,322 / 3,457	3,173 / 3,457
6th gear	---- / 2,912	---- / 2,912
Reverse	14,063 / 14,633	13,433 / 14,633
<b>Running gear</b>		
Front axle	wishbone, McPherson strut, anti-roll bar	wishbone, McPherson strut, anti-roll bar
Rear axle	twist beam axle, coil springs, telescopic shock absorbers	twist beam axle, coil springs, telescopic shock absorbers
Brake system	hydr. dual circuit system with vacuum booster, disc brakes at front and rear, electronic stability programme esp (incl. abs and ebd)	hydr. dual circuit system with vacuum booster, disc brakes at front and rear, electronic stability programme esp (incl. abs and ebd)
Steering	rack-and-pinion steering, electr. power steering eps	rack-and-pinion steering, electr. power steering eps

	<b>smart forfour 1.1l (55kW)</b>	<b>smart forfour 1.3l (70kW)</b>
Wheels front/rear	5.5 x 14 (pure) / 6 x 15 (pulse/passion)	5.5 x 14 (pure) / 6 x 15 (pulse/passion)
Tyres front/rear	175/65 R 14 (pure) / 195/50 R 15 (pulse/passion)	175/65 R 14 (pure) / 195/50 R 15 (pulse/passion)
<b>Dimensions and weights</b>		
Wheelbase (mm)	2,500	2,500
Track width front (mm)	1,460	1,460
Track width rear (mm)	1,445	1,445
Length (mm)	3,752	3,752
Width (mm)	1,684	1,684
Height (mm)	1,450	1,450
Turning circle (m)	10.5	10.5
Luggage compartment capacity	268 - 910	268 - 910
Weight without driver (kg)	965 (MT) / 970 (AMT)	970 (MT) / 975 (AMT)
Payload (kg)	485	485
Permissible total weight (kg)	1,450 (MT) / 1,455 (AMT)	1,455 (MT) / 1,460 (AMT)
Roof load (kg)	50	50
Permitted towed weight without brakes (kg)	500	500
Permitted towed weight with brakes (kg)	750	750
Fuel tank capacity/reserve (l)	47/5	47/5
<b>Performance</b>		
Acceleration 0 – 100 km/h (s)	13.4	10.8
Maximum speed	165 km/h	180 km/h
<b>Fuel consumption (l/100 km)/Euro-premium</b>		
urban cycle	7.0 (MT) / 6.8 (AMT)	7.4 (MT) / 7.3 (AMT)
extra-urban cycle	4.6 (MT) / 4.4 (AMT)	4.8(MT) / 4.6 (AMT)
combined cycle	5.5 (MT) / 5.3 (AMT)	5.8 (MT) / 5.6 (AMT)
CO <sub>2</sub> emissions (g/km)	130 (MT) / 125 (AMT)	138 (MT) / 133 (AMT)
Emission class	EU4	EU4

smart forfour:

## Technical data

	<b>smart forfour 1.5l (80 kW)</b>	<b>smart forfour BRABUS</b>
<b>Engine</b>		
Type	petrol engine	petrol engine with turbo charger
Number of cylinders/configuration	four in-line	four in-line
Valves	four per cylinder	four per cylinder
Engine capacity (cc)	1,499	1,468
Bore x stroke (mm)	75 x 84.8	75.5 x 82
Rated output (kW/bhp)	80/109 at 6,000 rpm	130/177 at 6,000 rpm
Max. torque (Nm)	145 at 4,000 rpm	230 at 3,500 rpm
Compression ratio	10.5	9.0
Fuel delivery	MPI	MPI
<b>Power transmission</b>		
Clutch	single-plate dry clutch	single-plate dry clutch
Transmission	manual five-speed transmission (MT) or sequential automated six-speed transmission softouch plus (AMT)	manual five-speed transmission
Ratios		
Final drive	4,158 (MT) / 4,529 (AMT)	3,737
1st gear	13,753 / 13,912	13,222
2nd gear	7,954 / 8,665	7,149
3rd gear	5,231 / 5,698	5,023
4th gear	3,920 / 4,271	3,838
5th gear	3,173 / 3,457	3,114
6th gear	--- / 2,912	---
Reverse	13,433 / 14,633	12,545
<b>Running gear</b>		
Front axle	wishbone, McPherson strut, anti-roll bar	wishbone, McPherson strut, anti-roll bar
Rear axle	twist beam axle, coil springs, telescopic shock absorbers	twist beam axle, coil springs, telescopic shock absorbers
Brake system	hydr. dual circuit system with vacuum booster, disc brakes at front and rear, electronic stability programme esp (incl. abs and ebd)	hydr. dual circuit system with vacuum booster, disc brakes at front and rear, electronic stability programme esp (incl. abs and ebd)
Steering	rack-and-pinion steering, electr. power steering eps	rack-and-pinion steering, electr. power steering eps

