

smart fortwo:

## Technical data

|                                   | smart fortwo 37 kW                                                                                                                                                                      | smart fortwo 45 kW /<br>smart fortwo cabrio 45 kW                                                                                                                                       |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engine</b>                     |                                                                                                                                                                                         |                                                                                                                                                                                         |
| 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                                                                                                                                |
| <b>Power transmission</b>         |                                                                                                                                                                                         |                                                                                                                                                                                         |
| 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                                                                                                                                                                                  |
| <b>Running gear</b>               |                                                                                                                                                                                         |                                                                                                                                                                                         |
| 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                                                                                                                                               |

|                                                     | <b>smart fortwo 37 kW</b>        | <b>smart fortwo 45 kW /<br/>smart fortwo cabrio 45 kW</b> |
|-----------------------------------------------------|----------------------------------|-----------------------------------------------------------|
| Wheels front/rear                                   | 4 J x 15 /<br>5.5 J x 15         | 4 J x 15 /<br>5.5 J x 15                                  |
| Tyres front/rear                                    | 145/65 R 15 /<br>175/55 R 15     | 145/65 R 15 /<br>175/55 R 15                              |
| <b>Dimensions and weights</b>                       |                                  |                                                           |
| 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/<br>260 to roof | 150 to waistline/<br>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/<br>reserve (l)                  | 33/5                             | 33/5                                                      |
| <b>Performance</b>                                  |                                  |                                                           |
| Acceleration<br>0 – 100 km/h (s)                    | 18.3                             | 15.5                                                      |
| Maximum speed                                       | 135 km/h                         | 135 km/h                                                  |
| <b>Fuel consumption<br/>(l/100 km)/Euro-premium</b> |                                  |                                                           |
| 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 <sub>2</sub> emissions (g/km)                    | 113 (softip)                     | 113 (softip)                                              |
| Emission class                                      | EU4                              | EU4                                                       |

smart fortwo.

## Technical data

|                                   | <b>smart fortwo coupe cdi /<br/>smart fortwo cabrio cdi</b>                                                                                                                             | <b>smart fortwo coupé BRABUS /<br/>smart fortwo cabrio BRABUS</b>                                                                                                                       |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engine</b>                     |                                                                                                                                                                                         |                                                                                                                                                                                         |
| 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                                                                                                                                |
| <b>Power transmission</b>         |                                                                                                                                                                                         |                                                                                                                                                                                         |
| 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                                                                                                                                                                                  |
| <b>Running gear</b>               |                                                                                                                                                                                         |                                                                                                                                                                                         |
| 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                                                                                                                                               |

|                                                     | <b>smart fortwo cdi /<br/>smart fortwo cabrio cdi</b> | <b>smart fortwo coupé BRABUS /<br/>smart fortwo cabrio BRABUS</b> |
|-----------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------|
| Wheels front/rear                                   | 4 J x 15 /<br>5.5 J x 15                              | 5.5 J x 16 /<br>6.5 J x 16                                        |
| Tyres front/rear                                    | 145/65 R 15 /<br>175/55 R 15                          | 175/50 R 16 /<br>205/45 R 16                                      |
| <b>Dimensions and weights</b>                       |                                                       |                                                                   |
| 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/<br>260 to roof                      | 150 to waistline/<br>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/<br>reserve (l)                  | 22/5                                                  | 33/5                                                              |
| <b>Performance</b>                                  |                                                       |                                                                   |
| Acceleration<br>0 – 100 km/h (s)                    | 19.8 (softip)                                         | 12.3                                                              |
| Maximum speed                                       | 135 km/h                                              | 150 km/h                                                          |
| <b>Fuel consumption<br/>(l/100 km)/Euro-premium</b> |                                                       |                                                                   |
| 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 <sub>2</sub> emissions (g/km)                    | 90                                                    | 127                                                               |
| Emission class                                      | EU3                                                   | EU4                                                               |