

The new BMW CE 02.

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1. Overall concept. Short version.



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The new BMW CE 02 - neither e-scooter nor e-motorcycle: The cool eParkourer for cities and urban areas.

With the new BMW CE 02, BMW Motorrad is presenting another e-vehicle for urban conurbations around two years after the CE 04 and is thus consistently pursuing its electric mobility strategy. Thanks to its electric drive, trend-setting design and innovative solutions, the eParkourer is a dynamic partner for a new kind of mobility and provides great riding fun in an urban environment.

Progressive design with new proportions and plenty of room for individualisation.

The new BMW CE 02 represents a new way of accessing BMW Motorrad. It's electric, it appeals especially to young people and it's neither an e-motorbike nor an e-scooter. It's an eParkourer. Created for the city and the urban environment. Nimble, practical, robust and reduced to the essentials in terms of design. Large wheels meet the demand for robustness and at the same time ensure riding fun on many terrains.

Black as the basic colour for the frame, wheels, front fender and triple clamp fairing at the top, and granite grey metallic matt for the engine cover offer just as exciting a contrast as the interplay of matt and high-gloss surfaces. In the special HIGHLINE version, the new CE 02 puts in an extroverted and colourful appearance. Forks anodised in gold and a tape design in combination with Petrol as a contrasting colour make the CE 02 look dynamic and future-oriented even when standing still.

Powerful drive, low weight and practice-oriented range.

Two performance variants.

Riders aged 16 can ride the new CE 02 with a maximum power output of 11 kW (15 hp). In a 4 kW (5 hp) (rated power 3.2 kW (4 hp)) version limited to 45 km/h, the new CE 02 also meets the requirements of the AM driving licence class and can be ridden in Germany, for example, from the age of 15 and by riders who have a car licence. In addition, there are further country-specific regulations. The powerful drive enables the new CE 02 in the 11 kW version to accelerate quickly at traffic lights and offers a dynamic riding experience. With a top speed of 95 km/h, progress is speedy on expressways and a range of more than 90 km (11 kW version according to WMTC) allows for extended urban adventures. Thanks to its low weight of only 132 kg (11 kW version) or 119 kg (4 kW version) and the low seat height of only 750 mm, the new CE 02 is also characterised by its playful handling characteristics.

Two riding modes "Flow" and "Surf" as standard and "Flash" as optional equipment and original BMW Motorrad accessory.

The new CE 02 comes with the "Flow" and "Surf" riding modes as standard. "Flow" offers the optimal set-up for cruising along in urban traffic, while "Surf" provides a dynamic riding experience beyond the bustling city traffic. The "Flash" driving mode is also available as a sporty and dynamic addition as part of the HIGHLINE optional equipment and as an original BMW Motorrad accessory.

External charger as standard and a quick charger as optional equipment and as an Original BMW Motorrad accessory.

The new BMW CE 02 comes as standard with an external charger with a charging power of 0.9 kW, which enables charging processes to be carried out quickly and conveniently at standard household sockets. It's even faster with the quick charger with 1.5 kW charging power, which is available in the HIGHLINE optional

equipment and as an Original BMW Motorrad accessory (11 kW version only).

Chassis with double-loop tube frame, telescopic forks, single-sided swingarm and cast light alloy wheels.

As far as the chassis is concerned the new BMW CE 02 relies on a torsionally rigid double-loop frame made of tubular steel.

Hydraulically damped telescopic forks operate at the front, while a single-sided swingarm and a directly pivoted shock absorber are used at the rear. Wide tyres are mounted on cast light alloy wheels in disc wheel design and disc brakes ensure safe deceleration at the front and rear. BMW Motorrad ABS is featured at the front.

TFT display, USB-C charging port and connectivity solutions.

In the cockpit, an easy-to-read TFT display informs the driver about riding speed, battery charge status and much more. A USB-C charging socket also allows you to supply a smartphone with power. Using the BMW Motorrad Connected app your smartphone shows you the predicted end of charging thanks to networking via Bluetooth, as on the BMW CE 04. In the HIGHLINE variant, the cradle mode allows the BMW Motorrad app in the smartphone (held in a smartphone holder) to be controlled safely as an additional display using the keypad on the handlebar. It is also possible to record your trips using the app. With the BMW Motorrad Connected Services (also included in the HIGHLINE package) the charging status and other CE 02 vehicle information can be viewed at any time from anywhere via the app.

