



## **smart fortwo BRABUS and smart fortwo BRABUS Xclusive**

### **Press information**

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Short version:

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## **New smart fortwo BRABUS and BRABUS Xclusive: 30 percent more power than before with fuel consumption of just 5.2 litres**

**Stuttgart – A combination of sportiness and exclusiveness: The BRABUS models of the new smart fortwo are ready to hit the road. With a reengineered 72 kW/98 bhp three cylinder turbo engine the smart fortwo BRABUS and the smart fortwo BRABUS Xclusive continue to boast low fuel consumption of just 5.2 litres per 100 kilometres, yet they have 30 percent more power than the predecessor model. CO2 emissions stand at 124 grams per kilometre. The sporty two-seater accelerates from zero to 100 km/h in 9.9 seconds and reaches a top speed of 155 km/h. Prices in Germany range from € 16,490 to € 22,430 (ex factory) depending on the equipment line and body type.**

The sporty character of the new **smart fortwo BRABUS** is apparent at first glance. For example, it comes with bright-finish "Monoblock VI" alloy wheels with wide tyres measuring 175/50 R 16 at the front and 225/35 R 17 at the rear, wider rear wheel arches, a sports exhaust system with centrally positioned dual tailpipes in the specially styled rear apron and a body lowered by ten millimetres. The transmission and suspension also have a sporty setup. In the interior, cockpit instruments with specially designed dials, BRABUS stainless steel sports pedals and a new BRABUS leather steering wheel with shift paddles underline the exclusiveness of this model. The panoramic roof with sun blind is a standard feature. The new smart fortwo BRABUS is available in all colours.

The **smart fortwo BRABUS Xclusive** lives up to its name with additional equipment details such as H7 projection headlamps with titanium coloured surrounds, a front spoiler with enlarged air inlets, striking side skirts and a special rear apron. All body styling parts are painted in the car's exterior colour. The seats are upholstered with fine leather, heated, and feature head/thorax side airbags as standard. The leather-effect instrument panel boasts aluminium-look trim components.

Both BRABUS model variants of the new smart fortwo are available as a coupé or a cabrio.

**Three cylinder engine with turbo power: 72 kW/98 bhp and 140 Newton metres of torque** Page 3

At the heart of the new smart fortwo BRABUS is a turbo engine with electronically controlled fuel injection that has been improved in numerous details. From capacity of one litre the three-cylinder engine now develops 72 kW/98 bhp at 5500 rpm and lends the 780 kilogram two-door car remarkable agility. The weight/power ratio is just 7.95 kg/bhp – 24 percent lower than that of the previous BRABUS version.

The turbo in-line engine develops maximum torque of 140 Newton metres at 3500 rpm. The new smart fortwo BRABUS sprints from zero to 100 km/h in 9.9 seconds and reaches an electronically limited top speed of 155 km/h.

With combined fuel consumption of just 5.2 litres per 100 kilometres the two-seater is one of the most economical cars in its size and power category. Carbon dioxide emissions stand at 124 grams per kilometre.

The prices in Germany (ex factory) of the new BRABUS models at a glance:

	<b>smart fortwo BRABUS</b>	<b>smart fortwo BRABUS Xclusive</b>
<b>Coupé</b>	€ 16,490	€ 19,490
<b>Cabrio</b>	€ 19,430	€ 22,430

Long version:

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## **The new smart fortwo BRABUS: Sporty, fun and with top technology**

The new smart fortwo BRABUS heralds the second round and sixth year of the successful cooperation between smart and BRABUS, the tuning specialist from Bottrop in Germany. Once again, each partner is bringing a valuable "dowry" into the joint venture: smart the new smart fortwo with its larger body, longer wheelbase, new suspension and further improved safety; BRABUS its expertise as a worldwide renowned specialist for exclusiveness on wheels.

This congenial partnership has once again resulted in a car that is unsurpassed in terms of performance and exclusiveness in its vehicle class: the new smart fortwo BRABUS:

In fact, customers can choose between two models with the striking double B logo – the smart fortwo BRABUS or the smart fortwo BRABUS Xclusive. In addition to sportiness and exclusiveness, the BRABUS models boast a third component that is increasing in importance as a buying factor: individuality. Drivers can choose the smart BRABUS model that best suits their personal taste and lifestyle. Whereas the focus of the smart fortwo BRABUS is primarily on sportiness, in the smart fortwo BRABUS Xclusive this is supplemented by a touch of luxury.

In addition to this, both versions of the smart BRABUS are available as a coupé or a cabrio – giving smart customers even more options and allowing them to choose between the "open air" version with an electrically operated soft top or the coupé with a newly developed polycarbonate panoramic roof.

### **smart BRABUS: Sporty down to the last detail**

One look is enough to see and understand the message of the new smart fortwo BRABUS. Wide tyres measuring 175/50 R 16 (front) and 225/35 R 17 (rear), bright-finish "Monoblock IV" alloy wheels and wider rear wheel arches clearly mark the two-seater as a sporty character that is proud to flex its muscles. The BRABUS sports exhaust system with its dual tailpipe and the BRABUS sports suspension with specially configured sports shock absorbers lowering the body by ten millimetres as against the production model, add to this impression.

