



SHOW DAILY

DAY 4 - SATURDAY

BAFANG

E-BIKE
DRIVE
SYSTEMS



POWERFUL
SMOOTH
DYNAMIC

Hall 8.0 [J16]



70N.m



INSIDE:

WOMEN IN CYCLING | TRP VISTAR DRIVETRAIN
DAHON'S ROAD BIKE | 'STEELING' THE SHOW | HEPHA RETURNS
SRAM'S EAGLE POWERTRAIN | GRAVEL CYCLING BOOMS
PINION AND THE MGU REVOLUTION | SCANDINAVIAN BIKE MARKET
"MADE IN ITALY" SEES FIRST SIGNS OF RECOVERY
CYCLR'S SHRINKING CARGO BIKE | PRODUCT HIGHLIGHTS
AND MORE...

PRODUCT ROUNDUPS: HELMETS | BIKE LIGHTS | GRAVEL CYCLING | SPEED PEDELECS
COMPACT URBAN E-BIKES | TRIATHLON AND TT | ROAD & GRAVEL TYRES | WHEELS
GRIPS & BAR TAPES | SUSPENSION | BIKE BAGS & PANNIERS | ECO-FRIENDLY TYRES



Miranda
The European Bike Fundamentals.

mirandabikeparts.com
Hall 8.0 | Booth I02



Miranda
The European Bike Fundamentals

We reached carbon neutrality

This photo was taken on the land we acquired in 2023, adjacent to Miranda, with over 24,000 sqm. Our goal is to promote a biodiversity and ecosystem restoration project to enable a regenerative management toward nature and carbon sequestration enhancement.

Our scope 1 and scope 2 CO2 emissions, measured in 2022, amounted to 334.2 tons. We have reached carbon neutrality for these emissions by purchasing Verified Carbon Credits, certified by VCS, ASES, and TÜV NORD. However, we are actively working towards achieving carbon neutrality through our own efforts. The acquisition of this land aligns with our goal to offset the residual emissions that are currently impossible to eliminate due to technological barriers.

We are proud to lead in sustainability with bicycle components made in Portugal, using 100% green electricity, incorporating an average of over 80% recycled aluminum content, and developed with ecodesign principles since inception. Additionally, having all production processes in-house, from design to final product, allows us to control sustainability at every step. Our supply chain is also approximately 75% local, further supporting our commitment.

www.sustainability.bike

www.mirandabikeparts.com

Hall 8.0 | Booth 102

A pedal that works as hard as you do



VPE-892



VPE-858



VP-185



Our new city models feature a large, modern platform to increase comfort. Additionally, these models pass the Zedler XXL standards to meet the needs of 180KG loads.



VPG-201



New Junior Grips Empower Young Riders To Excel

- VP's new, high-performance junior components fit smaller riders yet perform as well as their full-sized counterparts.
- The VPG-201 grip has a 2-zone core that provides a secure fit and increased comfort.



vpcomponents.com



Greater Durability RDX Delivers Superior Performance



JA-179F-X12-SBT



JA-023R-X12-SBT

- RDX increases strength by using more contact surface to transfer power inside the hub.
- Fewer moving parts means improved reliability and reduced maintenance.
- The biggest advantage of the RDX system is that the ratchet faces engage simultaneously, every time, which increases durability.

MODUS
modus.com.tw





DDG's CEO Anton Papenfuss aboard the Intelectra cargo quad.

READY FOR (ALMOST) EVERY LOAD

With a background in developing serial hybrid e-drive systems for other companies, **Dynamic Drives Giessen [hall 8 / D14]** was founded three years ago. "We wanted to do our own thing and tackle a project as complex as possible to showcase our abilities," DDG CEO Anton Papenfuss explained at the company's stand. The result is a cargo quad called Intelectra that uses a serial hybrid drive and is available in two sizes. "We have built these cargo quads around Euroboxes. The grooves integrated into the profiles and the cargo bay allow for flexible builds for a variety of use cases."

LET A FRIEND TAG ALONG FOR THE RIDE

This cute bubble-style trailer from **Oskar-Bebehut [hall 8.0 / F26]** can carry kids up to 40kg and is ready to take on a range of terrain thanks to its fat tyres. Its retro looks and solid construction are a counterpoint to most similar products. Inside, you'll find an upholstered interior, a comfortable padded seat, and a classic safety harness. "We had a group of kids come by the stand today, and they all really liked this trailer along with our wooden models," said Brittany Cai, the firm's representative. "On Saturday, the show is open to the public, and I think we'll have even more interest".



THE ROBOTS THAT BUILD YOUR BIKE'S WHEELS

Visitors to Eurobike can get up close with the machines that build bicycle wheels without the need to visit a factory. "We're showing a range that covers the full process, all of which are made in France," explains **BikeBotix's [hall 9.0 / C20]** Jean Pereira of the suite of automated machines on show at the booth. "The first step is a hub filling machine that fits the spokes, then comes the lacing, which links the spokes to the rim, and finally, there is truing and tension." The production line can create as many as 60 completed wheels every hour.



E-DRIVE FOR TOUGH TRAILS

Not happy with how existing e-drive systems work on technical alpine trails, Swiss mechanical engineer Bruno Villiger decided he could do better, founding **Villiger Dynamic [hall 8 / H28]** in September last year. At this year's Eurobike the company is showing the first samples of its mid-drive motor, with one motor supporting the rider and a second adjusting the gear ratio. "Our stepless transmission is based on cogs and planetary drives only, as is common in tractors. The basic idea is that you can set the cadence you wish to ride at and our e-drive system adjusts the gear ratio constantly, making your ride simple and easy." ■ LVR



Villiger Dynamic's General Manager Bruno Villiger with the company's mid-drive motor.

HEPHA Urban 7

- 80Nm motor
- Dropper Stem
- Hub lock
- Trunk-box



Discover the new e-bike brand from Munich.



LIMOTEC DESIGN. DEVELOP. PRODUCE.

ULTIMATE PARALLELOGRAM SUSPENSION POST

LIMOTEC S5

Rebound Adjustable

30mm Suspension Travel

556 grams

Optimal Suspension Performance



Meet us at:

Eurobike
Hall 8.0 / D10

TODAY
July 06
FRANKFURT
24°C
SCATTERED SHOWERS

TONIGHT
10°C
PARTLY CLOUDY

TOMORROW
23°C
MOSTLY CLOUDY

VIRTUAL HERO

SPIN FOR THE WIN

Eurobike has joined forces with **Cycle Café [hall 11.1 / B35]** for the first-ever Virtual Hero competition. Following qualifiers in Frankfurt, Düsseldorf and Berlin, the grand finals for both men and women are being held today. Tomorrow, visitors are welcome to try WhiizU's Indoor Virtual Cycling Training App.

EUROBIKE FESTIVAL DAYS 2024

SCAN HERE FOR FESTIVAL DAYS

A full program for all bike fans at Eurobike 2024: show performances with world stars from the trials and BMX scene, hands-on activities in the KIDS AREA, thrilling bike races, extensive test rides on the latest models and much more!

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DU TRÄUMST ES, WIR MACHEN ES.

e-Cargo

HALL 9.1/A35

ARMOR: 50 YEARS OF HELPING BRANDS



Taiwan-based frame-maker **Armor [hall 9.1 / A35]** is celebrating half a century in business. Its colourful display highlights the firm's desire to help bike makers realise new designs by combining elements from its extensive catalogue of frame elements or collaboratively producing entirely new ones.

"Our slogan is you dream it, we make it," explains the firm's assistant manager, Collins Lu.

This year, the firm is diversifying motor compatibility on its standard frames. While all currently come with Shimano motor and battery compatibility, Armour has also added compatibility with motors from Italian e-bike motor specialists OLL.

"The downtubes for Shimano are only for Shimano, so we've had to develop a different one for other brands. But we can add anything the customer

wants, including Bosch or Brose. We can come up with suggestions or make a new design. Then we can arrange paint and make logos and branding."

While aluminium production remains a mainstay for the company, Armor has also amassed around a decade of experience making carbon fibre chassis too.

"We have also started to make a range of complete bikes in Cambodia," says Lu. This includes the VikingX Ecargo bike, which features a built-in rear rack, modular front platform system, and upright BMX-style handlebars.

The firm's customers can also specify the many modular rack and carrying options, including running boards.

The firm is keen to make new connections at this year's Eurobike. "We've already been busier than last year, with many new customers."

TRP UPS ITS DRIVETRAIN GAME

While the test track on Frankfurt's fairground was expanded substantially for this year's Eurobike, **TRP [Tektro, hall 12.0 / B17]** felt it was not enough to experience the advantages of its new drivetrain for dropbars. So the company teamed up with **Classified [hall 11.0 / A11]**, inviting media for an early morning group ride yesterday that looped out of the city and back.

The test bikes were fitted with TRP's new Vistar drivetrain, a pure one-by solution for dropbar bikes offered with suitable chainrings and cassettes for road bikes and gravel bikes. This wireless electronic drivetrain uses Bluetooth to change gears smoothly and quickly with a tap of the finger. Since one shift paddle is textured and the other is not, there is little chance of mixing them up, and the brake and shift levers offer proper comfort and ergonomics. You can double the number of gears by combining the Vistar with Classified's Powershift rear hub. This opens up Quantum Shift mode: the derailleur and planetary hub unite to offer 15 evenly spaced gears, all controlled by the right hand.

The other drivetrain news from TRP at Eurobike is the E.A.S.I. — a wireless 12-speed drivetrain for e-mountainsbikes. Thanks to coopera-



TRP's wireless and electronic Vistar derailleur premiers at Eurobike.

tion with **Bosch eBike Systems [hall 12.0 / A21]**, the E.A.S.I. is the first premium derailleur-based drivetrain that can make use of the e-shift mode and change gears automatically, allowing the rider to focus on braking and picking lines. ■ **LvR**

HAWKEYE'S SMART CAMERA KEEPS AN EYE ON TRAFFIC

"Our product is a camera that can alert riders to threats that are coming up behind them by displaying them graphically on their phone," explains Christopher Schiavino, founder of **Hawkeye [hall 8.0 / A23]**. The unit uses internal AI to learn and differentiate between different vehicles. Its use of cameras rather than radar technology also allows it to detect objects that are stationary relative to the rider. "It has an inference chip that's doing all the calculations, and a Bluetooth connection for moving information to the rider's phone." The light also has a range of programmable alerts for upcoming traffic, and its cameras record any incidents for later use as evidence.



KOMMIT'S BIKE TOWING SYSTEM

When Robert Rieger started cycling with his son, he tried all sorts of ropes, bungees and bike tubes to link the two bikes. He ended up creating **Kommit [hall 8.0 / D32]** to make a smart bike tow rope that has met with abundant demand. The towing system consists of a retractable rope in a round case that attaches underneath the adult bike's saddle and around the clamping screws on the second bike's stem. Kommit says it has sold more than 40,000 units, at a recommended price of nearly €70.

"It can pull up to 120 kilos and the rope is always under tension," explained Frank Hofmann, head of product and development. This year



Frank Hofmann with Kommit's bike towing system.

Kommit is adding a bungee for the second bike, to add a little suspension for beginners.

DAHON LAUNCHES DEBUT ROAD BIKE

At Eurobike, **Dahon [hall 9.0 / F06]** is previewing the VéloDon, its first road bike. "This is a new venture for Dahon, which is best known for its folding bikes," explained Marketing Director Kevin Chenh at the company booth yesterday.

"We're testing the water in the road sector and at the same time doing a lot of research that can benefit the rest of our range".

The bike is described as having 'D-Velo technology', which aims to boost rigidity across the frame and fork. The idea comes from the firm's folding bikes. "We have a technology called Deltec, which uses a tensioned wire to improve the rigidity of our folding bikes by around 15%. We tried to achieve a similar result by working on the carbon layup," Chenh said.

The VéloDon's carbon frame also features a distinctly Dahon aesthetic. This is based on a pronounced compact frame that provides drastically increased standover. The bike on



the firm's stand also features Dahon-branded deep-section carbon wheels, wide, flared handlebars and a Shimano 105 hydraulic groupset. It will be available in multiple colours featuring the same gradient paint job.