	<b>smart forfour 1.5l (80 kW)</b>	<b>smart forfour BRABUS</b>
Wheels front/rear	6J x 15 / 6J x 15	7J x 17 8J x 17
Tyres front/rear	195/50 R 15 / 195/50 R 15	205/40 R 17 225/35 R 17
<b>Dimensions and weights</b>		
Wheelbase (mm)	2,500	2,500
Track width front (mm)	1,460	1,456
Track width rear (mm)	1,445	1,441
Length (mm)	3,752	3,752
Width (mm)	1,684	1,684
Height (mm)	1,450	1,450
Turning circle (m)	10.5	11.0
Luggage compartment capacity	268 - 910	268 - 910
Weight without driver (kg)	975 (MT) / 980 (AMT)	1,090
Payload (kg)	485 (MT) / 480 (AMT)	480
Permissible total weight (kg)	1,460	1,570
Roof load (kg)	50	50
Permitted towed weight without brakes (kg)	500	---
Permitted towed weight with brakes (kg)	750	---
Fuel tank capacity/reserve (l)	47/5	47/5
<b>Performance</b>		
Acceleration 0 – 100 km/h (s)	9.8	6.9
Maximum speed	190 km/h	221 km/h
<b>Fuel consumption (l/100 km)/Euro-premium</b>		
urban cycle	7.6* / 7.8 (MT) / 7.6 (AMT)	8.9
extra-urban cycle	4.9* / 5.1 (MT) / 4.9 (AMT)	5.6
combined cycle	5.9* / 6.1 (MT) / 5.9 (AMT)	6.8
CO <sub>2</sub> emissions (g/km)	140* / 145 (MT) / 138 (AMT)	159
Emission class	EU4	EU4

\* Consumption and emission figures with tyre size 175/65 R 14 (available as an accessory)

smart forfour:

## Technical data

	<b>smart forfour 1.5l cdi (50 kW)</b>	<b>smart forfour 1.5l cdi (70 kW)</b>
<b>Engine</b>		
Type	Diesel	Diesel
Number of cylinders/configuration	three in-line	three in-line
Valves	four per cylinder	four per cylinder
Engine capacity (cc)	1,493	1,493
Bore x stroke (mm)	83 x 92	83 x 92
Rated output (kW)	50 at 4,000 rpm	70 at 4,000 rpm
Max. torque (Nm)	160 at 1,600 rpm	210 at 1,800 rpm
Compression ratio	18.0	18.0
Fuel delivery	common rail direct injection	common rail direct injection
<b>Power transmission</b>		
Clutch	single-plate dry clutch	single-plate dry clutch
Transmission	manual five-speed transmission (MT) or sequential automated six-speed transmission softouch plus (AMT)	manual five-speed transmission (MT) or sequential automated six-speed transmission softouch plus (AMT)
Ratios		
Final drive	3,737 (MT) / 3,737 (AMT)	3,737 (MT) / 3,737 (AMT)
1st gear	12,360 / 12,360	12,360 / 12,360
2nd gear	7,149 / 7,149	7,149 / 7,149
3rd gear	4,554 / 4,554	4,554 / 4,554
4th gear	3,162 / 3,162	3,162 / 3,162
5th gear	2,433 / 2,433	2,433 / 2,433
6th gear	---- / 2,031	---- / 2,031
Reverse	12,545 / 12,545	12,545 / 12,545
<b>Running gear</b>		
Front axle	wishbone, McPherson strut, anti-roll bar	wishbone, McPherson strut, anti-roll bar
Rear axle	twist beam axle, coil springs, telescopic shock absorbers	twist beam axle, coil springs, telescopic shock absorbers
Brake system	hydr. dual circuit system with vacuum booster, disc brakes at front and rear, electronic stability programme esp (incl. abs and ebd)	hydr. dual circuit system with vacuum booster, disc brakes at front and rear, electronic stability programme esp (incl. abs and ebd)
Steering	rack-and-pinion steering, electr. power steering eps	rack-and-pinion steering, electr. power steering eps

	<b>smart forfour 1.5l cdi (50kW)</b>	<b>smart forfour 1.5l cdi (70kW)</b>
Wheels front/rear	5.5 x 14 (pure) / 6 x 15 (pulse/passion)	5.5 x 14 (pure) / 6 x 15 (pulse/passion)
Tyres front/rear	175/65 R 14 (pure) / 195/50 R 15 (pulse/passion)	175/65 R 14 (pure) / 195/50 R 15 (pulse/passion)
<b>Dimensions and weights</b>		
Wheelbase (mm)	2,500	2,500
Track width front (mm)	1,460	1,460
Track width rear (mm)	1,445	1,445
Length (mm)	3,752	3,752
Width (mm)	1,684	1,684
Height (mm)	1,450	1,450
Turning circle (m)	10.5	10.5
Luggage compartment capacity	268 - 910	268 - 910
Weight without driver (kg)	1,085 / 1,090	1,085 / 1,090
Payload (kg)	480	480
Permissible total weight (kg)	1,565 / 1,570	1,565 / 1,570
Roof load (kg)	50	50
Permitted towed weight without brakes (kg)	500	500
Permitted towed weight with brakes (kg)	750	750
Fuel tank capacity/reserve (l)	47/5	47/5
<b>Performance</b>		
Acceleration 0 – 100 km/h (s)	13.9	10.5
Maximum speed	160 km/h	180 km/h
<b>Fuel consumption (l/100 km)/Euro-premium</b>		
urban cycle	5.9 (MT) / 5.5 (AMT)	5.9 (MT) / 5.5 (AMT)
extra-urban cycle	3.9 (MT) / 3.8 (AMT)	3.9 (MT) / 3.8 (AMT)
combined cycle	4.6 (MT) / 4.4 (AMT)	4.6 (MT) / 4.4 (AMT)
CO <sub>2</sub> emissions (g/km)	122	122
Emission class	EU4	EU4