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LI:ON BIKES DEBUT | WHAT'S ON TODAY | BOUTIQUE BRAKES  
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**SCAN HERE FOR A COMPREHENSIVE GUIDE TO EVENTS**

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### NÜTZLICHE INFORMATIONEN FÜR BESUCHER

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## PLAN YOUR GETAWAY AT THE BIKE TRAVEL AREA



Travel helps strengthen your social, intellectual, and introspective skills; traveling by bike gives those skills even more muscle. Cycle tourism is nothing new but what's literally gaining traction is bikepacking, either by trekking, gravel, or e-bike, which is helping to increase the volume of services and destinations available to cycle tourists. As visitors will see here at Eurobike, durable goods brands have also responded to the trend with bikes and gear especially for bikepacking, like bags, clothing, and accessories.

The **Bike Travel Area**, located under the big top in the open-air grounds between Halls 9 and 11, is where to go to discover new travel destinations and tour outfits along

with related service providers, who will be showing what's on offer at their respective destinations. Various scheduled events will take place on the dedicated stage, including travel reports, adventure-themed talks and discussion panels. Apart from a short break at lunchtime, the stage will host talks, inspirational events and organized discussions that will take place throughout the day.

Arranged in two circles inside the tent, exhibitors from tourism associations, cycling holiday organizers, bike hotels, bike parks, railway companies, and tourist information services will be on hand throughout the weekend to help visitors to Eurobike plan their next holiday by bike. ■ **WB**



## LAL BIKES SUPRE DRIVE NEW SHIFTING CONCEPT KEEPS YOU RIDING

For long-travel mountain bikes, a young Canadian has come up with a drivetrain solution that offers many advantages once the going gets rough. Nicolai is one of the first bike brands to design a bike around it.

Plenty of days in bike parks and race runs in downhill and enduro competitions have been ruined by a ripped-off rear derailleur - too many, according to Cedric Eveleigh. The young Canadian would not accept the shortcomings of classic derailleur-based drivetrains and the way expensive rear derailleurs are so exposed and prone to damage. He set out to find a better way - and came up with the Supre Drive.

Admittedly the system looks very complicated and a frame has to be designed around it - it has been

designed to work on full suspension bikes with a high main pivot and an idler pulley. A closer look shows that the Supre Drive splits up the function of a classic rear derailleur. The super-compact rear derailleur sits well protected between the seat and the chain stays, needing no derailleur hanger. All this derailleur does is move the chain in- and outboard along the cassette in an axial direction.

To keep the chain under proper tension, Eveleigh has added a hydraulically damped chain tensioner mounted between the bottom bracket and the idler pulley. The result is a drivetrain that combines the efficiency of a derailleur-based system with the reliability of a gearbox - and you can try it out today at **Nicolai [open air ground F12 / F37]**. ■ **LvR**

## VOX POP

What's grabbed your attention at Eurobike?



**Gert-Jan van Breugel**  
Modyn, managing director  
Netherlands

I would say the massive amount of cargo bikes. Last year it was already a trend, but it looks like every brand now has a longtail or something in the cargo segment, carrying kids, or carrying groceries. Very interesting to see how that develops and if it's also picked up by the consumers. That's for sure something to look out for.

What also strikes me is that we're also exploring different frame technologies, in terms of aluminum extrusion, we're looking at sheet metal, carbon plastic. There will be more options for consumers in the future.



**Simon Jensen**  
Freelance consultant  
Denmark

I think this bike here (pictured) is quite amazing. It's an add-on bike. You can transform it - if you have an old bike, you can make it into a cargo bike. I also like this slogan on the frame: "upgrade, don't replace."

Every time you want somebody to buy a new bike, you should be asking, why don't you use the one you have?

This product makes that possible. I'm a consultant for people who own shops, I give them good advice. I think I'll put this one on the list.



**Dominika Psiuk**  
Oxygen sports and advertising  
Poland

There are some things that are not in Poland yet. For example, boxes for bikes, where you can put the plastic box outside of the house, like a kind of a garage without the garage. We don't have it in Poland, so it's great.

There are also special stickers for bikes, which light up

in the dark, and you can order your own sign, or your own company name for it, so that's a great idea too.



**Luke Beale,**  
Level One Engineering / Tenet components, engineer, owner  
USA

The weather!

I would say generally just that it seems pretty positive for the industry, even though there's a lot of struggles right now, so that's a positive and it's something that you wouldn't see without having a large group of people in the industry, and all in one place. I'm an engineer so I didn't see any huge striking new trends. But obviously, the developments in e-bikes are continuing, that's where most of the progress is happening right now, and you see that a lot here, with everybody together.

The Pinion gear box e-bike motor all put together is probably a pretty cool thing.



**Johan Beckes**  
Allten BV, wholesaler  
Netherlands

Especially new colours. More colours, in all things. Most years it's more black, grey, with basic colours. And this year there's more colour, in my opinion - like the rust colour.



**Silvana Huaman**  
FTEX, co-founder and CRO  
Canada

What grabbed my attention is that there's a lot of focus on mobility, sustainability, and how to make electric bicycles more accessible to a wider audience. Lots of cargo vehicles for more city transportation with a load, children and groceries - a sort of transition into how we use vehicles in the city.

It's not necessarily something I hadn't seen before, but with variance that adds more comfort and variety.



# WOMEN IN CYCLING NETWORKING BREAKFAST INDUSTRY WOMEN GET TOGETHER TO PROMOTE DIVERSITY

“Be impatient, dynamic and kick some ass!” This was the plea from Will Butler-Adams, Brompton’s chief executive, to about 150 women assembled at the breakfast organized by Women in Cycling yesterday.

He urged women to be impatient and demanding, because the lack of women and diversity in the industry is holding back the adoption of cycling by the wider community.

“This show is not talking to women, it isn’t talking to most men, it’s talking to middle-aged white men who are interested in cycling sport. That is not good business sense,” said Butler-Adams. “We’re talking to a narrow band and that is because the people who’re working in the industry are so one dimensional. We need to bring diversity of every description into this industry.”

Animated exchanges between the participants were interspersed with brief talks from women sharing their experience in the bicycle industry.

Women in Cycling is an initiative from Cycling Industries Europe, the European Cyclists’ Federation, Velokonzept, Mobycon and Conebi, aiming to help women to “get more visibility, impact and leading seats in the cycling industry and in the entire sector.” Women in Cycling defines “woman” to include trans and non-binary persons.

Isabell Eberlein from Velokonzept, who helped organize the breakfast,



estimated that women make up about 15% of the sector, although there isn’t any precise data on this topic.

“We want to get together in order to support each other, to level each other up and also to attract more and new diverse talent to the industry,” Eberlein explained.

At the same time, she argued that it would be in the industry’s interest to give women a stronger voice in the business.

“We think if there are more diverse people in the industry, if it’s not only sports cyclists or a particular group of cyclists, we can get more people cycling,” she said. “That’s our underlying goal.”

Sarah Holczer, head of sustainability

development at Shimano, suggested that women should start by adopting a more affirmative attitude – to step forward and make it clear that they could get the job done at least as well as men.

She added that mentoring had been particularly helpful to guide her in her progress, as well as a regional group for female empowerment in business, Spitzenfrauen Baden-Württemberg.

“It helped in understanding how the men worked in the company in previous years, and also how to bring myself in this group without having any hierarchy problems,” said Holczer. “It helped to understand the mindset of the men, the mindset of the women, to match them and to find a way in between.”



Eberlein agreed that women should support each other, but she is also advocating for quotas to bring about more systemic change. As she sees it, the onus shouldn’t be entirely on women to ensure improved female representation in the cycling industry. ■ **BS**

# MOUNTAIN AND ALL-TERRAIN SCOOTERS GET DOWN AND DIRTY

Thanks to COVID, scooters quickly became popular as an alternative means of socially-distanced transportation. Or perhaps it was more of a revival, since there was a previous boom in scooters after WWII. We look at two companies offering off-road variations at Eurobike.



**Ampyre's Arrow designer, Arnaud Legrand**

Now scooters designed for rougher riding are rolling into their own as all-terrain e-scooters (ATS) and mountain scooters for downhill and mushing. As its name suggests, **Gravity Scooters [8.0 / A34]** makes non-motorized scooters for dropping in and going down. **Ampyre [8.0 / B12]** makes all-terrain e-scooters for off-road adventure and exploration.

“Our scooter is for downhill

descents that anyone can ride,” said Judith Garcia Pares, CEO and cofounder of Gravity Scooters at Eurobike yesterday. “The low center of gravity allows riders to quickly put their foot out to regain balance, which is something that’s not easy to do on a bike.”

Gravity Scooters wanted to strongly emphasize how quickly a user can adapt to riding challenging downhill tracks without needing to

learn complicated techniques. The Spanish company recently expanded its product offerings to include the uncommon niche of mushing, where the scooter is attached to up to three dogs with a special bamboo attachment and hemp rope. As climate change threatens more snow sports, Gravity Scooters has a scooter solution to these new mixed conditions.

Ampyre’s Arrow ATS was born out of product designer Arnaud Legrand’s disappointment with the existing ATS market. Models failed to take into account weather and trail conditions in Northern Europe, which can get sloppy and muddy and stay that way for a while. The Arrow was originally designed as a welded aluminum frame, an idea that was quickly scrapped after the first prototypes were unusable. “I thought, ‘If there’s no welding, there’s no problem,’” said Legrand. “If we CNC machine the frame we won’t have the same problems as with welded frames, so I threw my designs away and redesigned the frame to be CNC’d.”

Tight tolerances were another advantage to this production process and could guarantee that every bolt



**Gravity Scooters company founders, Quinti Desmonts Romani and Judith Garcia Pares**

fit the frame perfectly. The resulting Arrow is a full suspension ATS with a 3000w motor and range of up to 90 kilometers. Users can opt for either 170 or 200 mm of front travel with a 170 mm rear shock, which indicate that the Arrow is not intended for a ride in the park but rather for big hits and burly singletrack. The Arrow can accommodate a 2.6” tire up front and a 2.8” tire in the back. The suggested retail price is €7999 with VAT included. ■ **WB**



# INTEND BC TRINITY BRAKE BOUTIQUE BRAKES FROM THE BLACK FOREST

Nowadays the disc brakes of the big suppliers are very good. Still, some customers keep looking for something more exclusive and better. German manufacturer Intend BC might have just that with their Trinity disc brakes.



Intend BC's founder Cornelius Kapfinger with the Trinity disc brakes at the open air ground.

Intend BC [open air ground F12 / F09a] has built an excellent reputation for its suspension components and its upside-down forks in particular. With the Black Forest and its trails right in the backyard of its Freiburg headquarters, this young company aims for the custom market and has high demands in terms of performance. Trinity is Intend BC's first disc brake and boasts a 4-piston caliper made of two precision-machined aluminum pieces, brake pads with alloy cooling fins and brake levers that combine ergonomics and low weight. The brake stands out in terms of looks – but that is far from all.

The brake is the result of five years of development, based on feedback from expert riders. Intend BC wants to set a new benchmark in terms of modulation, heat tolerance and ease of maintenance. To reach these goals, the German company precision-machines all parts of the Trinity from 7075 aircraft aluminum, relies on a radial piston lever with low weight and has increased the amount of mineral oil circulating in the system. As for the brake pads, Intend BC has taken the smart decision to go for the same size as Avid's Code system, so you can choose from a wide selection of compounds right from the start. ■ Lvr

# QUADVELO FOR EVERYDAY TRANSPORTATION



Julian Pahlow from ZF Micro Mobility with the Quadvelo

A slick four-wheeler with electric assistance, Quadvelo is meant to offer an energy-efficient alternative for small cars in a local environment.

The striking velomobile is on display at the **ZF Micro Mobility [F12.0 / G02]** stand.

"Compared to traditional velomobiles, which are basically for racing, this is more an everyday means of transportation," said Julian Pahlow, a product engineer at ZF Micro Mobility, which provided the power assist drive. "It's higher and larger, more like a light car which is combined with a power assist drive."

Steffen Schönfelder from Velomo was enlisted to create the chassis, while the vehicle is made by Eurocircuits, an electronics company from Hungary.

With its four-wheel suspension, Quadvelo is intended for urban

rides and small excursions at up to 25 kms per hour. It seats the rider, their groceries or a child in the same cabin.

Pahlow said it's a smart and relatively sustainable means of transportation. "A long time ago velomobiles were really human-powered pedal cars. Later on, they were power-assisted by small combustion engines. Now if we move to an electric drive, even an electric drive which is a power assist for a pedal drive, then we arrive to a very low electric energy consumption," he said.

With its carbon fiber body, the Quadvelo weighs in at about 100 kilos. Pahlow said it's as light as feasible to ensure sufficient stability. Eurocircuits is currently working on some adjustments of the wheelset and the control panel. ■ BS



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# EXHIBITOR PORTRAIT: NECO TECHNOLOGY INDUSTRY KEEPING UP WITH INDUSTRY CHANGES

Founded in 1986 during mountain biking's gold rush, Neco Technology Industry has been an exhibitor at Eurobike from the very start. Owner Neco Wang has since experienced the many changes in the bicycle industry first hand, always moving with the times.



Company founder Neco Wang with a heavy-duty mid-motor and a compact unit.

As the founder of **Neco Technology Industry [hall 8.0 / J01]**, Neco Wang has been part of the bicycle industry for more than 35 years. He has witnessed the impact of the electrification on both the industry and the Eurobike show. Speaking to the Show Daily at the show yesterday, Wang commented that "The rise of the e-bike has changed the show and its character, putting this product

category firmly in the center. With our hub- and mid-motors we are becoming part of this growing segment as well. We already have bicycle manufacturers in Germany, France, Spain, Italy, the UK and the United States relying on our motors for their e-bikes." By the end of 2023, Neco is planning to open an assembly line and a service center for its motors in Poland.

Up to now these motors have been produced in a factory close to Shanghai that Neco Wang bought in 2018. While this factory covers a floorspace of 500 m<sup>2</sup> and has a staff of 50, a new factory that is currently being built close to Nanjing will be substantially bigger at 33,000 m<sup>2</sup>. Neco operates two other factories in China, as well as its headquarters in Taiwan. Most of the research and development are being done in Taiwan, with the sites in China focusing on production. At the moment, the development of entire drivetrains is an ongoing project, but the company's wide-range cassettes are already on the market and readily available in Germany through its distributor Messingschlagler.

For e-bike riders tired of wearing out expensive cassettes from SRAM and Shimano too quickly, Neco's cassettes may well do the trick as an affordable alternative – all the more so as they have been designed to withstand the additional loads created by mid-motors. Neco has not been spared from the overstock issues currently plaguing the bicycle industry. Due to high demand in 2020 and 2021, Neco invested to increase its production capacity and hired ad-



If you want to save money on your next 12-speed wide-range cassette, Neco has you covered.

ditional staff, running at full capacity to meet the demand. When inflation sent consumer sentiment rock-bottom in the summer of 2022, the warehouse filled up.

"We expect the markets for bicycles, parts and components to return to normal by the end of 2024," says Wang. When asked about his impression of the new venue in Frankfurt, Neco Wang is full of praise. "As nice as Friedrichshafen and Lake Constance may be, Eurobike simply outgrew the city. For this reason, the move to Frankfurt was a wise decision as the city is much more convenient for international visitors." ■ LVR

## KIND SHOCK GOES WIRELESS

It has been in the making for a while, but Kind Shock is premiering its wireless electronic dropper post at this year's Eurobike. Called the LEV Circuit, it combines proven technologies with some clever features.



Kind Shock's president Martin Hsu and marketing manager Michael Hsu (right)

Over the years, **Kind Shock [hall 9.1 / B15]** has built a solid reputation for building reliable dropper posts that cover various price points and fit almost every frame. Now the Taiwanese company is launching a new flagship model with the LEV Circuit. As the model name indicates, it relies on internals from the proven LEV line. But it eliminates the cable between the handlebar remote and the post itself, relying on a wireless electronic design instead. This means less maintenance, faster action – and the option to switch the same post from one bike to another easily.

The removable and rechargeable battery is mounted behind the head of the post and is paired with the handlebar remote using Bluetooth. To save battery power, the post switches to stand-by mode when the bike is parked for more than 20 minutes. The valve at the bottom of the LEV Circuit serves to adjust the speed with which the post comes up. The post has been certified waterproof according to the IP67 standard, and both the price and the weight are competitive as well when compared to existing offerings.

According to Kind Shock's marketing manager Michael Hsu, the



LEV Circuit should hit the market at the end of September 2023. ■ LVR

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# TONY MARTIN AND MARCEL KITTEL INTRODUCE LI:ON BIKES



Former pro racers Tony Martin and Marcel Kittel are taking a different approach to cycling these days. They still ride fast, though now they ride in pursuit of innovations in mobility for children, and they've taken the lead along with a third partner, Franz Blechschmidt, with their new **Li:on Bikes [8.0 / B52]**. The prototype model on display at Eurobike is close to the final product although it may be tweaked before official production begins next year.

"We've created something completely different in terms of visibility and safety for children," said Kittel.

The bikes have been designed with visibility as a key feature. The bike comes equipped with integrated front and rear lights that are powered by a discreet battery that fits into the bike's downtube and can be easily

removed for recharging. The lights are activated by motion sensors and have a run time of 10 hours, or about two school weeks. The bike is finished with reflective paint that promotes 360-degree visibility. Proposed colors for the finished bike are currently mint green, sun yellow, blue and silver. The team from Li:on bikes is looking for feedback about the finish and all opinions are welcome.

The Li:on bike is produced in Germany from sustainable materials and assembled in Belgium. Many of the parts are currently sourced in the European Union, and the team is exploring other locally-made options in Europe. The bike will be available in next spring through dealers and via the brand's website. When asked about the number of bikes in the first production run, Kittel simply replied, "Enough." ■ **WB**

# HEPHA QUENCHES THE THIRST FOR AFFORDABLE EBIKES



Alex Thusbass, CEO of Hepha

for Hepha. "A Hepha bike is nearly a thousand euro less than entry level ebikes from other brands."

One of the ways Hepha manages to keep the cost low is by producing its own mid-drive motor and then designing the frame around it. The P100, which just won a Eurobike Award in the components category, powers every current Hepha model. For 2024, Hepha is introducing a new electric mountain bike, the Mountain 7. The price for the top-of-the-line full carbon version is worth mentioning first because, at a suggested price of €5199, Hepha could easily court customers away from other brands charging the same price for a mid-level e-MTB. Other features include SRAM components, a RockShox Lyrik fork, and Hepha's next gen P101 motor.

By comparison, the 2024 version of Hepha's flagship Trekking 7 comes in several models and ranges in price from €2599-€2999, depending upon component specifications.

Hepha sees the key to its success in the e-MTB market as the combination of high-tech and design, which belie the more affordable prices. Another unique selling point to convince buyers to take a closer look at this newbie brand is that development and the design process take place near Munich, Germany. ■ **WB**

Even with government subsidies helping to get more people on ebikes, they still command a price that's barely within reach of many users. Despite a seemingly crowded market, **Hepha [9.0 / A10]** has found a vacant space to occupy. The young company officially debuted as a brand in 2021 after thousands of kilometers of testing to produce a high quality, more affordably-priced ebike.

"Hepha fits into a space that's a complete desert because – if you're looking for an ebike, the starting price can be three thousand or three thousand five hundred euro," explained Gabriel Knapp, spokesperson

# HERO IN DISGUISE: ESYNC IS THE LATEST FROM INDIAN MAKER

Take a closer look at the new Esync rear hub drive system and it might not be readily obvious that a company with \$1.2 billion in assets is behind the system. The name is a giveaway though, **Hero EDU Systems [9/1 / B06]** is a division of Hero Motors Ltd., which produces more than 7.5 million bicycles annually. Esync is the result of a joint venture with **Yamaha Motor [8.0 / G20]** in Japan to manufacture hub motors under the name HYM (Hero Yamaha Motors).

"We were looking for another component to develop and we formed a technology partnership with Yamaha Motors to manufacture hub motors," explained Amardip Kumar, associate vice president of Hero Motors at the company's Eurobike stand yesterday.

Last year HYM inaugurated its state-of-the-art manufacturing facility in Ludhiana, India. The new facility plus the combined forces of the two powerhouse companies provided cutting-edge technology and instant name recognition to the project. Hero also brought its independent and reliable supply chain to Esync's development to help navigate market uncertainties. Just one year old, Esync is the answer to the absence of a strong market leader in rear hub drives.

The Esync system consists of hub motor, battery, controller, charger, HMI (Human Machine Interface), and sensor. One of Esync's key features is its



Amardip Kumar, associate VP at Hero Motors, helped design Esync

superior ip65 rating for resistance to liquids and particles. Esync has been designed to offer ebike manufacturers a complete package backed by the decades' old reputation of both Hero and Yamaha. ■ **WB**



We are **expanding** our product and service in the **European** market. If you are interested in **product distribution** and **customer service**, please reach out to us.

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# EUROBIKE HALL GUIDE

|                   |                                                                                                                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Halle 8.0</b>  | E-Mobility + LEVs, Urban Mobility, Infrastruktur, Logistik, Mobility Solutions, Future Mobility Forum, AWARD Ausstellung, LIGHT ELECTRIC MOBILITY AREA, START-UP AREA, CARGO AREA, SERVICE AREA |
| <b>Halle 9.0</b>  | Fahrräder/E-Bikes                                                                                                                                                                               |
| <b>Halle 9.1</b>  | Teile/Zubehör, Komponenten, Bekleidung, Accessoires                                                                                                                                             |
| <b>Halle 9.2</b>  | Supplier Area (Mi.-Fr.)                                                                                                                                                                         |
| <b>Halle 11.0</b> | Fahrräder/E-Bikes                                                                                                                                                                               |
| <b>Halle 11.1</b> | Teile/Zubehör, Komponenten, Bekleidung, Accessoires, SPORTS- & PERFORMANCE AREA, Sa.-So.: BIKE BOUTIQUE                                                                                         |
| <b>Halle 12.0</b> | Fahrräder/E-Bikes, CAREER CENTER                                                                                                                                                                |
| <b>Halle 12.1</b> | Teile/Zubehör, Komponenten, Bekleidung, Accessoires                                                                                                                                             |
| <b>Portalhaus</b> | EUROBIKE Hub, Media & Creator Lounge, Medienpartner, Fachpressestand                                                                                                                            |

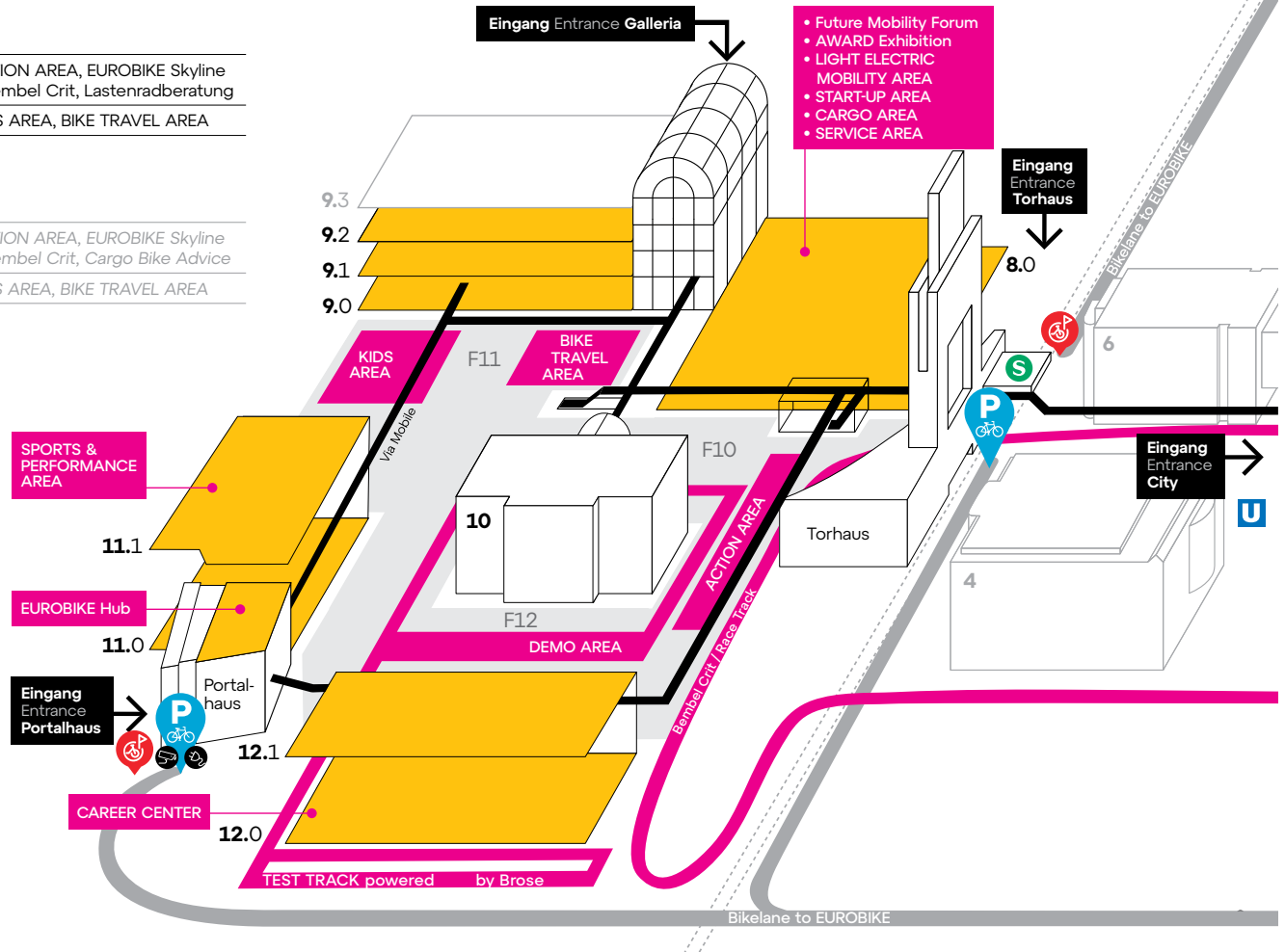
|                   |                                                                                                                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hall 8.0</b>   | E-Mobility + LEVs, Urban Mobility, Infrastructure, Logistics, Mobility Solutions, Future Mobility Forum, AWARD Exhibition, LIGHT ELECTRIC MOBILITY AREA, START-UP AREA, CARGO AREA, SERVICE AREA |
| <b>Hall 9.0</b>   | Bikes/E-Bikes                                                                                                                                                                                    |
| <b>Hall 9.1</b>   | Parts/Equipment, Components, Fashion, Accessoires                                                                                                                                                |
| <b>Hall 9.2</b>   | Supplier Area (Wed.-Fr.)                                                                                                                                                                         |
| <b>Hall 11.0</b>  | Bikes/E-Bikes                                                                                                                                                                                    |
| <b>Hall 11.1</b>  | Parts/Equipment, Components, Fashion, Accessoires, SPORTS- & PERFORMANCE AREA, Sa.-Su.: BIKE BOUTIQUE                                                                                            |
| <b>Hall 12.0</b>  | Bikes/E-Bikes, CAREER CENTER                                                                                                                                                                     |
| <b>Hall 12.1</b>  | Parts/Equipment, Components, Fashion, Accessoires                                                                                                                                                |
| <b>Portalhaus</b> | EUROBIKE Hub, Media & Creator Lounge, Medienpartner, Trade press stand                                                                                                                           |

**Freigelände**

|            |                                                                                                          |
|------------|----------------------------------------------------------------------------------------------------------|
| <b>F10</b> | DEMO AREA, Sa.-So.: ACTION AREA, EUROBIKE Skyline Contest, Bikeflip Show, Bembel Crit, Lastenradberatung |
| <b>F11</b> | DEMO AREA, Sa.-So.: KIDS AREA, BIKE TRAVEL AREA                                                          |
| <b>F12</b> | DEMO AREA                                                                                                |

**Open Air Grounds**

|            |                                                                                                          |
|------------|----------------------------------------------------------------------------------------------------------|
| <b>F10</b> | DEMO AREA, Sa.-Su.: ACTION AREA, EUROBIKE Skyline Contest, Bikeflip Show, Bembel Crit, Cargo Bike Advice |
| <b>F11</b> | DEMO AREA, Sa.-Su.: KIDS AREA, BIKE TRAVEL AREA                                                          |
| <b>F12</b> | DEMO AREA                                                                                                |



**Anreisemöglichkeiten zur EUROBIKE**  
Travel options to EUROBIKE

Die EUROBIKE findet auf dem Gelände der Messe Frankfurt statt. Die Messe Frankfurt, zentral in der Mitte Europas gelegen, erreichen Sie schnell über optimale Verkehrsverbindungen – ganz gleich von wo du startest. In der Innenstadt, am Hauptbahnhof, am Flughafen Frankfurt oder auf der Autobahn oder ob Sie zu mit dem Fahrrad, zu Fuß, mit dem ÖPNV oder anderen Verkehrsmitteln anreisen.