The highlights of the new BMW CE 02:

- Maximum power 11 kW (15 hp), rated power 6 kW (8 hp), torque 55 Nm.
- Performance variant for AM *driving licence AM: Maximum power 4 kW (5 hp), rated power 3.2 kW (4 hp), torque 55 Nm.
- Steel frame and single-sided rear swingarm.
- Telescopic forks at the front.
- BMW Motorrad ABS (front wheel only).
- ASC (Automatic Stability Control) and RSC (Recuperative Stability Control).
- Reverse assistant
- Two riding modes "Flow" and "Surf" as standard.

- Third driving mode "Flash" as part of the HIGHLINE optional equipment and also available as an original BMW Motorrad accessory.
- Low seat height of only 750 mm.
- Suitable for riding two-up
- Keyless Ride.
- LED headlights including daytime running lights and side indicators.
- 3.5" micro TFT.
- USB-C socket.
- Cradle mode in the BMW Motorrad Connected app.
- BMW Motorrad Connected Services
- External charger 1.500 W (900 W series) for household socket use as part of the HIGHLINE optional equipment as well as optional accessory (for 11 kW version).
- Anti-theft alarm preparation



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2. Technology and design.



Progressive design with new and youthful proportions and plenty of room for individualisation.

The new BMW CE 02 represents a new way of accessing BMW Motorrad. It's electric, it appeals especially to young people and it's neither an e-motorbike nor an e-scooter. It's an eParkourer. Created for the city and the urban environment. Nimble, practical, robust and reduced to the essentials in terms of design. It expresses freedom and light-heartedness - similar to a skateboard, which is deliberately reflected in the design of the seat.

"With the CE 02, we are striving for something new at BMW Motorrad and want to be pioneers once again. Thanks to its unusual proportions and striking graphics, the new CE 02 is an uncomplicated, youthful form of single-track mobility. The reduced design language stands for lightness and fun. The focus is not on utility, but on emotional appeal, riding pleasure and uncomplicated, almost intuitive use," explains Edgar Heinrich, Head of BMW Motorrad Design.

The disc wheels are designed to emphasise the proportions. Black as the basic colour for the frame, wheels, front fender and triple clamp fairing at the top, and granite grey metallic matt for the motor cover offer just as exciting a contrast as the interplay of matt and high-gloss surfaces. At the same time, the reduced design offers plenty of scope for your own design options. In this way, the new BMW CE 02 becomes a way for the owner to express himself. There are almost no limits to realising your own design ideas and customizing the BMW CE 02.

In the special HIGHLINE version, the new CE 02 puts in an extroverted and colourful appearance. Forks anodised in gold and a tape design in combination with Petrol as a contrasting colour make the CE 02 look dynamic and future-oriented even when standing still.

Powerful drive and practice-oriented range. Additional 45 km/h version for AM driving licence class. Reversing aid makes manoeuvring easy.

The new BMW CE 02 is powered by an air-cooled, current excited synchronous machine. Power is supplied by two air-cooled lithium-ion batteries with an operating voltage of 48 V and an energy content of 1.96 kWh each, which can be removed for care and maintenance purposes. Riders aged 16 can ride the new CE 02 with a maximum power output of 11 kW (15 hp) as well as a rated power output of approx. 6 kW (8 hp). In a 4 kW (rated power 3.2 kW, one battery with 1.96 kWh) version limited to 45 km/h, the new CE 02 also meets the requirements of the AM driving licence class and can be ridden in Germany, for example, from the age of 15 and also by riders who have a car licence. In addition, there are further country-specific regulations.

The powerful drive which generates a torque of 55 Nm from standstill enables the new CE 02 in the 11 kW version to accelerate quickly for example at traffic lights from 0 to 50 km/h in 3 seconds and is very dynamic to ride. With a top speed of 95 km/h, progress is speedy on expressways and a range of more than 90 km (11 kW version according to WMTC) allows for extended urban adventures.

