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Page 1 of 3

KLEMENT: electric two-wheel concept for sustainable micromobility in cities

- › **KLEMENT offers concrete look ahead at the future of modern individual micromobility in metropolitan areas and megacities**
- › **ŠKODA's modern two-wheel concept combines a pure design, state-of-the-art technology and effortless handling**
- › **KLEMENT showcases connectivity at its best and offers a variety of brand-typical clever connectivity features**
- › **Innovative combined throttle and brake control for intuitive operation and a 4-kW wheel hub motor with recuperation**
- › **Highest level of safety thanks to hydraulic brake at the front equipped with ABS and an innovative lighting concept**

Mladá Boleslav / Shanghai, 14 April 2019 – By presenting the KLEMENT mobility concept at Auto Shanghai, car manufacturer ŠKODA is demonstrating how it envisages the future of micromobility in major cities: electric, innovative and modern. The built-in 4-kW wheel hub motor accelerates the KLEMENT up to a top speed of 45 km/h; the accelerator and brake are operated using pivoting pedals. This allows for handling that is as innovative as it is effortless. A hydraulic brake at the front equipped with ABS, and LED lights integrated into the vehicle guarantee a safe ride at all times. The KLEMENT also traces an arc back to the company's roots – back to 124 years ago when the story of ŠKODA began with the manufacturing of bicycles under founding fathers Laurin & Klement.

Guido Haak, Head of Product Management at ŠKODA AUTO, said, "Micromobility is becoming increasingly important in cities. By presenting the KLEMENT at Auto Shanghai, we are showcasing our vision for the future of micromobility: sustainable, innovative, electric and with a pure, modern design. The KLEMENT is a state-of-the-art, dynamic and easy-to-use vehicle, and allows the ŠKODA brand to further appeal to a younger target group with a heightened sense of environmental awareness. The concept is perfectly aligned with our customers and our E-Mobility Strategy. We are therefore assessing whether, and how, this exciting, new mobility concept can be added to our portfolio in the future."

Micromobility and electrified vehicles – both are developing at pace in China with its rapidly growing metropolises. Millions of e-bikes and electrified scooters are of course part of the street scene here and represent a society that is open to micromobility. Aimed at this group, the KLEMENT electric two-wheel concept is a nimble vehicle that makes the daily commute to work easier in densely populated major cities, for example. It was designed for young people who are seeking a sustainable alternative to a car and who expect it to be easy to use, fun, as well as faster and more convenient than a conventional bicycle. The KLEMENT features a futuristic aluminium frame and single-sided forks for both the front and the rear wheel. The mobility concept does not have any visible levers or cables; the rider's feet rest on fixed pedals, which are located where e-bikes have a bottom bracket.

The KLEMENT two-wheel concept is celebrating its Asian premiere at Auto Shanghai, taking place from 16 to 25 April 2019.



ŠKODA
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PRESS KIT

Page 2 of 3

Riders accelerate and brake the KLEMENT just like they would popular hoverboards – by tilting the foot pedals. If the user shifts their weight forwards on the pedal, the KLEMENT's hub motor accelerates. If the pedals pivot backwards, a hydraulic disc brake at the front equipped with ABS is activated, as is regenerative braking at the rear wheel.

The hub motor on the rear wheel outputs up to 4 kW and accelerates the two-wheel concept up to a maximum speed of 45 km/h. Two lithium-ion batteries, each featuring 52 cells, have a total capacity of 1,250 Wh – providing a range of up to 62 km. These batteries can be easily removed and charged using a household plug socket; they can also be recharged whilst riding thanks to brake energy recuperation. With a target weight of approx. 25 kg, the KLEMENT is easy to manoeuvre at all times.

The two-wheeler's integrated light system includes an LED headlight and brake light, LED indicators integrated into the pedals as well as a daytime running light. A smartphone holder with inductive charging is located on the crossbar, just behind the handlebars. Smartphones are the key to unlocking the two-wheeler's connectivity potential. They can be used to link the KLEMENT to all of the innovative connectivity solutions offered by ŠKODA, such as the Coming Home function, the automatically triggered Emergency Call as well as remote diagnostics and maintenance. Owners can also programme a restricted area of use via Geofencing.

In future, many additional features might be included in a production version of the KLEMENT, for example assistance systems, Function on Demand or special mousse tyres, which are made from a shock-absorbing foam also used in running shoes, thus providing a comfortable and quiet ride.



ŠKODA
SIMPLY CLEVER

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Page 3 of 3

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ŠKODA AUTO

- › was founded during the pioneering days of the automobile in 1895, making it one of the longest-established automobile companies in the world.
- › currently offers its customers nine passenger-car series: the CITIGO, FABIA, RAPID, SCALA, OCTAVIA, KAROQ, KODIAQ, as well as the KAMIQ and the SUPERB.
- › delivered more than 1.25 million vehicles to customers around the world in 2018.
- › has been a part of Volkswagen Group since 1991. The Volkswagen Group is one of the most successful vehicle manufacturers in the world. In association with the Group, ŠKODA AUTO independently develops and manufactures vehicles, as well as components such as engines and transmissions.
- › operates at three locations in the Czech Republic; manufactures in China, Russia, Slovakia, Algeria and India mainly through Group partnerships, as well as in Ukraine and Kazakhstan with local partners.
- › employs over 39,000 people globally and is active in more than 100 markets.
- › is pressing ahead with the transformation from a traditional car manufacturer to the 'Simply Clever company for the best mobility solutions' as part of the ŠKODA 2025 Strategy.