EUROBIKE takes place on the grounds of Messe Frankfurt. The Messe Frankfurt, centrally located in the middle of Europe, can be reached quickly via optimal transport connections – no matter from where you start. In the city center, at the main train station, at Frankfurt Airport or on the highway, or whether you arrive by bike, on foot, by public transport or other means of transport.

Eine Übersicht finden Sie hier:



Here you find an overview:



**Kostenlose Anreise mit dem ÖPNV für Fachbesucher**

Free travel by public transport for trade visitors

Alle Fachbesuchertickets, die online erhältlich sind, berechtigen zur kostenlosen Hin- und Rückfahrt zur Messe in Bussen und Bahnen im Gebiet des Rhein-Main-Verkehrsverbundes. Bitte beachten, dass diese Tickets nur ausgedruckt und in Verbindung mit einem gültigen Ausweisdokument gültig sind. Weitere Informationen dazu finden Sie auf Ihrem Ticket.



All trade visitor tickets, which are available online, entitle the holder to free return travel to the fair on buses and trains in the area covered by the Rhein-Main-Verkehrsverbund. Please note that these tickets are only valid when printed out and accompanied by a valid identification document. You will find further information on your ticket.

**Anreise mit dem Fahrrad**  
Arrival by bike

**Guthaben für die DB Call a Bike Nutzung**  
Mit unserem Mobilitätspartner DB Call a Bike stellen wir Euch mit einem Code für ein Guthaben für die Nutzung von Call a Bike in Frankfurt vom 21. – 25. Juni 2023 zur Verfügung. Einfach am Bahnhof, nach Messeschluss oder nach einem schönen Abend am Mainkai auf's Bike umsteigen.

**Nachhaltige Anreise: Wir helfen bei der Wahl des Verkehrsmittels**  
SteigUm.de zeigt anhand vieler Beispiele, welch immenses Einsparpotential in der Anreise zur Messe steckt, wenn alle Besucher das Auto stehen lassen und nur für die letzten Kilometer in Frankfurt aufs Fahrrad umsteigen.

**Einfache Navigation mit Biketour.Guide von SteigUm.de**  
Die Fahrrad-navigations-app Biketour.Guide steht für Messebesucherinnen kostenlos als Premiumversion zur Verfügung. Damit kommen Sie sicher vom Hauptbahnhof zum Messegelände und von dort zum Mainkai.

**Bewachtes Fahrradparken:**  
Am Eingang Portalhaus findest du eine Fahrradparkanlage. Fahren Sie mit dem Rad direkt an den großen, bewachten Fahrradparkplatz inklusive Service-Station und genießen Sie den Messetag mit dem Wissen, dass Ihr Fahrrad sicher verwahrt direkt vor der Türe auf Sie wartet.

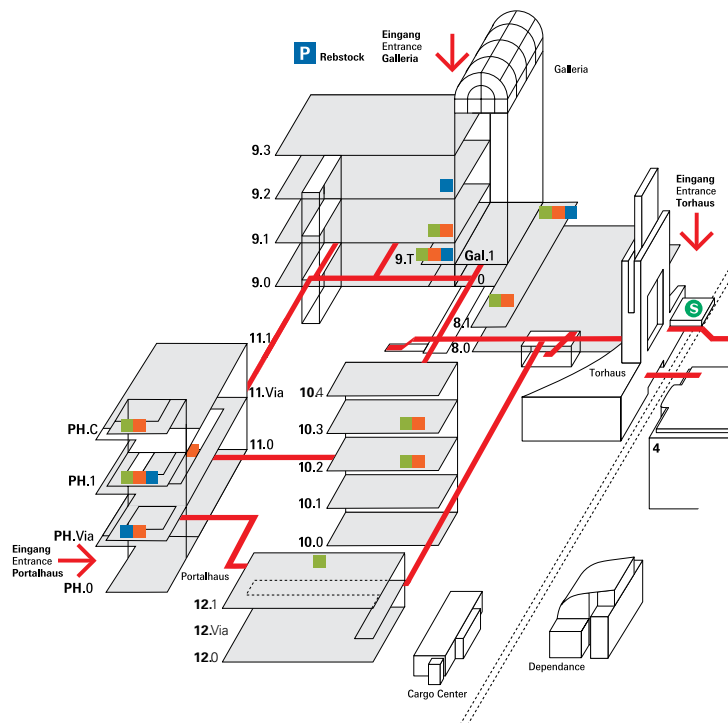
**Credit for DB Call a Bike use**  
With our mobility partner DB Call a Bike, we provide you with a code for a credit balance for the use of Call a Bike in Frankfurt from June 21st - 25th 2023 when you have purchased an entry ticket for EUROBIKE. Simply switch to use a bike at the train station, after the end of the trade fair or after a nice evening at the Mainkai.

**Sustainable arrival: We support you in your decision for means of transport**  
With several examples, SteigUm.de illustrates that the arrival to the fair contains immense potential for savings, if all visitors would choose to ride the bike for the last few kilometers in Frankfurt.

**Simple navigation with Biketour.Guide by SteigUm.de**  
The bicycle navigation app Biketour.Guide is available as premium version for all our fair visitors free of charge. You can get safely from the main station to the exhibition grounds and from there to the Mainkai.

**Guarded bicycle parking:**  
At the Portalhaus entrance you will find a bicycle parking facility. Ride your bike directly to the large, guarded bicycle parking area including service station and enjoy your day at the fair knowing that your bike is waiting for you right outside the door.

**Conference rooms**





# WHATS ON TODAY:

## SATURDAY 24 JUNE & SUNDAY 25 JUNE



**SCAN HERE FOR A COMPREHENSIVE GUIDE TO EVENTS**

**09:00 a.m. - 06:00 p.m.**

**Freigelände F11  
GRAVEL LOUNGE**

The Gravel Club and Gravel Collective open their Gravel Club Lounge for small talk about gravel biking and bikepacking and interesting workshops. Furthermore, the Gravel Club Lounge is a meeting point for gravel rides and you can enjoy refreshing drinks and delicious coffee.

**09:00 a.m. - 06:00 p.m.**

**BIKE TRAVEL AREA**

The Bike Travel Area brings a holiday feeling to EUROBIKE. Bike travel regions, bike travel providers and associated service providers present themselves in the large outdoor tent. The integrated stage features a varied program of discussion panels, travel reports and adventure presentations.

**09:00 a.m. - 06:00 p.m.**

**KIDS' AREA**

In the Kids' Area, a large and varied range of activities awaits the younger visitors. From a Balance Bike Track and BMX workshops to a Bicycle Creativity Workshop, where children and young people can get creative with the topic of bicycles, there are various side events for bicycle-mad kids and young visitors.

**09:00 a.m. - 06:00 p.m.**

**KIDS' AREA  
BMX SHOW & WORKSHOP**

In addition to spectacular tricks on the air cushion landing, the pros will present you with some tricks on how to take off on the bike yourself. But you can also learn BMX riding from and with CT BMX.

**09:30 a.m. - 05:30 p.m. (Sun 04:30p.m.)**

**DEMO AREA**

TEST TRACK powered by Brose  
With the Test Track, EUROBIKE offers the opportunity to try out the latest bike models in the fresh air and experience real riding fun.

**10:00 a.m. - 05:00 p.m.**

**KIDS' AREA  
PUMPTRACK**

An exciting variety is available all day on the pumptrack. The specially created track for mountain bikes is equipped with steep turns, waves and jumps for a guaranteed good time.

**10:00 a.m. - 03:00 p.m.**

**KIDS' AREA  
CREATING YOUR OWN REFLECTORS**

Create your own reflecting stickers, make yourself visible in the dark!

**10:00 a.m. - 06:00 p.m.**

**CAREER CENTER**

The CAREER CENTER as a platform for career opportunities in the bicycle and mobility sector is aimed at supporting companies in their search for trainees and young professionals in times of shortage of skilled workers. In addition to workshops, training sessions, shows and the jobwall, panels and presentations on the big stage complete the format.

**10:00 a.m. - 06:00 p.m.**

**RACE TRACK, F10  
BEMBEL CRIT RACE**

The Saturday of the FESTIVAL DAYS attracts with many exciting bike races. The BEMBEL CRIT for hobby cyclists promises a challenging circuit and thrilling finish sprints - right in the middle of the trade fair action.

**10:00 a.m. - 12:30 p.m. (Sunday 12:30 p.m. - 02:30 p.m.)**

**SPORTS & PERFORMANCE STAGE**

The Sports & Performance Stage is the first place to go for anyone interested in improving their sports performance in cycling. This requires not only the right equipment, but also an understanding of your own body and the right mental attitude.

**10:00 a.m. - 06:00 p.m.**

**PORTALHAUS  
FRANKFURT BICYCLE FLEA MARKET**

The Frankfurt Bicycle Market offers a great variety of used bicycles and bicycle parts, independent advice and repair and workshops, as well as bicycle art and culture. Food and entertainment is also provided.

**10:00 a.m. - 06:00 p.m.**

**FUTURE MOBILITY FORUM  
FUTURE MOBILITY STAGE**

The Future Mobility Stage in hall 8 is centered around topics of the mobility

transformation. What constitutes a liveable city? How can we create bike friendly cities? Where and how can I get engaged and contribute? All of these topics and more will be covered this weekend on the Future Mobility Stage.

**10:00 a.m. - 05:00 p.m.**

**BIKE TRAVEL AREA  
BIKE TRAVEL STAGE**

The BIKE TRAVEL STAGE offers a multi-faceted programme. Whether practical tips and tricks for planning your next vacation, exciting travel reports from around the world, presentations about bikepacking with toddlers, or a live podcast about the bike and mountain sports.

**11:00 a.m. - 04:30 p.m.**

**KIDS' AREA  
WD 40 Trial @ EUROBIKE**

Sensational show with the ten-time world champion and four-time Guinness record holder, Dani Comas, who will perform his arts together with the current world champion, Eloi Palau. With numerous stunts, both world champions will demonstrate their skills and look forward to the autograph session with you.

**11:00 a.m. - 11:30 a.m. (Sun: 10:00 a.m. - 10:30 a.m.)**

**FUTURE MOBILITY FORUM  
CARGO BIKE ADVICE**

The Verkehrswende-Agentur Team informs about all things cargo bike. Whether for private or commercial use, our manufacturer- and dealer-neutral advice is sure to help you find the perfect cargo bike for you.

**11:00 a.m. - 11:30 a.m. (Sun also 03:00 p.m. - 03:30 p.m.)**

**SPORTS & PERFORMANCE STAGE  
CHRIS BÖHM LIVE ON STAGE**

His life revolves around BMX and his BMX bike revolves around him. Chris Böhm is Germany's most successful BMX performer and whirls from record to record with his bike. He has set several world records with Flatland and is a regular TV guest with spectacular shows. In addition, Chris Böhm is a mega-influencer: over 252,000 subscribers on YouTube, 96,000 followers on Instagram, over 100,000 on Facebook and enormously high Tiktok views. On Sunday, June 25, at 11 a.m. and 3 p.m., he will talk about his exciting life on the Sports & Performance Stage and will be available for autographs and selfies.

**11:30 a.m. - 12:00 p.m.**

**ACTION AREA  
BIKE FLIP**

With elements of freestyle MTB, trial and BMX tricks, the Bike Flip offers an exciting and breathtaking show for young and old. With trial and MTB obstacles, as well as BMX ramps, Fabio Wibmer and Andrea Maranelli show together with Francesco Mongillo and Elia Benetton what they can do.

**12:00 p.m. - 01:30 p.m.**

**FUTURE MOBILITY FORUM  
CITY CYCLING - AWARD CEREMONY**

Frankfurt has once again been taking part in the international Climate Alliance Campaign "City Cycling" with the motto Cycling for a good climate. The aim of the campaign is to call for more people to get on their bikes, to get them excited about integrating bicycles into their everyday lives and, of course, to have fun.

**12:30 p.m. - 06:00 p.m. (Sunday 01:00 p.m. - 03:00 p.m.)**

**ACTION AREA**

**WE ARE WOW**

Breathtaking artistry on the bike With the German Bicycle Team, EUROBIKE presents show acts at the highest level. Athletics on the rolling artistic bicycle requires top performances in terms of balance, body control, strength and technique. Whether standing on the handlebars, doing a handstand or a pirouette, the top athletes of the RKB Solidarität and the BDR will show what is possible on a bicycle. Let yourself be inspired by the tricks of the absolute pros and experience WOW moments.

**12:45 p.m. - 03:00 p.m. (Sun 01:45 p.m. - 03:30 p.m.)**

**ACTION AREA**

**SKYLINE CONTEST**

On both FESTIVAL DAYS, a top-class field of starters will compete on a spectacular ramp landscape - including Olympic champion Charlotte Worthington and Olympic bronze medalist Declan Brooks, as well as Olympic sixth-place finisher Lara Lessmann and her teammate, Paul Thölen. Experience the professionals up close!

**02:00 p.m. - 05:00 p.m.**

**SPORTS & PERFORMANCE STAGE  
GRAVEL TALK**

Here you can find the latest developments of what is probably the most versatile form of the bike under one roof. From the right equipment to different models to the right driveability, the gravel talk offers all the information about the gravel bike. The GRAVEL TALK will be in German. 05:00 p.m. - 05:30 p.m. (Saturday)

# REVII

EUROBIKE 2023  
BOOTH NO. C29  
HALL 12.1

**thun** <sup>MADE IN GERMANY</sup>





# NEW ENTRANTS AND CHANGES IN THE MARKET RISK OR OPPORTUNITY FOR THE CYCLING INDUSTRY?

The European bicycle market is attracting new players in all categories, from investors and automotive companies, to insurers, motor vehicle experts and dealers of all kinds. How should the traditional cycling trade adapt to this new market landscape?



The majority stake taken by the investment holding Group Bruxelles Lambert (GBL) in direct seller Canyon in late 2020 was the final proof that the cycling industry has outgrown its niche status. Canyon started out as the store brand of Koblenz-based bike dealer Radsport Arnold. It quickly became and has remained one of the technology leaders of the cycling sector as a whole, and is outstandingly successful in pro sports, from triathlon to Pro Tour road racing and various MTB categories, such as cross-country and downhill. At the time of the sale (during the Covid crisis), the company was valued at 800 million euros, with a self-reported growth of around 25% p.a. before that.

For many years, the traditional players in the cycling industry had refused to give credence to such brilliant success. No trying out bikes bought online, no sales assistants to give advice, riders having to make their own adjustments, and no local bike shop to provide maintenance. This last aspect in particular was what traditional outlets resorted to when faced with this new and growing competition. Many dealers still refuse to repair and service bikes from direct sellers, including those another major player Rose Bikes and others.

But as Canyon has shown, blocking and denying do not seem to be the best (defensive) strategies. Almost everyone in the cycling industry will have to prepare for serious changes, and make the right proactive choices.

For the typical bike dealer with an attached workshop, the challenges have been enormous over the last few (Covid-ridden) years, and that pressure is set to only increase. Dealers are often disadvantaged by limited product choice in the store and hampered by bottlenecks in the workshop. This unholy mix is compounded by a lack of qualified staff in the service areas, from sales assistants to leasing and

insurance experts and mechanics that are able to hand customers complete, roadworthy bikes and e-bikes during busy periods, instead of bodes. Well-organised workshops that can complete lists of jobs scheduled at short notice while still performing smaller unscheduled repairs on the fly remain thin on the ground.

## Automotive service chains and dealership networks

Players in the automotive industry, itself in transformation, are increasingly trying to fill this gap. Large chains like ATU (despite still describing itself as 'your reliable partner for auto parts and car service') are pursuing long-term plans to establish a comprehensive network for e-bike services. ATU operates around 600 service centres throughout the DACH region.

The first car dealership networks have picked up on the trend and started to sell and service e-bikes. Such up-and-coming market players are virtually predestined to make inroads into the bicycle trade. What they lack (for now) in specialised bicycle know-how, they make up for with a solid workshop infrastructure, years of experience with computer-assisted workshop tasks, the ability to process online appointments and a mostly well-organized repairs acceptance process. Electric cars require less maintenance than combustion engines, and that pressure will motivate them to close their knowledge gaps fast. Plus, these new challengers in bike technology are closer to our industry than many think: Bosch, Brose, Mahle, Yamaha and ZF are all known quantities in the automotive industry.

And so the vicious circle closes around bike retailers: even brands that have remained loyal to brick-and-mortar sellers will increasingly distribute their wares online or through outlets outside

the industry, like consumer electronics chain Media Markt. Maintenance will be provided by automotive companies, which will sell spare parts and accessories on the side.

## Learning from the other side's strengths

As road cyclists know, you win bike races by attacking when you are already hurting anyway. It's high time the traditional cycling trade took heed. Instead of manufacturers rubbishing retailers, or vice versa (which I hear far too often), the industry needs to join forces in many areas. The automotive world is far more advanced in that respect. But how to do it?

Manufacturers and dealership networks, in fact all the players in the industry (insurers, lessors, etc.) need to prepare attractive training packages. These should cover more than products, technology, leasing and insurance contracts. Aspects typically thought of as soft topics, such as communication with customers and service reception, need to be brought to a higher standard as well. Add to this specialised topics, e.g. preparing professional quotes or expert opinions after accidents.

The important thing is: merely having the boss get the message isn't enough. The knowledge must reach the whole team. Changing your approach is the biggest challenge. Dealers must invest in sending their staff to learn about the respective topics.

On the upside, our chances have never been better, since interest in the cycling industry comes not just from investors and the automotive world. More and more people are also applying for jobs in the bicycle trade. To attract fresh talent to the industry, dealers now have courses available to train in many occupational fields and have people crossing over from other industries qualified too. ■ Dirk Zedler



## DIRK ZEDLER

Since 1993, Dirk Zedler has been an analyst and expert witness on bicycle accidents and product failures for courts, bike and insurance companies, and private individuals. He got his start in the industry by working for a large bike shop from 1986 on, and now holds the respected advanced engineering degree known as "Diplom-Ingenieur."

Courts have recognized Zedler as an officially appointed and sworn expert on bicycles since 1994, and on electric bicycles since 2014.

The Zedler – Institute for Bicycle Technology and Safety has used this wealth of knowledge, derived from his and his teams work in thousands of court proceedings and expert's reports not only in Germany but from the US to all over Europe, to enhance research and development in the bicycle industry.

The Institute sets the standards for the bicycle industry. It develops and builds testing equipment that is used by manufacturers to improve the riding performance and safety of their bikes, and by leading European bicycle magazines to test them. The Institute's work provides a basis for European and American manufacturers to communicate with their Asian suppliers. Manufacturers can buy test equipment from the Institute or use its state-of-the-art testing labs.

The Zedler Institute also prepares risk analyses, conformity papers, workshops, recall papers and user manuals for bicycles and pedelecs. These manuals, now available in more than 40 languages, help consumers use their bikes properly — and in many cases have protected manufacturers from liability.

Our experts draw on the wealth of experience gained through several thousands of expert's reports to train experts from in and outside the bike industry, such as automotive experts.

What we have learned from court cases, the proceedings of the market surveillance authorities and recalls is the content of our training courses for bicycle manufacturers. As a result, they are in a position to set up CE conformity processes internally.

**For more information, visit [www.zedler.de](http://www.zedler.de).**



# WORLD-LEADING INNOVATION

Welcome OEM/ODM Development

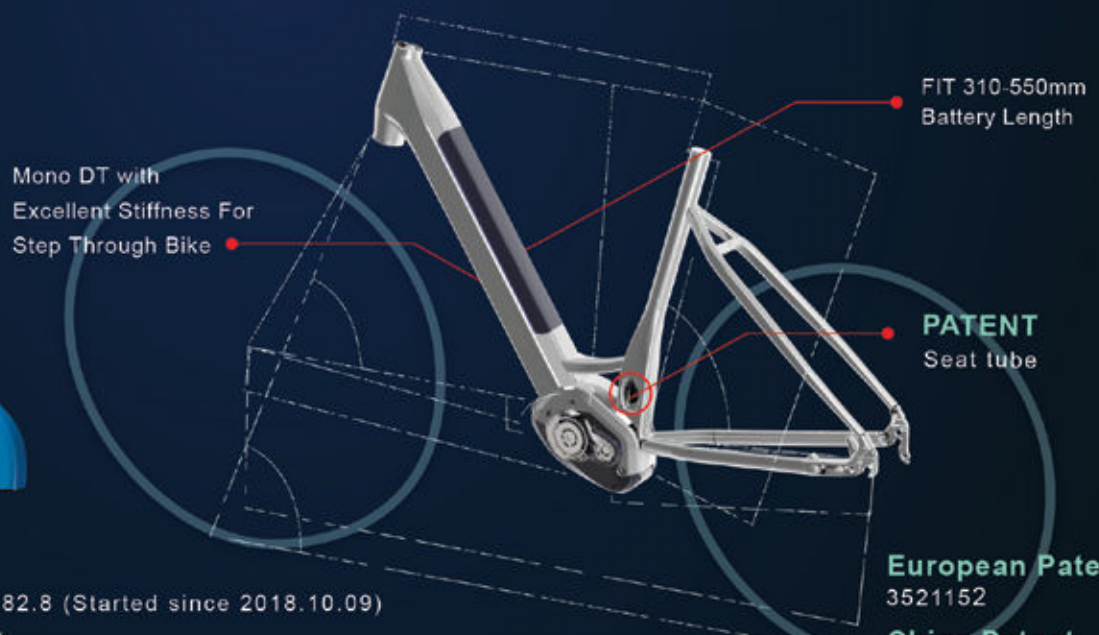
As E-BIKES get more sophisticated, So do hydroformed parts from A-FORGE [www.aforge.com.tw](http://www.aforge.com.tw)



Gravity Casting Motor Bracket  
(BOSCH system)



One piece design of  
Downtube & Motor Bracket



FIT 310-550mm  
Battery Length

Mono DT with  
Excellent Stiffness For  
Step Through Bike

PATENT  
Seat tube

### China Patent

ZL 2018 2 0212382.8 (Started since 2018.10.09)

### Taiwan Patent

I676575 (Started since 2019.11.11)

### European Patent

3521152

### China Patent

ZL 2018 2 0210697.9

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Innovation is Our Main Power For Continuous Breakthrough.



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## OVERVIEW: FULL-SIZE CARGO BIKES

# FAMILY MOVERS TO REPLACE THE CAR

Thanks to electrification, the cargo bike segment has been one of the most dynamic in cycling recently. Communal subsidies and leasing models further spur demand, and new manufacturers are joining the market for two-wheeled family vans. Meanwhile, established brands are working to refine their model range and add sustainability.



*Cargo bikes get you and your belongings or groceries to points far off the beaten path.*

lockable lid, the FR8 is a very versatile offering. Bosch's Cargo Line mid-motor is a smart choice for a model with a maximum overall weight of 250 kg, as it dishes out plenty of torque at low cadences as well. Apart from RST's suspension fork and Tektro's hydraulic four-piston disc brakes with oversized rotors, most of the parts have been sourced in Europe. For the gear hub, customers can opt for either Enviolo's Heavy Duty hub or the electronic Heavy Duty Automatiq version. The Intuvia 100 display can be upgraded to a Kiox 300 unit, and rather than a 500 Wh Power Tube battery, a 750 Wh unit can be specced as well. These batteries are safely positioned right under the loading bay in a box with a lock.

French manufacturer **Douze Cycles [hall 8.0 / B28]** has been successful in the cargo bike market for quite a while now and recently made headlines by striking a deal with Toyota France to sell its cargo bike through 250 car dealerships as well. Its new Hêta front loader cargo bike rolls on a 20-inch wheel up front and a 26-inch wheel in the back and features a frame made in France from moulded, recycled aluminum and polymers. This reduces the eco footprint drastically, and since the bike can be split into two parts in a few minutes, storing and transporting the Hêta is less of a hassle. Douze Cycles has also managed to extend the cargo bay to 850 mm in length without adding to the bike's wheelbase.

This cargo bay can be used as a flatbed or with an added box made of expanded polypropylene with an aluminum frame. So the Hêta can either move bulky items or safely transport up to three children – harnesses and a bench made of breathable fabric included. While the box has a capacity of 300 liters, the maximum payload on the cargo bay stands at a generous 100 kg. To keep this beast of burden on course, the steering relies on a total of four cables. Shimano's EP8 or EP6 Cargo mid-motors are mounted to the frame through a flexible interface, so the frame can be upgraded to future motor generations with different bolt patterns – a clever approach and another big plus in terms of sustainability.

In terms of sustainability, **my Boo [hall 8.0 / D26]** has an interesting

*A copper-coloured frame and a green cargo box? Dolly Bikes adds some colours to the cargo bike market.*



electric assistance drive systems help to get and keep going. A look at some of the new products in this segment being presented at Eurobike shows a wide variety of concepts.

