

A man with short dark hair, wearing an orange t-shirt, a blue denim vest, and light-colored trousers, is standing on a modern escalator. He is looking down at a yellow smartphone in his right hand. A black backpack is on his back, and a green bicycle helmet is tucked under his left arm. A black and grey folding electric bicycle is positioned on the escalator steps in front of him. The background shows a brick wall and the metal structure of the escalator.

PRESS KIT

↙ E-FL 900 ELECTRIC FOLDING BIKE

Improvise without compromise

 DECATHLON

A man wearing a helmet, an orange shirt, a blue vest, and khaki pants is walking up a wide, curved stone staircase. He is carrying a black folding electric bike under his arm. The staircase is made of light-colored stone and has a large, curved glass skylight on the right side, letting in bright light. The overall atmosphere is one of urban exploration and spontaneity.

What if this
folding bike made
your days more
spontaneous?

The E-FL 900 has been designed for those who want to get around without constraints. This folding electric bike combines power and practicality. It unfolds instantly thanks to a patented automatic hinge locking system and can be stored anywhere thanks to its 16" wheels and single-arm fork. It is also ultra-lightweight for easy carrying.

In practical terms, it changes the way you experience the city: no more planning your route in advance or searching for a parking space. Cyclists can improvise and take advantage of the electric assistance, keeping their bike always within reach.

It is a solution designed for modern urban mobility: simple, compact and uncompromising.

“

Thanks to the E-FL 900,
you can improvise every day
without compromise.

*What if your daily commute became easier
and more flexible?*

*What if your electric folding bike could go
everywhere with you without you having to
choose between compactness, lightness, and
electric assistance?*

*We designed the E-FL 900 to change your life
by offering you total freedom!*

*No more stress about parking or storage at
home, in the office, in restaurants or on public
transport. No more compromises between
practicality and riding pleasure.*

*Finally, a compact, lightweight electric folding
bike that you'll be proud to unfold on all your daily
adventures!*

➤ **Jérôme** Product Manager



The bike in detail

Lightweight 15.95 kg (all inclusive)

Thanks to its aluminium structure and lightweight Mahle E-kit.



Price
€1.999

One size fits all
1.50 m - 1.90 m

Maximum weight capacity
120 kg (cyclist + bicycle + luggage)

Dimensions

Folded: L 72 x H 68 x W 41 cm
Unfolded: L 133 x H 109 x W 57 cm

Easy to use

Easy to fold and, above all, it unfolds instantly in 1 second.

Thanks to its patented automatic locking hinge system, the E-FL 900 is easy to handle.

Compactness

Thanks to its 16" wheels and single-arm front fork, this bike is ultra-compact.

Perfect for easy storage anywhere.
(e.g. in a train carriage, car boot or lift)

Battery

Mahle eX1 - Very light and compact with a capacity of 171 Wh. Range up to 55 km (25 km in Mode 3). Lockable and can be clipped on and off in one step and one second. The dedicated eX1 External Battery holder allows the battery to be securely locked to the bike frame, providing additional peace of mind when parking the bike. This makes the solution particularly suitable for everyday urban use.



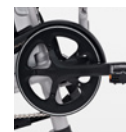
Motor

Mahle X30 rear wheel with XS system and 45 Nm to tackle all the challenges of the journey.



Speed

Single speed 12/53T.
Simple, lightweight and low maintenance.



Brakes

Hydraulic disc brakes.
Tektro 160 mm.



Tyres

Schwalbe Big Apple 16" x 2.00 (ETRTO 50-305). Comfortable and high-performance. Black with reflective strip.



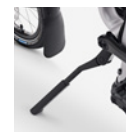
Lights

→ **Front:** 30 lux at the front for good visibility on poorly lit roads.
→ **Rear:** 3 candelas to be seen.



Stability

The bike is very stable when folded thanks to its integrated kickstand on the seat post.



Accessories

Carrying interface included to clip onto your front luggage rack in one step and one second for B'TWIN folding bikes.





A redesigned look

Meet Victor,
the product designer
on the E-FL 900



What was your design approach for the E-FL 900?

The idea was to create a new visual identity for folding bikes by applying the design language common to BTWIN bikes. The E-FL 900 is the first folding bike to benefit from this approach. This new design language is reflected in the bike's streamlined design with simpler, more intuitive lines. The idea is to simplify as much as possible, a little like Braun or Apple, by making our lines more essential without forgetting refinement in the details.

What are the key aesthetic features of this bike?

As this is a new design, we wanted an aesthetic that would appeal to as many people as possible. The idea was to have a colour that would blend in well with the city, so we opted for a metallic, satin anthracite grey that is resistant to impact and weathering. This colour has a subtle iridescent quality that can sometimes turn purple or blue depending on the light, setting it apart from classic grey.

At first glance, it's a simple colour, but when you get closer to the bike and look at it in more detail, you notice its subtlety, which gives it a second, more rewarding look.