"We're aiming at the road bike market and focusing on speed, but there's also possibilities for commuters. We're trying to keep some of the heritage there," says Chenh. "At the show, we're hoping to expand our European market," says Chenh. "Dahon hasn't been as present in the region as in the past, so we're looking to introduce innovations while highlighting our expertise, which is mostly in folding bikes". ■ **JD**



THE ONLY FOLDING LOCK IN THE WORLD WITH **ART3**

And we have two of them



Hall: 11.1
Booth: D11
Come visit us!

seatylock.com



EUROBIKE VENUE MAP & PROGRAM OVERVIEW

Exhibition Area

Ecomobility: LEVs, Light Electric Mobility, Urban Mobility, Infrastructure, Logistics, Mobility Solutions, Ecomobility Forum	Hall 8.0
Bikes/E-Bikes	Hall 9.0, 11.0, 12.0
Parts/Equipment, Components, Fashion, Accessoires	Hall 9.1, 11.1, 12.1
Supplier Area (Wed. - Fri.)	Hall 9.2

Special Areas

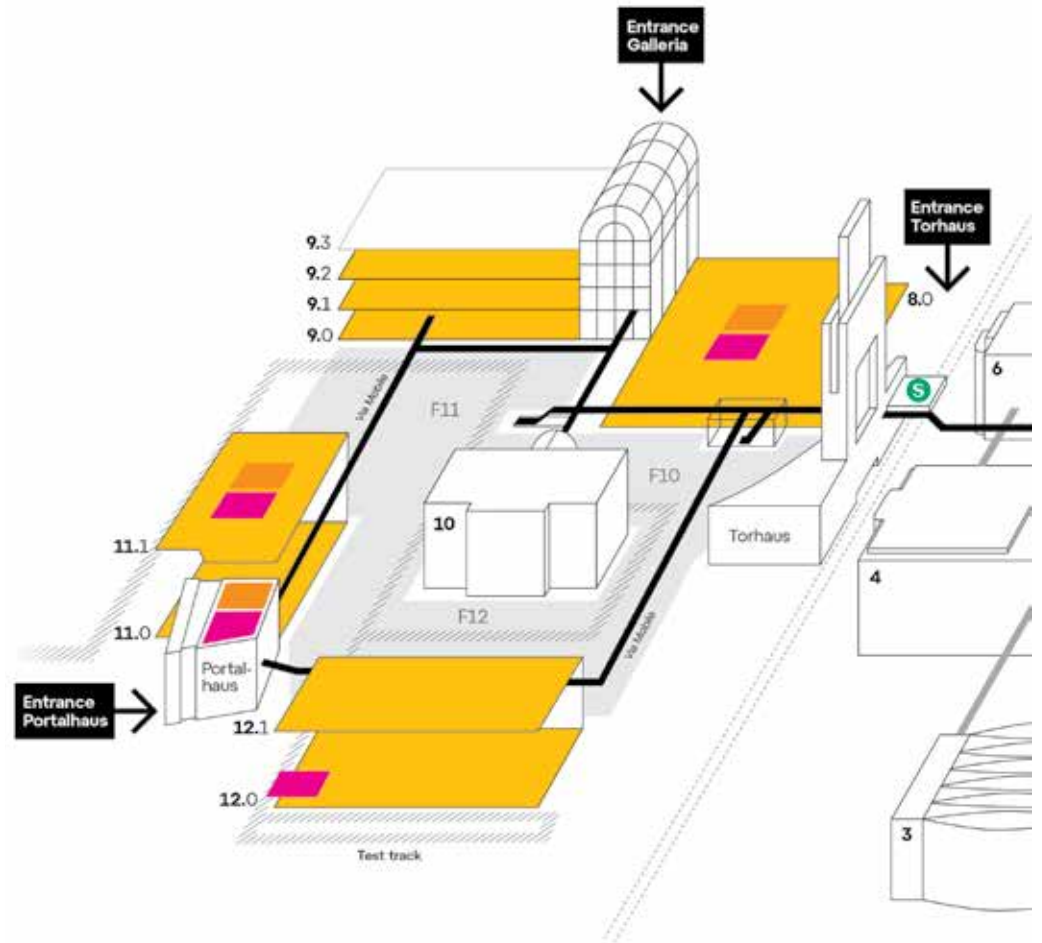
Award Exhibition, START-UP AREA, CARGO AREA, SERVICE AREA, ECOMOBILITY Experience Gallery	Hall 8.0
SPORTS & PERFORMANCE AREA, Cycle Cafe, Pink Sofa	Hall 11.1
CAREER CENTER + Jobmarket	Hall 12.0
Handmade Area	Hall 12.1
EUROBIKE Hub: Networking Space, Media & Creator Lounge, Mediapartner, Trade press stand	Portalhaus

Conferences & Sessions

Industry & Start Up Day, Award Verleihung, Mobility Convention, Ecomobility Talk, Cargo Academy, Bike Travel Forum, Retail: Sales & Services, Mobility goes Digital Commerce	Hall 8.0
Leaders' Night, Women in Cycling, Investors' Lounge, Bidex Lounge	Portalhaus
Gravel Talk, VIP Meet & Greet	Hall 11.1/ Pink Sofa
Handmade Talks, Innovation Pitches, Gravel Talk	Stage 12.1

Open Air Grounds

DEMO AREA, Sa. - Su.: Action Area, EUROBIKE Skyline Contest, Infinity Show, Bembel Crit, Cargo Bike Advice	F10
DEMO AREA, Sa. - Su.: KIDS AREA, BIKE TRAVEL AREA, GRAVEL LOUNGE	F11
DEMO AREA	F12



PROGRAM OVERVIEW

EUROBIKE 03.-07.07.2024

● ● Eurobike.com

DAY BEFORE	BUSINESS DAYS			FESTIVAL DAYS	
Tuesday, 02.07.24	Wednesday, 03.07.24	Thursday, 04.07.24	Friday, 05.07.24	Saturday, 06.07.24	Sunday, 07.07.24
Media Kick Off	Industry Press Conference	Leaders' Breakfast	Women in Cycling	Bike Travel Area: bike travel operators, bike travel stage with travel, adventure reports and advice and inspiration for future bike trips	Bike Travel Area: bike travel operators, bike travel stage with travel, adventure reports and advice and inspiration for future bike trips
Press tour	Industry & Start-Up Day	Mobility Convention	Bike Travel Forum	Kids Area: balance bike and kids' bike parcours, creative workshop, pump track and more	Kids Area: balance bike and kids' bike parcours, creative workshop, pump track and more
	EUROBIKE Award Ceremony	Ecomobility Talk	Retail: Sales & Services	Action Area: BMX Skyline Contest, Bembel Crit, Infinity Show, Gravel Lounge, and more	Action Area: BMX Skyline Contest, Gravel Lounge, Hugenotten-Ride** and more
	EUROBIKE Investors Lounge	Cargo Bike Academy	Mobility goes Digital Commerce	Gravel Talk	
		Pink Thursday*	EUROBIKE Party		
		Gravel Talk	Career Center		
			Demo Area		
			Cargo Area		
Leaders' Night			Ecomobility Experience Gallery		
			Start-Up Area		
			Handmade Area		

*Massif Central **Neu-Isenburg
As of June 13th, 2024 | Subject to change



The ride starts here.

Booth No. D33 | Hall 12.1

EUROBIKE 2024

TRAILER FOR ALL-TERRAIN

You will hardly find a booth at this year's Eurobike that presents a larger variety of bicycle trailers than Chinese manufacturer **Jiaxing Sports Technology [hall 8 / F26]**. Producing 10,000 to 12,000 trailers per month marketed under the Oskar Bebehut brand and sold mainly in the United States, Germany, France and Italy, this company has some serious industrial capacity. At Eurobike yesterday, Brittany Cai of the company's design department explained "Our bestselling items are trailers for children and pets, but we're happy to meet special requirements as well – such as matching trailers for fat bikes to be ridden on sand or snow."



Brittany Cai with an Oskar Bebehut trailer built for a fat bike and gnarly terrain.



Stephan Hahn wants his Carlos bikes to be fun to ride, with the added utility as an extra.

COVERING THAT LAST MILE

In the early 80s Honda launched a mini motorbike dubbed the Moto Compo as a last-mile solution. At its Eurobike booth **JD Components [hall 8 / J12]** is showing a new electric version of this concept named the Moto Compacto, already available in the United States for US\$995. "Honda reached out to us to get this concept built. With parts from our TranzX brand and our knowledge regarding hub motors and scooters we were happy to take on the challenge," JD Components CMO Justin Chou explains. "The Moto Compacto fits into small trunks, looks good in an apartment and caters to modern urbanites."



JD Components CMO Justin Chou with Honda's Moto Compacto - a very Japanese last-mile solution.

PUTTING THE FUN IN HAULING GOODS

Founding a bicycle brand in the middle of a pandemic is not the easiest challenge. But this did not keep Taiwan-based German Stephan Hahn from doing just that in 2021. The first Eurobike show held in Frankfurt was also the first showing for his brand **Carlos [hall 8 / B30 and F11 / E15]**. Using a freight container as its booth, the start-up showcased its C series longtail and the M series mid-tail models in 2022. Two years down the road and the Carlos stand has grown in size with four models on display – and a wide offering of accessories to complement them.

"At Carlos, we are producing sports utility bikes rather than cargo bikes," Hahn said at the company's Eurobike

booth. "Our main goal is to build smart and compact bikes that are fun to ride and fit in the back of a car if necessary. The capability to carry children or freight is a welcome extra that should not come at the cost of the handling." This is evident in the positioning of the 800 Wh battery on the foldable, compact V series Long John model: to shift its weight towards the front wheel and keep the center of gravity low, it has been mounted deep down and centrally.

Apart from the compact F series folding bike that uses a hub motor from Mivice, the other news at this year's Eurobike is that Carlos is offering its C and V series models with Shimano's EP6 Cargo mid-drive motor as an alternative to the Brose unit. **LVR**

RAKK 2.0 E

[E-BIKE STORAGE]



Width 23mm-4.5", tires. 75lbs (34kg) capacity.



Magnetic cord organizers keep the charger cord off the ground.



Adjustable charger tray keeps ebike charger and cables safe, and organized.



Diameter 20"-29" (16" with adapter). *Sold separately

FEEDBACK SPORTS

HALL 11, BOOTH B14



NEW

VOX POP

Your highlights at the show?



Lara Cunico
Selle Royal,
Italy
I feel positive vibes in comparison with previous years, when there was maybe a bit of uncertainty and fear

about the future. Now I feel that there are signs that people want to gather together again, and not complain anymore. They want to be proactive, to improve and to have better goals for the future. There was a lot about sustainability and networking. Also, women (in cycling) was very topical at the show. I felt there's a lot of movement happening. My hope for the future is that maybe in the coming months or years, we can take a more unified approach to each of these topics, in order to be stronger.



Franziska Kühne
Carver Bikes,
Germany
I really loved seeing all the cargo bikes that have sprung up. All the new concepts, and the evolution

of existing concepts as well. Being able to carry multiple kids and cargo at the same time, for me as a mother of three, it's a game-changer. I also love seeing all the IOT technology, all of the connectivity that has been coming up in the halls. I work for a bike brand, so I'm looking at this from a bike maker's view, and looking at what technologies to incorporate into our bikes in the future.



Bret Paasma
Comodule,
Estonia
There are so many emotions and new people. You're going around and talking to people, and there's people with so many

backgrounds, histories, companies - you're learning every second. That's the biggest thing to take away from this event. That's the highlight of this event. There are emotions in the sense that, on the very first day, maybe you have a bit of stress getting everything done, everything displayed. I work in marketing, so I supervise all the visual side. The first day is very emotionally draining, but there's also the high when you've completed everything successfully and everything looks good. So, it's like a rollercoaster.



Gertjan Vijge
Serea Locks,
Austria
We're new in the business and it's our first show. It's amazing to see how rapidly the market is changing.

You see new developments on all different fronts, and the highlight for me is seeing the development of new technologies. We work with NFC technology. For me, the bike market has always been rather traditional, but it's opening up for new solutions. This is exactly what the bike industry needs: to attract people who would generally not consider the bicycle as a transportation method. E-bikes are the classic example, but we've seen a lot of other technical things like security measures and helmets. It's really a nice development to see we're moving towards a goal where there are no excuses to not take the bike.



Wade Wallace
Escape Collective, Australia
I haven't been here since 2019, so I'm still getting my bearings in Frankfurt, and it's been awesome catching

up with the industry in general. Colleagues and friends, that's my highlight in general. It's like the first day back at school for me, it's great. I haven't seen a thing, to be honest, just people. I'm a kid in a candy store. But I've got to sort of look the other way, because otherwise I'll never see any people. I could always look at bikes in other places, but I can't continue seeing people on Zoom. I can replace a bike by seeing it on the website, but I can't replace people. For me, that's the main value of the show.



Stefanie Burkert
World Bicycle Relief, Germany
My highlight was definitely that World Bicycle Relief got the Eurobike Award for our new Utility

S2. It's so amazing to see that our innovation really made an impact, and I think it's a wonderful recognition of all that a bicycle can do to really empower people. There's such a big unmet need for transportation, and our programs show the impact bicycles can have on girls' education, improving education outcomes, and on healthcare workers being able to service more people. Also, if you can choose which market you bring your goods to, it really improves your direct income.

Discover the New Mountain Series



Which type are you?



HALL 9.1 / E30
www.jetsetrim.com

WHERE ARE ALL THE FEMALE LEADERS IN THE CYCLING INDUSTRY?

Getting more women into leadership positions in the bicycle industry has become a key target for Women in Cycling, which brought together more than 200 female participants for its breakfast at Eurobike yesterday.

The event has become an established part of Eurobike's program in the last few years, and it's drawing a growing number of participants – but very few hands went up when the organizer asked who was part of a company's leadership.

"When it comes to decision-making boards, I realized over the last two days that it's still only a few who make it to the very top," said Isabell Erbelein from Velokonzept, which helps organize the breakfast. "We have to make sure that it's not only networking and empowerment. We still have a lot of hard work to do to make sure that we have diverse representation on decision-making boards – and that doesn't include only women, diversity should be wider."

Eberlein and other participants called for "fundamental and structural" change, which could be achieved in part through local groups. A Europe-wide organization, Women in Cycling supports active communities that implement initiatives in their own country.

"We very much learn from each other," Eberlein said. "The U.K. did a study, which Germany will adapt. France did a manifesto, that Women in Cycling in Germany is building upon.



Standing room only for latecomers at the Women in Cycling breakfast.

Switzerland is following now, taking all of these into account."

In between brief talks about female cycling and networking, participants at the breakfast were urged to connect by chatting around set topics with women they didn't already know.

Deborah Wu, managing director at KMC, particularly praised the Liv community for bringing together female cyclists. She advocated in favour of joint initiatives between Women in Cycling and the community created by Bonnie Tu from Giant.

Other participants highlighted the concrete impact of initiatives that encourage women to ride, often in a convivial atmosphere. Kerstin Kortekamp from Schicke Mütze, a bicycle shop and workshop in Düsseldorf, explained how she helps reinforce the community through the Good Time Tuesday women's rides. She even managed to throw in a quote from a feminist punk band.

Other four-minute talks focused on gender-equal design and representation of women in cycling media. Pinar

Pinzutti, a "cycling brainwasher" at Bikenomist in Milan, argued that more balanced media representation would help to provide a wider range of perspectives, and encourage more people to take up cycling.

Women in Cycling is an initiative from Cycling Industries Europe, the European Cycling 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." ■ **BS**

CYCLR CARGOBIKE SHRINKS TO FIT



"The drawback with cargo bikes is their size," says **Cyclr [hall 8.0 / A18]** co-founder Nikolai Carels. The firm's Flex cargo bike aims to solve this problem by extending 40cm to provide additional storage space and a longer wheelbase.

"You have a parent who wants to take the kids to school, but will then go to the train station alone. We found out 60% of the time the additional volume is not used. So why not start with a smaller bike and then make it bigger if you need it?" The bike extends with a simple click and pull that's little harder than opening the boot of a car. "We started with an electrical system using actuators but decided on this mechanical one that adds only around 2.5kg," Carels told the Show Daily.