As the first cargo bike from **Velo de Ville [hall 12.0 / A02]**, the FR8 features some clever details and offers a lot of flexibility in terms of specification and concept. The Long John-type aluminum frame works with both a chain or a belt

drive. Velo de Ville has opted for a combination of a 20-inch wheel up front and a 27.5-inch wheel in the back, with Schwalbe's reinforced Pickup tires mounted in 60 mm width. With a selection of no less than 32 colours and modular options to use the bike as a flatbed or to add a box made of reinforced expanded polypropylene and either a rain cover and two safety seats with belts for children or a

*Douze Cycles has put a lot of thought into how to make the Hêta as sustainable as possible.*



*Black Iron Horse's Ibex in front of Copenhagen's iconic Amalienborg castle.*

When it comes to replacing a car with a bicycle, full-size Long John cargo bikes with electric assistance drive systems are a top choice: depending on the model, these cargo bikes offer two to six seats for children, safety belts included. Rain covers keep the kids dry in bad weather, and since these bikes can carry a payload of 60 to 100 kg you can also do larger groceries or even pick up some heavy items at a do-it-yourself market. While the long wheel base takes some getting used to in terms of handling, powerful



# VELO AIMS TO ACHIEVE INNOVATION, PERFORMANCE AND QUALITY WHILE COMMITTING TO A MORE SUSTAINABLE FUTURE.



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VISIT US AT EURO BIKE

12.1/A10





Swedish start-up GinkGo now also offers its super-sporty cargo bike with a Brose mid-motor.

offering as well with the Kumasi EP6. This Long John cargo bike features what may well be the biggest bicycle frame ever built from bamboo. For this, my Boo runs its own frame manufacturing workshop in Ghana. Steering relies on a belt drive, and the wooden cargo box can be fitted with a rain cover or a rain canopy. With a maximum system weight of 190 kg, the Kumasi EP6 still can haul quite a load. Shimano's EP6 mid-motor delivers up to 85 Nm of torque and is fed by an external 630 Wh battery. The 10 speed Linkglide drivetrain and the four-piston disc brakes are also supplied by Shimano.

**Dolly Bikes [hall 8.0 / E22]** has been bringing vivid colors to the cargo bike market for ten years. But there's more to this Dutch company than just colors. All frames are painted and assembled in the Netherlands, and the double-walled box made of plastic and the wheels are made domestically. With the e-Dolly MaxDrive you get 80 Nm of torque from Bafang's M400 mid-motor and a 600 Wh battery for plenty of range. Wheels are 20 inch up front and 26 inch in the rear in size, and a stable double kickstand keeps the cargo bike safely in place for loading or securing little passengers. The box fits up to three children and can take a payload of up to 80 kg while the maximum system weight stands at a generous 275 kg.

Possibly the sportiest Long John cargo bike is built by Swedish start-up **Ginkgo Bike [hall 8.0 / C09]**. Since great handling and low weight stood at the center of this bike's development, it rolls on 28-inch wheels front and rear, with 27.5-inch as an option depending on preference. To save as much weight as possible, Ginkgo has come up with a unique alloy frame

that does without a steering column, relying on a push rod that links up the handlebar and fork steerer instead. But since the original version could carry 70 kg on the cargo deck and 25 kg on the carrier, offering a version with an electric assistance drive system for hillier areas seemed like a good idea.



The Equo Cargo shows that you do not necessarily need a Long John cargo bike to safely transport two children.

So the team at Ginkgo set off to develop just that and opted for Brose's S Alu Drive, a mid-motor dishing out a maximum torque of 90 Nm. For lower weight, the battery has a capacity of 396 Wh, so the Ginkgo is likely to set a new standard in terms of low weight for Long John cargo bikes with electric assistance. For those with range anxiety, a larger 630 Wh unit is available as well. Reflecting the sporty character of Ginkgo's cargo bike are the carbon fork and the one-by drivetrain from Shimano's XT group. Another novelty that adds to

Really? Yes, the Kumasi EP6 relies on a frame made of bamboo and sisal.



Radkutsche's Solid is ready to haul some serious cargo - on or off the roads.



the usability of the open cargo deck is a big, custom-made cordura bag that keeps all your groceries safely where they belong.

In Denmark large cargo trikes are a popular choice to move children around without the need for a car. And Danish company **Black Iron Horse [hall 8.0 / B15]** is known for this kind of cargo trike. Its latest edition to the line-up is no exception as it rolls on three wheels, but the Ibx is the first model of the brand that features front wheel steering. And that's not all, as the front wheels are also suspended vertically and laterally to maximize comfort for passengers and keep the

details on the Ibx will surely be available at the show. For families who want to get around with up to six children, Black Iron Horse has suitable cargo trikes with its Pony and Polly models that rely on rear-wheel steering and are available in different sizes.

If you are worrying about Long John cargo bikes or cargo trikes being too cumbersome for your daily errands and road layout, a full-size longtail might be the right choice for you. This sort of bike is already on the market from the likes of Riese & Müller and Bergamont, and even Decathlon has come up with a model. At Eurobike, French e-bike specialist **O2Feel [hall 12.0 / A09]** is exhibiting its Equo Cargo model in a limited Rolland Garros-edition that honors the French grand slam tournament. Built around a 26-inch wheel up front and a 20-inch wheel in the back, the aluminum frame features a voluminous down tube that houses a battery with a generous capacity of 720 Wh. Since the extended rear rack can take two children seats and carry up to 80 kg of payload, it's nice to rely on the support of Shimano's Steps E6100 Cargo mid-motor once this bike is fully loaded.

German cargo bike specialist **Radkutsche [open air ground F10 / D14]** so far has been known for its large cargo trikes for professional use and its Long John model. With the Solid, the brand launches its first longtail model now, but rest assured it still has a distinctive Radkutsche flavour. It all starts with the hand-built steel frame, and combining a 29-inch wheel with a burly tire up front and a 24-inch wheel in the back for all-terrain capability is an unusual combination as well. Add the powerful Sachs mid-motor that cranks out up to 112 Nm of torque and a maximum system weight of 200 kg and you know that the Solid is a real workhorse of a longtail cargo bike. A workhorse with no lack of endurance, that is, since the battery has a capacity of 720 Wh. **■ LVR**

Velo de Ville banks on modular flexibility - and offers plenty of options in terms of colours and specification.

trike from tilting in corners. Since the front wheels have been downsized, the Ibx is the most compact model of Black Iron Horse to date - and still offers plenty of comfort for passengers.

A special emphasis has been put on the sourcing of the materials and parts needed to build the Ibx in Copenhagen, with the mitigation of the carbon footprint as the main goal. For this reason the box is made of recycled plastics sourced from fishing nets, football fields, agricultural equipment and general-use plastic, ensuring a second life for these otherwise harmful materials. More





# E-CARGO BIKE

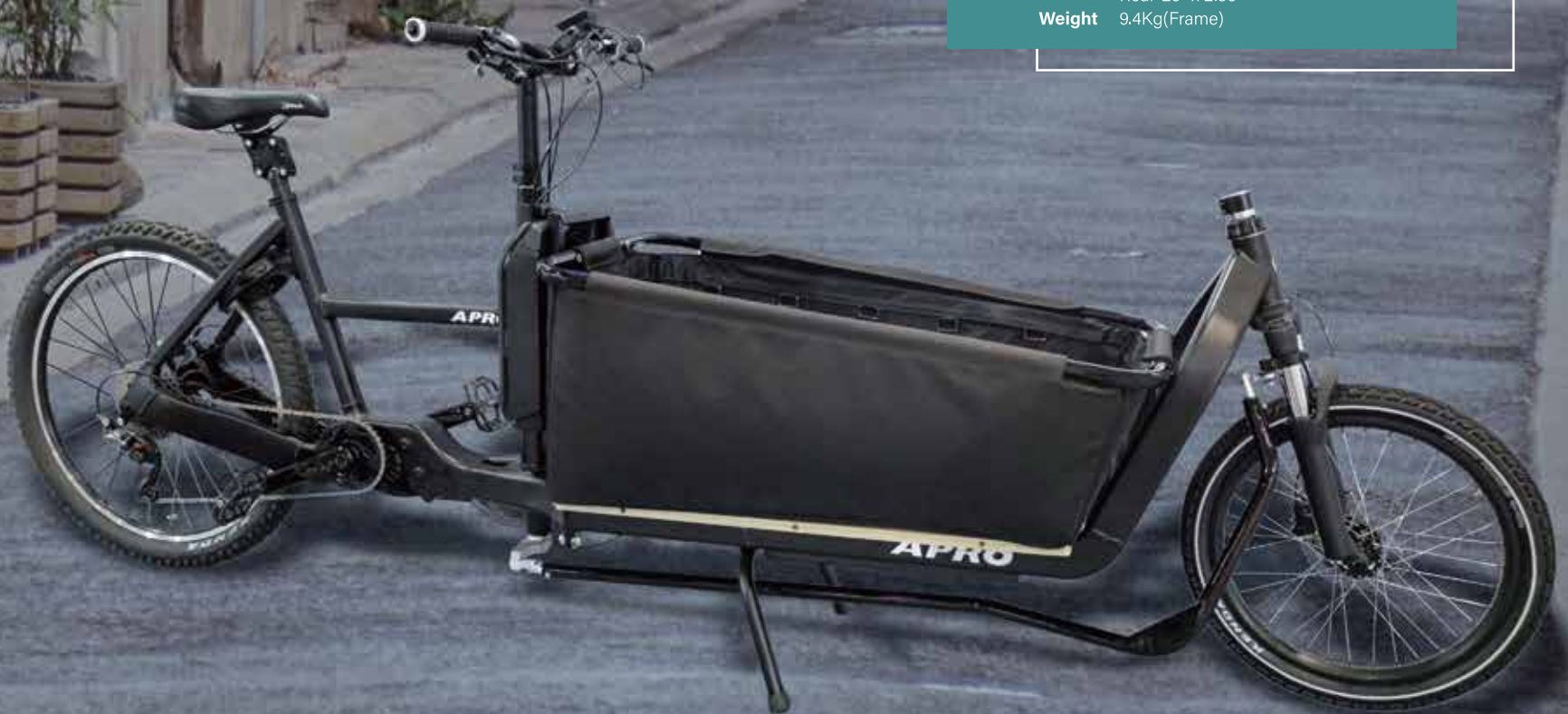
Urban commuting has transformed from individual cycling to now cargo transport. Whether you need to simply get from point A to point B, or to transfer large loads to desire places, e-cargo is the bicycle line that can satisfy your need.

Imagine a bike with multiple combinations that enable customization based on your daily needs. Be it a weekday work where you need to move packages to places, or just a casual ride with the kids and family at a park, you can equip the bike the way you like it and be on your way!

If you are the type of traveler that goes far, we've also got that covered. Dual battery from Bosch is also possible to give you the performance and range you are looking for.

## EG4A-B11

|                     |                                         |
|---------------------|-----------------------------------------|
| <b>Material</b>     | Aluminum #6061                          |
| <b>Mfg. Method</b>  | Tig Welding                             |
| <b>Frame Size</b>   | 51cm                                    |
| <b>HT</b>           | 1-1/8"                                  |
| <b>Seat Post</b>    | ø34.9mm                                 |
| <b>Motor System</b> | Bosch Drive Unit Cargo Line, Gen 4      |
| <b>Battery</b>      | Bosch Power Pack 800Wh(400Whx2)         |
| <b>Rear Hub</b>     | 142 x 12mm E-thru System                |
| <b>Dropout</b>      | Post Mount                              |
| <b>Tire</b>         | Front-20.0" x 2.15"<br>Rear-26" x 2.35" |
| <b>Weight</b>       | 9.4Kg(Frame)                            |



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## OVERVIEW: GRAVEL BIKES

# GRAVEL BIKES - FASTER, MORE AERODYNAMIC, AND MORE VERSATILE

Gravel took the world by storm when it brought something fresh, new, and invigorating to cycling. From the start, bike brands got busy trying to define the trend on their own terms: makers of road bikes produced “multi-surface” or “beyond-road” models with overtones of road cycling; makers of mountain bikes adopted the discipline as their own and produced bikes that could carve fast lines on doubletrack but could take to singletrack just as well.

Factor Ostro Gravel



Merida Silex 200



Gravel riding had instant appeal, attracting both seasoned cyclists and novices seeking thrilling off-road adventures. Now finding the perfect gravel bike is no longer a soul-searching question of cycling identity (am I a road rider, 'cross diehard, or a mountain biker?), but rather asking what you want to do and where you want to go. Gravel-specific geometry, aerodynamics, gravel-specific drivetrains and components, gear mounts, electric-assist, and frame material are just a few of the choices that open a world of options for gravel bikes. These bikes at Eurobike express the current versatility of gravel bikes and perhaps give us a look into the future too.

Four years ago, Eurobike award-winner, **My Esel [8.0 / D21]**, gained fame for its design concept of locally sourced wooden frames made from light composite wood. The basic idea behind a My Esel bike is based on the simple fact that everyone is different, which led My Esel to offer the possibility of customizing bicycles and e-bikes to the individual requirements of the user. In addition to an individual frame geometry, the torsion-resistant wooden frames, which are suitable for everyday use, also offer the option of

integrating a GPS system inside the frame. Now the Austrian company is unveiling the world premiere of its E-gravel Esel, which is a natural – if not obvious – fit for the brand. With the new E-Gravel, the focus was placed on weight and comfort for the Race model, and more range with comfort and design for the touring model, both with rear hub drive. The frame is made of environmentally friendly laminated wood, which dampens vibrations many times better than carbon and aluminum, offers a high degree of riding smoothness, and still has a high degree of stiffness. Produced in Austria with wood from domestic trees, the performance qualities of wood, such as vibration damping and robustness, make it perfect for gravel use.

Polish manufacturer **Rondo [11.1 / B30]** took home a Eurobike Gold Award in 2017 for its Ruut CF1 gravel bike, which earned the jurors' praise for its finish and adjustable fork. That success was followed by the Ruut Ti and CF0 titanium and carbon fiber gravel models. New for Eurobike 2023, the second generation of the Rondo Ruut, featuring a novel double diamond frame will make its debut.

A whole new range of the Ruut CF will display a new frame designed to increase rider comfort, which has been achieved by a unique frame shape with an angled section of seat tube that allows more saddle adjustment. Along with the new Ruut CF, Rondo will show a third generation of the Ruut AL, with new custom formed frame with integrated frame storage, UDH, and integrated cable routing.

Originally engineered for randonneuring and long distance commuting, the **Pelago Bicycles [F11.0 / B05]** Stavanger has received the most significant updates since its introduction more than a decade ago. For starters, the redesigned version supports a wider range of riders with frame sizes from 42-63 cm. The bike's tighter geometry has made it faster to maneuver, yet it can accommodate wider tires (50 mm for 700c, and 57 mm for 650b). The frame tubing is lighter – oversized chromoly with 0.5-0.8-0.5 wall thickness on the main triangle. The updated version also features: additional mounting points for bottles and gear; thru axle wheel standard with detachable gear hanger; and 1x11 Shimano GRX groupset (40T/11-42T) with hydraulic disc

brakes. The tapered headtube fits a carbon fork (sold separately) and the frame is also Di2- and dropper post compatible. Available as a complete bicycle for a suggested price of €2695 and as a frameset at €1095. New colors for Stavanger framesets will be available in August 2023 and for complete bikes in 2024.

Instead of just creating one gravel model and calling it quits, **Orbea [11.0 / C12]** engineered its Terra platform with different models in both aluminum and carbon for the ever-evolving gravel category. Terra starts with a monocoque carbon fiber or a hydroformed aluminum frame, either of which can be mounted with 700c x 45 tires for speed and efficiency on dirt roads, or with 650b x 50 tires for durable comfort if the definition of “gravel” takes a rocky turn. According to Orbea, one of the features that makes Terra unique is the frame, which has been designed to tackle a problem that exists in many gravel frames. Orbea gave it a range of drivetrain options without compromising tire clearance. Shorter seat tube, longer top tube, lower wheelbase, optimized head angle, and tuned trail (relative to frame size) are

Marin Gestalt XR



The Terra gravel platform from Orbea





**The updated Stavanger from Pelago**



**Rondo Ruut CF2**



how Orbea has interpreted gravel specific geometry, and the company also offers the full MyO program to allow riders to configure their Terra to an extent that's unique in this niche of the industry.

**Merida [12.0 / A16]** is another key player in the gravel category. The Silex range is composed of eight models all with MTB-inspired geometry (long top and head tubes, and short stem) to offer the rider nimble, confidence-inspiring handling. The Silex 200 hardly seems entry-level with its full carbon fork, internal cable routing, and components by **Shimano [11.0 / A16]**, **Promax [9.1 / A23]**, and **FSA [12.0 / B15]**, yet it's easy to tell the difference in pedigrees once you check out the Silex+ Limited. This model is Merida's top-of-the-range, full carbon gravel and rough road specialist featuring more rugged 650b wheels and a wireless **SRAM [12.0 /**

**A18]** drivetrain. For those looking for a little support, Merida adapted the versatile Silex to a **Mahle [8.0 / H14]** rear hub motor to give us two models of the eSilex. If you like what you see in the Silex, Merida will present an all new Silex coming this fall.

It makes sense that **Marin [11.0 / A07]** first entered the gravel category years ago with bikes influenced by mountain bike design and engineering. Adventure cycling also played a part and, when unsupported long-distance adventure racing started to gain traction, Marin produced the Gestalt X series as its take on what gravel and adventure bikes can do. Gestalt X models are built with a longer-than-the-usual wheelbase, slack head angle, low-slung frame, wide bars, short stem, big, chunky 44 mm tires with room for up to 50 mm on 700c or 54 mm with a 650b wheelset. The Gestalt

X family consists of two models, the Gestalt XR, on display at Eurobike, and the Gestalt X10. Both models use the same Series 3 aluminum frame and full carbon fork, the flagship XR is equipped with a Shimano GRX 800-series 1x11 drivetrain, GRX hydraulic discs, and a dropper post.

As elite gravel racing continues to evolve and winning times come down, bicycles oriented toward aerodynamic optimization, like the **Factor [11.1 / A38]** Ostro Gravel, which was launched last year, claim to make the difference between a podium and "merely" a top-10 finish. By manipulating airflow behavior around the head tube before it can be disrupted by the rider and the bike, Factor engineered lower speed aerodynamic characteristics into the Ostro Gravel. Constructed from a blend of TeXtreme, Toray, and Nippon Graphite pitch-based fiber, the Ostro Gravel

balances Factor's signature lightweight design with a strengthened layup to handle the challenging conditions of gravel racing. A T47A threaded bottom bracket, rounded steerer tube, and internal cabling demonstrate the bike's gravel pedigree, while multiple mounting points provide versatile mounting options for essential accessories. Equipped with components from Factor's sister brand, Black Inc., and SRAM drivetrains, premium builds for the Ostro Gravel range from €8520€-€10,800.

From a casual ride on local paths to unsupported gravel races lasting hundreds of kilometers, gravel bikes have yet to reach their full potential – and maybe they never will, which would be a good thing for gravel riders who are always looking for new adventures – and for the bike manufacturers who will help them discover what they can achieve. ■ **WB**

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## OVERVIEW: CHILDREN'S BIKES

# BIG NAMES COME TO BIKES FOR LITTLE RIDERS

In an era dominated by screens and digital distractions, the bicycle is increasingly seen as an escape to adventure, freedom, and independence for children. It's also a means of transportation and physical activity for those who set the example of going by bike, and those who follow the example. Bikes designed specifically for kids cover a lot of distance - both literally and figuratively - to get more kids (to like being) on bikes. These are some bikes for kids that are less of an afterthought in a brand's product offerings, and more of an investment in the people who will champion the future of cycling.



Marcel Kittel and Tony Martin – two standout names from professional road racing – have joined forces to create a new standard for kids and youth bikes that's oriented around safety and innovation. **Li:on [8.0 / B52]** (for "light on") bikes have been designed with visibility as their key feature. Citing a statistic that 50 percent of all traffic accidents involving kids happen when they're riding their bikes to school, Kittel and Martin, along with a third partner, Franz

Blechschiidt, wanted to create the safest, most sustainable, and highest quality bicycles. They wanted a bike that was dedicated to the needs of young commuters – that would turn heads when the kids rode by.

The first model of Li:on Bikes features a composite frame and fork made in Germany from sustainable materials and assembled in Belgium. Compared to an aluminum frame's carbon footprint, the Li:on's frame material, its production method, and the fact that it's manufactured locally shrink its carbon footprint by 67 percent.

The frame design features a proprietary lighting solution that's built into the seatstays and is activated by motion sensors.

The bike is finished



**Early Rider Vello**



**Merida MATTS J+**

with reflective paint that promotes 360-degree visibility.

The idea for Li:on Bikes started when Kittel and Martin were out on a training ride and Martin was talking about finding a bike for his daughter to ride safely. The conversation led them to tally up the total number of kilometers they've ridden on public roads (more a million) and sparked the prospect of creating a reliable, innovative, and sustainable bike with safety as its guiding design principle.

"When Tony and I finished our careers, we both finally had time to enjoy our families, but we were also dads with a passion for cycling," Kittel explained. "When we had to buy the first bikes for our kids, we simply couldn't find a bike that really convinced us. So we decided to take bike standards from pro sports and use them – along with our experience – to create the best and safest bikes for our own kids."

Specifically, the two former pros wanted to focus on visibility and bring some features like integrated lights and cables to kids' bikes. The Li:on bike is for riders seven years and up with options for 24 or 27.5-inch wheels. The bike can accommodate a growing rider with a patented ergonomic stem that has three positions for

customizing the bike's fit. Production for the new Li:on bike starts this year with delivery to commence in spring of 2024.

While some bikes for kids coast along on name recognition, **Early Rider [11.1 / D12]** is the only kids' brand to have won the coveted Eurobike Gold award. The UK brand made a name for itself by producing a range of bikes for kids that want to do more than just ride to school. The brand has distinguished itself by making sophisticated, premium bikes.

The brand's focus has always been on adventure and, although known more for its trail and gravity expertise (having acquired the pioneering Lil' Shredder a few years back), its urban range is equally capable. Emphasis has been placed on kid-specific geometry and premium drivetrains and wheelsets. After seeing to it that all riders are covered by its ample range, Early Rider has made a point of making sure more kids are on bikes in the first place. To address falling participation numbers, Early Rider has introduced the Vello to help children as young as 10 months develop coordination,



**New Jam Bam from Puky brand Eightshot**



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better balance skills, and to help get them independently mobile sooner. The Velio is carefully aligned with a child's natural development. With features like: the Patented Active Balance Control system to make coordination development easy; intuitive point-and-go steering to help kick start the cognitive journey; a spherical shape that yields no tipping point; sealed cartridge bearings and just two contact points to preserve precious energy; a low slung frame to keep the center of gravity close to the ground; ergonomic wrap-around handlebars that put comfort and stability always within reach; and an adjustable seat pad with silicon cover that's easy to clean, it's no wonder that the Velio was in the running for a Eurobike award this year.

While still a young brand, **Bemoov [8.0 / D32]** has grown up in the last year and is now equipping its 20- and 24-inch wheeled bikes with kickstand, fenders, cargo rack, and lights. These accessories help strengthen efforts and fortify safety for kids who are increasingly choosing to go to school by bike. These additions also help prove Bemoov's claim to understand the needs of children who want keep riding bikes once they've learned how. From the 12-inch balance bike to the 24-inch bike, there are five models in the range, which feature color-coded brakes, an easy shifting system, a footrest on the balance bike, and frame geometries oriented around kids' biomechanics. They've also designed sticker kits to allow kids to personalize their bikes, which is also a clever solution for freshening up a hand-me-down bike from an older sibling. Bemoov is

also adding entry-level city bikes and all-road bikes, with the new models slated to debut in 2024.

**Puky [12.1 / B14]** has been producing children's bikes in Germany for nearly 75 years and has successfully evolved with the times. In 2017 Puky launched its sport-oriented Eightshot brand for kids from three to fourteen years old. The highlight for Eurobike is the new Jam Bam pump track bike from Eightshot, which is just as much at home at the dirt park as it is on the pump track. The Jam Bam's hydro-formed frame has specially designed dropouts that offer an uncomplicated chain tensioning mechanism and an integrated derailleur hanger. This means that the bike's use can be extended by converting the singlespeed drivetrain to a derailleur system. Other features include an air suspension fork from **RST [11.0 / A09]**, front and rear hydraulic disc brakes with 160 mm rotors, and 2.1-inch Kenda tires. The new Jam Bam is available with either 20" or 24" wheels for a starting retail price of 969 euro.

It's been almost 30 years since **Merida [12.0 / A16]** introduced its Merida Aluminium Tig-welding Technology System (MATTS), which has survived the test of time and remains part of the lineup today. The MATTS J range has put all the technology, attention to detail, and quality from Merida's bikes for adults into lightweight, high-quality machines for kids to enjoy. But then Merida cleverly

went a little "old skool" with its MATTS J20+ and J24+ and swapped in lighter rigid forks for the suspension forks that appear on other J models, and gave the J+ bikes plus-sized tires. By lowering the pressure in the bigger tires, kids can get some of the benefits of suspension without the weight. A kid-specific finishing kit, hydraulic disc brakes, and a Shimano drivetrain promise a lot of fun, without the fat.

Almost a kids' bike but not quite, **WeeRide [9.0 / A03]** has piled up a bunch of awards for its tagalong trailer bikes. Using a patented pivot system, the tagalong trailer connects to a bicycle seatpost to allow children from four to nine years of age to pedal or tag along behind a standard two-wheeled bike. Intended to help with the transition from child seat to bike, the tag along trailer has solved a few other

challenges as well since it allows kids to experience riding in environments that may be unsafe if they were to ride on their own, and it allows the lead bike to go at their own pace without having to monitor their child as well. The WeeRide Tagalong Trailer Bike complies with all European safety standards.

Children's bikes continue to be pivotal to how the bike will be perceived in the future. "Start them young" seems hollow compared to "Make cycling fun." As this area of the cycling industry keeps evolving to embrace new technologies and safety advancements, these sophisticated, pint-sized vehicles will undoubtedly continue to empower young riders and normalize riding a bike for growth, confidence, and good old-fashioned fun. ■ **WB**



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## OVERVIEW: WHEELS

# ENGINEERED FOR MORE THAN GOING ROUND IN CIRCLES

Wheel technology that's continuously redefining the boundaries of speed, agility, and comfort is also pushing for greater performance through precisely engineered hoops. The level of detail that goes into designing wheelsets these days corresponds to their specific purpose and price. See them all here at Eurobike.



**BLKTEC award-winning C1D wheelset**

From lightweight carbon fiber construction to aerodynamic profiles, each element in today's wheels has been meticulously engineered to maximize performance, minimize energy loss, and enhance the overall rider experience. Hookless design, spoke shape and lacing, and carbon fiber construction stay in the lead of modern technologies that boost performance, but not everyone has a need for speed and agility. For those cyclists who place a premium on reliability and durability, their wheels need to be more than just round. Spokes and rims are nothing without hubs and together, and the following manufacturers share a common goal: to advance the rider's forward momentum.

**Fulcrum [11.0 / C16]** declared the start of a new era when the Italian brand introduced its Speed 42 and 57 wheels in early May. The new wheels are the result of a process that included more than 4000 hours of testing in the wind tunnel, laboratory, and on the open road to achieve: higher, wider, lighter and more aerodynamic rims; a spoke design that's specific to these wheels; and a completely redesigned hub that's been singularly engineered to gain superiority over previous versions. Before announcing the new wheels, Fulcrum tested seven versions of the rim in multiple configurations in order to obtain the best performance in terms of aerodynamics, rolling resistance, low weight, and handling without compromising safety. By comparison to Fulcrum's previous wheels, some of the standout improvements include 42 mm and 57 mm profiles (in place of 40 mm and 55 mm sizes previously) that – when paired with 28 mm tires result in a 10 percent increased aerodynamic advantage in wind tunnel testing, ideal torsional stiffness to ensure maximum

power transfer, and less drag due to reduced flange and central hub body sizes. Fulcrum admits to a high level of detail to describe all the new technologies in the wheels – some proprietary, some not – but something that can be universally understood is weight: 1,410 grams for the 42 mm version, and 1,495 grams for the 57 mm version.