The torque is transmitted from the synchronous machine on the right-hand side of the vehicle via a toothed belt to an intermediate shaft. From there, another toothed belt on the left side takes over the function of the secondary drive to the rear wheel. This sophisticated construction ensures the best possible centre of gravity and safeguards neutral handling. ASC (Automatic Stability Control) ensures safe power transmission between the rear tyre and the road surface on slippery roads. RSC (Recuperation Stability Control) functions similarly to an engine drag torque control and specifically reduces the drag torque in overrun mode to keep the vehicle stable. At the same time, recuperation takes place in overrun mode. A reversing assistant makes manoeuvring simple and easy.

Two riding modes "Flow" and "Surf" as standard and "Flash" as optional equipment and a original BMW Motorrad accessory.

The new CE 02 comes with the "Flow" and "Surf" riding modes as standard. "Flow" offers the optimal drive set-up for floating along in urban traffic with a soft response and medium recuperation.

Outside the bustling city traffic, "Surf" provides a ride experience familiar to surfers: The drive's direct response permits dynamic acceleration and zero recuperation enables maximum coasting and effortless cruising.

The "Flash" driving mode is also available as a sporty and dynamic addition as part of the HIGHLINE optional equipment and as an original BMW Motorrad accessory. In this mode the new eParkourer from BMW Motorrad provides a very responsive, sporty and dynamic riding experience.

External charger as standard and a quick charger as optional equipment and as Original BMW Motorrad accessory.

The new BMW CE 02 comes as standard with an external charger with a charging power of 0.9 kW, which enables charging processes to be carried out quickly and conveniently at standard household sockets. It's even faster with the quick charger with 1.5 kW charging power, which is available in the HIGHLINE optional equipment and as an Original BMW Motorrad accessory (11 kW version only).

The charging times at a glance (at 25°C):

	Charger 0.9 kW	Charger 1.5 kW
11 kW version		
0 - 100 %	312 min	210 min
20 - 80 %	168 min	102 min
4 kW version		
0 - 100 %	182 min	-
20 - 80 %	85 min	-

Chassis with double-loop tube frame, telescopic forks, single-sided swingarm and cast light alloy wheels.

Thanks to its low weight of only 132 kg (11 kW version) or 119 kg (4 kW version) and the low seat height of only 750 mm, the new CE 02 is also characterised by its playful, city-suitable handling. As far as the chassis is concerned the new BMW CE 02 relies on a torsionally rigid double-loop frame made of tubular steel. The front wheel is guided by hydraulically damped telescopic forks with a 37 mm fixed fork tube diameter, while a single-sided swingarm made of die-cast aluminium is used at the rear, along with a directly linked shock absorber with adjustable spring base.

The 2.50x14" front and 3.5x14" rear cast light alloy wheels with disc wheel design are fitted with wide tyres sized 120/80-14 and 150/70-14 respectively. The BMW CE 02 is decelerated by disc brakes at the front and rear and supported by BMW Motorrad ABS at the front. Adjustable hand levers allow you to adapt hand reach to meet your personal preferences. The footrests allow the rider two leg positions in solo mode: relaxed on the rider footrests or sporty-dynamic on the pillion footrests.

Easy-to-read TFT display, USB-C charging port and smart connectivity solutions.

In the cockpit, an easy-to-read TFT display informs the rider about riding speed, battery charge status and much more. A USB-C charging socket also allows you to supply a smartphone with power. Using the BMW Motorrad Connected app you can see how the smartphone shows the predicted end of charging thanks to networking via Bluetooth, as on the BMW CE 04. In the HIGHLINE variant, the cradle mode allows the BMW Motorrad app in the smartphone (held in a smartphone holder) to be controlled safely as an additional display using the keypad on the handlebar. It is also possible to record your trips using the app. With the BMW Motorrad Connected Services (also included in the HIGHLINE package) the charging status and other CE 02 vehicle information can be viewed at any time from anywhere via the app.

A smartphone holder from SP Connect is available as part of the original BMW Motorrad accessories range and as a component of the HIGHLINE optional equipment and permits your smartphone to be mounted safely and in good view.

For information updates on the smartphone, the HIGHLINE optional equipment provides a direct data connection between the vehicle and a backend (currently in Europe, USA and Canada). The free BMW Motorrad Connected app also offers additional functions such as ride recording, which can also be shared with friends.



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3. Equipment program.



Optional equipment and Original BMW Motorrad accessories.