Maximum load is 175 kg including the rider, with room and harnesses for three children, or two and a younger passenger in a Max-Cosi child seat. One particular challenge was designing steering to work alongside the extending mechanism. This has been achieved with a patented cable actuated system. The rest of the bike's design and features are similarly premium, with an expected retail of €7,500 and launch date of Q2 2025.

"Plenty of visitors to our booth have identified the same problem as us, in having to choose between two styles of vehicle," says Carels. "We're now looking for partners who can help us distribute. Next year we intend to be back at Eurobike with bikes for the test track." ■ **JD**

RAIN, RAIN GO AWAY

Apart from uphill and wind, rain is the biggest natural enemy of cyclists – and it's the main reason not to ride. To tackle the problem **Benno Bikes [hall 12.0 / A19]** has come up with a solution that is lightweight and protects rider and cargo from rain, wind and cold. "Like a windshield on a motorbike, this keeps 85 percent of the rain away. Just like an umbrella it's as quick and easy to mount as it is to stow away. And at less than 1kg the cover is very lightweight," company founder and CEO Benno Bänziger explained at the Eurobike stand yesterday.



Benno Bikes keep the rider and small passengers dry with this detachable rain cover



DIRECTIONAL MONKEYLINK LIGHT TURNS WITH YOU

"The MonkeyLink 2.0 is a steerer-mounted light that's completely sealed within the headtube," explains Stephan Zahn of **Bulls [11.0/A05]**. "What's cool is that it's completely integrated so you always have it with you." The light, available on the Bulls and Pegasus bike ranges, produces 30 lux and is powered directly by the e-bike battery. It comes paired with equally integrated rear lights, both of which can be tested in the firm's darkroom-style booth.

Provide Riders With A Better Cycling Experience

VL-1C47



- Versatile MTB saddle designed for all-around performance.
- 135mm width ensures unobstructed on-and-off positions for riders in various mountain conditions.
- Transition areas feature increased padding for smoother, more comfortable leg grip.
- Specially designed center channel offers pressure relief and superior airflow, with mesh to prevent debris accumulation.
- Signature light PU foam maintains low weight; reinforced nylon fiber shell enhances strength and durability.



VL-1C49



- Performance-oriented short nose saddle.
- Measures 242mm x 143mm, featuring lightweight, shock-absorbing PU foam and superior support.
- Classic T shape with gentle curves and mostly flat top.
- Atmos Shaping technology ensures a sleek appearance that matches any bike.
- Perfect choice for mid-level road, gravel, and MTB specifications.



VL-1C50



- Shorter nose design (250mm) aligns with current saddle trends.
- Medium width (145mm) accommodates the majority of riders on gravel or MTB.
- Using Velo's patented Atmos Shaping technology, Water proof and easy to clean.
- Aesthetically shaped with slight tail-up design for rider positioning during pedaling.
- Center channel provides superior pressure relief and adequate airflow.
- Patented I-Carry design features a concealed ergonomic handle for easier storage and transport.



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Hall 12.1 /C22
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- Body built from ultra-light long carbon fiber
- Large foot support area and three-bearing rotating structure
- Long carbon fiber injection molding technology provides the ZP-115 with light weight and high-strength physical properties, ensuring that pedaling force is transmitted to the crank without loss.

ZP-115



- Formed from die-cast anodized aluminum then CNC milled to produce a mirror-like surface with an exquisite metallic texture
- Bearings: heavy load capacity with super-smooth rotation
- Large tread surface
- 9 anti-slip pins distributed along the rim

ZP-D269



The large LOGO is machined into the anti-slip tread surface formed with CNC milled grooves. The anodized die-cast aluminum body can be electroplated in a variety of colors, creating a striking contrasting color with the metal milling white.

The Zeray Advantage—FEIMIN

Zeray is a brand belonging to FEIMIN, founded in 1996. FEIMIN has been creating and supplying components to several of the most iconic bike brands for many years, giving us around 35% of the worldwide market share in pedals.



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CONFIGURABLE CHILDREN'S BIKES

SQEEDER: SWEET RIDES FOR KIDS DEBUT AT EUROBIKE

A new German brand is exhibiting quality bicycles for children for the first time at Eurobike. The bikes can be configured online and are built around wheel sizes ranging from 16 to 26 inch.



Sqeder's head of production Sascha Krauss and head of business development Michael Schindler.

The history of German kids bike brand **Sqeder [hall 12.1 / C08]** started with an avid mountain biker and father being frustrated by the shortcomings of existing offerings for children - many were way too heavy to be fun to ride for children. Ulf Magaschütz also saw a lot of room for improvement in terms of ergonomics and ease of operation: "Riding a bike in terrain is not easy, so children need to get into it step by step. Putting a child on a bike with a lot of gears and brakes up front and in the back, expecting him or her to ride unpaved trails is likely to end in a frustrating experience - there's just too many new things to learn at once. I also felt that most children's bikes on the market had boring designs and offered little to no options for configuration," Magaschütz recalls. As a result, he founded the Sqeder brand along with a small team.

To maximize the fun on two wheels for children, the brand has opted for a gradual approach: its smallest V3 model with 16 inch wheels comes

with either v-brakes or disc brakes, but no gears and the option for either a chain or a belt drive. This way a child can focus on picking lines, shifting his weight on the bike and using the brakes without having to think about changing gears. The lightweight aluminum frame offers plenty of standover clearance and a slack head tube angle for predictable steering, and contact points like the brake levers, grips, saddle and pedals all have been selected to fit young children. The same goes for the cranks and the handlebar. To further save weight, Sqeder opts for the combination of a rigid fork and wide tires on the V3 model.

A 10-speed drivetrain and a suspension fork come into play with the V4 model built around 20-inch wheels, and options include a dropper post. A special feature is the configurator that allows for individual customization of each model with various components to choose from. Additionally, Sqeder offers 30 different colors, four color packages and many different sticker

configurations is made possible by assembly in Germany. With the V5 and V6 Sqeder has models with 24- and 26-inch wheels respectively as well, and the first full-suspension model will be on display at the Eurobike show. As for distribution, the start-up has opted for an omnichannel approach, with a webshop for D2C business and sales at bicycle shops worldwide.

Sqeder V3 16 inch belt-drive bike



STEEL: SUSTAINABILITY, DURABILITY, AND ARTISANAL APPEAL

'STEELING' THE SHOW: CLASSIC MATERIAL IS STILL STRONG

When steel bikes got kicked off the podium in favor of more advanced frame materials, it seemed to foreshadow a decline for the frame material. Not so, as evidenced by the rise in sales from around 2015 to 2021. Now, steel is again gaining fans for more than just reliability. Since it's 100 percent recyclable, this ancient material is already sustainable. These days, bikepacking and consumer demand for a more sustainable bicycle frame are why steel still has appeal.



Reynolds steel comes from 100% recycled material

A48], a leading supplier of steel tubing. That question hadn't come up much in the more than 125 years since the firm was founded, so the company didn't have an immediate answer. Reynolds conducted its own environmental impact study, which was published in July of 2022. Among other revelations in the report, manufacturing a conventional diamond frame from stainless steel adds 59.44 kg. of carbon dioxide equivalent (CO₂e) to the atmosphere compared to 17.20 kg. for the same frame made from ferrous steel. The report pointed out that steel frames are inherently durable, long lived, easily repairable, and straightforward to recycle at end of life. The global business of steel dates back decades — if not centuries — and has a robust infrastructure oriented around melting, extracting the various components of each alloy, and creating new alloys formulated for specific purposes, like bicycle frame tubes. That means, says Noronha, that your steel bike frame could have elements of knights' armor from the

Middle Ages. And why not? Because all of Reynolds's steel comes from 100 percent recycled material.

Loyal fans of steel will credit its sensational feel more than its sustainability as the reason for their loyalty. **Ritchey [Cosmic, hall 12.0 - B02]** has figured out how to build characteristics like springiness, elasticity, and "liveliness" into its brand of steel frames and forks. Ritchey's newest bike, the Montebello, has been built with proprietary triple-buttressed Logic steel tubing and features the longer wheelbase, lower bottom bracket, and increased stack favored by randonneur riders. Specifically for this class of day/night cyclist, the Montebello has internal Dynamo routing in its WCS Carbon Brevet fork. Suggested retail price for the Montebello is €1,699, including VAT.

Some prefer steel bikes for their artisan craftsmanship. Relative newcomer, **Bixxis [hall 12.1 - HM07a]**, opened in 2015 with a clearly stated intention to bring back a taste for well-made bikes

that exquisitely straddle the line between tradition and innovation. Each Bixxis frame is 100 percent handmade in Italy at the company's workshop a few miles north of Milan. Given that each bike is unique to its owner, Bixxis has to at least give potential customers an idea of their future bike. To highlight good taste in bikes as well as stay current with modern trends, Bixxis is introducing the new Prima Disk steel bike. This model was created to meet the needs of those who want a contemporary product with the craftsmanship and tailormade ethos of Bixxis. The Prima Disk is available with standard or sloped geometry and accommodates a Futura disc SLX Columbus fork that can fit tires up to 30mm.

Steel bikes remain cherished because, unlike some other things in life, steel rarely lets a rider down. Steel's versatility, durability, comfort, and eco-friendliness, and the fact that the craftsmanship of steel bikes can still leave some people speechless, is why certain cyclists "steel" prefer steel. **■ EBSO**

"Ten years ago, we started getting questions from our customers about how much of our steel tubing comes from recycled raw materials?" said Keith Noronha, managing director of **Reynolds Technology [hall 11.1 -**



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HEPHA BIKES AT EUROBIKE

BACK WITH AWARD-WINNING TECH & INDUSTRY VETERANS AT THE HELM

Following its Eurobike Award win last year, young German e-bike brand Hepha returns to Frankfurt with an extended line-up - and some well-known faces as part of the management.



Opting for its own e-drive system has given Hepha a lot of freedom.

“Starting a new company amidst a pandemic and its aftermath can be heaven or hell: heaven if you can use the momentum as a sales boost and hell if you enter the market during the post-pandemic overstock nightmare,” says Alex Thusbass, CEO of **Hepha [12.0 / A10 & F12 / J16]**. “But we say you learn to swim the best in cold waters.” Known from his work as former Design & Marketing Director of Haibike and later managing director of KISKA Munich, Thusbass joined Hepha in June 2023. A few weeks

later he was on stage to collect the Eurobike Award the company had won for its P100 e-drive motor, developed in cooperation with partner Gobao.

“Since we were looking for a clear USP to position ourselves in a highly competitive market, we focused on value. Our goal is to always offer the best-in-class overall package including design, quality, performance and price. If we cannot achieve that, we don’t enter the segment. We feel that a void has occurred in the value e-bike market as more and more companies

leave this important segment for higher price positions. At the lower end, quality, design and performance are not satisfactory. Our answer is to rely on our own e-drive system. This gives us full technological, economic and strategic independence to meet our targets,” Thusbass explains.

Founded in 2021, Hepha did not run into the massive overstock issues faced by many competitors. Apart from relying on co-developed e-drive systems, the brand wants to keep its line-up tidy, following the motto ‘all killers, no fillers’. They set a maximum of three price point levels per model, with a good, better, best approach. “We are a pure e-bike brand and we do not aim for niches but for use cases that promise serious volume. So we started with trekking models and later e-mountain bikes. Next year, we are moving into urban mobility.” Hepha also strives to become a well-known brand beyond the bicycle business through cooperation with fashion labels and others.

Having joined the company as managing director in May 2024, industry expert Bernd Lesch, known from his roles at Winora Group and



While the brand may be new, Hepha profits from experienced managers such as Alex Thusbass and Bernd Lesch.

Pierer New Mobility, has been tasked with the sales and business development. “Today’s consumers spend a lot of time online, so an omni-channel approach is a must and all marketing efforts need to be done both online and offline. As a new player on the market, we could implement this from the very start, getting bicycle dealers aboard through offerings like a click & collect model.” ■ **LvR**

GERMAN FASHION DESIGNER'S BREAKTHROUGH WITH TEXTILE LOCK



Attached to a D-lock, the high-tech fiber rope with a steel chain and eyelets secures the bike.

When she moved to bike-friendly Leipzig more than two decades ago, Alexandra Baum started using her bicycle more often, and the fashion designer regularly got annoyed with her lock.

“I always thought, my bike lock is too short, and it rattles, and so on,” she recalled. “I thought there has to be another solution for this product.”

As things turned out, the solution consisted of textile locks made with robust high-tech fiber, and a hardened steel chain. The flexibility of the lock makes it easy to secure several valuable parts of the bicycle together.

About 45,000 units were sold by **TexLock [Hall 2.1 / D16]** last year,

and Baum is targeting 50,000 this year. The company makes insertion cables for frame locks and lock picking versions, as well as the Tex-Lock eyelet. It’s a textile cable with eyelets that can be attached to a D-lock or U-lock, to securely connect several bikes or parts together to any solid object.

Along the way, Baum benefited from her background in apparel design, specialized in technical and sustainable textile. When she finished her studies, she found that potential employers had yet to invest in greener apparel. She decided to work as a service provider for product development and design.

Baum then teamed up with Suse

Brand, and the two women regularly discussed ideas to create their own products. After a feasibility study and an accelerator program, they launched the project on Kickstarter in 2017.

“We thought it would be good if we sell 500 units,” Baum recalls. But they ended up getting 6,000 pre-orders, and they quickly had to set up proper production.

For Baum, it was an integral part of the concept that Tex-Lock should strive to be more sustainable. She has been immersed in such issues since her studies, and she co-authored *Textil-Fibel*, a book published by Greenpeace about fibers and chemicals in the textile industry.

The fibers used for the textile locks aren’t particularly sustainable, because there are no green solutions robust enough for this product yet, Baum said. But the entire set-up strives to reduce Tex-Lock’s impact on the environment, from the durability of the product to repair options and reduced packaging. “You have to look at the whole lifecycle,” Baum explained. “That’s why I decided to make it in Germany.”

About 80% of the product is manufactured in Germany. The rope is made in Franconia, while the eyelets come from Saxony, but the lock bodies have to be imported from Taiwan. The components are



Alexandra Baum shows off her textile locks.

all assembled at Tex-Lock’s own workshop in Leipzig.