Earlier this year Fulcrum's parent company, **Campagnolo [11.0 / C08]**, presented even lighter wheels intended to add a super lightweight model to its extensive range. The Hyperon Ultra wheels tip the scale at 1240 grams and have been built with pure agility and performance as their underlying objectives. The engineers at Campagnolo identified a 37 mm rim profile as the optimal size to enhance agility and withstand rapid and reactive changes, while the 21 mm inner rim width offers extra weight savings. Some people may be thrilled by the wheels' hooked rims, others maybe not so much. The wheels combine various technologies, like Campagnolo's exclusive handmade ultra-light carbon (H.U.L.C.) process, with the highest



**Campagnolo Hyperon Ultra**



**Deda Elementi's top-of-the-line carbon SL6 wheels**

quality materials and engineering to produce wheels suited for specific scenarios, like high speed climbing, either solo or in a group, or tempo riding at speed.

Not known for mass-produced wheels but rather for products crafted to meet the needs of competitive cyclists, **BLKTEC [9.0 / E04]** has gained loyal followers who share its ethos that, "Nothing is worth doing if you aren't going to do it right. Demand the best. Expect the best. Ride the best." The company recently proved that it is the best by taking home the d&i award for its C1D wheelset in the parts and components category. The C1D disc wheelset comes in a one-piece full carbon design oriented around non-radial spokes. The wheels have been engineered with 40 mm deep and 28 mm wide tubeless, hookless rims to offer stable yet nimble performance, and they've been optimized for low drag and precise handling for riders seeking a competitive advantage. Owing to their unique structure, the C1D's yield no flex whatsoever, and, according to BLKTEC, this carbon wheelset helps convert an ordinary

race bike into a responsive, streamlined, aero solution that every racer strives for.

The wheels express the best benefits of BLKTEC's previous wheel models, like a no-flex design that transfers all the rider's power into forward momentum, disc brake compatibility, and adaptable to tires widths 25-35 mm. The company claims that the wheels highlight the latest technologies in car-

bon fiber wheels for road and all-road applications. Given its commitment to maintaining complete control over all design and manufacturing, it's a claim that BLKTEC can likely guarantee.

Some wheel needs require a precise level of expertise in wheel design and manufacturing for a range of wheel solutions. **Realworx [9.0 / C28]** has a reputation as a strong wheel specialist that supplies select European, Asian, and other customers with a variety of solutions, from the parts to support tubeless technology to their namesake hubs and complete wheels. The focus at Realworx is on providing stable and reliable wheelsets, as evidenced in their carbon and alloy wheels for gravel equipped with Realworx straight pull performance hub with either a 3- or a 6-degree engagement. The company stays competitive with disc brake-compatible carbon wheels for road, as well as carbon mountain bike wheels, both featuring Realworx hubs and meeting current market demands for rim widths and depths. If that's not enough, they also have an accessible price on CNC'd thru-axles and their own patented



**Fulcrum's new Speed 57**





**Novatec hub for e-cargo and e-mtb**

thru-axle quick release.

After hinting at what's to come in wheels for 2023 with the debut of a lightweight wheelset at last year's Giro d'Italia, **Deda Elementi [11.1 / A32]** dedicated itself to reworking its range for 2023. The big news is the introduction of the new SL6 DB, SL4 DB, RS3 DB wheels, and the Hero DB tubeless road wheel for time trial. The RS3 DB wheels feature some of the same hooked-rim, disk brake, tubeless-ready engineering, yet are made from attainable 6061 alloy priced at less than half the cost of the range-leading RS4 DB carbon wheels with ceramic bearings. A standout feature across the range is the new 7075 alloy RS-series hub, which boasts an 80-gram weight



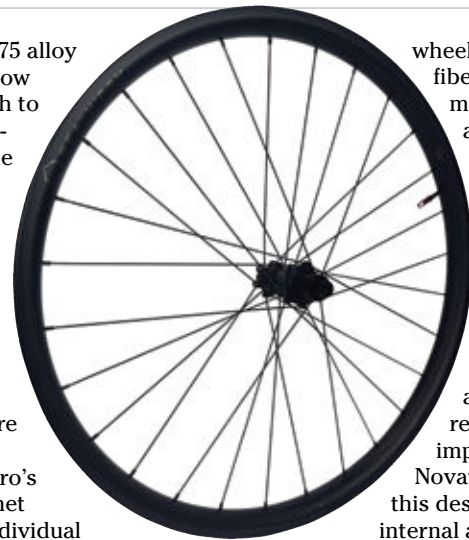
**Novatec G24 gravel wheels**

savings compared to previous generations, as well as compatibility with Shimano [11.0 / A16], SRAM [12.0 / A18], and Campagnolo. In particular, Deda pointed out that the SL4 and SL6 are top-of-the-line carbon wheels with attractive suggested retail pricing (€1350 and €1450 respectively). These two wheelsets (along with the RS4 DB) represent an important step for Deda to forge its reputation among the big players in road wheels.

**Joy Industrial [9.2 / A37]** created its Novatec brand in 1993 to reach the mid- to high-end range of the hub market. As the market has evolved, instead of always faster and lighter, some hubs now need to be able to handle the demands of e-cargo bikes and e-MTBs. Novatec has met these demands with two hubs dedicated to beefier bicycles. The mid-range Team hub has a durable and classic design with 33 ratchet teeth and three pawls. An upgraded hub shell and oversized bearing design improve strength compared to other Novatec hubs, while an interchangeable 7075

alloy axle and 7075 alloy cassette body allow the user to switch to a standard mountain bike hub. The Team level also offers 142 mm or 148 mm spacing, and center lock or 6-bolt disc brake rotor compatibility. The higher end Pro hub is even stronger and more durable than the Team hub. The Pro's enlarged 40 ratchet teeth and four individual pawls provide faster engagement; its durable hub shell and cassette body design make the Pro 30 percent stronger than Novatec's other MTB hubs. The Pro is also center lock and 6-bolt rotor compatible, and is available with boost 12x148 mm spacing. Both the Team and the Pro are compatible with Shimano HG 11sp, Shimano MS 12sp, and SRAM XD.

More recently Novatec entered the gravel wheel market with its G24 carbon fiber disc



**Realworx gravel wheels**



**Realworx road wheels**

wheelset. The carbon fiber rims feature a 28 mm profile that can accommodate tire widths ranging from 25-50 mm to give the rider tire choices depending upon the terrain. Novatec opted for a hookless rim design for an airtight fit to reduce drag and improve speed. Novatec claims that this design maximizes the internal air chamber space to deliver superior shock absorption and a comfortable ride experience. The G24's are tubeless-ready compatible.

Wheel and hub solutions like these meet a range of rider demands, from lightweight, fast, agile, and aerodynamic to rugged, top-performing, modest price, and so on, while also pushing the limits of performance. This relentless pursuit of perfection will forever give new meaning to "reinventing the wheel." ■ **WB**



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## OVERVIEW: OFFROAD APPAREL

# APPAREL MAKERS PACK MORE FUNCTION INTO TRAIL GEAR

Offroad apparel makers are tackling gravel, dust and unpredictable debris with an array of functional features – and sometimes an edgy twist.



“Weather can change, the trails can be easy or technical – so we designed apparel which is comfortable and relaxed for trail riding but also tailored and durable when things get rough.”

The range has on-body storage options for helmet chin bars, loose items, hydration, jackets and more.

**Löffler [Hall 11.1/B29]** has put more effort into its mountain biking shorts, which have detachable inner pants with comfy seat pads. The Lily for women and Lance for men are made from durable, quick-drying and breathable fabrics. The shorts are cut to a comfortable fit, to ensure freedom of movement on the trail. The shorts are easy to adjust with scratch fasteners on the side.

At Eurobike, **Leatt [Hall 11.1/B28]** is launching an entirely new range of apparel for cross country and gravel riding, intended for endurance. The assignment was to deliver comfort, functionality and performance in a range of temperatures and weather conditions. Leatt says it used 3D software to optimize ergonomics for endurance riding, and a purposeful combination of technical fabrics. The padding comes from Elastic Interface, the high-end Italian supplier.

“The Endurance range brings to the table the same standard of products we are known for in other segments to this market,” said Kris Kurowski, Leatt’s international marketing manager. “High performance products, which provide the rider with comfort and functionality.”

The products were developed with input from the Speedcompany racing team and used in the 2023 Cape Epic race – a pretty convincing test for endurance.

Separately, Leatt has entirely revised its apparel offering in the all-mountain and electric mountain biking segments. “They need durable and functional apparel with on-body storage solutions,” said Kurowski.

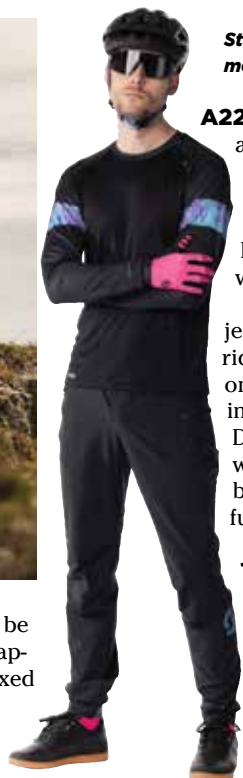


When it comes to mountain biking jerseys, the Austrian brand’s range has been expanded with a three-quarter sleeve. It comes in separate versions for women and men, with a mix of functional materials. They are partly recycled, and the knitting is Austrian.

The Lycra fabric in the gravel bib shorts by **Nalini [Hall 11.1/B13]** is very suited for sports garments. The Italian company said it provides optimal muscle support and UV protection.

Nalini has added pockets in resistant mesh on both side panels, for phones or cereal bars. The braces are in soft microfiber elastic and the hem is clean cut with inside silicone grip.

The dyed polyester material used for the Trail Tuned short-sleeve jersey by **Scott [Hall 12.0/**



**Stay Tuned with Scott’s mountain bike apparel**

**A22]** gives it a stand-out appearance. It’s mostly intended for trail chasers who are into steep and hard riding under any weather conditions.

The cut of Scott’s jersey is optimized for riding and performance on the bike. It integrates Polartec Delta technology, which improves the body’s natural cooling function.

**Zimtstern [Hall 11.1/D11]** is making a statement in the mountain biking apparel market with the Pure Flowz range, which uses earthy colours and comfortable fits.

Hans Allmendinger, managing director, explained that the brand was created by Swiss snowboarders. It was taken over four years ago by Allmendinger and Sonke Vöss, targeting the performance winter apparel market.

When it comes to cycling, they held on to popular pieces such as the Zimtstern shorts, but they started rethinking the entire offering around trail and enduro riding. “We wanted to offer real mountain biking apparel, not inspired by motor cross or road cycling,” said Allmendinger. “The range is more inspired by nature.”

The pieces have a natural and comfortable feel, such as the Tech Hoodz. The waffle-structured fleece on the inside makes it particularly cozy, and it creates a comfortable micro-climate. Combined with recycled polyester, Allmendinger said the structure is breathable, and it exports moisture to the outside.

Even though it resolutely targets mountain riders, the hoodie could easily be worn in the city as well, or for other outdoor activities.

If the sky looks menacing, the latest “bad weather jacket” from **Maloja [Hall 11.1/C18]** will come in handy. It comes in two versions, the Mutmal Spitze for women, and the Collerin for men.

The jacket has a casual appearance as well as technical features for active pursuits. Its taped seams help to make it waterproof. At the same time, it’s highly breathable, due to a three-layer cembra light material that is partly made with recycled fabrics. Four-way stretch material makes the jacket



comfortable, and venting zippers under the arms help with ventilation.

These Maloja jackets are intended for mountain biking and enduro rides, but they can just as well be worn for commuting under the rain. The cut is anatomically shaped with a longer back. There are two zip pockets for storage and a hood that fits over a bike helmet.

The fit of the Maze Script jersey by **Briko [Hall 11.1/B06]** makes it suitable for off-road riders and

most other cyclists. The Italian supplier says it’s a technical jersey with fabrics that make it breathable and that allow for efficient thermo-regulation.

The Maze Script comes with raw-edge sleeves, and a design that is intended for lightness. The construction of the neck has been carefully studied to eliminate any chafing on the skin and accompanying discomfort, Briko said. The elastic at the bottom of the shirt and the inner silicone provide extra comfort and stability in the saddle. The reflective detail on the back pocket helps for safety.

It’s probably relevant for many riders that the jersey comes with fabrics and packaging entirely made in





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## HP VELOTECHNIK DELTA TX SCOOTER TRIKE E-CHOPPER FOR THE COMFORT GENERATION

A world premiere from HP Velotechnik at the Eurobike fair: the Delta tx scooter trike combines e-mobility and ergonomics with high-quality design and smart technology

With the Delta tx, HP Velotechnik **[Open air ground F10.0 / D28]** offers a scooter bike with a high comfort seat and easy access. The trike was specifically developed for people who want a lot of support and comfort when cycling and therefore need a stable, tip-resistant vehicle with a low entry height.

CEO Paul Hollants explains: "Our goal was to take the concept of a senior tricycle to the next level." But during the test rides, the company quickly discovered that the bike is also enormous fun to ride. "The Delta tx is being very well received across generations. You don't need to be a certain age to enjoy the casual riding position on a chopper."

The Delta tx is a lightweight (from 32 kg) in the e-scooter trike class. It can be disassembled into three parts in a matter of minutes for transport. The trike is a reliable, highly stable and solid vehicle that can also carry plenty of luggage the rear platform carrier is designed for a payload of up to 25 kg.

Three electric motors from Shimano



and one from Bafang are available for the Delta tx. A fully automatic gearshift is also available, along with the WingBling, a bicycle turn indicator that meets German road traffic regulations. The two different mesh seat types are each available in two heights and widths. The Delta tx will be available from bicycle dealers from €5,990 from the beginning of 2024

## LITEMOVE OFFERS SIMPLIFIED FE CABLE SOLUTION FOR E-BIKE LIGHTING

Lights have become an increasingly standard component on electric bicycles. They're often included when purchasing a bike, adding safety and confidence for the rider. However, like all components, time, climate, external damage, and other factors mean lighting units will eventually require servicing.

Unfortunately, the lighting systems on most electric bikes are assembled with little thought to ongoing maintenance. Instead, complicated and inaccessible wiring can cause difficulties for mechanics and result in unnecessary redundancy.

To solve this problem, **LiteMove [Hall 12.1 / C18]** has launched its FE cable solution for electric bicycles. This system reduces the complexity of bicycle assembly and lowers the associated costs, while simplifying follow-up maintenance.

The firm's FE Cable Solution allows wires to be pre-routed alongside other cables, such as those controlling shifting and braking. With lights installed after other control cables, its clip-together fastenings simplify the assembly process and lower the

electromagnetic interference caused by poor routing.

LiteMove will offer the FE cable solution with specifications to match different e-bike motor systems including Bosch, Shimano, and Yamaha. Cable lengths can also be varied according to the individual needs of the bike's assembly plan.

Introducing the FE system is also helping LiteMove realise its green design strategy. This sees the firm utilising green materials to implement technologies that improve efficiency and performance while minimising waste and energy consumption.

You can find the new FE cable solution along with LiteMove's latest lighting products at Eurobike in Hall 12 today. **JD**



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## OVERVIEW: E-BIKE ACCESSORIES

# MAKING YOUR E-BIKE TRIPS SAFER, COMFIER AND MORE CONVENIENT

E-bikes can carry heavier loads and accelerate faster than regular bikes. But they're also heavier and trickier to manoeuvre. These differences and many others haven't escaped accessory and component manufacturers. From saddles and helmets to panniers and rear-view mirrors, brands have been busy tailoring their designs to meet the needs of e-bike riders. You can check out some of their latest ideas here at Eurobike.



*Croozer makes trailers for transporting your kids, your pets, or your stuff*

One of the great benefits of electrical assistance is the ability to haul extra weight without extra effort. **Croozer [8.0 / A09]** makes a range of trailers perfect for doing this while ensuring your pals can tag along for the ride. Its Kid Vaaya 2 trailer is a bike and buggy type trailer with space for two children. Its ergonomically designed seats feature breathable Climatex material, while an AirPad suspension system ensures a gentle ride. Weather can be kept at bay via plastic windows and a rain cover that's also UV resistant. Finally, safety is ensured through features including a built-in light, reflective piping, and a parking brake. For furry family members, Croozer also makes the Enna dog trailer. This includes many of the same features and comes as standard with grippy off-road tyres for adventurous riding.

Bikemaker **Tern [12.0 / A04]** has become famous for its utility e-bikes, many of which can replace a car. This

aim is supported by a wide range of accessories that allow riders to carry luggage and passengers easily. This year the firm is offering a couple of upgrades to its rear-mounted Captain's Chair and Clubhouse seats. Its Nitelite Rear and Nitelite Side lights are IPX4-rated LED lights that increase visibility at night or in the rain. The units are designed to fit into the passenger seats' sides or rear-facing bar ends and provide illumination to make the bike appear more noticeable and broader. Boosting safety in numerous situations, they're helping e-bikers and their passengers claim a fair share of the road.

Helmets are a vital area on which designers are now focusing on the needs of e-bikers. The NTA quality mark was among the first e-bike and speed pedelec helmet standards. Indeed, riders of the latter are typically required to wear an approved helmet



*Velo E-City saddle range offers ergonomics and features to match the needs of e-bikers*



*Comfy E-Bike grips from Velo aim to boost control*

by law. The NTA standard retains most of the features of the EN 1078 standard but refines its requirements based on the higher average speeds of e-bikes.

**Falko BV's [9.2 / D14]** Lynx is an example of an NTA-certified helmet. This stylish black lid comes in City Pro and Visor Pro versions. The second of these features two removable visors, one clear and one tinted. These make it great for high-speed riding in variable conditions. Both versions also benefit from an in-mould construction with a polycarbonate outer shell and EPS inner, ten vents, and a dial-based adjustment system.

Germany's **Abus [12.1 / A29]** also has an e-bike-specific helmet in the form of the Purl-Y. This helmet again meets the enhanced NTA 8776 standard and is approved for use when riding speed pedelecs with assist speeds of up to 45 Km/h. Its styling is tailored to urban e-bike riders and features a minimalist aesthetic complemented by a short removable visor. There's also a magnetically attached light on the rear of the lid, plus mesh screens on the vents to prevent bugs from being sucked into the vents as you whizz along. The helmet comes in three sizes, nine colourways, and a limited two-tone ACE edition.

Saddles represent another area ripe for e-bike-specific design because the addition of electrical assistance changes the way riders sit and pedal. At the same time, the extra weight of e-bikes is also making saddlemak-

ers to reappraise their designs. You can find saddles created for the needs of everyday e-bikers at the **Velo [12.1 / A10]** stand. These include the new E-City Saddles range, which feature broad profiles and a tail-up design to support the rider when seated, along with a carry handle to help them manoeuvre their bike. The firm has also looked to accommodate e-bike riders elsewhere in its range with the launch of its E-bike Grips. These feature

Velo's Microtech technology to increase positive contact with the handlebar while offering a pressure relief design that supports alternative hand positions. Both products are available through the firm's OEM range.

Saddle makers **Selle Royal [12.1 / A28]** have followed a similar path. Its ON range of e-bike saddles offers a unique E-Fit design. This includes flexible sides to facilitate pedalling, while an elevated rear helps you find the correct position and avoid sliding backwards when accelerating. The back of the saddle features a soft-touch rubberised grip for lifting and handling the bike, while the styling is suitably restrained to match the product's intended urban environment. The line spans a range of riding styles, with Relaxed, Moderate, and Athletic models catering to riders with more or less upright positions.

The ability to transport luggage means that bags are among the most popular additions to utility and commuter-focused e-bikes. **Basil [12.1 / B09]** offers a huge range of



*Falko's Lynx helmet meets the NTA standard for speed pedelecs*



*Abus' NTA standard-compliant Purl-Y helmet offers urban styling*



*Selle Royal's On range comes in Relaxed, Moderate, and Athletic profiles*



*Add lighting and boost space on the road with lighting upgrades for Tern's passenger seats*



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bicycle bags, fastening systems, and accessories. Its new Navigator Storm panniers are particularly well-suited to e-bikers. First, they feature a substantial individual capacity that can be expanded to 31 litres, useful when you've got a motor to help convey your shopping home. Secondly, they use MIK's robust fitting system, which lets you drop the pannier into place. Then there are additional features like an IPX3 waterproof rating and reflective detailing across all three visible sides. If you want to really load up, Basil also produces extra trunk bags that can be carried on the top of the rack. These are also compatible with MIK's locking system, so you can safely leave them on the bike when parked outside.



**Basil Navigator panniers are MIK attachment compatible and offer huge carry capacity**



**Lotus Cargo Cruiser pannier is perfect for organising your luggage**

The Cargo Cruiser Pannier from **Lotus [D31, Hall 9.1]** is designed for the modern urban commuter who needs a reliable and sturdy storage solution. As its name suggests, it's particularly applicable to the electric-assist cargo category and offers ample storage space to carry all your essentials, from groceries to work supplies. Created from durable and water-resistant material, it can withstand daily use in all kinds of weather. Inside you'll find a lip pocket for holding smaller items such as keys, phones, or wallets, while the front pocket is ideal for storing larger items. The two inner mesh pockets help organise your belongings, while the two bottle holders are protected to hold wines and other beverages securely. This pannier is also perfect for carrying groceries from the supermarket. The adjustable strap system lets you quickly tighten the horizontal and vertical lashings to secure anything from boxes to oversized items. This ensures that your belongings stay securely in place, even when you're cycling through rough terrain.



**Barbieri's Roccia tubes focus on durability rather than weight**

Many specialist firms are also turning their attention to tailoring their products to the e-bike market in ways that could easily go unnoticed by the untrained eye. The Bologna-based inner tube maker **Barbieri [9.1/D04]** is among them. Its new Roccia thermoplastic polyurethane (TPU) tube is designed for e-bikers who don't count

grams but are more concerned with their inner tubes' sturdiness and puncture resistance.

Formerly associated with lightweight products, these uprated TPU tubes are three times more puncture-resistant than regular butyl models. Like the rest of its range, they're 100% made in Bologna, Italy.

Maintenance brands have also been examining their offerings. **Weldtite [9.2/C15]** has designed its latest cleaning range with retailers in mind. Its eBike Care Kit should be an easy up-sell for those purchasing an e-bike. Like the rest of its cleaning range, the kit aims to protect and optimise. It features biodegradable eLube and Citrus Degreaser, plus the Bike Cleaner is cruelty-free, vegan-friendly and scented with natural lemon. All products are specifically formulated to be safe on e-bikes, while the lube is engineered for high-torque drivetrains.



**Maintenance tailored to the needs of e-bike riders courtesy of Weldtite's E-Bike Care Kit**

Finally, accessory brands are getting in on the act. Among them is **Hafny [9.1/E40]**, which is ready to provide the finishing touches for your e-bike in the form of carefully tailored pedals, grips, and mirrors. Many of these products have been specifically adapted to the needs of e-bike users. New this year is its E13-approved FR011 handlebar mirror. This mixes high-quality aluminium construction with a large-diameter glass lens. Its design offers two pivot joints to adjust to any desired angle, while its clamp can fit 21-26mm handlebars.

Another E13-approved product is the FR08 mirror which is intended for riders with limited space on the handlebar and is available with a standard HD or anti-glare blue glass lens. Finally, the FR053 features a hidden adjustable joint ball for a slicker appearance and 360-degree rotation and foldaway capabilities. ■ **JD**



**See what's coming up behind you with Hafny's range of e-bike mirrors**

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## OVERVIEW: SADDLES

## GET COMFORTABLE WITH OUR GUIDE TO THE BEST SADDLES AT EUROBIKE

The best saddles are barely noticeable, while the worst really make themselves known. Finding something supportive and comfortable enough to fade into the background is one of the most crucial steps to improving your riding experience. To help cyclists achieve this, saddle makers must combine the latest ergonomic research with the best materials. Add into the mix the desire to create places to sit that are less taxing on the environment, and you have one of cycling's great design challenges. Below are some of the newest solutions, right here at Eurobike.



The Selle Royal Lookin Evo offers familiar comfort with reduced environmental impact

Saddle master **Velo [12.1 / A10]** is bringing new models and a fresh approach regarding sustainable manufacturing to this year's show. Recently added to its extensive line-up is the VL-3628, a versatile saddle suited to a wide range of trekking and commuter e-bike riders. Its ergonomic design has been particularly tailored to electrically-assisted riding. The 160mm width imparts a better-seated position, while a tail-up design supports the rider when going uphill. Elsewhere, a built-in carry handle helps riders manoeuvre heavy e-bikes. A wide range of riders are supported, and the saddles have passed a stringent 150kg loading fatigue test so that larger users can pedal in confidence. Finally, Velo's patented Airform foam and Atmos shaping technology provide comfort, sleek looks, and waterproofing. Elsewhere the firm has been working on other less visible developments. These include creating several different processes to minimise wastage and environmental impact. As a result, foam and EVA wastes are now recycled in-house before being returned to the production line. The result is less waste going to landfills with no loss in the quality of the final products.

After the success of last year's SLR Boost 3D launch, **Selle Italia [11.1 / B23]** is back with the Novus Boost Evo 3D. This latest version features a breathable 3D-printed cover with a proprietary shape. The saddle's wave-like profile is aimed at riders with a posterior pelvic rotation who need a more stable position. Its makers then add something called Carbon



Selle Italia Novus Boost Evo 3D features a breezy 3D-printed top

DLSTM technology. This allows for differentiated cushioning zones, which deliver progressive cushioning across the entire surface. Made in Selle Italia's idmatch size L3, the saddle features a Superflow cut-out to reduce pressure on the perineal area and comes with titanium or carbon rails. The firm's Greentech collection is also growing with the addition of the Model Y. This off-road capable saddle has a neutral shape for riders with either an anterior or posterior pelvic rotation. It features a Superflow cut-out to reduce pressure on the perineal area. Nevertheless, it's happy in the rain and mud, thanks to a cover that's closed to prevent dirt from passing through the cut-out. Just as unique is the low-environmental impact of the saddle's production. This involves assembling the saddle components mechanically, without using any adhesives, solvents or other pollutants. The materials used can also be recycled at the end of the product's lifespan. Furthermore, all elements of the saddle's creation occur within a 15-kilometre radius of Selle Italia's headquarters to reduce the product's transport demands.

Korean bike-fitting expert **Vazalab [9.1 / G49]** has two new saddle products, the Cheetah and the Darkbull2. Both pursue the purpose for which the brand was set up in 2016: utilising ergonomics to create anatomically supportive and comfortable products. Drawing on over 2,000 individual anatomical analyses, these have been paired with extensive riding data to create saddles that look conventional but provide defined ergonomic benefits. The shape of the Cheetah and Darkbull2 saddles concentrate on the area where the pelvis makes contact. This is carefully engineered, with additional gel added to provide even greater comfort. The wider Darkbull2 is recommended for general use and customers who want a more comfortable ride in the short term.