An extensive program of optional equipment and Original BMW Motorrad accessories is available for customizing the new BMW CE 02. As is common BMW Motorrad practice, optional equipment items are supplied ex factory and integrated in the production process. Original BMW accessories are installed by the BMW Motorrad dealer or by customers themselves. The BMW CE 02 can also be retrofitted with these items.

HIGHLIGHT special equipment package.

- Third driving mode "Flash".
- Specific tapes.
- Gold anodised forks.
- HIGHLIGHT seat in Black/Petrol.
- Heated grips
- Smartphone holder plus Connected Ride Control.
- Quick charger 1.5 kW (only for 11 kW version).

Original BMW Motorrad accessories.

Storage.

- **NEW!** Luggage carrier black.
- Light topcase 29 l.
- **NEW!** Holder side back right.
- Side bag Black Collection black 16 l.
- Side bag Urban Collection white 16 l.
- Adventure Collection side bag olive 16 l.
- Battery compartment bag (4 kW version only).
- Side bag Black Collection black large 50-60 l.
- Side bag Black Collection black small 35-42 l.
- Rear bag Urban Collection white large 50-60 l.
- Side bag Urban Collection white small 35-42 l.
- Side bag Adventure Collection olive large 50-60 l.

- Side bag Adventure Collection olive small 35-42 l.

Safety.

- Anti-theft alarm.

Design.

- **NEW!** Cockpit fairing clear.
- **NEW!** Cockpit fairing tinted.

Ergonomics and comfort.

- **NEW!** Footrest front and rear.
- **NEW!** Comfort seat Petrol.
- Vehicle outdoor cover

Maintenance and technology

NEW! Battery charger 48 V (quick charger).

NEW! Riding Modes Pro (Flash).

4. Technical specifications.



BMW CE 02 (4 kW) 11kW

Drive

Rated power output	kW/hp	(3.2/4) 6/8
Maximum power output	kW/hp	(4/5) 11/15
at motor speed	rpm	(1,000) 5,000
Torque	Nm	55
at motor speed	rpm	0-1,000
Type	Air-cooled current excited synchronous machine, max. motor speed 6,700 rpm	

Electrical system

Drive battery	kWh	Air-cooled lithium-ion high voltage battery (1.96) 3.92
Battery voltage (rated)	V	48
Charging capacity (depending on equipment)	kW	(0.9) 1.5 (charger or quick charger)
Charging time (depending on power supply)	See table on page 6	
Secondary battery	V/Ah	12 / 5
Alternator	W	DC/DC converter, 215 W
Headlight	LED high/low beam; LED daytime running light/parking light	
Rear light	LED brake light/rear light	

Power transmission – gearbox

Secondary drive	Timing belt
Total reduction ratio	7.8

Chassis

Frame construction type	Tubular steel double loop frame	
Front wheel suspension	Telescopic forks, Ø 37 mm	
Rear wheel suspension	Cast aluminium single-sided swingarm with directly shock absorber; Spring base adjustable	
Spring travel, front/rear	mm	117/56
Wheel castor	mm	91.2
Wheelbase	mm	1,353
Steering head angle	°	65.5
Brakes	Front	Hydraulically actuated single disc brake, Ø 239 mm, Two-piston floating caliper
	Rear	Hydraulically actuated single disc brake, Ø 220 mm, Single-piston floating caliper
ABS	BMW Motorrad ABS (front wheel only)	
Wheels	Die-cast aluminium wheels	
	Front	2.50 x 14"
	Rear	3.50 x 14"
Tyres	Front	120/80-14
	Rear	150/70-14

BMW CE 02 (4 kW) 11 kW**Dimensions and weights**

Total length	mm	1,970
Total width with mirrors	mm	876
Total width without mirrors	Mm	845
Total height	mm	1,140
Seat height (without rider)	mm	750
Vehicle weight	kg	(119) 132
Permitted total weight	kg	312

Performance figures

Top speed	km/h	(45) 95
Acceleration		
0 - 50 km/h	s	(-) 3.0
Range according to WMTC	km	(> 45*) > 90*
Power cons. according to WMTC	kWh/100km	(< 6.0*) < 6.0*
Recuperation		Automatic recuperation in overrun mode

* exact final data will be available shortly.