The interior also focuses on sportiness. The instruments, pedals and main controls bear the signature of the smart-BRABUS experts. Specifically, the speedometer, rev counter and clock are characterised by specially designed dials, the pedals attract attention with stainless steel and black rubber nubs and the gear knob and hand-brake handle are made of a high quality combination of leather and aluminium. The leather-covered three-spoke sports steering wheel has also been specially developed for the smart fortwo BRABUS.

### **BRABUS Xclusive: When only the best is good enough**

The name "Xclusive" says it all for the second model version of the new smart fortwo BRABUS. Here, sportiness is coupled with an unusually exclusive design and equipment for this vehicle class. Distinguishing features of the Xclusive include the striking front apron with an integrated spoiler and larger air inlets, the side skirts and the distinctive rear apron. All styling parts are painted in the colour of the exterior, giving the body a harmonious look in terms of colour and design.

The front headlights are a further eye-catching feature of the new smart fortwo BRABUS Xclusive. Not just because of their halogen projection technology, but also because of the titanium-coloured inner surrounds that clearly distinguish them from other headlights. Monochrome bulbs are used for the indicators and only appear yellow when the indicator flashes.

In the interior of the Xclusive passengers can enjoy the feel of the soft leather that covers the seats and the BRABUS sports steering wheel. The Brabus double B logo is embossed at the top of the leather seats. The silver leather seams are a further exclusive highlight. The seats are heated and come with head/thorax side airbags as a standard feature.

The leather-effect instrument panel and interior door trim harmonise with the leather of the seat surface in style and colour. The fine silver seams of the instrument panel, which take up a design element of the seats, are a special detail. Aluminium-look trim components frame the cockpit instruments, upgrade the tunnel trim and lend highlights to the door trim. Floor mats made of fine velour are a further standard feature.

## Engine: More turbo power coupled with even lower consumption

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Both versions of the new smart fortwo BRABUS are powered by a high-performance athletic heart. The smart-BRABUS engineers have improved the rear-mounted three-cylinder turbo engine in a number of details and have boosted the power by more than 30 percent. The engine develops 72 kW/98 bhp at 5500 rpm and this together with the maximum torque of 140 Newton metres from 3500 rpm enables quick intermediate sprints. The sporty two-seater accelerates from zero to 60 km/h in 4.1 seconds and reaches 100 km/h in 9.9 seconds. The maximum speed is electronically limited to 155 km/h.

The weight/power ratio of the 780 kilogram smart fortwo BRABUS is just 7.95 kg/bhp – 24 percent lower than that of the predecessor model.

A look at the consumption and emission figures of the new two-seater BRABUS shows that environmental compatibility and economy on the one hand, and sporty driving fun on the other hand, are not a contradiction in terms. Despite the clear power increase of more than 30 percent as against the predecessor model, the consumption of the smart fortwo BRABUS is still around the five litre mark: The overall consumption in accordance with NEDC is just 5.2 litres per 100 kilometres. The CO<sub>2</sub> emissions are equally exemplary at 124 grams per kilometre. The most important engine and performance data of the new smart fortwo BRABUS at a glance:

<b>Engine capacity</b>	999 cc
<b>Rated output</b>	72 kW/98 bhp at 5500 rpm
<b>Maximum torque</b>	140 Nm at 3500 rpm
<b>0-60 km/h</b>	4.1 s
<b>0-100 km/h</b>	9.9 s
<b>Maximum speed</b>	155 km/h (electronically limited)
<b>Fuel consumption*</b>	5.2 l/100 km
<b>CO<sub>2</sub> emissions</b>	124 g/km

\*NEDC overall consumption

The new engine controller is largely responsible for the spontaneous power development coupled with low energy consumption. The maps controlling ignition, fuel injection and turbocharger are stored in its electronic memory. This enables the three-cylinder engine to fall back on the most suitable data in every driving situation and to precisely regulate the injection quantity, injection timing and charge pressure. The maximum charge pressure of 443 millibars is reached at 3500 rpm.

### **Transmission: Shifting times reduced by up to 20 percent**

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As before, the smart fortwo BRABUS features an automated manual transmission that drivers can comfortably operate with shift paddles on the steering wheel. A specially developed transmission controller enables even faster gear shifting than with the other engine versions of the smart fortwo; the shifting times in gears 1 to 4 are reduced by approximately 20 percent – a further important contribution to dynamic driving pleasure.

The clutch is opened and closed by an electric motor which means that there is no clutch pedal in the new smart fortwo BRABUS. A kick-down function that is activated with the accelerator makes quick intermediate sprints possible. This enables the driver to spontaneously change down by one or two gears and to make even better use of the engine's low-speed torque.