The solution has gained such traction that Texlock is able to charge more than €120 for the locks. The products have obtained certifications from ART and Sold Secure. It’s part of the attraction that they come in bright colours, often with cool patterns.

The locks are sold online and by specialist retailers across Germany and a few other European markets. Texlock is searching for partners in more European countries, and it’s envisaging a joint venture in the U.S.

Texlock has grown to 22 employees, working in production as well as sales, marketing and back office. It’s established in a former piano factory, with several other start-ups. ■ **BS**

BAFANG

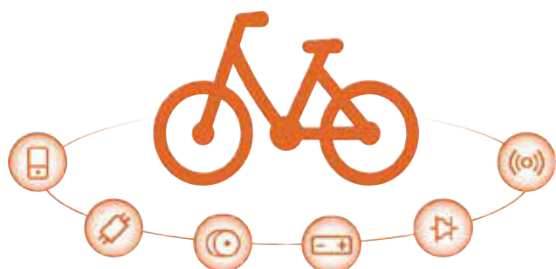
E-BIKE DRIVE SYSTEMS

Hall 8.0 [J16]

WHO WE ARE

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- **Enhanced User Experience**
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INTERVIEW WITH MICHAEL HEMME, SRAM E-DRIVE CATEGORY DIRECTOR

EAGLE POWERTRAIN DEVELOPMENT: BROSE CHOSEN FOR QUIET POWER



entire development cycle but it's fair to say that we have been working on our entry into the e-bike market for years. The development of the Powertrain system was closely tied to that of our Eagle Transmission. The superior shifting performance under load and the longevity of the Eagle Transmission are key factors in the overall system, specifically the Autoshift and Coast Shift performance, so these two products were developed simultaneously.

We opted for Brose as our hardware supplier after extensive testing and benchmarking. The powerful, yet quiet and natural ride feel was exactly what we were after. All ebike drive units experience so-called derating during long climbs, they heat up and lose power. The Brose unit proved to be best in class in this regard and we wanted to have great heat management and a high sustainable power output.

ESD: There were early sightings of SRAM prototypes at EWS-E races. Were these prototypes of the Eagle Powertrain system released in September 2023?

MH: Yes. During the development, Yannick Pontal raced various iterations of Eagle Powertrain in EWS-E and other competitions. He was an important part of the development process and helped us to continuously improve the system over time and validate its performance. We were extremely

proud that his commitment and riding skill landed him the 2022 EWS-E overall title on the Powertrain system even before it was released. Racing is an important part of the SRAM heritage to ensure we produce the highest performing components.

ESD: SRAM's Eagle Powertrain clearly aims at eMTBs. Is SRAM also working on e-drive systems more tailored for either utility purposes or the light-support segment?

MH: SRAM is focused on sportive bikes and hence it feels natural to us that Powertrain was primarily designed for eMTB applications. We can't comment on any future developments but we're always working on exciting new products.

ESD: There have been plenty of rumors regarding the acquisition of Amprio from Rheinmetall. While SRAM never has published an official statement on this, some employees of Amprio seem to be employed at SRAM now. Naturally this is not proof of anything but I wonder if you are in a position to make any statement in this regard?

MH: Entering a new market inherently required us to add a lot of new talents and capabilities to our already talented team. We're excited to expand our capabilities and add incredible momentum to develop exciting solutions in the future. **LVR**

ESD: How long has **SRAM [hall 12.0 / A16]** been working on the Eagle Powertrain prior to its release, what were the most important reasons to

opt for Brose as e-drive partner and what sets it apart from the offerings of competitors?

MH: We don't want to disclose the

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Some of the raw materials we use to achieve this:

- BODY / AL6061, CNC Machined
- AXLE / CNC-Machined Cr-Mo
- BEARING / LSL bushing
- BINDING / Dual sided, Tension adjustable
- PINS / Replaceable
- SIZE / 90x96mm
- WEIGHT / 230g/pc

Hall 9.1
B16 EUROBIKE



MTB-M160



OEM·ODM
PEDAL / DROPPER POST / HEAD SHOCK
PARTS DESIGN · MANUFACTURING · ASSEMBLY



CT-06

CT-06 multi-chain tool designed for universal chain speeds, perfect for tubeless tire repair. It includes plugs, a spare chain pin, and a chain hook. Additionally, it offers storage for spare chain pins and chain links, ensuring you're always prepared for repairs on the go.

BT-56R19

BT-56R19 features folding tools combined a stubby gear wrench with Hex 8, Plug, file, bottle opener & flat. The aluminum sides are good-looking designed with texture. Additionally, it comes with a handy storage box containing ψ 1.5mm and 3.5mm strips and H3/4/5/6/T15/T20/T25/T30 Bits. Also have repair patch and abrasive paper. Its compact essential & professional design ensures portability, making it ideal for rider on-the-go choice use.

HBT-12BPK

The HBT-12BPK Handlebar Tool is a multi-functions, lightweight, designed for easy storage at both ends of the handlebar. The tool to meet different handlebar sizes by smart rotate CCW or CW of the cap to make the rubber ring expansion or contraction for suitable into handlebar. According to HBT-12BPK is made by Aluminum, if you need economical tool, HBT-12PK is your best choice as its tube is made by plastic.

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WHAT SHOULD BRANDS KNOW ABOUT THE GROWING GRAVEL SEGMENT?

GRAVEL CYCLING BOOMS, BUT CAN IT HOOK NEW RIDERS?



The gravel market has seen welcome growth during an otherwise torrid time for the industry. While not offsetting declines in other areas, the segment has done much to prop up sales, especially for sport-focused brands. Many hope the discipline can also attract new and less traditional audiences. How realistic are these expectations? And what should brands know before entering the segment? We sat down with Miles Baker-Clarke, Head of Strategy and Creative at Fusion Media, to find out.

“We’ve seen almost all of our clients embrace gravel in some way,” says Baker-Clarke, whose firm represents brands including Wahoo, Shimano, and Orbea. “And most of them are grabbing it with both hands. It’s been refreshing for us as an agency because it requires a different type of marketing and a different approach to speaking to a slightly different group of people”.

Gravel has climbed up the pecking order at many brands, meaning those formerly prioritising road launches are now more likely to lead with gravel. “Road cycling has always been a smaller area compared to the wider cycling industry,” explains Baker-Clarke. “But we’ve not seen the same growth in the road segment as pre-COVID, and even then, there was a degree of stagnation. I don’t think it helps that how road bikes are marketed hasn’t changed in the last ten years”.

Following a few boom years, many retailers are finding road cycling an increasingly difficult sell for newbie cyclists, given the sport’s narrow specialisation and people’s concerns about traffic. Conversely, gravel bikes’ versatility and ability to escape traffic count in their favour. “Very few people are now willing to purchase a bike that’s only capable of doing one thing,” says Baker-Clarke. “Even within the road market, that age is dead”.

Gravel’s accessible image is also driving uptake. “Gravel offers an opportunity to capitalise on an audience that might be afraid to go on the road, or that doesn’t want to wear lycra, yet can be made to feel comfortable and equal as a beginner on a gravel ride,” explains Baker-Clarke. This mainstreaming of gravel as an entry point to cycling is reflected in both new riders and new brands entering the segment.

At the same time, gravel’s maturation has spawned an increasing number of niches and subdivisions. One recent trend is for faster bikes designed partly to serve in a busy calendar of gravel races. “Many brands are now approaching gravel from this performance angle, where gravel is about races like Unbound, and you ride fast. If you sponsor a road team, some riders become gravel pros,” says Baker-Clarke. This approach is likely attractive to roadies but is less relevant to people new to the sport.

“I think gravel offers an opportunity to grow grassroots cycling that we’ve probably never seen before,” says Baker-Clarke. Presentation will be key to realising this opportunity. Given the drop-off in interest in road cycling, it’s probable that racing isn’t the shortcut to a mass audience. This is important if the segment is to continue bringing new riders into the sport.

“I think we have a responsibility to make gravel riding accessible,” says Baker-Clarke. His advice would be to maximise this opportunity. “Making it possible to pick up a capable gravel bike for not a lot of money will allow people from all sorts of backgrounds to experience cycling in a safe, welcoming, and inclusive environment”.

It’s hard not to think that continuing to appeal to this broad audience is the most likely way to sustain the growth we’ve already seen. ■ **JD**



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The new model, weighing only 17.7 kg, climbs steeply thanks to agile suspension and descent-oriented geometry. The perfectly balanced ratio of steering angle, bottom bracket height, and a rear-end length of 448 mm, combined with a steeper seat angle, ensures that the Kyrök performs both uphill and downhill!

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F12/H02



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PINION AND THE MGU REVOLUTION

BUILDING ON SUCCESS

At last year's Eurobike, Pinion was one of the major trendsetters with its Motor.Gearbox.Unit (MGU). This year, the German company aims to seamlessly build on that success. We took a look behind the scenes.



Pinion's MGU is currently powering e-bikes of nine bicycle brands. At Eurobike 2024, the portfolio will be further expanded.

The southwest of Germany is a breeding ground for successful engineering companies. Beyond the bicycle industry, the names of car manufacturers Mercedes-Benz and Porsche are inseparably linked with the region around Stuttgart. In the bicycle world, too, there are several well-known names that call Baden-Württemberg – the federal state in which Stuttgart is located – home. For instance, the motor manufacturers Bosch eBike Performance and Mahle. **Pinion [Hall 12.0 / B18]**, headquartered in Denkendorf near Stuttgart, is also based here. While the companies mentioned above have been established giants in their fields for years, the drive specialist is a comparatively young and small company. However, with well-engineered products, Pinion has repeatedly shown in recent years that it has what it takes to compete with the big players.

Founded in the Heart of the Automotive Industry

"Pinion was founded in 2008. The starting point for the company came when our founders, Christoph Lermen and Michael Schmitz, had the idea for a bicycle gearbox while working at the Porsche development centre in Weissach," says Dirk Menze, Head of Marketing & Design at Pinion. "The concept was simple: why isn't there a gearbox in the bicycle sector like there is in cars? One that requires no maintenance, doesn't break easily, and lasts forever?" Menze continues, pointing to the product category in which Pinion quickly found success in the years following its founding: bicycle gearboxes that work as intuitively, precisely, and wear-free as a sports car transmission. One of the most renowned products of the 2010s was certainly the P1.18 gearbox, a sealed gearbox protected from sand, mud, rain, or snow. "Even when the trail becomes more technical and narrow,

The Pinion Motor.Gearbox. Unit.



branches or rocks couldn't affect this gear system," Menze says.

"A Pinion gearbox consists of around 140 individual parts, which are assembled into modules by experienced assemblers and technicians," comments Menze. He also provides insight into the company's operations: development, production, and sales of Pinion gearboxes and drives take place in Denkendorf near Stuttgart. The result: every Pinion drive is "Made in Germany" – a distinction they are particularly proud of. The team consists of over 100 permanent employees. Today, Pinion supplies over 100 renowned bicycle manufacturers worldwide and has a network of over 600 dealers across Europe. "But of course, our location is also a big advantage. Here, we benefit from a perfect supplier structure thanks to the existing automotive industry and other engineering firms," Menze adds.

Outstanding Success at Last Year's Eurobike

While the company was already very successful in the early 2020s, the recent Eurobike acted as a turbo-boost for the firm from Denkendorf. At last year's edition of the Frankfurt fair, they introduced their own drive unit – the Pinion Motor.Gearbox. Unit (MGU). The highlight: unlike traditional e-drives that consist of two systems – a gear and a motor, usually

from different manufacturers – Pinion combines both components. "The MGU unites a wear-free, brushless electric motor with proven Pinion gearbox technology and electronic shifting with up to 12 gears in a compact package," Menze summarizes. At the product launch during Eurobike 2023, nine manufacturers showcased e-bikes with the MGU. This year, significantly more companies will be showing e-bikes with the Pinion MGU, Menze announces. Prominent names include French e-bike specialist Moustache and German bicycle manufacturer **Nicolai [Hall 12.0 / B13]**.

It won't be the only news at the Pinion booth. The major announcement: from summer 2024 on, the Pinion MGU will enable fully automatic shifting. "The new automatic feature will be capable of changing gears instantaneously, even under full pedaling load," Menze explains, being well aware of the significance of this update, with which Pinion has an excellent chance to repeat last year's Eurobike success. After all, it's no secret that automatic shifting is a development that – according to many experts – will be one of the next big things in the bicycle world. This innovation positions Pinion at the forefront of the cycling industry's technological advancements. Excitingly, all customers will enjoy the benefits of the new automatic shifting system. The new Smart.Shift feature will be provided free of charge through a software update for all existing MGU e-bikes in the third quarter of 2024.

Looking Forward: Pinion's Next Steps

As Pinion prepares for another season, the company is determined to build on the momentum gained at last year's Eurobike. "We're not resting on our laurels," says Dirk Menze. "Our goal is to push the boundaries of what's possible. With the introduction of the



The Pinion headquarters in Denkendorf near Stuttgart



Pinion was founded in 2008. Today, Pinion supplies over 100 renowned bicycle manufacturers worldwide.



The German company is famous for its detailed engineering.