Bike-fitters Vazalab bring ergonomic expertise to bear on its saddles



Velo's VL-3628 adds features for e-bikers along with extreme robustness

Riders keen on longer distances or with a high pedalling cadence should check out the Cheetah.

**Fizik [12.1 / A28]** has just launched new versions of its Aliante and Antares saddles. First, the Vento Antares 00 is a high-performance saddle with a streamlined shape for maximum stiffness and minimal weight. It boasts a full-carbon construction and is designed to provide a responsive connection and improved power transfer. It aims to better utilise the entire saddle surface thanks to a slightly widened nose that enables easier movement fore and aft. At the same time, a central cut-out should eliminate pressure hot spots, even when you're tucked low in a forward-aero riding position. By comparison, the Aliante R1 focuses on endurance road cycling and features a waved profile designed to maximise comfort. This is twinned with double-density foam and a pressure-relieving cut-out. Although aiming to provide all-day comfort, the saddle remains lightweight



Fizik has just launched new high-end versions of its popular Aliante and Antares saddles



thanks to a carbon rail option.

Well-known maker **Selle Royal [12.1 / A28]** has recently launched the Lookin Evo. This redesign of its popular model focuses on using recycled and organic materials. It's part of a concerted effort by Selle Royal to reduce the carbon footprint of its products and supply chain. The Lookin is a popular choice for recreational and commuter cyclists. The University of Padua sought to measure the environmental impact of the saddle

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## 611 INFINERGY ERGOWAVE CARBON SADDLE

SQlab's latest saddle is 100% Made in Germany, using Swiss-made carbon rails. The BASF Infinergy® material is robust and lifts comfort to a completely new level, especially on rough terrain, thanks to its fast rebound characteristics. Thanks to the new material, there is no need for a full-size cover — instead there are bonded "tapes" on the most important

places, using one or two layers to fine tune Infinergy's damping characteristics. SQlab's "active" 2.1 saddle technology allows the saddle to follow the pedaling motion, increasing comfort, mobilizing the intervertebral discs and minimizing pressure on the sit bones. [www.sq-lab.com](http://www.sq-lab.com)

Hall 11.1 / B24







**Selle Orient offers reasonably priced saddles with sensible e-bike-specific features**

from creation to end-of-life. They then worked with Selle Royal to redesign the product. As a result, the new Lookin Evo's base is made using 100% recycled plastic, while the cover consists of 50% organic materials, specifically soy oils not used for food purposes. It also does without chemical plasticisers. The result is familiar comfort with a 24% reduction in carbon emissions. It's not the only innovation from the brand. Its other key launch means there's now no need to fear a cold bottom when riding your bike in frosty conditions. That's because the *Essenza+* saddle with Heating Technology uses energy from your e-bike battery to warm up your saddle. Activated via a button under the saddle, it heats its surface to 37° in 30 seconds, ensuring a pleasantly warm saddle whenever you want it. Temperature, activation and deactivation mode are adjustable at the factory.

**Xingtai Jiuqi Cycles has integrated lighting modules into the back of its latest saddle**



The new saddle is based on the firm's popular and versatile *Essenza Moderate* model. Despite its new electric, this heated version remains sleek looking and entirely waterproof, while its *Strengtex* cover is highly resistant to punctures and ageing. Selle Royal's Heating Technology now also features on e-bikes from Riese & Müller and is compatible with Bosch's CX motors.

China's **Xingtai Jiuqi Cycles [9.2 / G14]** makes a comprehensive selection of products, including saddles for adults and children. It's also experimenting with adding electronics to its designs. Its *JQA-21226* saddle is a well-padded 155mm wide model with a generous central cut-out. It's topped with durable and environmentally friendly polyurethane material. However, what makes this saddle stand out among the firm's range is its luminous tail light design. This is built into the back of the saddle and provides additional discrete lighting to help keep the rider safe.

Practically-minded **Selle Orient [9.2 / D14]** offers a broad range of saddles focusing on practicality and value. Like many manufacturers, it's recently invested in creating e-bike-specific models. Its *E-comfort* saddle features a hand grip at the rear, making it easier to move heavier electric bicycles. The saddle's broad unisex profile is upholstered with high-density polyurethane foam. The

saddle has a high-quality finish that's waterproof and free from toxins.

The new *ES Saddle Series* from **Ergotec [12.1 / B23]** spans ten unisex models. Divided into four different shapes, these are known as *Performance*, *Active*, *Comfort*, and *Comfort Plus*. Each shape is then available in soft, medium, and firm versions, allowing the range to cover the complete spectrum for everyday, leisure and sports use. In developing its ergonomic saddles, Ergotec has focused not on the anatomical differences between men and women but on the distance



**Velo has made serious steps to reuse material within its production lines**

between the sit bones. This is because the space between the sit bones can vary from small to large in both women and men. Further features include a pronounced ridge in the middle of the saddle that shifts load onto the sit bones and relieves the perineum or pubic bone.

At the same time, the firm's *Flex T-Zone* adapts to the contour of the rider and prevents excess pressure while protecting the perineum and pubic bone. Finally, *Comfort Cut-outs* under the sit bones and along the centre of the saddle work with the flexible shell to further relieve pressure in sensitive areas.

Finally, **PRO [11.0 / B20]** has a pair of new



**Ergotec has a new range of unisex saddles that spans ten individual models**

saddles for electrically assisted and conventionally powered enduro mountain bikers. First up is the *PRO MSN 1.3 Enduro*, a short-length saddle designed specifically for Enduro mountain bikers and technical trail riders. It features a lightweight carbon-reinforced base with robust stainless steel rails and durable polyurethane padding. Its short-length design ensures that it remains out of the way when needed, making it perfect for use with a dropper post. Its steel rails are tough, while it's insured against poor weather thanks to an abrasion-resistant cover material and a pressure relief cut-out that also acts as a drainage port. This perch also has a sibling in the form of the *MSU 1.3 E-MTB* saddle. This e-mountain bike version includes many of the same features. However, it's optimised for a more upright body position. This reflects how e-MTB riders spend more time delivering power from a seated position and the increased suspension travel on many electric enduro bikes. Both versions



are available in 142 and 152-mm widths.

■ JD

**PRO's aggressive new MSN 1.3 Enduro saddles come in versions to suit electric and conventional bikes**



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## PRODUCT OVERVIEW: ROAD AND GRAVEL TYRES

# ROAD TYRES GET BIGGER, AND GRAVEL TYRE OPTIONS MULTIPLY

How big will road tyres go? As disc brakes become ubiquitous, manufacturers design bike frames to be built for both road and gravel, and tyre clearances get ever bigger, road rubber is bound to follow suit, especially now e-road bikes are increasing in popularity.

*The Scott Solace eRide is the first bike to be specced with Schwalbe's new Pro One Evo 38mm tyre*



One case in point is **Schwalbe [12.1 / A27]**, with its Pro One Evo tyre. The latest version combines Schwalbe's Addix Race compound, for maximum grip and performance, with the Super Race carcass which has a two-ply construction and an extra ply on the sidewalls for better protection against cuts and snakebite punctures. Schwalbe says that it's the best road bike tyre it has ever developed, and a new 38mm size of the tyre was recently specced on the new **Scott [12.0 / A22]** Solace e-Ride bike; all of the 700c Pro One Evo tyres from 25mm upwards have an E-25 rating, meaning they're suitable for e-bike use.

**Pirelli [11.1 / A28]** might not be going as far as 38mm with its road range yet, but the newly-announced P ZERO Race 4S TLR is available in 28mm, 30mm and 32mm widths. Designed as an all-season race and fast riding tyre, the P ZERO Race 4S TLR incorporates many of the same technologies found in the other tyres in the P ZERO range. It's designed to work perfectly either as a tubeless tyre with Pirelli's P ZERO sealant, or with Pirelli's SmartTube TPU (Thermoplastic Polyurethane) lightweight inner tubes.

The P ZERO Race 4S TLR tread is made with the award-winning SmartNET Silica compound, the same used in the Cinturato Velo tyre. SmartNET is a silica-based molecule with outstanding qualities on wet and/or typical cold-weather surfaces. Combined with the SmartNET Silica on the outside, the P ZERO Race 4S TLR uses Speedcore technology in the



*Independent testing commissioned by Michelin found that the Power Cup had the least rolling resistance among its peers*

casing, an Aramid layer that helps to make the tyre airtight whilst also offering low rolling resistance and increased puncture protection.

Is the Power Cup the "fastest ever road tyre"? That's the claim that **Michelin [11.0 / B14]** is making. It says that in independent testing by tyre and engineering experts Wheel Energy the 25mm version of the Power Cup tyres was tested against 25mm versions of key competitors for rolling resistance, grip and puncture resistance, and the results put the Power Cup on top with the lowest rolling resistance of the tyres on test, whilst also delivering excellent levels of grip.

There are tube type, tubeless and tubular versions of the tyre, all using the same Gum-X compound that borrows from Michelin's Moto GP technology. All three are available with black or classic sidewalls in sizes from 23mm to 30mm. The tube type and



*The Hartex X-Grit uses an unusual triangular knob pattern*

tubeless versions have a 3x120TPI casing, with the tubular tyre using a different 2x160 TPI construction.

**Tufo [11.1/A13]** is showcasing a couple of new tyres in the road and gravel sphere. On the tarmac there's the Comtura Prima TR. Available in 25mm and 28mm widths, the Comtura Prima is a new addition to the road range, and Tufo has developed new compounds specifically for the tyre. The new tread compound is designed to provide excellent grip in all conditions, but especially in wet weather. The Comtura Prima TR is tubeless-ready, and is designed to be paired with Tufo's own sealant. On the gravel side Tufo is offering the Gravel Thundero, "A universal tubeless ready tyre for those who don't want to think about where to go." The middle part of the tread is tightly packed for smooth rolling and low noise, and the tread breaks into three rows of knobs on the shoulder to provide some bite when cornering. There's a puncture-proof ply under the tread to guard against punctures, and a Jubena layer that covers the sidewalls to stop stones or thorns damaging the tyre.

Indian manufacturer **Hartex [9.2 / B14]** is showing its X-Grit gravel tyre at the show, which uses a triangular tread pattern. There's a closely-spaced middle section and an intermediate tread before two rows of higher shoulder knobs to tackle the more difficult terrain. It's available in 40mm and 47mm sizes, and as a 540g folding tubeless tyre. There are options for black or tan sidewalls. Hartex describes the X-Grit as "a mainstream gravel all-rounder", and it's also suitable for use with e-bikes.

The Bootlegger from **Innova Rubber [9.1 / D08]** is another



*The Grus from American Classic is a fast-rolling race tyre for gravel*

tyre that's designed with a semi-slick centre for fast rolling on tarmac, combined with a more raised shoulder profile for when the going gets looser: It's a good choice for rides that mix tarmac sections with paths and trails. The Bootlegger comes in a 29x1.75" size (700x45c) with a 60TPI casing.

The **American Classic [11.1 / B25]** Grus is offered in a 40mm width as "the ultimate choice for gravel racers looking to gain an edge on the competition." The tyre has a low-profile tread with a tightly-packed central area and a single row of aggressive shoulder knobs for control in corners, and on rough terrain. In between the two there are open transition knobs that prevent mud and sand build-up. The Rubberforce G compound offers excellent abrasion resistance, high tensile strength, and good tear and cut resistance for riding off-road, and the 120TPI casing has a tubeless-ready coating and a bead-to-bead Nylon protective layer.

Much of the innovation in road and gravel has been with tubeless, but there are also new technologies coming to the fore in inner tubes too. **Barbieri [9.1 / D04]** is one manufacturer that's working with TPU (Thermoplastic Polyurethane), a material that's half the weight of butyl rubber for the same level of puncture and pinch resistance. Barbieri makes its NXT inner tubes in Italy, and a standard 700x23-32 tube weighs just 60g. They're ideal for riders looking for weight savings, and also as a compact backup for a tubeless system if a tyre refuses to seal out on the roads or trails. ■ DA



*Barbieri's NXT tube is half the weight of an equivalent butyl tube*



*The Pirelli P ZERO RACE 4S is a high-performance tyre for competitions or training*



*Tufo developed new compounds specifically for the Comtura Prima tyre*



*Innova's Bootlegger is a good choice for rides that take in tarmac and trails*



# BESUCHE DAS HOUSE OF BRANDS AUF DER EUROBIKE



»» Halle 11.1 | Stand A38

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## OVERVIEW: APP &amp; NAVIGATION ECOSYSTEMS

# OUTDOOR NAVIGATION: SMARTPHONE AND GPS DEVICES GROW TOGETHER

Current trends in navigation fall into five areas: cooperation, communication, endurance, assistance and anti-theft. The market has become more difficult for hardware providers. Surprisingly, the toughest competitor to outdoor navigation devices offers a way out: the smartphone.



Garmin's new Edge 840 cycling computer now has full button operation in addition to the touchscreen

Shortly before Eurobike, Garmin introduced its new multisport watches fenix 7 pro and Epix pro, which are available in different sizes and features, also as a solar edition



several outdoor apps with similar functions, even free of charge. In addition to the quick and easy calculation of cycling and hiking tours, komoot has always taken care of another customer-friendly functionality - the data transfer from the PC with the komoot internet portal to the smartphone. Komoot was also quick to develop interfaces to the outdoor navi from **Garmin [11.1 / B14]**, **Wahoo, Sigma [12.1 / B32]** and **Bryton [11.1 / A23]**, and in the meantime the komoot connection has almost become a standard application on their devices, along with Strava and other regional partners. Komoot has recently optimised this tour transfer for Garmin devices in particular and is now demonstrating at the Garmin stand at

Eurobike how you can send the komoot tour planned on your smartphone to a Garmin device at the touch of a button.

### Cooperation: GPS device and smartphone grow together

When it comes to the classic question of "smartphone or GPS device?", cooperation rather than confrontation seems to be the order of the day, i.e. user-friendliness instead of functional diversity. For the use of the classic outdoor navigator - regardless of the brand - the smartphone is taking on an ever-greater role. Wahoo, for example, has shown how easy it can be to set up the navi via the smartphone, and other providers have followed this example.

Above all, the mobile phone serves as a bridge to the internet on the road, and takes over route calculation, voice recognition and emergency communication. However, the smartphone takes up less and less of its place on the handlebars - especially during sporting activities and long-distance rides - but remains in the jersey pocket, because



Keep it Simple is the motto of the Beeline Velo 2. The desired route is calculated via an app, and navigation works surprisingly well due to the clear track line and indicated path intersections.

the mobile data centre is becoming increasingly irreplaceable for its user. A fall, damage, even a failure for just a few hours now has catastrophic consequences, not because of navigation or route documentation, but because without a smartphone, bank transfers or authorisation processes can no longer be carried out.

### Endurance: several days are no problem

In addition to their robustness and all-weather capability, providers such as Garmin and Bryton have been able to extend a classic advantage of GPS devices even further: the running times of their devices. While Garmin was already able to offer battery runtimes of up to 45 hours with its solar-powered models like the Edge 1040, recent devices last much longer. For example, Garmin claims that its GPSMap 67 handheld has a runtime of 170 hours, and the eTrex SE, which is powered by two Mignon cells, is said to last 160 hours. This is supposed to be made possible by a new, power-saving chip generation. Garmin's latest cycling computers, the Edge 840 and Edge 540, which are also in the spotlight at the Eurobike, offer considerably shorter runtimes of 32 hours (for the solar-powered versions), but they are certainly

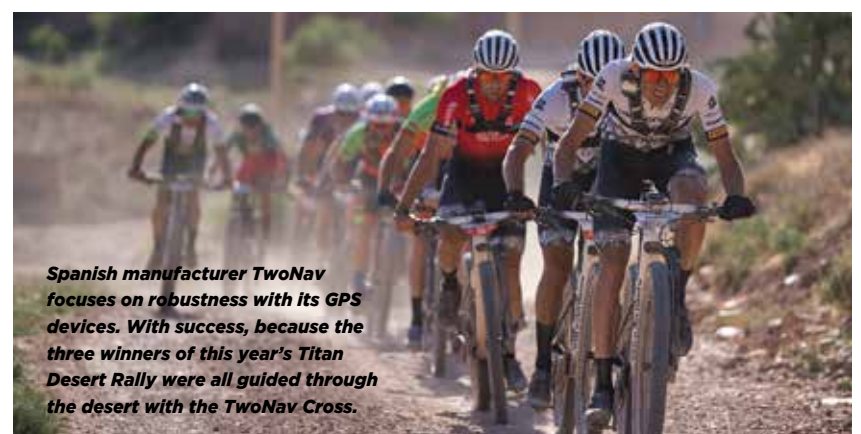
Recently, the British navigation device manufacturer Satmap announced that it was going out of business, and with it another brand disappears from the market that was in the top rankings only a short time ago. In German-speaking countries, this affected Falk and Teasi/Tahuna, for example. Satmap CEO Howard Dyson sees the triumph of the smartphone and the associated navigation apps as the main reason for the lack of hardware demand. There has also been a market concentration in the outdoor apps sector. In Germany, for example, almost 80 % of cycling tourists now use the komoot app, significantly more than Google Maps and Outdooractive, and this trend can also be observed among German hikers.

### Communication: easy data transfer is the order of the day

The name "komoot" means "simple or convenient", and this simplicity seems to be not the least decisive factor for customers for the outdoor app of their choice - because there are still



Sigma is showing the new Rox 12.1 Evo at Eurobike, with 3-inch colour display, OpenStreetMap maps, WiFi support, and connectivity to portals such as komoot, Strava and Training Peaks.



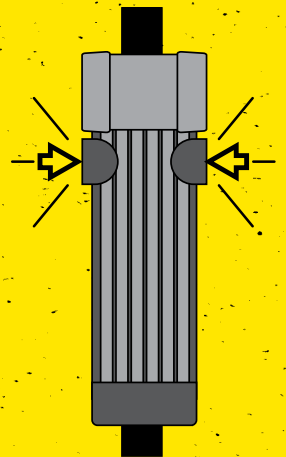
Spanish manufacturer TwoNav focuses on robustness with its GPS devices. With success, because the three winners of this year's Titan Desert Rally were all guided through the desert with the TwoNav Cross.



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**New App and API: GPSTuner introduces the Fantic Ramage, which was optimally developed for its own apps. Apps and API are, however, primarily intended as OEM solutions.**



**Powunity is developing the GPS tracker into a comprehensive e-bike IoT system.**



**Destination input by voice is also possible for bicycle navigation (here on a Bryton Rider S 800) - but usually requires an online connection**

sufficient for long-distance and multi-day rides, where almost every smartphone would have to be recharged several times.

The Taiwanese manufacturer Bryton is also presenting energy-saving cycling navis at the Eurobike. The Rider 750 SE is said to last 40 hours, compared to 20 hours for its almost identical predecessor, the Rider 750, also with a 2.8-inch display. The top model, the Rider S800,

is said to last 36 hours, despite a relatively large 3.4-inch colour display. With this display, Bryton uses MIP display technology, which is similar to e-book readers.

**The BikeAngel2 system is also integrated into the handlebars.**

**Assistance: sensors for safety**

**Start-up BikeFlare VISIO presents its concealed GPS tracker and alarm in Hall 8.0, booth B49**



Bryton wants to score points at this year's Eurobike with a completely different topic - its radar. The Gardia R300L, which was presented last year, can be seen as a direct competitor to the Garmin radars. While Garmin has already significantly expanded this product area and recently presented an e-bike compatible version with the Varia eRTL615, Bryton is currently entering the race with only one model. Similar to Garmin, it displays approaching vehicles on paired cycling computers (these can also be other ANT+-compatible devices such as Wahoo) or via a special app. The Gardia also offers six different light modes, a brake light function and is priced slightly below the Garmin competitor. However, a special version would have to be developed for the German market, as permanently flashing rear lights are not permitted here.

**Momes [11.1 / A21]** will present a completely new assistance system for the first time at the Eurobike. The o-synce guard is the world's first helmet with integrated head-up display "USEE HUD" and tyre pressure display. For this purpose, the USEE display presented by Momes a few years ago has been further developed and can now be coupled with the smart Schwalbe AirMax air pressure sensors. Also new is an interface to radar sensors from Garmin and Bryton.



**Bryton focuses on its radar technology - here the new Bryton Gardia R300L with a battery life of up to 24 hours**

**GPS tracker: from theft protection to IoT system**

Given the general demand for electronic theft protection, it is no surprise that further improved systems are now being offered at Eurobike. **BikeFlare [8.0 / B49]** is here for the first time, and similar to BikeAngel2, the system is housed in the handlebars and can set various alarm levels via a suitable app.

An almost traditional manufacturer from the GPS tracker sector, the Austrian company Powunity, is not at Eurobike this time. In conversation with the Eurobike Show Daily, Managing Director Stefan Sinnegger reported a very high market demand, which can be attributed to several causes. In the meantime, a GPS tracker is almost part of the basic equipment of an e-bike. Insurance companies realise the above-average success rate in detecting thefts; some insurance companies in the Netherlands already make a tracker mandatory equipment, otherwise no insurance cover is granted. However, the tracker technology can certainly be expanded, and Powunity is currently working on the possibility of using the smartphone as an ebike display, for example to communicate necessary maintenance intervals, to enable remote fault diagnosis and to connect further sensors. Like many other developers, Powunity faces the lack of data protocol standards for e-bike systems. And it is precisely the complexity of the Bluetooth and data bus protocols that is underestimated by many players.

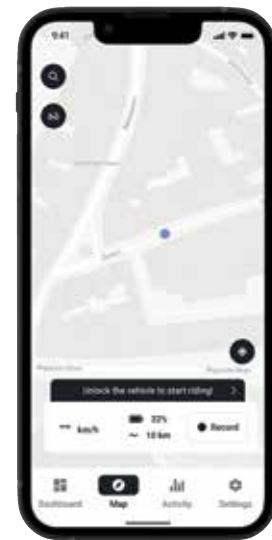
**There will be no new Nyon-Navi at Bosch at this Eurobike, but in the 2024 season there will be the Kiox 500 with a 40 % larger display.**

Another helpful step could be pushed by the transition from 2G to the more power-efficient mobile communications standard LTE\_M and the expansion of the narrowband IoT network. This change could be completed in just a few years. And that is also necessary, because Switzerland, for example, has now completely abandoned the 2G network.

At times, however, applications can also turn around. For example, the Hungarian manufacturer **GPSTuner [8.0 / I16]** presents the



**Always in view: the "Guard" bicycle helmet from O-Synce can now also connect to the new Schwalbe AirMax tyre pressure sensors via its "USEE" head-up display and display the signals from the Garmin and Bryton radar units.**



**Comodule launches a new Companion App, giving access to smart features like locating e-bike via GPS, movement alerts, navigation, data about ride and vehicle, and also controlling different bike settings**

Fantic Ramage, a bike that can be seamlessly integrated into its app world. This year's main focus is on OEM products like the TREK Central App and the Fantic App. Their functions are also offered by GPSTuner as an API/SDK for integration for companies that already have their own bike apps.

There will be no successor to the Nyon on-board computer from **Bosch [12.0 / A17]** at this Eurobike, but a new, 40% larger and more customisable version of the e-bike display, the Kiox 500, has been announced for the 2024 season. Bosch is now also focusing more on theft protection. The prerequisite for this is the installation of Bosch's own GPS tracker "ConnectModul", then a paid subscription can be taken out via the Bosch app.