Next, we really wanted to highlight the frame. To achieve this, we made all the surrounding components black (stem, seatpost, wheels, bottom bracket and pedals), ensuring that the frame stands out and the bike's identity is the first thing you notice from a distance.

What role did ergonomics play in designing the E-FL 900?

We took the ergonomic design developed for the Fold Light 1 Seconde and simplified it.

The levers, which were previously designed to fit around the hand to fold the bike, now have an oblong shape reflecting the concepts of essentiality and sustainability.

We also replaced the handle under the saddle with covers that clip onto the underside, enabling ergonomic folding while remaining inconspicuous.

The handlebars feature very flexible grips with a slight offset, making it easy to rest the palm of the hand on them while minimising vibrations.



Which design choices were made regarding the bike's functionality?

The most important choice was to design a frame that could be fitted with an electric motor, while also allowing for a mechanical version without a motor.

This significantly impacted the design process, leading us to outsource the electric kit.

The second consideration was weight, with the aim of creating a bicycle weighing less than 16 kg. This makes the E-FL 900 one of the lightest bicycles in its category on the market.

To achieve this, we not only filtered our components, but also the functions, removing those that were non-essential in order to save weight.

The bike's compactness when folded is identical to that of the Fold Light 1 Second — an essential feature that should not be overlooked.

We also wanted to improve the rigidity of the E-FL 900 to enhance its perceived quality and durability. The frame's robustness is evident in the generous sections of the top tube and chainstays (the tubes that connect to the rear wheel), while the secondary tubes are thinner, giving the bike a more refined and lightweight feel.

In terms of design, we ensured that the bike is extremely user-friendly. You'll notice that there are no gears; users simply choose one of three assistance modes and pedal without worrying about anything else. ➤

Final word?

We are proud to present the E-FL 900, which marks the beginning of a new chapter in folding bikes at Decathlon. We can't wait to hear our customers' first impressions!



We are also delighted to introduce you to this new design language and its three key principles:

- robustness
- lightness
- simplicity



My SmartBike APPLICATION ↘

to enhance the outing
experience and benefit from
a real-time screen to monitor
speed, assistance mode,
battery life...



Connectivity

Use your *smartphone* for an enhanced experience.

The E-FL 900 can connect to the My SmartBike app via Bluetooth, but this is not essential for operating the bike.

The app transforms your smartphone into a bike display, offering a complete experience by enabling you to track your activity in real time.

You can see your current speed, the level of assistance, the remaining battery percentage, the distance travelled in kilometres and the distance travelled during your daily journeys.

Once you have finished your journey, you can view more detailed information on the app or a web browser. The app is available to download from the App Store and Google Play.



Navigation

Enter an address in the app and follow the route to your destination.

↳ Please note that continuous use of GPS in the background may reduce battery life.

Share your ride

Automatically update each ride on Strava.

Assistance

The MAHLE system has several preset assistance modes.

These include the original mode, which has been specifically developed for this bike, as well as three other preset modes (Eco, Urban and Sport), and a customisable mode (CUSTOM) that can be adapted to the rider's style.

Each preset mode is a complete system configuration that modifies the maximum power, acceleration and responsiveness of each assistance level (1 to 3). The assistance level can be changed easily while riding using the Duo Remote.

Each assistance mode is adapted to different circumstances, such as power, acceleration and responsiveness requirements, battery charge, rider weight and terrain incline.

↳ Our advice: keep the original settings designed for this bike.

In the app, you can select your preferred assistance level (0, 1, 2, 3 or your last used mode).

The customisable assistance

This mode allows you to adjust the maximum power, acceleration and responsiveness levels to adapt the behaviour of the assistance to your riding style.

My SmartBike app for Apple Watch

Control your eBike directly from your wrist. Start and stop rides, change assistance levels and monitor key information such as battery status and heart rate while riding. After your ride, quickly check your activity summary and main ride metrics.

Monitor your heart rate

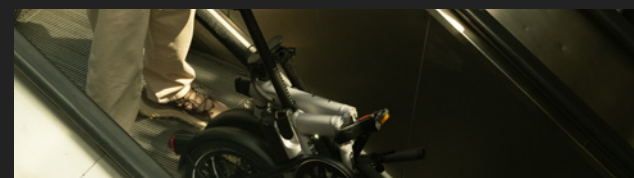
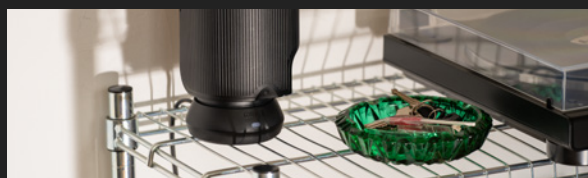
Connect a heart rate monitor and activate the special assistance mode to automatically adapt to your heart rate.

Ride in dark mode without any problems

The new app will automatically switch to dark mode to match your phone settings.



mahle-smartbike.com/xs/





For further information, please contact:

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