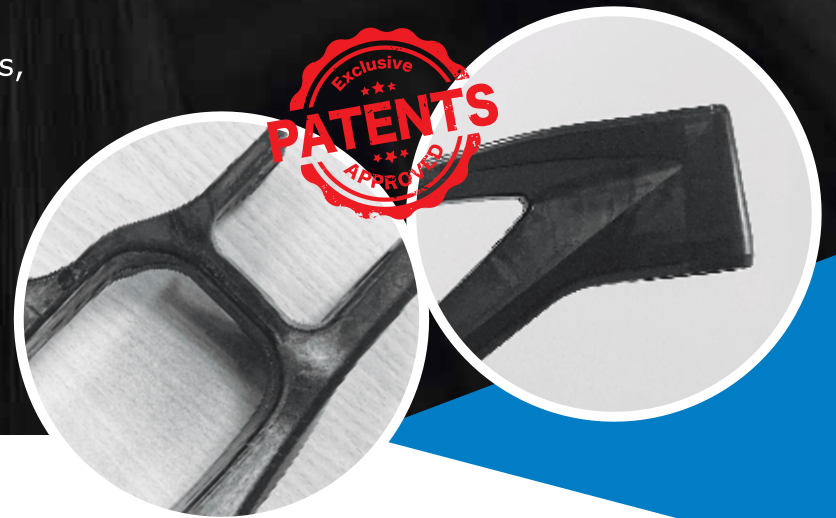
Motor.Gearbox.Unit and the forthcoming fully automatic shifting feature, we are set to continue our trajectory of innovation," he says, referring to the successful path his company has taken in the past 16 years. Nestled in the Stuttgart area, one of Germany's most prominent engineering hubs, Pinion benefits from a rich network of suppliers and expertise, which will be crucial as they expand their impact globally. As the cycling world eagerly watches, Pinion's blend of precision engineering and innovative spirit promises to bring even more groundbreaking advancements in the years to come. ■ TH



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15min per Frame**

Fully Automated Upgrade



COMPACT URBAN E-BIKES AT EUROBIKE

BIG PERFORMANCE IN SMALL PACKAGES

Urban e-bikes are becoming the preferred mode of transportation for more and more city commuters. A noticeable trend in this context is the rise of so-called compact urban e-bikes – electric bicycles that are highly versatile, compact and specifically designed for urban life. Here's a look the bikes in this category on display at Eurobike.



Modern urban e-bikes are becoming more and more compact, sleek and smart.

The urban landscape is rapidly evolving, and with it, the way people navigate city streets. In the quest for more sustainable and convenient transportation options, urban e-bikes have emerged as a game-changer. In recent years, however, more and more urban e-bike subcategories have emerged. One of these is the so-called compact urban e-bike. These electric bicycles are designed to meet the unique demands of city life, as well as offering unparalleled versatility and ease of use thanks to their compact design. As urban environments become increasingly congested, these compact e-bikes provide a viable, eco-friendly alternative for daily commutes. This year's Eurobike also shows that many companies are following this path. The range extends from classic folding e-bikes to compact e-bikes to small cargo e-bikes.

We start our overview with **Giant [Hall 11.0 / B06+B08; F12 / G12+G14]**. The Taiwanese manufacturer enters the race with the Compact

Freedom on Two Wheels

Meet the new ZF Bike Eco System:
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Momentum is Giant Group's lifestyle brand. One of their newest models is the Compact E+.

F12 / J28] range. It is equipped with the Bosch Performance Line SX motor with 55 Nm of torque, with motor support being turned on and off via the seamlessly integrated system controller in the main tube. In terms of battery, 400 or 545 Wh options are available. The Mini Remote on the handlebar extends the functional range, including a walk assist and light switch. The Kiox 500 colour display allows access to additional features. To save weight, the i:SY Skyfly S10 comes without a luggage rack, although one can be retrofitted. A standout feature is the carbon frame: subtly coated with a lightly tinted lacquer, the carbon fibre structure is clearly visible in the UD version. With the JIM, **O2feel [Hall 12.0**

E+ from its lifestyle brand, Momentum. This compact e-bike features a Giant SynDrive Sport2 mid-motor, a fully integrated 500 Wh battery, and offers a range of up to 180 km. The step-through area doubles as an ergonomic carrying handle. Foldable pedals and easily adjustable contact points with quick-release levers make for easy transport. With a maximum permissible system weight of up to 180 kg, the Compact E+ boasts a high load capacity. The M10 trailer hitch mount on the rear of the frame allows for additional passenger and cargo options.

A hallmark of compact urban e-bikes is their lightweight design. At just 16.9 kg, the Skyfly S10 is the lightest e-bike in the **i:SY [Hall 12.0 / A11;**



With its 16-inch wheels, the O2feel JIM is compact and perfect for urban life.

/ C07] showcases a classic electric folding bike. With its 16-inch wheels, it's compact and perfect for urban life. JIM, an acronym for "Journey Is Mine", folds and unfolds easily, and when folded, it's small enough to fit under a desk. Its elegant and lightweight design, paired with a rechargeable USB-C battery, allows users to charge their devices on the go. Equipped with integrated lights, a Bafang motor with two speeds, and weighing only 18 kg, the JIM is another example of what modern mobility can look like.

Another folding bike is the Afternoon Pro from

Evoolt [Hall 12.0 / C11; F12 / J34].

The "Loop" system with tabs on the hinges allows for easy folding without the need to bend down or lift the bike. Unfolding is also simplified by the self-locking hinges, while the centre stand makes loading easier and keeps the bike in the

Fold&Go position. The bike is powered by a Bafang rear hub motor with 45 Nm of torque and a 360 Wh battery. The setup is completed



Evoolt shows the Afternoon Pro, a modern electric folding bike.

with a Gates belt drive, minimising maintenance concerns. A nice detail: the Afternoon Pro has a space for an AirTag, allowing the bike to be tracked in case of theft.

The previous examples show that weight is a clear characteristic of many compact urban e-bikes.



The Dahon K-Feather weighs just 12 kg and is thus labelled as an ultra-light electric-assist bike.

Folding bike pioneer **Dahon [Hall 9.0 / F06]** takes it even lighter with the K-Feather, which weighs just 12 kg and is thus labelled by Dahon as an ultra-light electric-assist bike. It looks just like an ordinary folding bike but comes with the added feature of electric assistance, challenging traditional perceptions of bikes. With a high-density battery hidden within the main beam tube, coupled with a torque sensor, the K-Feather achieves a 50-kilometre electric-assisted range. The torque of the hub motor eliminates the need for a derailleur, while an internal rotor pushes the limits of size. A smart feature is the concealed controller, which employs a FOC (Field-Oriented Control) drive algorithm and includes functions such as self-check on startup and automatic sleep mode. This ensures a smooth ride with low noise levels and high efficiency.

The Dahon model already shows that smart features are a major topic for modern urban e-bikes. The current state of the art is showcased by tech company **Acer [Hall 9.0 / B06]** with its ebii model. The bike is equipped with several intelligent features that allow the ebii to adapt to the rider's style and preferences, providing a more personalised journey. The AI software ensures that the bike adjusts

to the rider's pedalling power, riding conditions, and preferred level of assistance, learning over time to enhance the personalised experience. Sensors detect and alert the rider to oncoming cars or other objects, preventing collisions. GPS positioning helps owners find their ebii in any

situation. Another feature:

ebii locks itself automatically when it detects the owner's phone is out of range. Additionally, the e-bike battery can be used as a portable charger for a phone or laptop.

Another major topic with compact urban e-bikes is the transport of cargo. Carrying capabilities are demonstrated by **Gio [Hall 12.0 / A05; F12 / J15]** with the Eins+ P-5. The e-bike features a permissible total weight of 180 kg, but also a maximum rider weight of up to 150 kg. It also features two robust luggage racks at the front and rear and high-quality components: the

Ergotec Lvl 6 handlebar, the SR Essenza Heavy Duty saddle, the by.schulz G.2 parallelogram suspension seat post with theft protection, and Marwi folding pedals. Additionally, the bike is equipped with the Gates CDX belt drive, the Bosch Performance Line motor, the Kiox 300 display, and a Bosch PowerPack battery with 800 Wh. The bike comes with a Shimano Nexus 5-speed hub gear, available with either freewheel or coaster brake.

Another compact cargo bike is brought to the market by **Tern [Hall 12.0 / A06; F12 / J22]** with the Quick Haul Long D9. Its motto: "the equivalent

of a family minivan among e-bikes". The bike has enough cargo space to transport kids plus groceries or an entire supply haul from the home improvement store. The robust Bosch Cargo Line motor with 85 Nm makes it easy to transport heavy loads, while a long wheelbase and low centre of gravity ensure that the ride remains stable. The max gross vehicle weight is 190 kg, the rear rack is rated for a load of up to 90 kg and capable of carrying



The Acer ebii is equipped with several intelligent features that allow the bike to adapt to the rider's style and preferences.



At just 16.9 kg, the Skyfly S10 is the lightest e-bike in the i:SY range.



up to two kids or one adult passenger. To prioritise safety, the compact cargo bike is tested to meet and exceed the new German cargo bike standard (DIN 79010).

Velo de Ville [Hall 12.0 / A02; F12 / J26] aims to make cargo transport in the city as compact as possible. The new Loady features a well-thought-out, sleek design and versatile configuration options. The cargo bike rolls on 20-inch wheels, with a permissible total system weight of 180 kg and a luggage rack payload of 60 kg. The Bosch SX system provides the propulsion, and battery capacities range from 400 to 800 Wh. With these features, the Loady offers a safe and straightforward transport solution, especially for families.

The Qlo Eins+ P-5 features a permissible total weight of 180 kg, but also a maximum rider weight of up to 150 kg.

Tern's Quick Haul Long D9 is capable of carrying up to two kids or one adult passenger.



The spacious rear seat with additional footrests ensures that children can ride comfortably and safely. Additionally, specialised child seats can be attached.



The Velo de Ville Loady features a well-thought-out, sleek design and versatile configuration options.

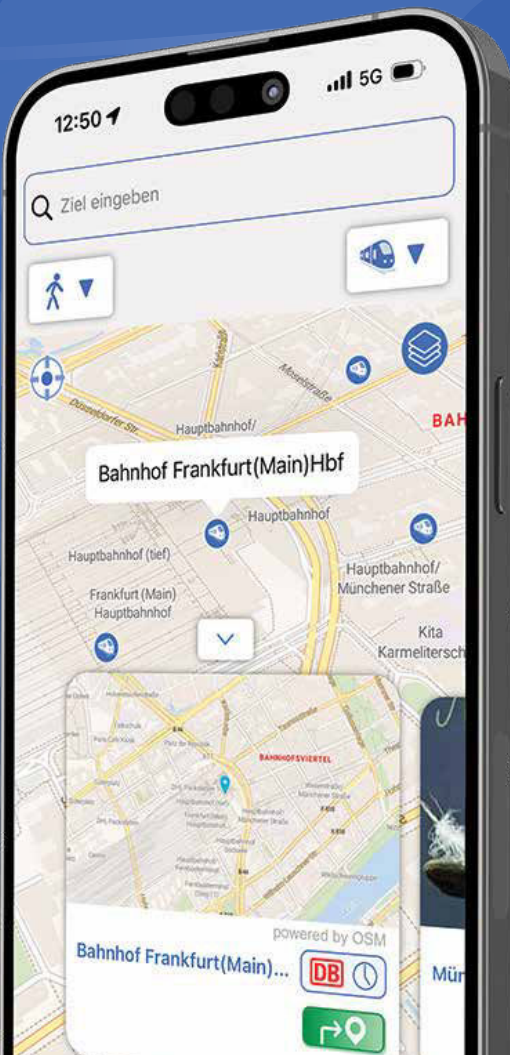
Our market overview concludes with a bike that takes an entirely different approach than the models mentioned above: with the Lil'Buddy Edge, **Ruff Cycles [Hall**



12.0 / B22; F12 / B40] brings the spirit of the 1970s into the present day. Featuring a comfortable bench seat and optional seat boosters, riders from 1.50 to 1.95 meters can ride in style. Power is provided by a Bafang motor with 60 Nm of torque and a 504 Wh battery. The manufacturer offers the iconic bike with numerous accessory options for maximum customisation. **TH**

Ruff's Lil'Buddy Edge brings the spirit of the 1970s to Eurobike.

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OVERVIEW: TRIATHLON & TIME TRIAL BIKES WHEN EVERY SECOND COUNTS

Triathlon and time trial bikes are pushing the boundaries of what's possible in competitive cycling. To meet the escalating expectations of athletes, manufacturers are honing in on marginal gains – small, precise improvements that add up to substantial advantages. We took a closer look at the latest market developments.



Modern time trial bikes are based on extensive research using Computational Fluid Dynamics (CFD) simulations, stiffness-to-weight simulations (FE simulations), and wind tunnel tests.



Dare Bikes is a bicycle company from Taiwan, known for their well-engineered triathlon bike TSRf Unruly Blue.



Van Rysel's XCR has gained a lot of attention at recent bicycle events.



Canyon recently released this updated version of the Speedmax CF.

wonders – optimised perfectly to deliver marginal gains in the race against the wind. This is also evident in an overview of the current top models from various manufacturers.

One of the most well-known manufacturers in the triathlon and professional cycling world is the German company Canyon. The time trial machines from the Koblenz-based firm have made a name for themselves in recent years with numerous victories, particularly at Ironman events, where Canyon is considered one of the most successful brands of our time. One of the bikes in the recently updated Canyon line-up is the Speedmax CF. The latest version features the new Canyon CP0041 cockpit and now includes fully integrated cables and brake lines. Interestingly, the cockpit is compatible with a specially designed water reservoir with a capacity of 750 ml, which fits perfectly into the aerodynamic frame shape of the Speedmax CF. A magnetically attached drinking hose to the cockpit ensures water supply at any time without changing position or sacrificing aerodynamics. The Speedmax CF comes in two variants, with the top version equipped with the SRAM Rival AXS groupset with an integrated power meter and the wireless SRAM Vuka Shift AXS shifting system for aero bars.

Also from Germany comes the Aerium C:68X from Cube. This time trial bike features sophisticated details for the racetrack, such as storage solutions for energy bars and water. It is also equipped with integrated disc brakes. Thanks to a supplied fitting set with numerous spacers and bracket options, athletes can adjust their seating position with millimetre precision. Additionally, the

setup includes various aerodynamic details such as fully integrated cables and wires, a derailleur cover, and the specific Twin Head Tube, which optimises air resistance at high speeds and improves steering stability in crosswinds.

Bringing high-end aerodynamics to Eurobike is the Taiwanese manufacturer Merida [Hall 12.0 / A14+A15+B24; F12 / J21+J32]. The Time Warp is not a new model but is now considered a classic, as it remains the time trial bike for the WorldTeam Bahrain Victorious in 2024. There is also a special version for triathletes, the Time Warp Tri. The bike features a high-end carbon frame, slip-streamed disc brake integration, and additional incorporated storage capacity.