But the classic bike navis also march ahead. Sigma is presenting its Rox 12.1 Evo navi flagship at the Eurobike, with a 3-inch touchscreen, OpenStreetMap maps, Bluetooth, ANT+ and WiFi, - and of course an interface to komoot. Sigma is also proud that its new flagship "Rox 12.1.Evo" is manufactured in Germany - similar to the Spanish company **TwoNav [11.1 / A15]**, which has already had its devices assembled in Spain for several years. **TF**

**AVS will show the new AVS CD9 with 2.8-inch QVGA colour LCD display, BLE and ANT+ connectivity alongside a wide range of display and remote controls at its stand in Hall 8.0, M22. Optimised for OEM equipment, it is compatible with numerous drive systems and also supports CAN/CANopen, for example.**





# NEW PRODUCTS

## ALECK-TOCSEN PUNKS

The Punks are the first near-ear wireless audio and communication system dedicated to cyclists. They attach securely to helmet straps and offer crystal-clear sound and unlimited group communication: in any outdoor conditions, thanks to expertly tuned, near-ear drivers and dual wind-blocking mics, cyclists can talk to each other while leaving their ears uncovered to maintain awareness while cycling. **D30/111**



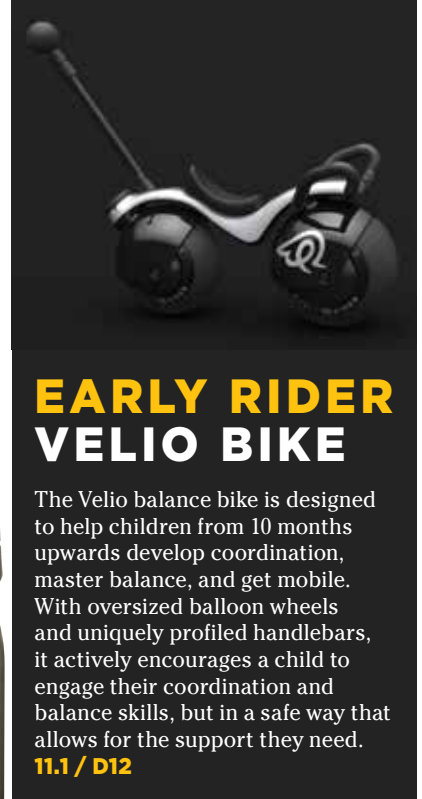
## CAMELBAK PODIUM® VACUUM INSULATED STAINLESS STEEL

The double-wall vacuum insulated steel PODIUM® bike bottle is designed to keep water cold all day long (14-18 hours). The new Podium Steel has a modern, minimalist design, and sleek finish takes it beyond function and makes a bold statement. This easy-to-clean bottle has a high-flow cap, a leakproof lockout and an optimized cage fit, and is also BPA-free. **Hall A23/121**



## EARLY RIDER VELIO BIKE

The Velio balance bike is designed to help children from 10 months upwards develop coordination, master balance, and get mobile. With oversized balloon wheels and uniquely profiled handlebars, it actively encourages a child to engage their coordination and balance skills, but in a safe way that allows for the support they need. **11.1 / D12**



## ARPO AQUA2GO PRESSURE WASHER

A portable battery-powered pressure washer for effective cleaning while out and about. The Aqua2go pressure washer features a 2600mAh lithium-ion battery that allows for 30 minutes of use per charge. The unit's tank can hold up to 21 litres with a maximum output of 3.5 litres per minute. Adjustable pressures between 30, 40, and 60 bar ensure serious cleaning power. **Hall 9.2 / C21**



## AVS ELECTRONICS TT10 DISPLAY

The AVS TT10 HMI display fits conveniently within the e-bike's top tube. With two buttons and a 1.22-inch display, the TT10 makes it easy to control functions and view data such as speed, assist modes, battery SoC, error messages and other information. It can be adapted to various drive systems and is compatible with common communication protocols. **8.0 / M22**



## CAMELBAK CHASE ADVENTURE 8

The CHASE vest is lightweight, durable and has plenty of storage. It has a breathable 3D grid mesh harness, dual adjustable sternum straps, sits above jersey pockets and is impact protection ready. The vest is also available for women, with a fit that utilizes body mapping technology, for a tailored fit and excellent performance. **Hall A23/121**

## AVS ELECTRONICS RC18 RING REMOTE



The RC18 HMI ring remote incorporates a 1.5-inch AMOLED display with 650cd/m2 brightness for sunlight readability. It offers clear viewing from almost any angle and a capacitive touchscreen for easy control. The RC18 supports common communication interface protocols and integrates with leading drive systems. Optional connectivity features include the latest BLE, OTA firmware updates, and NFC for smartphone pairing and bike system unlock and boot-up. **8.0 / M22**

## ALHONGA HJ-HF572 FOUR-PISTON BRAKE

This powerful four-piston hydraulic disc brake boasts I-spec EV and MatchMaker clamp adaptors plus a J-kit for better cable routing resulting in an easy installation and clean look once in place. Servicing is also considered, thanks to a simple-to-bleed design and compatibility with existing mineral oil and pads. Each unit weighs just 175g despite performance tailored to cargo and e-bike applications. **Hall 9.1 / A20**



## THUN REV II

REV II (short for REVOLUTION 2) is Thun's new product line featuring 100% CNC-machined (in Germany) crank arms for upscale e-bikes with central motors. REV II crank arms feature the iconic window that already made Thun's infamous REVOLUTION crankset a showstopper in the 1990's and are available with different surface options such as Polished, Black and Bicolor Chrome Black (as illustrated in the picture). **Hall 12.1 / C29**





# NEW PRODUCTS



## FUMPA NANOFUMPA

The nanoFumpa is Fumpa's newest USB Type C rechargeable bicycle pump. It uses state-of-the-art brushless motor technology to inflate a road tyre to 90psi in 100 seconds and has a maximum pressure of 110psi. Weighing just 100 grams, it's well suited to the weight-conscious road cyclist or mountain biker. **Hall 9.2 / G49**



## KIND SHOCK S1A SERIES STEMS

These stems offer low weight twinned to minimalist design while maintaining strength and feel. There also tuned to provide positive feedback and fatigue reduction. This has been achieved using specific alloys, wall thicknesses, and a combined forged and CNC-machined construction. Offered in a durable anodised finish, they come with a 6-degree rise and are available in 70, 90 and 110mm lengths. **Hall 9.1 / B15**



## ORANGE SWITCH 6

The newest bike in the Orange Bikes stable is meticulously crafted by hand in the UK. The new Switch 6 features 160mm of travel front and rear, MX wheels and S.A.F.E technology allowing riders to carry essentials within the bike's frame and reducing the need to transport spares in bags or on storage straps. **Hall 12 / C36**

## SKS INFINITY TOPBAG

The waterproof Infinity Topbag bike bag can be mounted onto SKS' Infinity Universal luggage rack in one step. This is made possible by the MIK adapter on the bag's underside. With one click, the bike bag snaps onto the luggage rack plate and can be removed just as quickly with the release stick. **12.1 / A26**



## PIRELLI SCORPION RACE DH

Pirelli completes the range of the Scorpion family with the Scorpion Race DH, a product designed for the most demanding Downhill races. At the heart is the SmartEVO DH compound, that provides chemical grip and mechanical support at high speeds, making a decisive contribution to giving the rider a feeling of great handling, responsiveness and control. **Hall A28/111**



## CROPS REV500 AND REV300 LIGHTS

Both the 500-lumen rev500 and 300-lumen rev300 lights use polycarbonate for improved impact resistance. The same material is also found in their shatter-proof lenses. Both also feature a built-in sensor that automatically switches from daytime flashing to constant mode when entering a dark area like a tunnel. Supplied with Crop's universal UltiFix bracket. **Hall 9.1 /**



## VELO DE VILLE FR8 CARGO E-BIKE

This premium electric cargo bike is manufactured in Germany and can be customised to meet the needs of its user. With a high level of modularity, it can be configured for business or family use. Accessories include twin carry seats, an all-weather canopy, and a lockable cover for the cargo box. Finally, the bike can be finished in one of 32 different colours. **Hall 12.0 / A02**



## BIKETOUR.GUIDE WITHOUT REGISTERING AND LOGGING IN, JUST DRIVE OFF

Enter your destination and off you go! No registration or login required: Biketour. Guide is easy to use and offers great routes, points of interest along the way, voice navigation, weather forecasts, and much more. With fast2work's bicycle navigation, it's even more enjoyable to go cycling. And the best part: 6 months of premium usage are included in the Eurobike ticket. **Hall 8.0 / M03**



## PRO-LITE INTERNATIONAL PROLOGUE SERIES

An entry-level series of wheels built around various OEM spec standards. The Prologue Series offers 100% hand-built performance at an attainable price point. There are options for newer frame specs, including e-thru and disc brakes. At the same time, older standards like QR and 26-inch with rim brakes aren't neglected, meaning there are options for almost any bike. **Hall 9.1 / C06**





# NEW PRODUCTS



## CLARKS CRS C4 BRAKE

A powerful and lightweight CNC four-piston hydraulic disc brake set. Each calliper has four self-adjusting stainless steel pistons with machined heads for reduced friction. Ergonomic two-finger drilled levers offer controlled braking plus on-the-fly reach adjustment. Supplied with aerospace-grade aluminium floating rotors that feature stainless steel braking bands, along with hoses and mineral oil. **Hall 9.1 / D29**



## TRIGON ARO1 BIKE

A d&i Gold Award winner in 2023. This racing machine is designed for all-around use. It employs Trigon's Vortex-Tubing Technology to combine the features of an aero bike, lightweight climbing bike, and long-distance endurance bike. Married to geometry that ensures comfort and handling remain consistent across all sizes, the result promises to be an ideal choice for various styles of road rider. **Hall 9.0 / E04**

## ARMOR E-BIKE CONVERTER KIT

Opting for an electric bike conversion kit instead of purchasing a new e-bike offers you financial savings and is better for the environment. You'll also find that the bike remains familiar, only with added pedal assistance and expanded riding possibilities. Armor's E-Bike Converter Kit offers easy fitting and features a motorised rear wheel and a lockable downtube battery. **Hall 9.1 / A17**



## CAMELBAK PODIUM® VACUUM INSULATED STAINLESS STEEL

The double-wall vacuum insulated steel PODIUM® bike bottle is designed to keep water cold all day long (14-18 hours). The new Podium Steel has a modern, minimalist design, and sleek finish takes it beyond function and makes a bold statement. This easy-to-clean bottle has a high-flow cap, a leakproof lockout and an optimized cage fit, and is also BPA-free. **Hall A23/121**



## VAUDE WOMEN'S FURKA BIB TIGHTS

Women's performance-fit, highly technical cycling bibs, with R-Pad — a new seat pad specifically designed for road biking. The anatomical design is highly breathable and quick-drying. Made in Europe from recycled materials, Furka features an ergonomic cut with full stretch seams and attached suspenders. Mesh inserts at the front are individually adaptable so the straps always fit comfortably. And thanks to the clever design, you can leave the straps and jersey on during bathroom breaks. **Hall 11.1 / C14**



## MIRANDA CHAINFLOW 3D CHAINRINGS

Miranda's ChainFlow 3D chainrings, made in Portugal, integrate patented chain retention technology. This best-in-class solution improves ride smoothness, reliability, and outperforms standard narrow-wide options in durability. Available in direct mount with interface options for all major e-bike motors, these chainrings provide a versatile fit. Manufactured using 100% green electricity and ensuring very low CO2 emissions in production, they also represent a sustainable choice in cycling components. **Hall 9.2 / C22**



## THOK E-BIKES GRAM

The Gram is the very first full carbon e-MTB of Thok E-Bikes: a bike that can go up surfaces that could not be dealt with on a normal bike, and is a lot of fun when going downhill. The frame was born from scratch: its shape, the patterns, every small detail, all lead back to a unique model owned by Thok. **Hall C22/120**



## EARLY RIDER BELTER 16 BIKE

Early Rider claims this is the world's best-selling belt drive bicycle. Free rolling, clean, quiet, durable, rust-free, and low maintenance, its design ensures high performance and avoids corrosion to enhance

resale value later down the line. With well-considered geometry and quality finishing kit, it's a far nicer first bike than most of us will have started with. **Hall 11.1 / D12**

## PIRELLI P ZERO RACE 4S TLR

Pirelli presents P ZERO Race 4S TLR, the tubeless version of the Pirelli all season tyre, produced in the renovated Milano-Bollate facility. The tyre features SmartNET Silica compound and is equipped internally with the innovative SPEEDCORE technology. It is the perfect choice for those who want a high-performing tyre with that "racing" feeling typical of the Pirelli



"Race" family. **Hall A28/111**



# NEW PRODUCTS

## RIESE & MÜLLER SWING4

A city e-bike with classic styling combined with up-to-date technology and features. The Swing4 is made to take you comfortably through the city and the countryside. Its suspension fork and seatpost ensure high riding comfort, while the powerful Bosch Performance Line motor combines with a 500Wh rack-mounted battery to impart a plentiful range. Optional baskets for the rack and handlebars offer additional carrying capacity if needed. **Hall 12.0 / A13**



## AVS ELECTRONICS AVS CD9

The AVS CD9 integrates a 2.8-inch QVGA display with high brightness, sunlight readability, 160° viewing angles, gorilla glass-like protection and an all-weather capacitive touchscreen. Additional features include various connectivity functions, such as BLE and ANT+, and a USB Type C connector for updates and charging. It's compatible with leading drive systems and supports CAN/CANopen, UART, RS-232, RS-485 and LIN Bus protocols. **Hall 8.0 / M22**



## FLR SHOES F-37 SHOE

The F-37 aims to set a higher standard for entry-level footwear. It sports a minimalist design and sleek look, with a stretch resistant upper that aims to hug your foot like a second skin. This upper rests on a lightweight R250 outsole that should offer beneficial stiffness. The shoe is then secured with three low-profile straps, while mesh inserts help keep your feet dry and fresh. **Hall 12.1 / A07a**

## BARBIERI NXT



The NXT is an inner tube in TPU, the latest generation material that allows less bulky and lighter inner tubes than traditional butyl, with greater resistance to punctures and pinching. Made in Bologna, Italy, this tube reduces the weight of the rotating mass, increasing the smoothness of the wheels. Compared to the usual 700x23-32 butyl tube, the NXT tube saves as much as 60 grams of weight, or about 50%. [www.barbieripnk.it](http://www.barbieripnk.it) **Hall 9.1 / D04**

## MIVICE M100 REAR HUB DRIVE

Mivice's M100 rear hub drive aims at both urban and gravel markets. It manages this thanks to a minimalist weight of 1.95kg. The drive offers many features borrowed from its big brother, the M200. This includes a strong torque of 40Nm which means it'll maintain performance even in hilly terrain. **Hall 8.0 / H12**



## ASS MAGIC CHAFE BALM

An anti-chafe balm in stick form. Ass Magic's formula is designed to reduce friction in sensitive areas, whether you're cycling, running, surfing, or taking on any number of other activities. The balm is water and sweat resistant and will not clog your pores. It's also safe for use in contact with a wetsuit. **Hall 8.0 / C13**



## Q36.5 GRID SKIN BIB SHORTS

The Q36.5 Grid Skin Bib Shorts include the newly developed 4D printing technology GRDXKN®, which protects the skin from abrasion in the case of an impact. Thanks to detailed research into body mapping, the bib shorts are distinguished by the updated pre-shape cut employed to provide the most ergonomic fit to enhance not only performance but comfort. **Hall A22/111**

## BIKE FUN SUPERIOR XF

The new geometry provides better bike control, allowing the rider to fully focus on their performance. Climb faster, and descend safer. The clean and sleek design provides next-level integration. The weight of the frame has been reduced by 170 grams. USPs: Improved bike handling thanks to the revised geometry. Modern design Tested and proven by the XC World Cup riders' jb BRUNEX Factory team, headed by Ramona Forchini and Nadine Rider **Messe Frankfurt hall 11.0 / B08**





# PRODUKTNEUHEITEN



## ALÉ CYCLING QUICK JERSEY

Das QUICK Jersey aus der R-EV1-Kollektion ist mit dem revolutionären Quick Dry Frame®-Gewebe ausgestattet: die weltweit erste multifunktionale, hydrophile und schnell trocknende Isolierung, die überschüssige Feuchtigkeit thermoreguliert und ableitet und so für maximalen Komfort auf der Haut sorgt. Das Trikot hat eine rennsporttaugliche Passform in modernem, minimalistischem und klarem Stil. **Hall G51/92**

## MESSINGSCHLAGER "BUILD YOUR OWN E-BIKE" CONCEPT: NEUES CARBON FULLY SUSPENSION SUV MODELL

"E-Bikes unter Ihrer eigener Marke und in maximal 12 Monaten bis zur Markteinführung? Kein Problem!" Das verspricht der Importeur Messingschlagler aus Baunach (Deutschland). Unterstützt durch die Entwicklungs- und Beschaffungskompetenz des größten europäischen Fahrradteile-Importeurs kann der Kunde E-Bikes aus unterschiedlichen Konzeptplattformen konfigurieren oder eigene Konzeptideen einbringen. Alle notwendigen Komponenten, von der Schaltung bis zur Federung, können bei Messingschlagler erworben werden. Das neueste Brose-Antriebsmodell ist der "MUC.C.al SUV". Für 2023/24 bietet das Unternehmen dieses vollgefederte Carbon-SUV-Bike mit Brose GEN 2 Antrieben und einem 705 Wh Brose IT 23 Akku an. Speziell für dieses Fahrrad wurde ein Gepäckträger entwickelt. Darin kann auch ein Aluminium-Schutzblech integriert



## ALECK-TOCSEN PUNKS

Die Punks sind das erste „Ohr Nähe“ Audio- und drahtlose Kommunikationssystem für Radfahrer. Es wird sicher an den Sturzhelmriemen befestigt und liefert kristallklaren Ton und grenzenlose Gruppenkommunikation: dank der fachmännisch abgestimmten, ohrnahen Treiber und der windblockierenden Dual-Mikrofonen ist eine klare Kommunikation unabhängig vom Wetter garantiert, so dass die Punks bei allen Witterungsbedingungen genutzt werden können. **Hall D30/111**

## ARPO AQUA2GO DRUCKREINIGER

Ein tragbarer, akkubetriebener Druckreiniger für die effektive Reinigung unterwegs. Der Aqua2go Druckreiniger verfügt über einen 2600 mAh starken Lithium-Ionen-Akku, der pro Ladung 30 Minuten Betriebszeit ermöglicht. Der Tank des Geräts fasst dabei bis zu 21 Liter und hat eine maximale Leistung von 3,5 Litern pro Minute. Stark: Die einstellbaren Druck-Werte von 30, 40 und 60 bar sorgen für eine hervorragende Reinigungsleistung. **Hall 9.2 / C21**



## CLARKS CRS C4 BREMSE

Ein Satz leistungsstarker und leichter CNC-Vier-Kolben-Hydraulik-Scheibenbremsen. Jeder Bremsattel hat vier sich selbst einstellende Edelstahlkolben mit gefrästen Köpfen für weniger Reibung. Ergonomische, gebohnte Zwei-Finger-Hebel ermöglichen ein kontrolliertes Bremsen und eine schnelle Einstellung der Reichweite. Im Lieferumfang enthalten sind schwimmend gelagerte Brems Scheiben aus Aluminium, gefertigt in Luft- und Raumfahrtqualität, mit Bremsbändern aus Edelstahl sowie Schläuche und Mineralöl. **Hall 9.1 / D29**



## GIYO GM-25D PUMPE

Die GM-25D ist eine besonders flexible Pumpe, die mit dem neuen CNC-gesteuerten Doppelventil-Pumpenkopf von Goyo ausgestattet ist. Dieses bewegliche Design wurde entwickelt, um das Problem der herkömmlichen Schraubventile zu lösen, bei denen sich beim Abschrauben des Pumpenkopfes versehentlich der Ventilschaft lösen kann, wodurch Luft aus dem Reifen entweicht. Die Pumpe funktioniert sowohl mit Presta- als auch mit Schrader-Ventilen. **Hall 9.1 / B29**



## FUMPA GAUGE

Mit dem Fumpa Gauge hat Fumpa Pumps sein Angebot an Fahrradpumpen und entsprechendem Zubehör erweitert. Dieser über USB Typ C wiederaufladbare elektrische Druckmesser eignet sich hervorragend zur Überprüfung des Reifendrucks, wiegt nur 30 g und ist klein genug, um an einem Schlüsselbund Platz zu finden. Er funktioniert sowohl mit Presta- als auch mit Schrader-Ventilen. **Hall 9.2 / G49**



## SEATYLOCK FOLDYLOCK FOREVER

Das Foldylock Forever ist ein Faltschloss mit einem goldenen Sold-Secure-Prädikat, das sich durch Sicherheit, Komfort und Design auszeichnet. Laut Hersteller ist es das Ergebnis eines langjährigen Entwicklungsprozesses und bietet bequemen und zugleich zuverlässigen Schutz. Die robusten 6,5 mm starken, gehärteten Metallglieder des Schlosses sind dabei der Schlüssel zu seiner Stärke. Spannend: Der Hersteller bietet jetzt auch Co-Branding-Lösungen an, die auf seinem Design basieren. **Hall 9.1 / A18**



## HJ - HT534

## ALHONGA HJ-HT534 VIER-KOLBENSCHLEIBENBREMSE

Vier-Kolben-Scheibenbremsen für Lastenfahrräder, entwickelt, um Fahrräder mit übergroßen Lasten zu kontrollieren – und das mit maximaler Sicherheit. Dafür verfügen die Bremsen über eine Parkhilfe und einen Abschaltensor. Entwickelt und getestet nach der Norm EN15194 mit einer Last von mehr als 350 kg, sollen die Bremsen laut Hersteller eine um 30% höhere Bremskraft bieten als vergleichbare Produkte. Die Bremsen sind einfach zu montieren und zu warten und sind mit vorhandenem Mineralöl und Bremsbelägen kompatibel. **Hall 9.1 / A20**





# PRODUKTNEUHEITEN



## DAYSAVER AG ESSENTIAL8 MULTITOO

Das Essential8 ist ein Multitool in Werkstattqualität, ausgestattet mit sieben der gängigsten Sechskantschlüssel und einem Torx 25-Schlüssel. Trotz seines geringen Gewichts von 33 Gramm bietet es alles, was es braucht, um auf unterwegs gut ausgerüstet zu sein. Mit seiner klassischen Inbusschlüssel-Form ist das Tool sehr handlich. Gleichzeitig kann man dank zwei verschiedener Hebellängen immer das richtige Drehmoment aufbringen. **Halle 8 / C11**



## FUMPA FUMPA

Die Fumpa Fahrradpumpe ist jetzt mit Schnellaufladung mittels USB Typ C erhältlich und kann so in nur einer Stunde vollständig aufgeladen werden. Die Pumpe ist das vielseitigste Modell im Fumpa-Sortiment und verfügt über einen eingebauten Druckmesser mit erstaunlicher Genauigkeit. Der Luftkompressor funktioniert mit Rennrad-, Mountainbike-, Pendler- und Fatbike-Reifen. **Halle 9.2 / G49**



## COMODULE GUARDIAN

Der Guardian von Comodule ist eine smarte Diebstahlschutzlösung für E-Bikes, die Sicherheitsfunktionen wie GPS-Tracking, Bewegungsalarm und ein digitales Schloss bietet. Die Konnektivitätslösung umfasst ein kompaktes IoT-Modul und eine App für die Fahrer. Der Guardian lässt sich dabei leicht in jedes E-Bike einbauen und ist mit allen gängigen Antriebsvarianten kompatibel. **Halle 8, Stand J30**

## GIYO GF-55B PUMPE



Eine platzsparende Standpumpe mit einem innovativen Drehfuß. Wenn die Pumpe zusammengeklappt ist, spart sie rund 25 Prozent Platz im Vergleich zu ihrer ausgeklappten Größe – ideal, wenn die Pumpe gelagert oder transportiert werden muss. Außerdem wird der Versand für Einzelhändler effizienter, was zu niedrigeren Kosten und wettbewerbsfähigeren Preisen führt. **9.1 / B29**

## ALHONGA HJ-HF572 VIER-KOLBEN-SCHEIBENBREMSE

Diese leistungsstarke hydraulische Vierkolben-Scheibenbremse ist mit I-spec-EV- und Match-Maker-Klemmadaptoren sowie einem J-Kit für eine bessere Kabelführung ausgestattet, was eine einfache Installation und einen sauberen Look ermöglicht. Dank der einfachen Entlüftung und der Kompatibilität mit vorhandenem Mineralöl und Belägen ist auch die Wartung kein Problem. Jede Einheit wiegt nur 175 g, obwohl die Leistung auf Lastenräder und E-Bikes zugeschnitten ist. **Halle 9.1 / A20**



## CAMELBAK M.U.L.E.TM FRAME PACK

Der neue M.U.L.E.TM-Fahrradtasche ist wasserdicht, hat eine sichere und verstellbare Befestigung und einen Schlauchclip. Er ist so konstruiert, dass er auch schwierigem Gelände standhält, und wird mit einem QUICK STOWTM 2L Bike-Reservoir in zwei verschiedenen Größen geliefert, large (4,5L Gesamtkapazität) und small (3L Gesamtkapazität), damit der Fahrer immer hydriert und bereit für seine Erkundungen ist. **Halle A23/121**



## KRYPTONITE KKEEPER MINI FOLDING LOCK

Dieses Faltschloss bietet Sicherheit in einem kompakten Paket. Anstelle eines Standardbügels verwendet es 2,5 mm dicke, gehärtete Stahlstäbe und Nieten. Dadurch lässt sich das Schloss auf eine kompakte Größe zusammenfallen. Gleichzeitig kann es aber dennoch auf eine beachtliche Länge von 80 cm erweitert werden. Trotzdem bleibt es mit nur 560 Gramm ein Leichtgewicht. **12.1 / A17**



## VELO DE VILLE FR8 CARGO E-BIKE

Dieses Premium-Elektrolasterrad wird in Deutschland hergestellt und lässt sich problemlos an die Bedürfnisse seines Nutzers anpassen. Dank seines hohen Maßes an Modularität kann es so sowohl für den geschäftlichen als auch für den familiären Gebrauch konfiguriert werden. Zum Zubehör gehören zwei Tragesitze, ein Allwetterverdeck und eine abschließbare Abdeckung für die Ladebox. Außerdem kann das Lastenrad in einer von 32 verschiedenen Farben lackiert werden. **Halle 12.0 / A02**



## TRIGON ARO1 BIKE

Ein d&i Gold Award Gewinner 2023. Diese Rennmaschine ist für den Allround-Einsatz konzipiert. Dabei nutzt sie die sogenannte Vortex-Tubing-Technologie von Trigon, um die Eigenschaften eines Aero-Bikes, eines leichten Bergrennrad und eines Langstrecken-Renners zu kombinieren. Die Geometrie sorgt dafür, dass Komfort und Fahrverhalten in allen Größen gleich bleiben. Das Ergebnis ist die perfekte Mischung für verschiedene Fahrertypen. **Halle 9.0 / E04**



## BLKTEC C1D LAUFRADSATZ

Ein mit dem d&i Award prämiertes Laufradsatz aus dem Hause Blktec. Die C1D Ultimate Weapon Laufräder wurden entwickelt, um dich mit Steifigkeit, Stärke und Geschwindigkeit voranzubringen. Das schaffen sie dank eines einteiligen Carbon-Designs mit nicht-radialen Speichen. Ihre 40 mm tiefen und 28 mm breiten, hakenlosen Felgen sollen ein stabiles und dennoch wendiges Fahrverhalten bieten und sind für geringen Luftwiderstand und präzises Handling optimiert. **9.0 / E04**



# DIRK ZEDLER: AUS CARBON GEFERTIGTE GABELSCHÄFTE

## DIE NUMMER EINS AUF DER LISTE DER RÜCKRUFE

Leichte und sehr leichte Rennräder, Zeitfahrmaschinen, Cyclocrossräder und Gravelbikes haben aus Carbon gefertigte Gabelschäfte. Seit 20 Jahren sind solche Gabeln als einzelnes Bauteil zugleich die Nummer eins auf der Liste aller Rückrufe der Fahrrad-Wirtschaft. Hersteller, Händler und Nutzer sind gleichermaßen gefordert, damit diese Fahrräder im Betrieb sicher sind.



Das Who is Who der Fahrradbranche steht im sportlichen Wettbewerb um die beste Ergonomie, die besten Fahreigenschaften und natürlich das geringste Gewicht. Mit seinen faszinierend guten Eigenschaften ist daher Carbon verständlicherweise der Werkstoff Nr. 1 für Leichtbau. Die anfänglichen Versuche bei Rahmen und Gabeln Ende der 1980er/Anfang der 1990er Jahre waren oft nicht zufriedenstellend und folgerichtig war Aluminium einige Jahre lang wieder das Leichtbau-Material der Wahl. Beginnend mit dem Scott CR 1 im Jahre 2003, dem ersten Großserienrahmen mit einem Gewicht von weniger als 1.000 Gramm, rollt die Carbonwelle.

Die Fortschritte mit dem Material Carbon im Fahrradbau sind gewaltig. Heute braucht im Grunde kein Nutzer eines Rahmens eines seriösen Herstellers mehr Angst vor dem „sudden death“, dem gefürchteten vollständigen und urplötzlichen Vollversagen, haben. Auch Felgen für Scheibenbrems-Lauf- räder, Kurbeln, Lenker und Sattelstützen sind überwiegend sehr solide geworden. Nur Gabelschäfte bereiten weiterhin Probleme.

Besonders gemein an der Sache ist, dass drohendes Gabelschaftversagen von außen nicht erkennbar ist, da es im Inneren, d.h. unter Vorbau, Spacern und Lenkungslager, entstehen kann. Aus den vielen Rückrufen, die wir diesbezüglich begleitet haben, wissen wir, dass die Fahrer das aufkommende Versagen nicht bemerken. Die zunehmende Nachgiebigkeit wird so lange nicht detektiert, bis der Fahrer den Lenker samt Vorbau in der Hand hat. Genauso, wie dies schon mehrfach von Fotografen bei Rennsportveranstaltungen spektakulär eingefangen wurde. Was dann kommt ist klar: ohne Verbindung des Lenkers zur Gabel ist ein Sturz die zwingende Folge.

### Verstecktes Übel mit vielen möglichen Ursachen

Die Gründe dafür, dass der Hochleistungswerkstoff im Bereich des

Gabelschaftes nur sehr schwer in den Griff zu bekommen ist, sind vielfältig. Einflussfaktoren sind:

1. Die Qualität des Gabelschaftes
2. Die Qualität des Expanders, auch Kompressor genannt
3. Die Qualität des Vorbaus
4. Die Einbausituation
5. Die Qualität der Montage und Wartung

Im Ergebnis kann der Hersteller die schwierige Aufgabe nur bedingt in den Griff bekommen. Klar, wenn alle Bauteile serienmäßig belassen werden, dann kann er die Punkte eins bis vier optimieren und es verbleibt nur noch die Montage und die Wartung. Aber hier fängt es ja schon an, denn nicht wenige schrauben an Fahrrädern, ohne geeignetes Werkzeug (z.B. einen guten Drehmomentschlüssel) und die sinnvollen Hilfsstoffe, in diesem Fall spezifische Montagepaste für Carbon, die die Reibung zwischen den Bauteilen verstärkt.