The gearbox modified by smart-BRABUS differs from the standard transmission on account of the shorter ratios of the first and fifth gears. This is manifested in better acceleration and elasticity. For reliable transmission of the higher torque the transmission has been strengthened at various points – for example the transmission shafts and the toothed gear root – with complex surface treatment. The clutch has a diameter of 200 millimetres and has a stiffer torsional spring than the smart fortwo with a 62 kW/84 bhp engine. The final drive and gear ratios of the smart fortwo BRABUS at a glance:

<b>Final drive ratio</b>	4.529
<b>1st gear</b>	3.308
<b>2nd gear</b>	1.913
<b>3rd gear</b>	1.258
<b>4th gear</b>	0.943
<b>5th gear</b>	0.763
<b>Reverse</b>	3.231

### **Suspension: Sports shock absorbers for agile handling**

Like the transmission, the suspension has been adjusted to the agile character and higher performance of the new smart fortwo BRABUS. In line with the sporty character, gas-filled sports shock absorbers with special characteristics and coil springs with specially configured spring rates are fitted that lower the body by ten millimetres.

The wheelbase of 1867 millimetres that is 55 millimetres longer than that of the predecessor model and the wider track of 1270 / 1363 millimetres guarantee high directional stability and safety in conjunction with the stiff suspension setup. The main suspension data of the new smart fortwo BRABUS at a glance:

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<b>Wheelbase</b>	1,867 mm
<b>Track width front; rear</b>	1,270 mm; 1,363 mm
<b>Tyres front;rear</b>	175/50 R 16; 225/35 R 17
<b>Wheels front;rear</b>	5.5 x 16 ET 30; 7.5 x 17 ET 33
<b>Turning circle</b>	8.75 m

Like all models of the new smart fortwo, an anti-lock braking system with electronic brake-force distribution, brake assist and an electronic stability programme (ESP®) are included in the standard spec. The dual-circuit brake system with tandem servo assistance is fitted with disc brakes on the front axle and drum brakes on the rear axle.

## Standard equipment

	BRABUS	BRABUS Xclusive
Automated manual five-speed transmission	•	•
BRABUS logo at the rear and on the fuel-filler flap	•	•
Wide tyres, front 175/50 R 16, rear 225/35 R 17	•	•
Three-spoke leather sports steering wheel	•	•
Electric windows	•	•
Tinted front headlights		•
BRABUS front apron in the body colour		•
BRABUS hand-brake handle in leather/aluminium	•	•
Head/thorax side airbags	optional	•
BRABUS rear apron in the body colour		•
Instrument panel in leather look	•	•
Air conditioning with automatic temp. control	•	•
BRABUS heated leather seats		•
BRABUS "Monoblock VI" alloy wheels	•	•
Steering wheel gearshift	•	•
Front fog lights	•	•
Panoramic roof (incl. sunblind)	•	•
BRABUS gear knob in leather/aluminium	•	•
BRABUS side skirts in the body colour		•
BRABUS sports exhaust system	•	•
BRABUS sports suspension, lowered by 10 mm	•	•
BRABUS sports pedals in stainless steel with rubber nubs	•	•
tridion safety cell in black or silver	•	•
Leather-effect interior door trim	•	•
BRABUS velour floor mats		•
BRABUS dashboard instruments	•	•

• = standard

## Technical data

### Engine

Type	Petrol engine with turbo charger
Number of cylinders/ configuration	three in-line
Valves	four per cylinder
Engine capacity (cc)	999
Bore x stroke (mm)	72 x 81.8
Rated output (kW/bhp)	72/98 at 5500 rpm
Max. torque (Nm)	140 at 3500 rpm
Fuel delivery	electr. multipoint injection

### Power transmission

Clutch	single-plate dry clutch
Transmission	automated manual five-speed transmission

### Running gear

Front axle	wishbone, McPherson strut, anti-roll bar
Rear axle	DeDion rear axle, coil springs, telescopic shock absorbers
Brake system	electronic stability programme esp with hill start assist anti-lock braking system abs with electronic brake-force distribution, acceleration skid control, electronic brake assist dual-circuit brake system with tandem servo assistance, disc brakes at front, drum brakes at rear
Steering	rack-and-pinion steering
Wheels and tyres front/rear	175/50 R 16 on 5.5 J x 16 (front), 225/35 R 17 on 7.5 J x 17 (rear)

**Dimensions and weights**

Wheelbase (mm)	1867
Track width front (mm)	1270
Track width rear (mm)	1363
Length (mm)	2727
Width (mm)	1582
Height (mm)	1532
Turning circle (m)	8.75
Luggage compartment capacity (l)	220 to waist line / 340 to roof
Weight without driver (kg)	780 (cabrio: 810)
Payload (kg)	270 (cabrio: 240)
Permissible total weight (kg)	1050
Fuel tank capacity/reserve (l)	33/5

**Performance**

Maximum speed (km/h)	155 (electronically limited)
Acceleration 0-100 km/h (s)	9.9

**Fuel consumption****(l/100 km)/Euro-premium in acc. with NEDC**

Combined cycle	5.2
Urban cycle	6.5
Extra-urban cycle	4.4
CO2 emissions (g/km)	124
Emission class	EU4