Another Taiwanese maker at Eurobike with a triathlon bike in their line-up is Dare Bikes [Hall 11.1 / D33] with their model TSRf Unruly Blue. The developers have placed particular emphasis on the integration of disc brakes and the design of the cockpit. The aerobar extensions have an adjustment range of 20 degrees, and the armrests are now more spacious and comfortable than those of the predecessor. The TSRf is also available in custom colours in addition to the standard colour.

Swiss manufacturer BMC recently updated its triathlon bike. The all-new Speedmachine is based on a five-year research project in collaboration with Red Bull Advanced Technologies. This development work results in a 500-gram weight reduction compared to the previous model, Timemachine 01 Disc. A unique feature of the bike is the integrated hydration unit, which aids handling and aerodynamics, positioned low above the bottom bracket junction, with internal, easy-to-clean hydration tube routing, allowing the rider to stay in position and aero. The hydration bottle comes in two sizes, with an easily removable 1.2l reservoir, leaving the UCI-compliant 400ml tank in place and accessible while tucked. Triathletes will benefit from the built-in rear storage and light, both positioned behind the seat tube and integrated and designed with aerodynamics in mind. With a broader range of options between base bars, extensions, and stack, athletes can remain in their preferred aero position for longer, and this added stability also provides the opportunity to ride deeper section wheels.

Another Eurobike exhibitor with aerodynamic ambitions is Van Rysel, the performance brand of Decathlon [F12 / G26]. In line with the current state of the art, their XCR model is based on extensive research using Computational Fluid Dynamics (CFD) simulations, stiffness-to-weight simulations (FE simulations), and wind tunnel tests. The development also involved Swiss aero specialists from Swiss Side. Furthermore, according to initial appearances at recent bike shows like Velofollies in Belgium, Van Rysel's first time trial bike is also equipped with Swiss Side wheels. ■ TH



The Aerium C:68X is the current top model from German company Cube.



The Merida Time Warp has been in the WorldTour for several years already.

THE ITALIAN BICYCLE MARKET

“MADE IN ITALY” SEES FIRST SIGNS OF RECOVERY

Like many global markets, the bicycle market in Italy, renowned for its high-end craftsmanship and rich cycling heritage, is currently at a crossroads. We asked several experts from the Italian bicycle industry about their opinions on the market's current state.



Photo credit: FSA/Sprint Cycling Agency



Stefano Migliorini, CEO of Thok



Daniele Carli from the PR agency Vitamina C



Alberto Curtolo, Sales and Marketing Director at Selle Italia



Fabio Guerini, Sales and Marketing Specialist at Deda Elementi



Full Speed Ahead's Claudio Marra

Together with the Tour de France, the Giro d'Italia is the largest and most famous cycling event in the world. This year, the three-week-long stage race once again captivated the sports world. However, the Giro 2024 provided a stage not only for the best cyclists in the peloton but also for the Italian bicycle industry. On the evening of the first stage, the Giro organizers from RCS Sport hosted a Bike Business Forum – an event that turned the spotlight on the bike economy, the Italian bicycle supply chain, and its spin-offs in the world of sport. Among the guests were several major names from the bicycle industry, including Nicola Rosin (CEO of **Colnago**), Cristiano De Rosa (Vice President of Italy's bicycle industry association **ANCMA**) or Steve Smith (Head of **Cycling at Manifattura Valcismon**). The general sentiment of the event: despite the current difficult market conditions, there are early signs of recovery in the Italian bicycle market.

This is good news, as a glance at the current market developments shows that even Italy, one of the most traditional cycling countries in the world, suffers from global challenges similar to those of other major bicycle markets. According to the newest market data of **ANCMA**, 2023 saw a decline in mechanical bicycle sales by 24% and a decline in e-bike sales by 19%. As a result, the statisticians recorded a 23% year-on-year decrease in total sales volume. Local manufacturers recorded similar numbers: the production of traditional e-bikes declined by 23%, and

the number of conventional bicycles decreased by 29%.

“The Italian bike industry is facing the same challenges as the rest of the world: an overabundance of products on the market, big brands offering deep discounts directly to consumers, leading to high dealer inventories, and consumers accustomed to asking for discounts before even inquiring about the price of a bike,” confirms Stefano Migliorini, CEO of **Thok [Hall 12.0 / C20]**. However, despite these challenges, he also shares a positive side to the story – similar to the guests at the Bike Business Forum during the Giro d'Italia. “The market is alive and well, and people are buying and using bikes. The challenge for us is not to give in to the policy of discounts, which depreciates the product, makes the brand less credible, and hurts the whole industry,” he continues, adding that the first few months of 2024 show tentative signs of market recovery. “We're confident in a gradual return to normalcy by September,” Migliorini states.

Daniele Carli from the PR agency **Vitamina C** makes similar observations: “The Italian market is still suffering from the consequences of the COVID-19 years, worsened by national issues concerning incentive policies, infrastructure, and the difficulties of the local economy,” he explains, predicting that “growth should return by 2025.” Carli's longer-term forecast is very optimistic: “Some of Italy's weaknesses, such as being a still immature market for two-wheeler mobility, could be a positive starting

point: sooner or later, we will reach the standards of the countries above the Alps, and I don't think this future is far off. Maybe we will never become the Netherlands regarding bike use, but I believe we will one day be similar to Germany. This would mean doubling the size of the national market, given that in 2023 in Germany there was one bike sold for every 21 inhabitants, while in Italy one bike was sold for every 45.”

Interestingly, while the fundamental challenges in the Italian market are similar to those in other European countries, some companies report that the unique characteristics of the local cycling scene are helping them fare better through the crisis than other countries. “Since most of the business in Italy is in the high-end segment, things are more stable compared to other countries,” says Alberto Curtolo, Sales and Marketing Director at **Selle Italia**. He specifically cites the road bike and gravel bike markets as growth drivers, as well as e-bikes. “The first months of 2024 have been positive, so we are on the way to establishing a positive result at the end of the year,” he adds. “The medium-high range products are going well, largely due to the steady demand for racing bikes and the growing popularity of gravel bikes,” confirms Fabio Guerini, Marketing and Sales Specialist at **Deda Elementi [Hall 11.1 / B45]**. He also forecasts a near-term recovery: “In the first four months of this year, Deda experienced a 10% growth compared to 2023 – a trend that is also reflected in the sell-

out data from stores in Italy. We believe the bike sector in Italy will experience a substantial recovery in the second half of 2024, with further consolidation in 2025, primarily driven by the gravel bike market,” he reports.

Claudio Marra, Global Vice President at **Full Speed Ahead [Hall 12.0 / B09]**, also sees positive signs that the crisis may soon be over: “At the moment, things are looking good. Despite the less-than-perfect weather, sell-out in shops has been strong, and the forecast remains positive. Sales of road and gravel bikes, particularly high-end models, are doing very well. We're also seeing a significant volume of high-end spare parts as end users look to upgrade their bikes. We expect a notable increase in sales compared to 2023, possibly even matching the 2022 season,” he says.

A retail perspective is provided by Erik Miorini, Mechanic at the shop **Bike Map**. He anticipates that the positive signals will be delayed in reaching the retail sector: “The general mood of the market is a bit worrying, with brands having tons of bikes in stock and lowering the MSRP during the high season. My expectation is that 2025 will be very hard, particularly concerning pre-orders. Nevertheless, the last six to seven months have been good for us in terms of sales and mechanic services. However, it's still too early to make a more accurate prognosis,” is his assessment.

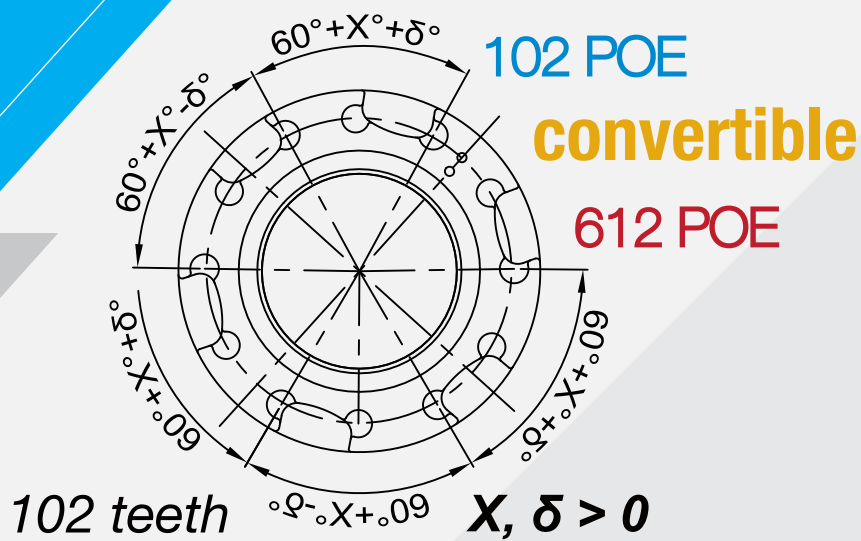
Our survey among various experts from the Italian bicycle industry shows that the Italian bicycle market is navigating a challenging landscape marked by high inventory levels and pricing pressures. However, there are positive indicators, especially in the high-end road and gravel bike segments, which continue to drive demand. In general, industry experts are optimistic, anticipating a gradual market rebound in the upcoming months. The recent Bike Business Forum held during the Giro d'Italia underscored this sentiment: while challenges persist, the resilience and innovation within the Italian bicycle industry offer a promising path forward. ■ **WMS**

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OVERVIEW: SPEED PEDELECS AT EUROBIKE

FAST E-BIKE SALES SPEEDING UP

Speed pedelecs are rapidly emerging as a game-changer in urban transportation. To cater to this growing trend, more and more manufacturers are wheeling out models that accelerate their riders up to 45 km/h. We took a closer look at the latest developments in the market and what's on display at this year's Eurobike.



S-Pedelecs are one of the few categories that are enjoying sales growth, despite the market's downturn.



The Stromer ST5 Pinion is a fast e-bike equipped with the electronic Pinion Smart Shift transmission.

Whether in Belgium, Switzerland, or even Germany, which is relatively conservative regarding speed pedelecs – fast e-bikes with assistance up to 45 km/h are one of the few bicycle categories that are experiencing growth in many markets, even during the continuing downturn in the bicycle industry. This development is not a coincidence. Thanks to improving technology, more efficient drive units, and integrated designs, speed pedelecs are just as sleek and refined as classic e-bikes. Commuters, in particular, appreciate the significantly higher speed of these fast electric bicycles, along with the increased comfort and time savings. The growing importance of the S-Pedelec category is also evident at this year's Eurobike, as demonstrated by the numerous speed pedelecs displayed in the Frankfurt exhibition halls.

We begin our tour of the trade fair with **Riese & Müller [Hall 8.0 / E28; Hall 12.0 / A17; F12 / J25]**. The German manufacturer is presenting the Delite5, a completely newly developed e-bike featuring an innovative frame concept that is multidrive-compatible.

Specifically, this means that the same frame can be equipped with different motors and batteries. The heart of the Delite5 at launch is the Pinion Motor Gearbox Unit (MGU), with more options to follow, according to the manufacturer. Interestingly the frame is entirely manufactured in Portugal and consists of over 30% ASI-certified aluminium. Also noteworthy: when



The new Riese & Müller Delite5 features an innovative frame concept that is multidrive-compatible.

purchased, connectivity, GPS tracking, and insurance coverage are included for one year. The Delite5 with Pinion MGU is available both as a classic and a high-speed bike.



Opium expands its product line-up with the new S-Series LR, featuring a record range of up to 300 kilometres.

Like Riese & Müller, **Stromer [Hall 12.0 / A13]** has been a major player in the world of speed pedelecs for years. Among the models on display at the booth of the Swiss company is the ST5 Pinion, a fast e-bike equipped with the electronic Pinion Smart Shift transmission. The 9-speed Pinion gearbox with a carbon belt is not only durable and low-maintenance but also enables commuters to achieve a higher range due to reduced friction loss. The result is a



Bulls celebrates the official market introduction of the Vuca EVO Speed FSX 1.



Flyer's Upstreet TR:CF features a carbon frame combined with the Pinion Motor Gearbox Unit.

range of up to 180km. An integrated sound module emits acoustic signals for intuitive use and safety, and an extended mudguard keeps road spray at bay during wet weather rides.

Another Swiss player in the S-pedelec world is **Opium [Hall 12.0 / C03]**, introducing its new S-Series LR. The bike is equipped with a 1600 Wh battery and a 535 Wh range extender, which, according to the manufacturer, allows for a range of up to 300 kilometres. The ergonomic cockpit is elegantly designed, offering a clean look and adjustable features. Connectivity is provided by the FIT 2.0 e-bike system. Twelve colour variants allow customers to personalize their bike. For added security, an It's My Bike GPS tracker with a three-year subscription is included.

Still in Switzerland, **Flyer [Hall 12.0 / A09]** is introducing the Upstreet TR:CF as an s-pedelec variant. It features a carbon frame combined with the Pinion Motor Gearbox Unit, which, together with the other drive components, promises 10,000 kilometres of maintenance-free operation. A light with a wide beam ensures visibility and safety at night. A design highlight is the cockpit, which scores points for its clean look.

Adding variety to the Swiss dominance in the S-pedelec market is the company **Bulls [Hall 11.0 / A05]**. At the booth of the

German manufacturer, you can see the Vuca EVO Speed FSX 1, another speed pedelec equipped with Pinion's Motor Gearbox Unit. Although the e-bike, which supports speeds of up to 45 km/h, was teased at last year's Eurobike, this year's event marks its official market launch. The bike is available with either a 720 Wh or a 960 Wh battery. It also features a belt drive. According to the manufacturer, special emphasis has been placed on stiffness and steering precision in the head tube area.

A speed pedelec from Belgium is the **Ellio Max [F11 / E12]**. It features Ellio's proprietary drive technology with two electric motors and a planetary gear system. It also comes with 27.5-inch wheels, an automatic shifting system, and the low-maintenance Gates Carbon Drive CDX belt. The total load capacity is 160 kg (including the rider). The luggage rack can carry up to 25 kg.