Nächster Punkt der Veränderungen gegenüber dem Ursprungszustand ist die Einbausituation. Fahrräder werden üblicherweise mit etwa 30 bis 45 Millimetern Spacer unter dem Vorbau ausgeliefert. Fahrer, die sportlicher sitzen wollen, bauen den Vorbau nach unten und stapeln oberhalb des Vorbaus die übrig gebliebenen Spacer. Und schon beginnt die Misere, denn der Vorbau klemmt nicht mehr auf Höhe des Expanders, der Gabelschaft kann durch den Druck an weicher Stelle mit der Zeit versagen. Daher ist es ein absolutes Muss, solche Gabelschäfte nach der Probefahrt fachmännisch auf die richtige Länge kürzen zu lassen. Das bedeutet, dass maximal ein 5-mm Spacer oberhalb des Vorbaus verbleiben sollte.

Einfach einen anderen Vorbau zu wählen, kann ebenfalls zum Versagen führen. Manche Vorbauten sind innen scharfkantig und weisen eine (zu) kleine Klemmfläche auf, was die Lebensdauer des Gabelschaftes

ebenfalls reduzieren kann. Wer einen Vorbau wählt, ohne diesen auf Tauglichkeit im Zusammenspiel mit Carbon zu prüfen, integriert möglicherweise eine Sollbruchstelle.

### Mangel in der Norm

Eine Möglichkeit, warum es recht häufig zu Rückrufen kommt, kann auch daran liegen, dass sich manche Hersteller strikt an die Fahrradnorm halten. Denn darin war bis vor Kurzem keine Prüfung dieses Bereichs vorgesehen, obwohl der Autor dieses Artikels bereits im Februar 2000 zum ersten Mal über die Gefahren und Ursachen von Brüchen von Carbon-Gabelschäften veröffentlicht hat. Auch gibt es Veröffentlichungen über sinnvolle Testmethoden und in unserem Labor stehen seit Jahren 9 Prüfsysteme, die darauf spezialisiert sind, Gabelschäfte aus Carbon im originalen Setup, d.h. mit den spezifischen Lenkungslagern, anpassbarer Steuerrohrlänge, mit Spacern in beliebiger Anzahl bis hin zum Vorbau, d.h. sehr realitätsnah zu prüfen.

Die nunmehr aktualisierte Norm ist allerdings wieder sehr schwach, denn anstatt die Lastspielzahlen und die Kräfte zu übernehmen, die ein Vorbau und ein Lenker in der gleichen Norm seit vielen Jahren aushalten müssen, wurden diese auf einen Bruchteil reduziert. Für alle Einsatzzwecke sichere Carbon-Gabelschäfte wird es auf diese Weise nicht geben können.

Hersteller sollten sich tunlichst aufmachen, Carbon-Gabelschäfte im System mit den restlichen Anbauteilen seriös zu prüfen. Zudem müssen sie Händler und Nutzer darüber informieren, was bei eventuell notwendigen Ergonomie-Umbauten und bei der Wartung zu beachten ist.

Nutzer sollten keinesfalls unbedarft an dem Hightech-Material Carbon herumschrauben. Ohne nötige Fachkenntnis und Spezialwerkzeug bringen sie sich sonst selbst in Gefahr.

■ Dirk Zedler



### DIRK ZEDLER

Dirk Zedler ist seit 1993 als Sachverständiger für Fahrradunfälle und Produktversagen im Auftrag von Gerichten, Fahrrad- und Versicherungsunternehmen sowie Verbrauchern tätig. Er begann seine Branchenlaufbahn 1986 bei einem großen Radhändler und erwarb schon bald seinen Abschluss als Diplom-Ingenieur.

Bei Gericht ist Dirk Zedler als öffentlich bestellter und vereidigter Sachverständiger für Fahrräder (seit 1994) und Elektrofahrräder (seit 2014) gefragt.

Den Wissensschatz, den er und sein Team vom Zedler-Institut für Fahrradtechnik und -Sicherheit in tausenden Gerichtsverfahren und Gutachten in Deutschland, den USA und ganz Europa erworben haben, setzt er dafür ein, die Forschung und Entwicklung in der Fahrradbranche zu verbessern.

Das Institut setzt branchenweit Standards. Es entwickelt und baut Prüfsysteme, die von Herstellern zur Verbesserung von Fahrverhalten und Sicherheit ihrer Räder genutzt werden. Auch führende europäische Radmagazine verwenden die Systeme für ihre Produkttests. Europäische und amerikanische Hersteller verlassen sich im Umgang mit ihren asiatischen Zulieferern auf die Arbeit des Instituts. Die Hersteller können Prüfsysteme vom Institut erwerben oder dessen hochmoderne Prüflabore nutzen.

Das Zedler-Institut konzipiert und erstellt Risikobeurteilungen, Konformitätsunterlagen, Dokumente zu Rückrufaktionen sowie Bedienungsanleitungen für Fahrräder und Pedelecs. Diese in mittlerweile über 40 Sprachen verfügbaren Handbücher ermöglichen Verbrauchern die sachgerechte Nutzung ihrer Räder und haben Hersteller schon oft vor Haftungsansprüchen bewahrt.

Mit ihrer reichhaltigen Erfahrung aus mehreren tausend Gutachten bilden unsere Experten Brancheninsider sowie Quereinsteiger, z.B. aus dem Automobilbereich, zu Gutachtern aus.

Was wir aus Gerichtsprozessen, den Verfahren von Marktaufsichtsbehörden und Rückrufaktionen gelernt haben, fließt in unsere Schulungen für Fahrradhersteller ein. So sind diese in der Lage, interne CE-konforme Prozesse zu implementieren.

**Für weitere Informationen besuchen Sie [www.zedler.de](http://www.zedler.de).**



# PRODUKTNEUHEITEN



## LOTUS RETIRE BIKEPACKING -TASCHE

Die ReTire ist eine umweltfreundliche Bikepacking-Tasche, die aus defekten Reifen hergestellt wird und einen dementsprechend geringeren CO<sub>2</sub>-Fußabdruck hat. Sie besteht aus strapazierfähigen, wasserdichten und kratzfesten Materialien, damit die Sachen während der Fahrt sicher verstaut sind. Praktisch: Ihr wasserdichtes Innenfach ermöglicht ein schnelles Ein- und Auspacken. **Halle 9.1 / D31**

## GIYO GP-98 PUMPE

Diese Minipumpe aus Aluminium hat einen T-Griff mit einer einzigartigen Anti-Klemm-Funktion. Dadurch wird der Griff verriegelt und verhindert, dass man sich beim Aufpumpen des Reifens die Finger und die Handfläche verletzt. Und damit nicht genug: Die Pumpe verfügt außerdem über einen intelligenten Pumpenkopf, der sich automatisch an Presta- und Schrader-Ventile anpasst. **Halle 9.1 / B29**

## TREND POWER TECHNOLOGY SLIM-TUBE 540/600 BATTERIE

Diese neuen Batterien von Trend Power gibt es mit 540 und 600 Wh Kapazität. Sie zeichnen sich durch ein kompaktes und leichtes Design und eine intelligente Ladeunterstützung aus. Sie sind mit mehreren 36-Volt-Systemen kompatibel und können über oder unter dem Unterrohr eingebaut werden. Die Batterien können auch mit dem REX-250-Range-Extender-Akkupack des Unternehmens kombiniert werden. **Halle 8.0 / K20**



## BAFANG H700 REAR DRIVE SYSTEM

Mit einem Gewicht von 3,2 kg und einem Drehmoment von 40 Nm ist der H700 Antrieb darauf ausgelegt, Fahrräder mit einem möglichst aufgeräumten Design zu bauen – und vermittelt darüber hinaus ein entspanntes und flexibles Fahrerlebnis. Der H700 ist mit einem schlanken und leicht zu integrierenden Akku und einer passenden Kontrolleinheit ausgestattet, während der Antrieb über Bafangs automatisches Dual-Speed-System verfügt. **Halle 8.0 / J18**



## GRONBLA KOMPOSTIERBARE WASSERFLASCHE

Diese plastikfreie, pflanzenbasierte, biokompostierbare Wasserflasche wird aus erneuerbaren Ressourcen hergestellt und kann von Mikroorganismen vollständig abgebaut werden. Dadurch kehrt sie als organischer Kohlenstoff in die Natur zurück und ist dementsprechend umweltfreundlich. Das Material kann genau wie herkömmliches Plastik verwendet werden, sodass seine Verwendung leicht auf andere Produktkategorien ausgeweitet werden könnte. Der Hersteller ist ein Start-up, das sich auf die Entwicklung nachhaltiger Strategien zur Abfallreduzierung in der Fahrradindustrie konzentriert. **Halle 8.0 / C15**



## MAGURA CBS

Auf der Eurobike präsentiert MAGURA als Weltneuheit ein Combined Braking System für Lastenräder! Viele Radfahrer haben Angst vor der Vorderradbremse und setzen beide Bremsen nicht optimal ein. Das System hilft, beide Bremsen kombiniert zu nutzen und ermöglicht so einen kürzeren Bremsweg. Das MAGURA CBS funktioniert ohne Stromzufuhr und ergänzt die MAGURA MT C Scheibenbremsen. Auf der Eurobike präsentiert MAGURA ein erstes Design- und Funktionsmuster in Halle 12.0 – Stand B08. **Messe Frankfurt hall 12.0 / B08**



## EARLY RIDER VELIO BIKE

Das Velio Balance-Bike wurde entwickelt, um Kindern ab einem Alter von 10 Monaten dabei zu helfen, ihre Koordination zu verbessern, das Gleichgewichtsgefühl zu entwickeln und mobil zu werden. Mit seinen übergroßen Ballonreifen und dem einzigartig profilierten Lenker regt es das Kind aktiv dazu an, seine Koordinations- und Gleichgewichtsfähigkeiten zu trainieren – und das auf eine sichere Art und Weise, die ihm die nötige Unterstützung dafür bietet. **Halle 11.1 / D12**



## FUMPA MINIFUMPA

Die miniFumpa Fahrradpumpe ist eine praktische und umweltfreundliche Alternative zu CO<sub>2</sub>-Kartuschen. Mit ihrem leistungsstärkeren Akku kann die miniFumpa mit einer einzigen Ladung drei Reifen aufpumpen und dabei einen Druck von über 120 psi erzeugen. Mit ihrer verbesserten Haltbarkeit ist sie damit der perfekte Begleiter für jede Fahrradzielgruppe. **Halle 9.2 / G49**



## ICTRAINER INDOOR CYCLING SOFTWARE

Die App von icTrainer bietet eine günstige Alternative zu den etablierten Trainings-Plattformen. Neben der Anzeige von Messwerten zur Trainingssteuerung stehen viele Entertainment-Optionen zur Verfügung. Dazu gehören Workouts, reale Routen, Video-Gruppen-Chats, auf die Trittfrequenz abgestimmte Musik und die Aufbereitung deiner GPX-Tracks. Außerdem gibt es einen integrierten Browser für Videostreaming von Diensten wie Netflix und YouTube. Die Software ist mit fast allen Betriebssystemen, Trainingsplattformen und Fahrradtrainern kompatibel. **Halle 11.1 / C15**



# PRODUKTNEUHEITEN



## MAGURA CARGO BRAKES

MAGURA Bremsen stoppen selbst Fahrzeuge mit bis zu einer halben Tonne Gesamtgewicht! In Halle 12.0 – Stand B08 präsentiert der deutsche Bremsenspezialist eine neue Innovation für schwerste Lastenräder und nutzt dabei erneut den Technologietransfer zwischen den eigenen Geschäftsfeldern Motorrad und Fahrrad. **Halle 12.0 / B08**

## KIND SHOCK GTC GRAVEL FEDERGABEL

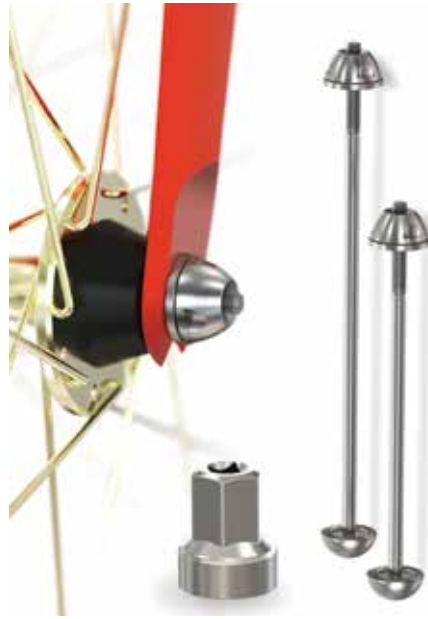
Kind Shock steigt in den Markt der Gravel-Federgabeln ein. Die neue Gabel wurde speziell für die Anforderungen von Gravel- und E-Gravel-Fahrten entwickelt, wobei sie eine geschmiedete Aluminiumkrone mit

hochmodularen Carbonfasern und Gabelenden aus Aluminiumverbundwerkstoff kombiniert. Sie ist mit bis zu 50 mm breiten Reifen kompatibel und verfügt über eine Flat-Mount-Bremsbefestigung. Im Inneren kommt ein Öl-Dämpfungssystem mit einstellbarer Zugstufe und Lockout zum Einsatz. **Halle 9.1 / B15**



## SEATYLOCK X LOCK SYSTEM

Verhindere, dass Räder und Sattelstützen abhanden kommen. Das Seatylock X Lock System umfasst derzeit drei verschiedene Anwendungsmöglichkeiten: Achsmuttern zum Schutz der Laufräder von Bikes mit Vollachse, Achsbolzen zum Schutz von Schnellspanner-Laufrädern und Sattelstützen-Klemmsätze zum Schutz der Sattelstütze und des Sattels. Interessant: Seatylock bietet auch Co-Branding-Lösungen für seine Produkte an – darunter das X-Lock-System. **Halle 9.1 / A18**



## MAGURA MT A2

In der Halle 12.0 – Stand B08 präsentiert der deutsche Bremsenspezialist einen neuen Einstieg in die Welt der MAGURA Scheibenbremsen. Die neue MT A2 bietet dabei alles, was MAGURA groß gemacht hat: Die bewährte MT Bremsperformance und eine besonders hohe Montage- & Wartungsfreundlichkeit. Und das zu einem besonders attraktiven Preis. Die MT A2 ist für jeden Untergrund bereit und der Einsatzbereich reicht von City bis MTB. **Halle 12.0 / B08**

## WELLGO F367DU FALTPEDAL



Diese neuen Faltpedale vereinen Funktionalität mit exzellentem Grip. Strategisch platzierte Gripstreifen auf dem Pedalkörper sorgen für einen sicheren Halt, während die Pedale gleichzeitig unauffällig bleiben. Die Pedalkörper sind aus Polycarbonat gefertigt und laufen auf dem wartungsarmen 2DU-Lagersystem von Wellgo. Das Gewicht für ein Paar beträgt 343 g. **Halle 12.1 / A10**

## FLR SHOES F-37 SCHUH

Der F-37 setzt neue Maßstäbe für Schuhe der Einstiegsklasse. Er hat ein minimalistisches Design und einen schlanken Look und verfügt über ein dehnbare Obermaterial, das sich wie eine zweite Haut deinen Fuß schmiegt. Dieses Obermaterial ruht auf einer leichten R250-Außensohle, die für eine gute Steifigkeit sorgen soll. Der Schuh wird mit drei, niedrigprofiligen Verschlüssen befestigt, während Mesh-Einsätze dafür sorgen, dass die Füße trocken und frisch bleiben. **Halle 12.1 / A07a**



## GIYO GM-25D PUMPE

Die GM-25D ist eine besonders flexible Pumpe, die mit dem neuen CNC-gesteuerten Doppelventil-Pumpenkopf von Giyo ausgestattet ist. Dieses bewegliche Design wurde entwickelt, um das Problem der herkömmlichen Schraubventile zu lösen, bei denen sich beim Abschrauben des Pumpenkopfes versehentlich der Ventilschaft lösen kann, wodurch Luft aus dem Reifen entweicht. Die Pumpe funktioniert sowohl mit Presta- als auch mit Schrader-Ventilen. **Halle 9.1 / B29**



## SKS INFINITY UNIVERSAL SCHUTZBLECH UND RÜCKLICHT

Dieses schnell zu montierende Schutzblech lässt sich mit wenigen Handgriffen unter dem Gepäckträger anbringen und bietet Schutz vor Spritzwasser. Es ist in den Breiten 56 und 75 mm erhältlich und wird mit einem Rücklicht mit wiederaufladbarem Akku geliefert. Über einen Adapter kann es auch ganz einfach am Gepäckträger befestigt werden. **Halle 12.1 / A26**



## CAMELBAK PODIUM® VAKUUMISOLIERTE EDELSTAHL RADFLASCHE

Die doppelwandige, vakuumisolierte PODIUM® Fahrradflasche aus Stahl ist so konzipiert, dass sie den ganzen Tag lang kalt bleibt (14-18 Stunden). Die neue Podium Steel hat ein modernes, minimalistisches Design und eine glatte Oberfläche, die nicht nur funktionell ist, sondern auch ein klares Statement setzt. Diese einfach zu reinigende Flasche hat einen High-Flow-Verschluss, eine auslaufsichere Verriegelung und eine optimierte Käfigpassform und ist außerdem BPA-frei. **Halle A23/121**



## TERN BICYCLES BYB P10

Das neue P10 ist die leichtere, sportlichere Version des ultrakompakten, schlanken und faltbaren BYB. Das P10 basiert auf dem steifen und reaktionsfreudigen Fahrverhalten des BYB und ist mit einer Shimano 1x10 Schaltung und schnell rollenden Schwalbe Kojak Performance Reifen ausgestattet. Damit ist das P10 ideal für Stadtbewohner, die in ihrer kostbaren Freizeit maximalen Fahrspaß bei zugleich minimalem Logistikaufwand erleben wollen. **Halle 12.0 / A04**





# PRODUKTNEUHEITEN



## KIND SHOCK G1C GRAVEL-DROPBAR

Dieser Gravel-Dropbar aus Vollcarbon bietet umfangreiche ergonomische Details, um zum einen die Kontrolle zu verbessern und zum anderen Ermüdungserscheinungen zu reduzieren. Sein leichter Rise von 16 mm sorgt für eine aufrechte Fahrposition, während ein 18-Grad-Flare im unteren Teil des Lenkers für mehr Bewegungsfreiheit sorgt, wenn das Terrain ruppiger wird. Gleichzeitig sorgt die Konstruktion aus Kohlefaserverbundwerkstoffen mit variabler Dicke für ein ausgewogenes Verhältnis von Flexibilität und Steifigkeit. **Halle 9.1 / B15**



## TRIGON ARO1 BIKE

Ein d&i Gold Award Gewinner 2023. Diese Rennmaschine ist für den Allround-Einsatz konzipiert. Dabei nutzt sie die sogenannte Vortex-Tubing-Technologie von Trigon, um die Eigenschaften eines Aero-Bikes, eines leichten Bergrennrad und eines Langstrecken-Renners zu kombinieren. Die Geometrie sorgt dafür, dass Komfort und Fahrverhalten in allen Größen gleich bleiben. Das Ergebnis ist die perfekte Mischung für verschiedene Fahrertypen. **Halle 9.0 / E04**

## RIESE & MÜLLER HOMAGE4

Das Homage4 punktet schon auf den ersten Blick mit einzigartigem Design – die markante Linienführung zieht sich vom Gepäckträger bis zum Unterrohr mit vollständig integriertem Bosch Akku. Für höchsten Fahrkomfort und Sicherheit sorgen der tiefe Durchstieg und die Riese & Müller Control Technology mit Vollfederung. Wer weiter weg oder höher hinaus möchte, dem bietet die DualBattery Option mit 1.250 Wh eine Reichweite von bis zu 150 km. **Halle 12.0, booth A13 Test Area F12 H41**



## SKS RENNKOMPRESSOR NXT

Wenn Innovation auf Tradition trifft. Der neue Rennkompressor NXT kombiniert die wesentlichen Elemente des bekannten Originals mit Merkmalen, die auf die Anforderungen der modernen Radsportwelt zugeschnitten sind. Zu nennen ist etwa ein digitales Messgerät, ein erhöhtes Pumpvolumen und einen Sockel aus Aluminiumdruckguss. Die klappbaren Füße lassen sich für den Transport schnell einklappen, während der Griff aus Buchenholz bequem in der Hand liegt. **Halle 12.1 / A26**



## RIESE & MÜLLER DELITE4

Das Delite4 meistert jede Herausforderung – ob lange Ausflüge, holprige Waldwege oder steile Anstiege. Seine herausragende Verarbeitung, die Riese & Müller Control Technology und der starke Bosch Performance Line CX Motor in Verbindung mit 750 Wh Akkuleistung bieten Freiheit und absolute Flexibilität. Sie setzen die Ziele – das Delite setzt die Maßstäbe. **Halle 12.0, booth A13 Test Area F12 H41**

## TAYA DHT TECHNOLOGIE

Die Diamond Hard Technology (DHT) von TAYA erhöht die Oberflächenhärte auf 1.500-2.000 HV und verlängert damit die durchschnittliche Lebensdauer einer Kette auf 8.000 km. Das Geheimnis liegt in der eingebrannten DHT-Beschichtung: Diese dringt bis zu 0,050 mm tief in die Kette ein und übertrifft damit die geringe Reichweite herkömmlicher Behandlungen, die gewöhnlich nur bis zu 0,015 mm Tiefe reichen. **Halle 9.1 / B40**



## ORTLIEB BACK-ROLLER PLUS

Der bekannte Back-Roller kommt mit einem klassischen Packtaschen-Design. Er hat sich schon millionenfach auf Reisen und im täglichen Gebrauch bewährt. Das neueste Update behält das berühmte wasserdichte Rolltop-Design bei. Allerdings ist der Back-Roller Plus jetzt aus einem robusten Cordura-Gewebe und mit dem neuen multifunktionalen Schultergurt von Ortlieb ausgestattet, der eine wasserdichte Außentasche enthält. Nachhaltig hergestellt in Deutschland. **Halle 11.1 / C12**



## KT DYNAMO HUB

Die leichte und kompakte Dynamo Hub von KT liefert eine Leistung von 6W3V und sorgt damit auch in dunklen Nächten für Sichtbarkeit. Sie unterstützt QR- und TA-Achsen und kann mit Felgen- oder Scheibenbremsen verwendet werden. Detaillierte Spezifikationen und weitere Informationen gibt es in Halle 9.2. **Halle 9.2 A07**



## DP MOTOR M065MD MITTELMOTOR

Der M065MD ist ein auf die Straße ausgerichteter Mittelmotor aus dem Hause DP. Er soll die typische Geräuschlosigkeit und Laufruhe beibehalten, für die die Marke bekannt ist, und bietet gleichzeitig ein Drehmoment von bis zu 60 Nm. Der Antrieb wurde so konzipiert, dass er sich problemlos in das jeweilige Bike integrieren lässt und dabei weniger als 2,8 kg wiegt. Er ist nach EN15194 und ISO13849 zertifiziert. **Halle 8.0 / O12**

## TERN BICYCLES WEATHERTOP COOLER

Der WeatherTop Cooler hält Getränke kalt und Lebensmittel frisch, während man auf Tour ist. Die dick isolierte Kühltasche kommt mit 26 Litern Füllvolumen und verfügt über verstärkte Nähte und einen strapazierfähigen Reißverschluss, der luft- und wasserdicht ist, um die Kälte und etwaige verschüttete Flüssigkeiten einzuschließen. Stark: Die extra robuste, wasserdichte Konstruktion ist für einen häufigen Gebrauch bei jedem Wetter ausgelegt. Zudem ist die Kühltasche mit leicht schließbaren Schnallen für die einfache Befestigung auf dem Gepäckträger bestückt. **Halle 12.0 / A04**





# PRODUKTNEUHEITEN



## FUMPA NANO FUMPA

Die nanoFumpa ist die neueste Fahrradpumpe von Fumpa, die mittels USB Typ C wiederaufgeladen werden kann. Sie nutzt modernste bürstenlose Motortechnologie, um einen Straßenreifen in 100 Sekunden auf 90psi aufzupumpen und hat einen maximalen Druck von 110psi. Mit einem Gewicht von nur 100 g ist sie besonders für Rennradfahrer und Mountainbiker geeignet, die jedes Gramm sparen wollen. **Halle 9.2 / G49**



## XPEDO FELIX PEDAL

Dieses neue, besonders breite Plattformpedal kombiniert die leichten Eigenschaften einer Nylonverbundkonstruktion mit zehn herausnehmbaren Metallstiften. Jedes Pedal dreht sich auf einer Chromoly-Achse mit vollständig wartbaren Buchsen und gedichteten Lagern. Der Pedalkörper ist 109 mm breit und 16 mm dick, was für viel Bodenfreiheit sorgt, während die 10 mm hohen G-Pins unter allen Bedingungen hervorragenden Grip bieten. Das Gewicht beträgt nur 340 g pro Paar. **Halle 12.1 / A10**



## JEAN FOURCHE UTILITY BIKES

Jean Fourche hat seinen Sitz in Bordeaux, wo die Fahrräder entworfen und zusammengebaut werden. Dabei handelt es sich um ein kompaktes Sortiment an personalisierten Fahrrädern für Einzelpersonen, Unternehmen und Gemeinden. Die Fahrräder basieren auf einem einzigen Rahmen und sind sowohl mit mechanischem als auch mit elektrischem Antrieb erhältlich, wobei der Schwerpunkt auf Nachhaltigkeit liegt. Da die meisten Komponenten aus der EU stammen, will die Marke den Transportaufwand minimieren und den Produktionsstandort Europe wieder mehr in den Vordergrund rücken. **Halle 9.0 / B11**



## LOTUS RETIRE BIKEPACKING-TASCHE

Die ReTire ist eine umweltfreundliche Bikepacking-Tasche, die aus defekten Reifen hergestellt wird und einen dementsprechend geringeren CO2-Fußabdruck hat. Sie besteht aus strapazierfähigen, wasserdichten und kratzfesten Materialien, damit die Sachen während der Fahrt sicher verstaut sind. Praktisch: Ihr wasserdichtes Innenfach ermöglicht ein schnelles Ein- und Auspacken. **Halle 9.1 / D31**



## RATIOX STUFENLOSES AUTOMATIKGETRIEBE

RatioX stellt stufenlose Automatikgetriebe für E-Bikes her, die auf dem Prinzip des stufenlosen Schaltens basieren. Diese leichte und zugleich wartungsarme Lösung verändert das Radfahren, indem sie es den Nutzern ermöglicht, sich komplett auf das Fahren zu konzentrieren. Die Einheit sitzt in der Mitte des Fahrrads neben dem Tretlager. Dabei übernimmt sie die Schalt- und Antriebsfunktionen und ermöglicht es, dass alle Bedienelemente vom Lenker entfernt werden können. **Halle F12.0 / E14**

## KRYPTONITE COMBO-U-LOCK

Ein Schloss für alle, die Angst haben, ihre Schlüssel zu verlieren: Das Combo Bügelschloss verwendet stattdessen robuste, einfach zu bedienende Einstellräder zum Ver- und Entriegeln. Es verfügt über einen 12,7 mm starken Bügel mit einer schützenden Vinylbeschichtung, um deinen Rahmen zu schonen. Kryptonite versichert zudem, dass das Schloss dank seinem doppelten Schließmechanismus das stärkste Kombinations-Bügelschloss auf dem Markt ist. **Halle 12.1 / A17**



## KIND SHOCK RAGE-IS DROPPER POST

Die Rage-iS Dropper Post von Kind Shock ist jetzt auch in der beliebten Größe 27,2 mm erhältlich. Das bedeutet, dass Gravel-Fahrer nun von einem einzigartigen Design profitieren können, das eine 65-mm-Absenkung mit bis zu 30 mm luftgefederter Dämpfung kombiniert und so für mehr Komfort und Kontrolle sorgt. Trotz ihrem guten Preis-Leistungs-Verhältnis bietet die Sattelstütze erstklassige Eigenschaften, wie etwa ein einteiliges, geschmiedetes Rohr und einen Kopf, in dem sich das leicht zugängliche Luftventil befindet, mit dem sich die Vorspannung und die Rücklaufgeschwindigkeit des Droppers einstellen lassen. **9.1 / B15**

## HAFNY WINDRESISTENTER FAHRRADSPIEGEL

Der Spiegelarm des faserverstärkten HF-M6002LS-FR053 hat ein hohles Design, um das Gewicht des Spiegels zu verringern und seine Widerstandsfähigkeit gegen Wind zu verbessern. Der Arm ist dabei der leichteste und längste in der Modellreihe. Praktisch: Der Spiegelarm wird mit einem Abstandshalter geliefert, der es dem Benutzer ermöglicht, den Spiegel in seiner Position zu fixieren oder drehbar zu halten. **Halle 9.1 E40**



## SKS INFINITY UNIVERSALGEPÄCKTRÄGER

Dieses in Deutschland hergestellte Aluminium-Gepäckträgersystem lässt sich schnell montieren und individuell an fast jede Geometrie anpassen. Sein Schnellspannsystem sorgt dabei für eine einfache Montage an den Sitzstreben. Die MIK-Adapterplatte mit Click-to-Fit-Funktion ermöglicht die einfache Befestigung von Fahrradtaschen mit dem beliebten Adaptersystem. **Halle 12.1 / A26**







## ORTLIEB DUFFLE RC MIT CARGO- STRAPS

Eine vielseitige Reise- und Sporttasche mit Rollverschluss. Die Duffle RC gibt es in einer 49-Liter- und einer 89-Liter-Version, die beide mit dem Cargo-Strap-System von Ortlieb ausgestattet sind. Damit kann die Tasche von ihrem Besitzer getragen oder am Fahrrad festgezurrut werden. Die Straps sorgen außerdem dafür, dass die Ladung auch auf holprigem Gelände sicher gehalten wird. Jede Tasche wird nachhaltig in Deutschland produziert und ist zu 100 Prozent wasserdicht. **Halle 11.1 / C12**

## NOVATEC G24- LAUFRADSATZ

Die ideale Wahl für Straßen- und Schotterfahrer, die Vielseitigkeit und Leistung suchen. Dank ihrer hakenlosen Carbon-Felgen bieten diese Laufräder außergewöhnliche Steifigkeit und Zuverlässigkeit in unterschiedlichsten Terrain.

Mit einem 28-mm-Felgenprofil ist der G24 für Reifenbreiten von 25-50 mm geeignet, sodass man jede anspruchsvolle Strecke durch ein einfaches Wechseln der Reifen bezwingen kann. **Halle 9.2**

**A37**

## RIESE & MÜLLER ROADSTER4

Das schlanke Rahmendesign verleiht dem Roadster4 seine Sportlichkeit: Die Klarheit des Rahmens erinnert an klassische Fahrräder, während er den höchsten Anforderungen der deutschen Ingenieurskunst gerecht wird.

Der Bosch Performance Line CX Motor mit 85 Nm sowie der integrierte Akku mit 625 Wh sind ausgewogen positioniert für höchste Agilität und Fahrspaß.

Die integrierte Kabelführung unterstreicht den geradlinigen Auftritt.

**Halle 12.0,  
booth A13  
Test Area F12 H41**



## OKAWA A70 MOTOR

Ein robuster Motor, der sowohl für den gewerblichen als auch für den privaten Gebrauch geeignet ist. Der A70 hat eine Nennleistung von wahlweise 250 oder 500 W und einen eingebauten Dehnmessstreifen-Drehmomentsensor. Er kann ein Drehmoment von 90 oder 120 Nm erzeugen und verfügt über einen Sockel nach Automobilstandard. Trotz seiner starken Leistung wiegt das Gerät dank seines Magnesiumgehäuses nur 2,7 kg. Interessant: Es gibt eine großzügige Garantie von vier Jahren ab dem ersten Gebrauch und eine lebenslange Garantie, die über den hauseigenen Abonnement-Service von Okawa erhältlich ist. **Halle 8.0 / H20**

## YFLAB BIKEFLARE VISIO

Der BikeFlare VISIO ist ein im Lenker versteckter Anti-Diebstahl-Tracker. Zwei Module mit einem Gesamtgewicht von 80 g können vom Nutzer oder Fahrradhändler einfach installiert werden. Der primäre BikeFlare-Alarm sendet eine Warnmeldung mit hoher Priorität an das Telefon des Nutzers sowie eine optionale, am Fahrrad montierte Sirene. Wenn der Nutzer vergisst, den Hauptalarm zu aktivieren, sendet das System eine sogenannte Bike-Has-Moved-Benachrichtigung, wenn nach fünf Minuten ohne Bewegung eine Aktivität festgestellt wird. Das in Slowenien ansässige Unternehmen YFLab hat sich auf GPS-Ortungslösungen für Sicherheit und Schutz spezialisiert. Weitere Informationen erhältst du unter [www.getflare.eu](http://www.getflare.eu). **Halle 8.0 B49**



## VELO VL-3628- SATTEL

Ein vielseitiger Sattel für E-Bike-Fahrer. Der VL-3628 hat eine Breite von 160 mm für eine bessere Sitzposition und ein Tail-up-Design, das beim Bergauffahren unterstützt. Der eingebaute Tragegriff hilft, schwere E-Bikes zu manövrieren. Zusätzlich hat der Sattel einen Dauertest mit 150 kg Belastung bestanden und gewährleistet damit ein sicheres Fahrgefühl. Der komfortable Airform-Schaumstoff und die Atmos-Shaping-Technologie von Velo sorgen für ein elegantes Finish und hundertprozentige Wasserdichtigkeit. **Halle 12.1 / A10**

## V-GRIP WAVE SPORTFLASCHE

Hydriert oder cool bleiben. Mit der V-Grip Wave Sportflasche geht beides, denn sie verfügt über zwei Modi: einen starken Wasserstrahl zum Trinken und einen kühlenden Duschstrahl für Kopf und Körper. Der Wechsel zwischen den beiden Modi erfolgt durch ein einfaches Ziehen mit dem Mund, wobei eine Hand zur Sicherheit immer am Lenker bleiben kann. Praktisch: Die Kappe lässt sich für eine einfache Reinigung auch abnehmen. Die Flasche ist spülmaschinenfest und recycelbar. **Halle 9.1 / E08**



## MAGURA CARGO BRAKES

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## SKS INFINITY TOPBAG

Die wasserdichte Infinity Topbag Fahrradtasche kann mit einem Handgriff auf dem Infinity Universal Gepäckträger von SKS montiert werden. Möglich macht das der MIK-Adapter an der Unterseite der Tasche. Mit einem Klick rastet die Fahrradtasche auf der Gepäckträgerplatte ein und kann mit dem Entriegelungs-Stick ebenso schnell wieder abgenommen werden. **Halle 12.1 / A26**







## RIESE & MÜLLER SWING4

Das Stadt-E-Bike mit gewissem Extra: Das Swing4 bringt Sie ebenso gemütlich durch die Stadt wie hinaus durch Wald und Wiesen. Für hohen Fahrkomfort sorgen Federgabel und gefederte Sattelstütze, für den richtigen Schwung der kraftvolle Bosch Performance Line Motor mit 500 Wh Gepäckträger-Akku. Dank optionaler Körbe für Gepäckträger und Lenker sind Sie stilvoll für jedes Transportvorhaben gerüstet. **Halle 12.0, booth A13 Test Area F12 H41**

## V-GRIP PLAID SPORT BOTTLE



Eine einzigartige, gemusterte Version der Wave-Flasche aus dem Hause V-Grip. Man kann ganz einfach zwischen den verschiedenen Modi der Trinkflasche wechseln, während man eine Hand am Lenker lässt. Die Flasche ist spülmaschinenfest, recycelbar und hat eine BPA-, FDA- und EU-Zertifizierung zur Beschränkung gefährlicher Stoffe. **Halle 9.1 / E08**

## MAGURA CBS

Auf der Eurobike präsentiert MAGURA als Weltneuheit ein Combined Braking System für Lastenräder! Viele Radfahrer haben Angst vor der Vorderradbremse und setzen beide Bremsen nicht optimal ein. Das System hilft, beide Bremsen kombiniert zu nutzen und ermöglicht so einen kürzeren Bremsweg. Das MAGURA CBS funktioniert ohne



## REACT OPTRAY SONNENBRILLE

Diese performance-orientierte Sonnenbrille kann innerhalb von 0,1 Sekunden auf sich verändernde Lichtverhältnisse reagieren. So passt sie sich den wechselnden Bedingungen an und wird automatisch heller oder dunkler. Sie verfügt außerdem über eine verspiegelte Oberfläche und ein einteiliges Wrap-Around-Glas für weitreichenden Schutz. **Halle 11 / D27**

## HYENA E-BIKE SYSTEMS UNIDRIVE 60

Die erste Mid-Drive-Lösung von Hyena E-Bike Systems. Mit einem Gewicht von nur 2,4 kg und einem kompakten Design liefert dieser leichte Motor ein Drehmoment von 60 Nm, wobei er auch Beleuchtungseinheiten bis 12 V 24 W speist. Der Antrieb bietet ein hervorragendes Verhältnis von Gewicht zu Drehmoment und eignet sich gut für Stadt-, Trekking- und Rennräder sowie Gravelbikes. Er ist mit den Standardschnittstellen und -batterien von Hyena kompatibel und wird von der Software-Plattform und den entsprechenden Anwendungen des Unternehmens unterstützt. **Halle 8.0 / K16**



## SAMOX EMS06 DIRECT-MOUNT-KETTENBLATT

Samox hat sich auf Kurbeln, Kettenblätter und Innenlager spezialisiert. Das neue Direct-Mount-Kettenblatt aus Stahl ist für sportliche Einsätze konzipiert. Seine einzigartige Bogenform soll sowohl leicht als auch robust sein und ist mit allen gängigen Antriebssystemen kompatibel – darunter Bosch, Shimano und Yamaha. Erhältlich für 47, 50 und 53 mm Kettenlinien. **Halle 12.0 / B07**



## KIND SHOCK S1A SERIE VORBAUTEN

Diese Vorbauten bieten ein geringes Gewicht und ein minimalistisches Design, ohne dabei Kompromisse in Sachen Steifigkeit und Komfort eingehen zu müssen. Sie sind außerdem so konstruiert, dass sie ein angenehmes Fahrgefühl bieten und Ermüdungserscheinungen reduzieren. Erreicht wird dies durch die Verwendung spezieller Legierungen, Wandstärken und einer kombinierten geschmiedeten und CNC-gefrästen Konstruktion. Die Vorbauten werden mit einem robusten, eloxierten Finish angeboten, haben einen Rise von 6 Grad und sind in den Längen 70, 90 und 110 mm erhältlich. **Halle 9.1 / B15**



## XPEDO THRUST ARROW

Das Thrust Arrow Rennradpedal von Xpedo bietet einen einstellbaren q-Faktor, um die perfekte Position auf dem Rad zu ermöglichen. Das innovative Design verfügt mit seinem modularen Posi-Plus-Pedalkörper nämlich über ein individuelles Q-Faktor-Setup an jedem Pedal. Konkret kann man mit dem Thrust Arrow die Kniestellung und den Pedalweg von 53 mm bis 63 mm genau justieren, um einen optimalen Stand auf dem Pedal zu erreichen. Das rennerprobte Dreifach-Lagerdesign von Xpedo und die solide 62-mm-Kontaktfläche der Schuhplatten sorgen darüber hinaus für maximale Kraftübertragung. Die Cleats sind mit 6° variabel (rot) oder fest (schwarz) erhältlich. Gewicht: 300 g pro Satz. **Halle 12.1 / A10**

## TSG PREVENTION HELM

Ein anpassbarer, offener Mehrzweck-Endurohelm. Die Basis für das einzigartige Design dieses Kopfschutzes sind die werkzeuglos abnehmbaren Low-Profile-Ohreinsätze, die auf dem Trail einen individuellen Schutz bieten. Der Helm verfügt außerdem über eine robuste In-Mould-Konstruktion mit stoßabsorbierendem Dual-Density-EPS und verfeinerten EPS-Kanten. Außerdem ist er mit einem einzigartigen zonalen Belüftungssystem ausgestattet, das den ganzen Tag über für einen kühlen Kopf sorgt. **Halle 11.1 / C10**



## SUNNY WHEEL REAR CARGO BOX

Sunny Wheel stellt eine neue Gepäckträgerbox vor, die aus langlebigem, recyceltem Polypropylen aus wiederverwerteten Plastikflaschen hergestellt wird. Laut Hersteller handelt es sich um die größte Box dieser Art auf dem Markt. Sie hat ein Fassungsvermögen von 15 Litern, ein Zahlenschloss und einen Tragegriff und ist für die beliebten CR-111-, CR-113- und MIK-Systemträgeraufsätze erhältlich. **Halle 9.1 / E36**







## ASS MAGIC CHAMOIS CREAM TUB

Die Ass Magic Chamois Cream verwendet ätherische Öle, um den Komfort und die persönliche Hygiene beim Radfahren zu fördern. Außerdem bietet die Creme durch die Verwendung von Lanolin und synthetischem Bienenwachs einen hervorragenden Schutz gegen Scheuern. Ursprünglich für Radfahrer entwickelt, kann die Unisex-Formel auch für viele andere Sportarten verwendet werden. **Halle 8.0 / C13**



## FPD NW-613B PEDALE

Diese erschwinglichen Pedale der taiwanesischen Firma FPD bieten die Eigenschaften, die sportliche Fahrer suchen. Ihr niedriges Profil und ihr breiter Körper sorgen für eine hervorragende Unterstützung und Pedaleffizienz, während austauschbare Metallpins einen guten Grip bieten. Die Konstruktion aus hochfestem, faserverstärktem Nylon hat ein geringes Gewicht und ist unempfindlich gegen Steinschläge. Die versiegelten Lager versprechen eine lange Lebensdauer bei jedem Wetter. **Halle 9.2 / F48**

## VELO VLG-2064D3 GRIFFE

Diese High-End-Griffe bestehen aus einem einzigartigen EVA-Material und richten sich an Elektro-Hybrid- und Mountainbike-Fahrer. Jedes Paar verspricht eine lange Haltbarkeit dank einer 100% UV-beständigen Formel, die niemals klebrig wird. Ihre Lock-on-Manschetten sorgen für einen sicheren Sitz und eine einfache Montage. Praktisch: Am Ende ihrer Lebensdauer können die

Griffe genauso schnell wieder auseinandergenommen und auch recycelt werden.

**Halle 12.1 / A10**



## MESSINGSCHLAGER "BUILD YOUR OWN E-BIKE" CONCEPT: NEUES CARBON FULLY SUSPENSION SUV MODELL

"E-Bikes unter Ihrer eigener Marke und in maximal 12 Monaten bis zur Markteinführung? Kein Problem!" Das verspricht der Importeur Messingschlagler aus Baunach (Deutschland). Unterstützt durch die Entwicklungs- und Beschaffungskompetenz des größten europäischen Fahrradteile-Importeurs kann der Kunde E-Bikes aus unterschiedlichen Konzeptplattformen konfigurieren oder eigene Konzeptideen einbringen. Alle notwendigen Komponenten, von der Schaltung bis zur Federung, können bei Messingschlagler erworben werden. Das neueste Brose-Antriebsmodell ist der "MUC.C.al SUV". Für 2023/24 bietet das Unternehmen dieses vollgefederte Carbon-SUV-Bike mit Brose GEN 2 Antrieben und einem 705 Wh Brose IT 23 Akku an. Speziell für dieses Fahrrad wurde ein Gepäckträger entwickelt. Darin kann auch ein Aluminium-Schutzblech integriert werden. **Halle 12.1 / A19**



## HYENA E-BIKE SYSTEMS E-ROAD AIR ANTRIEBSSYSTEM

Das bisher leichteste Antriebssystem von Hyena. Das E-Road AIR wiegt nur 3,2 kg. Es liefert ein Drehmoment von 30 Nm an die Hinterradachse und verfügt über einen 250-Wh-Akku, der mit einem zusätzlichen 180-Wh-Range-Extender erweitert werden kann. Interaktiv: Zum System gehören eine in den Rahmen integrierte LED-Anzeige und eine Zwei-Tasten-Kontrolleinheit, mit der der Fahrer die Unterstützungsstufe wechseln kann, ohne die Hände vom Lenker zu nehmen. **Halle 8.0 / K16**



## INCYCLES MONTAGE VON FAHRRÄDERN

Die Incycles Bike Group bietet Fahrradmontage-Services in Portugal an. Zu ihrem Angebot gehören die Veredelung und Lackierung sowie der Bau von Laufrädern. Fahrräder, die das Incycles Werk verlassen haben, tummeln sich inzwischen viele auf den europäischen Straßen. Besonders bekannt sind die Leihfahrräder von Lime. Jetzt möchte das Unternehmen sein Know-how als OEM-Partner einem breiteren Kundenkreis anbieten. **Halle 9.2 / B26**



## BIKE FUN ROCK MACHINE WHIZZ

Das einzigartige Rahmendesign des Rock Machine Whizz bietet einen Federweg von 140 mm für den Trail, 160 mm für All-Mountain-Touren und 180 mm für den Bikepark. Vielseitigkeit ist auch das Motto bei der Konstruktion, zu der ein nach oben offenes Oberrohrdesign, austauschbare Ausfallenden, ein überdimensioniertes Steuerrohr und ein Sattelrohr zählen, das für eine verlängerte 200-mm-Dropper-Post vorbereitet ist. **Halle 11.0 / B08**



## THUN REV II

REV II, kurz für REVOLUTION 2, ist die neue Produktlinie von Thun mit zu 100 Prozent CNC-gefrästen, in Deutschland hergestellten, Kurbelarmen für High-end-E-Bikes mit Mittelmotoren. Die REV-II-Kurbelarme verfügen über das ikonische Fenster, das schon die berühmte REVOLUTION-Kurbelgarnitur von Thun in den 1990er-Jahren zu einem echten Hingucker gemacht hat. Außerdem sind sie mit verschiedenen Oberflächenoptionen wie Polished (wie auf dem Bild), Schwarz und Bicolor-Chrom-Schwarz erhältlich. **Halle 12.1 / C29**





## ELASTIC INTERFACE TOTAL RIDE COMFORT

Mit der Einführung von InsoleTech, den Einlegesohlen, die sich vollständig an den Fuß anpassen, präsentiert Elastic Interface das Total Ride Comfort Konzept. Das italienische Know-How und die Pad-Technologie werden nun auf alle drei Schnittstellen des Körpers mit dem Fahrrad angewendet. Der Radfahrer genießt nun einen 360°-Schutz an allen Kontaktpunkten mit seinem Fahrrad. **Halle C05/111**



## FPD NW-315 PEDALE

Diese einfachen und leichten Pedale des taiwanesischen Herstellers FPD verfügen über ein modernes Low-Profile-Hybrid-Design. Ihre eingebauten Reflektoren sind in das Gehäuse integriert, damit sie nicht beschädigt werden. Die aus robustem Kunststoff gefertigten Pedale drehen sich auf einem hochfesten Achssystem und eignen sich für viele verschiedene Fahrradtypen. **Halle 9.2 / F48**



## VALEO VALEO CYCLEE

Das Valeo Cyclee System kombiniert einen 48-V-Elektromotor mit einem adaptiven Automatikgetriebe. Es wird um die Pedaleinheit des Fahrrads herum gebaut und ermöglicht eine sofortige Anpassung an jeden einzelnen Nutzer. Die vorausschauenden Algorithmen des Systems lernen vom Fahrer und antizipieren seinen Tretstil, um in jeder Situation den optimalen Gang anzubieten. Spannend: Der innovative Elektrofahrrad-Antrieb mit Tretunterstützung ermöglicht eine achtfache Reduzierung des Kraftaufwands beim Radfahren. **Halle 9.2 / C30**

## MESSINGSCHLAGER MOTUL REFILL SYSTEM

Das Motul Refill System ist eine Werkstattlösung für nachfüllbare Multifunktions- oder Reinigungssprays. Es verfügt über eine verstellbare und stabile Metallanzette, die ein präzises Sprühen und eine gleichmäßige Verteilung ermöglicht. Es ist nahezu unbegrenzt nachfüllbar und verfügt über Nachfüllbehälter für Bremsenreiniger, Oberflächenreiniger oder Entfetter sowie ein Multifunktions- oder Reinigungsschmiermittel. Das Motul Refill-System bietet eine Reihe von Vorteilen, die sowohl kostengünstig als auch umweltfreundlich sind. Es reduziert die Entsorgungs- und Gesamtkosten und ist somit die ideale Wahl für Unternehmen, die Platz sparen und Kosten senken möchten. Es schont nicht nur die Umwelt, sondern schützt auch die Gesundheit, da es frei von Silikon, Teflon und Säuren ist. Darüber hinaus wurde der Anteil hochflüchtiger Bestandteile in Motul-Produkten deutlich reduziert, um sicherzustellen, dass sie sicher in der Anwendung und Handhabung sind. **Halle 12.1 / A19**



## DOLLY BIKES CARGO-BIKE

Das Dolly Cargo-Bike bietet geringes Gewicht, trendiges Aussehen und solide niederländische Qualität. Es ist serienmäßig mit einem robusten 80-Nm-Motor und einem 600-Wh-Akku ausgestattet und hat eine leichte, doppelwandige Kunststoffbox, die in elf Farben erhältlich ist. Das Antriebssystem des Fahrrads bietet fünf Unterstützungsstufen, während die NuVinci-Envio-Cargo-N380-Nabenschaltung für ein stufenloses Schalterlebnis sorgt. **Halle 8.0 / E22**



## TERN BICYCLES TAIL HITCH L + BIKE TOW KIT

Die Tail Hitch L verlagert die Befestigungspunkte für den GSD-Anhänger weiter nach hinten. So kann man einen Anhänger für Ladung, Kinder oder Haustiere ziehen und gleichzeitig andere GSD-Zubehörteile für eine größere Ladekapazität nutzen. Um ein Fahrrad mit dem GSD zu ziehen, braucht man nur das Bike Tow Kit, das verschiedene Rohrgrößen für die meisten Gabelabstände abdeckt. **Halle 12.0 / A04**



## V-GRIP ONE CLICK MAGNETIC BOTTLE UND CAGE

Diese minimalistische, magnetische Halterung ist mit drei verschiedenen Einrastpunkten ausgestattet. Sie ist ideal für Fahrräder mit begrenztem Platz am Rahmen und ermöglicht es, eine Flasche von rechts, links oder in der Mitte zu entnehmen. Dabei hält sie die Trinkflasche sicher fest und ist dank ihrer Langlebigkeit und des festen Haltegriffs auch für Gravel- und Mountainbikes geeignet. Gleichzeitig dürften das geringe Gewicht und das schicke Design auch Fans in anderen Disziplinen überzeugen. **Halle 9.1 / E08**



## ASTRO EG4A-B11 ELEKTRO-LASTENRAD

Das neueste Lastenfahrrad aus dem Hause Astro bietet individuell anpassbare Aufbewahrungs- und Transportmöglichkeiten, sodass es für den Wechsel zwischen Arbeit und Freizeit perfekt vorbereitet ist. Dank eines Doppel-Akkus von Bosch verfügt es über eine große Reichweite. Ein großes Hinterrad mit viel Grip und ein kleinerer Vorderreifen sorgen für Stabilität und Manövrierfähigkeit, während die Federung an Gabel und Sattelstütze Komfort verspricht. **Halle 9.1 / C26**



## BAFANG M510 MID MOTOR SYSTEM

Der M510 von Bafang ist ein Upgrade des beliebten eMTB-Performance-Motors. Im Vergleich zur letzten Generation bleibt das maximale Drehmoment bei 95 Nm, aber das Gewicht wurde um 18 Prozent reduziert, während die maximale Leistungsabgabe um 20 Prozent steigt. Auch die maximale Trittfrequenz wurde auf 120 U/min erhöht. Die intelligente Steuerung sorgt für ein sanftes Anfahren, eine kraftvolle Beschleunigung und eine kontinuierliche Spitzenleistung für knallharte Kletterpartien. **Halle 8.0 / J18**





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## PERFORMANCE ENHANCING GADGETS FROM WINDPULS AND CORE

For some time “optimized aerodynamics” have been a focus for bike and accessories manufacturers. What often gets left out of the effort to improve aerodynamics, however, is the fickleness of wind in real time.

**Windpuls [8.0 / D44]** has solved the challenge of harnessing wind data with its airdropOne sensor to close the information gap by recording local wind and weather conditions and visualizing them in an app and dashboard. The airdropOne can be mounted on handlebars, helmets, or other preferred location on the bike or rider where it captures wind, weather, and position data. The data also enables training ride comparisons, and supports athletes, coaches, and technical advisors to optimize cycling efficiency. In the hunt for watts, wind data can influence equipment choices when performance comes down to marginal gains.

Windpuls is an Austrian startup founded in 2021 by Christoph Feichtinger and Philipp Kitzmueller. The motive for the airdropOne comes from Feichtinger's drive to optimize material and performance, and a clear absence of a tool to reliably measure the environment. His PhD work to measure wind and weather on moving objects resulted in the airdropOne. The suggested retail price for the device, app, and basic features is €899, however Windpuls is offering Eurobike attendees a special price of €599.



Windpuls founder, Christoph Feichtinger, with the airdropOne

Some racers are quite literally “in hot pursuit,” which is when their core body temperatures rise to a level where performance suffers. **Core [11.1 / C17]** has addressed the effects of heat on performance with a wearable sensor that clips onto a heart monitor strap or a sports bra to continuously measure core body temperature. Previously core body temperature measurement was conducted in a lab in an environment that fell short of real-time training and racing conditions. Core houses a thermal energy transfer sensor specifically designed by parent company, greenTEG, in a 40x50x8.35 mm, medical-grade plastic casing. The sensor sends real-time data to paired devices to provide the user with information on their core body temperature, activity in defined temperature zones, and info on thermal load and effective heat training. The device weighs just 12 grams and retails for €298.95. ■ **WB**



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