While most companies in the speed pedelec sector focus on commuter models, the French brand **LMX Bikes [F11 / A09]** takes a different approach. The LMX 56 is a blend of an e-bike and an electric motorcycle. Its motto: "e-bike agility, motorcycle freedom". Among other features, the bike includes a throttle on the handlebars that allows riders to accelerate at any time during a technical passage. Besides the off-road setup, the standout feature is the powerful motor of up to 2,500 W, which can deliver 175 Nm of torque. **TH**



The LMX 56 is a blend of an e-bike and an electric motorcycle.

PERFORMANCE RIM

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R301-C30CL RACE DISC

<i>Rim Material</i>	Carbon Fiber , High Toughness Resin System
<i>Rim Construction</i>	Clincher , Tubeless Ready
<i>Rim Size</i>	700c
<i>Rim Width</i>	Internal 22mm External 29 mm
<i>Rim Depth</i>	30 mm
<i>Rim Weight</i>	392g (24H)
<i>Hole Count</i>	24
<i>Tire Pressure</i>	110 psi
<i>Wheel weight</i>	(F)682g



NEW PROCESS

G301-C30HL GRAVEL DISC

<i>Rim Material</i>	Carbon Fiber , High Toughness Resin System
<i>Rim Construction</i>	Hookless , Tubeless Ready
<i>Rim Size</i>	700c
<i>Rim Width</i>	Internal 23 mm / External 29 mm
<i>Rim Depth</i>	30 mm
<i>Rim Weight</i>	411g (24H)
<i>Hole Count</i>	24 / 28
<i>Tire Pressure</i>	75 psi
<i>Wheel weight</i>	(R)784g



M601-C36HL AM

<i>Rim Material</i>	Carbon Fiber , High Toughness Resin System
<i>Rim Construction</i>	Hookless , Tubeless Ready
<i>Rim Size</i>	29"
<i>Rim Width</i>	Internal 30 mm / External 36 mm
<i>Rim Depth</i>	26 mm
<i>Rim Weight</i>	445g (32H)
<i>Hole Count</i>	28 / 32
<i>Tire Pressure</i>	50 psi
<i>Wheel weight</i>	(F)727g



Booth No. Hall 9.0 E22



ROAD & GRAVEL TYRES AT EUROBIKE

GRAVEL GETS FASTER, GREENER, AND MORE VERSATILE

For a number of years gravel riding has been an obvious focus for brands looking to expand their range into new markets. The number of new gravel tyres is still growing, but there's also a big emphasis on performance this year, with new rubber appearing at the top of a number of brands' road ranges.



The Goodyear Vector R Fitment Series is designed to work with Zipp wheels

The fastest ever tyre made by **Hutchinson [11.1 / B06]** will be on show at Eurobike: the Blackbird, which features a new Mach Tread 3.0 Compound and SwiftEasy casing technologies, boasts a 10% improvement in rolling efficiency over the previous generation of Hutchinson tyres.

Central to the reduction in rolling resistance is Hutchinson's new SwiftEasy casing design. This new construction sees the tyre casing bonded directly to a central polyamide puncture protection

strip, with a final layer of casing running from bead to bead to reduce air leakage. The SwiftEasy casing ensures a much more flexible point of contact, reducing rolling resistance and enhancing comfort while reducing weight due to the use of just two layers of 127TPI casing; the 28mm Blackbird weighs in at a competitive 290g. The Mach Tread 3.0 is a completely new formulation with incredibly low rolling resistance and high rebound that gives an increase in energy return of 25% when it comes into contact with the road. The Blackbird has been specifically designed around modern, wider rims, with a tread surface that is 15% wider than previous generation tyres.

Also new to Hutchinson is the Caracal Gravel range, which includes the 475g Caracal Race, a tyre that Hutchinson is claiming as "the fastest gravel tyre on the market". The range consists of two tyres – The Caracal and the Caracal Race – which both feature the same tread design but with different constructions. Designed in conjunction with some of the world's leading gravel athletes and teams, the Caracal Race again uses Hutchinson's SwiftEasy casing technology and the high-performance Mach Tread 3.0 compound. The Caracal takes the same fast rolling tread pattern as the Race, but matches it with a traditional casing design. Both tyres are available exclusively in a 700x40mm size, in both Tan Wall and Black colour options.

The new P ZERO RACE TLR RS (Racing Speed) from **Pirelli [11.1 / C10]** is the company's best performing road cycling tyre. The Lidl-Trek



The Pirelli P ZERO RACE TLR RS is made in Italy at Pirelli's Milan-Bollate facility

men's and women's teams have been using the tyre since the start of the 2024 season, picking up over 70 podium places along the way, but the tyre officially broke cover at the Giro d'Italia in May, where Lidl-Trek picked up a stage victory. Joint tests took place during development between the team of Pirelli testers and the Lidl-Trek athletes, riding downhill on Mount Etna in Sicily and through the Arenberg Forest in France.

The P ZERO range of tyres has been steadily growing, and the Race tyres are made in Italy at Pirelli's Milan-Bollate facility. Because everything from concept to production can be handled in-house, Pirelli is able to move rapidly on new designs: the P ZERO RACE TLR RS was only six months in development. It uses a lighter version of Pirelli's patented SpeedCORE casing technology: the tread thickness and

internal structure have been modified to reduce the weight and contribute, together with the compound, to significantly reducing rolling resistance. Pirelli claims an 8% weight reduction and a 16% rolling resistance reduction over the standard P ZERO RACE TLR. The tyre is available in 26mm, 28mm, 30mm and 32mm widths.

Also at the ultra-high-performance end of the road cycling spectrum, **Goodyear [12.1 / A25]** believes that there are gains to be made when considering the tyre as part of a specific system, rather than independently. That's the thinking behind the new Vector R Fitment Series tyres, which have been developed in collaboration with SRAM over a two-year period looking at the wheel and tire as a system, in the quest for raw speed.

The Vector R Fitment Series range is headed up by the Vector R Z30 NSW, a large volume, lightweight 30mm road tire designed for long distance riding across varying conditions and engineered to perfectly complement Zipp's 353 NSW wheels. The Vector R Z30 & Z35 SW tyres are designed for long distance riding with increased puncture protection and tread life and are optimized around Zipp's 303 family of wheels. All of the tyres are engineered to work perfectly and with Zipp's hookless bead rims, and size up correctly when fitted. They use a short-ply construction in the casing to reduce overall material, resulting in a lighter, more supple tire, and an R:Shield anti-puncture breaker belt. The road-specific Dynamic:UHP compound has been developed to further reduce rolling resistance while improving grip across a wider range of conditions.

The new 28mm Endurance

Tufo has designed a sealant to work with its Endurance 7TR tyre

The Blackbird uses Hutchinson's new SwiftEasy casing design



Hutchinson claims the Caracal Race is the fastest gravel tyre on the market





The Tufo Gravel Thundero comes in four sizes from 36mm to 48mm



Vee's three-tyre gravel range covers all riding conditions

The Aventura Grezzo is at the other end of the scale. The tyre is designed for tougher trails and more muddy conditions, with a tread pattern that's more extreme to give you the grip and confidence you need during your ride. The larger 44mm and 50mm carcass sizes reflect the fact that the Grezzo is likely to see much tougher conditions. Both tyres are available in black/black or black/tanwall options.

Hartex [9.1 / D27] is showcasing its new X-GRIT gravel tyre at the show. The tyre features an all-purpose tread for mixed-surface riding, and is available as a tubeless tyre with a 60TPI casing in 700x45c and 700x38c sizes. If you're after a more do-it-all build for general riding then the X-GRIT also comes as a tube-type tyre, with a 30TPI casing, reflective sidewall detailing and a 3mm or 5mm anti-puncture strip below the tread. Black and tanwall options will also be available.

The new gravel range from **Vee [12.1 / A03B]** has been designed from the ground up with the needs of modern day gravel riders in mind. "Whether you prefer smooth gravel roads or wilderness single-tracks", it says, "we got you covered!"

Vee has three different tread patterns available to match all styles of riding and types of terrain. Designed for both road and gravel riding, the QUICK-STYK offers fast rolling performance. Its sleek profile ensures a smooth ride on asphalt while providing enough grip for confident handling on gravel paths. The TAISTYK is engineered for hard-packed trails, delivering maximum grip in dry conditions. Its aggressive tread design ensures excellent traction and control. The RAIL FRENZY is built for mixed terrain and performs exceptionally well

The Vredestein Aventura Grezzo is perfect for muddy conditions

The Aventura Seta from Vredestein features a quick-rolling solid centre tread



The X-GRIT from Hartex comes in tubeless and tube-type builds

in wet conditions. Its adaptive tread pattern provides consistent grip across diverse surfaces, from loose gravel to muddy trails, and offers dependable performance, rain or shine.

The Marathon name from **Schwalbe [12.1 / A22]** is a byword for long-distance durability, and 15 years after the launch of the first model the range is augmented with the new Marathon Mondial, which promises durability and performance in a modern look. The reliability and performance that are key to the Marathon name continue in the Marathon Mondial: Double Defense technology offers maximum puncture protection, and the V-Guard protects against cuts in the sidewall and through the tread. Reflective sidewalls help to increase visibility.

The tread design, which borrows elements from mountain biking, is a modern update, and the Marathon Mondial also uses the newer ADDIX compound which offers the best balance between durability and performance. The Marathon Mondial is designed to be as versatile as possible: on world tours, it has to work everywhere: on all continents, on all surfaces.

Bicycle tyres are notoriously hard to recycle thanks to the complex nature of their construction. One way to reduce their overall impact is to use recycled materials in their construction, and that's exactly what **Innova [9.1 / A37]** is doing with the new Glide road tyre: the 120TPI casing incorporates recycled fishing nets in its construction. The tyre has an anti-puncture Kevlar belt, and a high grip silica compound rubber used in the tread for good all-round performance. Tubeless and tube-type options are available, and the tyre is available in 25mm, 28mm and 30mm widths.

As well as the Glide, Innova is also showcasing the Stampede tyre, which is available in three sizes: 700x40x, 700x45x and 700x50c. Predominantly a gravel tyre, the Stampede also works well as a multi-surface tyre thanks to its high-density centre tread pattern.

Convex knobs on the shoulder offer better grip when cornering.

Many cyclists are now choosing to run their wheels set up tubeless, and **Tannus [12.1 / C05]** has developed its tubeless insert system to increase puncture resistance and improve the tyre's ability to adapt to various types of terrain, ensuring optimal traction and greater stability. The insert helps maintain the shape of the tyre even in low pressure



The Innova Stampede works well on gravel or tarmac



The Innova Glide incorporates recycled fishing nets in its construction

conditions, avoiding the risk of "burping" (sudden air loss). The Tannus insert is also the first modular insert system: there are two separate inserts, Lite and Pro, which can be combined to form the Fusion insert.

The Lite insert is ideal for racing, CX and gravel bikes. It allows you to protect the rim and cushion impacts and vibrations, and thanks to the weight of only 45 grams it's ideal for road cyclists who want to take advantage of its run-flat capacity. The Lite versions are available for 27.5" and 700" wheels with internal channel widths from 19 to 25 mm and with tires with a minimum width of 28mm and a maximum width of 45mm. Including up to 20% recycled material from Tannus airless tyres, the Aither 1.1 compound used in the inserts is designed to completely avoid the absorption of Tubeless latex, and does not increase weight in the months following assembly. Puncture protection is improved, especially for pinch flats, and the inserts also help to prevent rim damage when running lower pressures for improved comfort and grip. ■ **DA**



The Marathon Mondial from Schwalbe is a versatile touring tyre

The Lite insert from Tannus is ideal for racing, CX and gravel bikes



THE SCANDINAVIAN BICYCLE MARKET BETWEEN E-BIKE BOOM AND ECONOMIC WINTER

The Scandinavian countries are generally not considered hotspots for the global bicycle industry. Nevertheless, a lot has happened in recent years. We took a closer look at current developments in Denmark, Finland, Norway, and Sweden.



particularly the long and harsh winters in the North, can impact cycling during certain months, affecting overall usage and sales."

Finland: Lower Quantities, Same Revenue

According to an analysis by Statista Market Insights, the bicycle market in Finland has been experiencing steady growth in recent years. Nevertheless, the impact of the crisis is also evident here: after 373,200 bicycles were sold in 2021, this number dropped to 339,000 units in 2022 and 323,800 units in 2023. However, the data also suggests that an increase in e-bike sales compensates for declining quantities, as revenue has remained constant between 200 and 208 million US dollars since 2021. Timo Hyppönen, Founder of **Pelago [F12 / G20]**, assesses the situation as follows: "There's still excess inventory, which will take another year to level down, but apart from that, it has been quite steady. The general mood is quite positive," he says. Tina Gäddnäs, Key Account Manager at **Herrmans [Hall 12.1 / A06]**, sees the situation similarly: "The shops have started to sell bikes again, and the stock levels are beginning to decrease. The challenging aspect is still the troubled world we live in, with inflation and wars affecting our purchasing behaviour." He also adds that "increased focus on sustainability and active lifestyles has led to an increased demand for electric bicycles. We will most likely see growth in the commuting and rental sectors in the future."

Denmark: Strong Decline in Numbers

In Denmark, sales have also declined significantly. After the record year of 2021, with 590,000 bicycles sold, 520,000 were sold in 2022, and 490,000 in 2023. Like Finland, revenues have remained stable here, most likely due to higher average selling prices and e-bike sales. Nevertheless, the Danish market likely faces greater saturation than other markets, as bicycles have been a popular mode of transport for many years. Jesper Lundqvist, CEO of Danish company **Promovec [Hall 8.0 / I20]**, assesses the situation: "We see things from the producer side, but from what we hear from our customers, the first four months of this year have been tough. However, during May, things have started to improve. In general, distributors are reluctant to purchase due to the financial situation in the market and the high stock that many have post-COVID. At the same time, there is tough price competition as distributors need to clear old stock," he says. His forecast for the future is: "We expect that over the coming years, the market will return to the level of 2019/2020, and from then on, we will see a more natural and steady growth at around 5-10% and not as fierce as during the COVID-19 period." ■ **WMS**



Norway's Retyre are known for their sustainable bicycle tyres.

'The most bike-friendly city in the world' – for many years this title has been held by Copenhagen, the Danish capital. According to recent data from the city administration, Copenhageners cycle an estimated 1.44 million kilometres daily. 49% of all trips to work or school in Copenhagen are by bike, up from 35% just ten years ago. This recent rise in cycling over the past decade results from continued municipal investment. With its significant ambitions for cycling, Copenhagen leads numerous Scandinavian cities that have increasingly prioritised cycling in recent years. With their 2015-2025 Bicycle Plan plotting a course to redefine urban planning approaches in the city, the Norwegian capital Oslo has lately shown impressive political commitment to cycling. Last year, the Swedish capital, Stockholm, published a strategy paper titled "The Road to Becoming a Cycling City." And Finland's capital, Helsinki, has also set its sights on increasing bicycle modal

share, aiming to become the world's best metropolis of sustainable transport. This apparent political commitment to cycling inevitably also brings attention to the development of the bicycle markets in these countries. A market overview, however, shows that despite the great ambitions, not everything in Scandinavia is easy.

Sweden: Commuting Drives E-Bike Sales

We begin our market overview with Sweden. The industry association Cykelbranschen has recorded a decline in sales of traditional bicycles from 339,000 (2022) to 250,000 units (2023). In contrast, e-bike sales have increased from 94,000 to 100,000 units. There are two reasons for the Swedish e-bike boom: Firstly, more and more Swedes are opting for e-bikes as a commuting alternative due to traditionally high levels of environmental awareness. Secondly, bike leasing provides

favourable conditions for buyers. "The benefit of 'Förmånscykel' – a type of lease contract – has changed the market. Many bikes are bought through this initiative," confirms Anna Örabäck, Scandinavian Country Manager at **POC**. Nevertheless, there are also challenges, she adds: "The recent economic crisis has had a big influence on the market. But there's a careful optimism within the bike business," she says. Marcus Lindgren, PR Director at **MIPS [Hall 11.1 / B14]**, reports similarly: "2024 will still be impacted by tough market conditions with consumers that are challenged by other costs. I believe that commuting will continue to increase, same with the demand for e-bikes," he says.

Norway: Decrease in Bicycle Sales

In Norway, the situation is different from Sweden. The bicycle industry there experienced a significant decline after the pandemic, as shown in the Norwegian Sports Industry Association numbers. Their data estimate bike sales in 2023 at 275,000 units, compared to 310,000 units sold in 2022. The sales of electric bicycles have also slowed significantly, according to statisticians. However, a conversation with Trym Fagerhaug, Global Event Manager at the Norwegian tyre manufacturer **Retyre [Hall 12.1 / D21]**, shows that the general market sentiment is optimistic: "Continued government support and further planned investments in cycling infrastructure are expected to drive further growth and increased popularity. As environmental awareness continues to rise among the population, bicycles will likely remain a preferred mode of transport in the future," he says, but also acknowledges that there are challenges. "Seasonal variations,

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THE RACE FOR MORE ECO-FRIENDLY TYRES

TYRES GO GREEN: RECYCLED NETS AND BIO-BASED MATERIALS

Among the many environmental challenges within the bicycle industry, rubber waste from old tyres is one of most pressing. As sustainability ambitions continue to grow, an increasing number of tyre manufacturers are striving to reduce their ecological footprint.



Imagine a mountain of 1.8 billion discarded tyres. This is the amount of tyre waste that ends up in landfills every year – with drastic impacts on the environment. End-of-life tyres (ELTs) pose significant recycling challenges due to their complex composition. They are not biodegradable, meaning tyres do not decompose naturally. And they can cause fire hazards and release toxic chemicals as they break down. Issues like these illustrate why the tyre industry has been particularly in the spotlight recently as societal awareness of sustainability has grown. This also applies to the bicycle tyre sector. While the contribution of bicycle tyre manufacturers to these problems may be minimal due to much lower production volumes, the pressure on producers has nevertheless increased considerably. Therefore, it is no surprise that the ambitions among tyre manufacturers in the cycling world to become more sustainable have significantly increased.

“When we first introduced our eco-friendly technologies, we were pioneers. There were hardly any alternatives from other manufacturers. Today, the landscape has transformed for the better,” says Felix Jahn, Head of Corporate Social Responsibility at **Schwalbe [Hall 12.1 / A22]**. As early as 2012, the German manufacturer showed its first ambitions with GreenGuard, a puncture protection made from latex and recycled rubber. Today, the company is considered one of the leading brands in bicycle tyre sustainability. “Access to sustainable raw materials has become much easier for manufacturers, and sustainability

topics have gained momentum. Many brands are increasingly focusing on developing eco-friendly products. These developments show that our industry is on the right track, although much work still lies ahead,” Jahn continues.

More Sustainable Materials

A look at the current developments in the market confirms this statement. Over the past few years, several companies have made waves with sustainable innovations at various industry trade shows and awards. Schwalbe itself won the Green Award at last year’s Eurobike with the Green Marathon, the first tyre with a closed product lifecycle. In 2020, German manufacturer **Continental [Hall 12.1 / C16]** won the German Sustainability Award for its project to produce bicycle tyres from dandelions. At Taipei Cycle Show 2023, Taiwanese manufacturer **Maxxis [Hall 12.1 / C19]** caused a stir by showcasing a tyre partially made from recycled fishing nets. And at this year’s Taipei show, Italian brand **Vittoria** made headlines by winning the Gold Award Green Prize at the d&i Awards for their Terreno Pro T60 Mixed, a tyre that contains 92% renewable and recycled materials.

These examples demonstrate that the most significant sustainability initiatives in bicycle tyres are currently focused on materials. In this context, one manufacturer especially stands out in the supply chain: Taiwanese company **Formosa Taffeta [Hall 9.2 / D29]**. With its launch of Seawastex material, they have sparked a sustainability wave in the industry. “The sustainable fabric is produced using

100% recycled discarded fishing nets which are collected, recycled into nylon granulate, and then processed into high-quality nylon threads. Those nylon threads are then the base for our tyre cord,” explains Edward Lung, Sales & Marketing Representative. Companies such as Maxxis, Schwalbe, Vittoria, and Taiwanese manufacturer **Kenda [Hall 12.1 / A02]** have already incorporated the material, although currently only in parts of their range.

“The major challenges in making bicycle tyres more sustainable stem from limitations in materials and production machinery,” comments Cecilie Bøckmann Olsen, Marketing Manager at **reTyre [Hall 12.1 / D21]**, another company currently making waves with its sustainability ambitions. “Current machinery is designed for vulcanizing rubber, restricting manufacturers to materials with high emissions that are difficult to manage sustainably. Green alternatives like natural rubber aren’t available at the necessary scale or economic feasibility,” she adds. The Norwegian company’s exciting solution: reTyre manufactures tyres from reusable bio-based materials. “Our new machinery allows us to use a wide range of sustainably sourced materials, be it bio-based, biodegradable, or recovered. We also choose materials that are easily reusable at scale and attractive for cross-industry collaboration, enabling us to close the material loop effectively,” she adds.

Many Challenges

With her statement, Bøckmann Olsen hints that the race for greener bicycle tyres, despite early successes, still holds numerous challenges for



Schwalbe has been making bicycle tyres more sustainable for over a decade.



Continental is working on incorporating more sustainable materials and making factories carbon-neutral.



Maxxis has been gaining attention for using nylon threads made from recycled fishing nets in their tyres.



Vittoria’s Terreno Pro T60 Mixed contains 92% renewable and recycled materials.



Formosa Taffeta's Seawastex is used by more and more tyre companies.



reTyre is a Norwegian company that produces tyres with reusable bio-based materials.

companies. "These challenges are diverse," explains Felix Jahn from Schwalbe. "A single tyre consists of many materials and raw materials, has a complex supply chain, and energy-intensive manufacturing processes. Additionally, it should be as repairable as possible and recyclable at the end of its life. Most importantly, however, an eco-friendly tyre must offer the same quality, performance, and durability as a conventional product. To make a tyre truly more environmentally friendly, we as manufacturers need to make adjustments across all areas," he explains. For example, he cites the recently initiated collaboration with a rubber supply source in Sumatra that aims to make Schwalbe's supply chain more fair and

sustainable. "Unfortunately, some essential raw materials in tyres cannot yet be sourced from recycled or renewable sources. Solving this problem is one of our core tasks," says Jahn.

"At the moment, challenges to overcome when manufacturing bike tyres include finding enough material for mass production, maintaining performance characteristics while using sustainable materials, and ensuring that we don't increase our carbon footprint during the manufacturing process," confirms Eric Yang, Vice President of Product Development at Kenda. Therefore, the company is working on various projects simultaneously, as Yang reports: "From a product standpoint, we are developing products that use more sustainable materials such as soybean oil. We are also trying to develop products that last longer to reduce waste. Additionally, we have implemented several carbon-reducing activities in our factories, such as installing solar panels or water filtration systems."

Continental also points to bottlenecks on the road to more sustainable bicycle tyres. "For example, the local availability of alternative materials with comparable performance to current materials. Targeting different materials with their specific properties and interactions is a complex balancing act for our engineers and materials experts. We can only create safe, energy-efficient, durable, high-performance tyres when all the materials are optimally matched," says Oliver Vauth, Product Manager for Urban and Tour Tires at the German manufacturer. His company also working on various sustainability

projects simultaneously. One ambition, says Vauth, is to be carbon-neutral in all tyre production plants by 2040.

The Pressure Is Growing

The ambitions of manufacturers come at the right time since the pressure on companies is increasing from various directions. Felix Jahn reports that the demand for environmentally friendly tyres has risen sharply in recent years. "76% of our total sales in 2023 were for products with sustainable or social aspects. This trend is also evident in the numerous customer conversations we have," he states. Cecilie Bøckmann Olsen from reTyre also expects political pressure to increase. "We currently see a major push for regulation and correct documentation on sustainability, led by the European Union and echoed internationally," she explains, referring to regulations such as EU CSRD (Corporate Sustainability Reporting Directive), CBAM (Carbon Border Adjustment Mechanism), and others. Several tyre manufacturers also report that they are receiving increasing inquiries from OEM customers who also need to comply with legal requirements.

To achieve sustainable development towards environmentally-friendly bicycle tyres, more than just the will of individual manufacturers is needed; cross-manufacturer collaborations are essential, warns the Norwegian: "If there is no industry-wide movement towards sustainability, individual efforts may not be enough to create significant change. Collaboration and a shared commitment to sustainability are essential for the industry's future." ■ WMS

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LIGHTING BOASTS SMART CONNECTIVITY AND REFINED OPTICS

BRIGHT IDEAS: BIKE LIGHTS SHINE AT EUROBIKE

Riders increasingly expect their bikes to arrive with lighting as standard. It makes sense for an e-bike to use some of its power to provide illumination rather than rely on its users to supply after-market lights. Similarly, even cyclists relying solely on pedal power are keen on integrated features like daytime running lights on their bikes. Nevertheless, after-market lights remain a massive segment, with smart connectivity, battery capacity, and increasing brightness continuing to drive sales.



Herrmans' Nordic Carrier Plus seamlessly integrates into the bicycle

Herrmans [12.1/A06] is launching a new integrated carrier rear light called the Nordic Carrier Plus at the show. It features a sleek and appealing design, high-quality LEDs, and brake light functionality. This radically slimmed-down version now requires almost no extra space within the carrier, allowing it to integrate into the bike seamlessly. It joins the firm's expanding Nordic range, all of which are made in Finland and are StVZO-approved. This selection of complementary front and rear lights renders quality optics in a modern design language to complement the latest bikes. At the brightest end of the spectrum, the firm's Nordic Xtreme and Nordic Pro feature projector technology for powerful and efficient light distribution. They serve e-bikes rated from 25 to 45km/h, feature alloy housing and robust glass lenses, and offer high beams of up to 1,100 lumens.

Jiashan Sheng-guang Electronics [9.1/D24] introduces three new bike lights for front and rear use. The JY-7209E-3 is a stylish headlight featuring MF's reflector technology in a sleek quadrate design. It includes a smart, detachable reflector for versatile use, improving lateral visibility and safety. This light provides 180 Lux high and 150 Lux low beams, powered by two intense LEDs with cut-off line technology,



New fixed front and rear options from Jiashan Shengguang Electronics

all mounted on a sturdy aluminium bracket. It is compatible with the company's handlebar remote for easy control. The JY-7175 front light offers 170 Lux high and 120 Lux low beams, using MF's reflector technology and two powerful LEDs with cut-off lines. It comes at a lower price point but retains the higher-end models' aluminium construction and handlebar controller. For the rear, the JY-6272 is a fixed unit with brake light functionality and an integrated Z-reflector. Its slim, wing-inspired design provides 240-degree visibility, enhanced by an optic lens for better clarity. It fits universally on 50mm or 80mm carrier distances.

Meilan's [9.1/G03] CuteEye taillight might have caught your eye in Taipei. It's recently been improved and made even more intelligent. It

now has added connectivity on top of its original features, including wireless indication functions and lane dividers projected by laser. The light's new BLE 5.0 connectivity allows improved synergies with Meilan's matching Navihood GPS bike computer. When combined, it's now possible to automate the light's turn signals, which are taken straight from the computerised route.

Alternatively, these can be activated via Meilan's new handlebar remote. A corresponding front



Meilan's CuteEye combines with the Navihood GPS bike computer to provide automated turn signals

light with comparable smart features is also in the works.

Hawkeye [8.0/A23] is a rear bike light that alerts cyclists to approaching traffic hazards via their mobile phones. It aims to protect vulnerable road users by using powerful AI vision based on multiple rear-facing cameras to identify real-time hazards such as cars, trucks, and bikes. Its three cameras cover both long-distance and wide field-of-view for blind spot protection, with the light flashing automatically in response to alert approaching drivers. Riders are also notified of traffic approaching from the rear via the lights companion app, which features a user-friendly graphical interface to provide quick situational awareness. Additional features include video recording on a large SD card, an accelerometer, a



Hawkeye twins with your phone and utilises AI and multiple cameras to alert you to approaching traffic



SON's 29S hub-dynamo and matching Ladelux headlamp offer USB-enabled charging and incredible efficiency



light sensor, a microphone, a buzzer, and a USB-C connection. Setup is via Bluetooth to your phone. At this year's show, the firm is looking to showcase its progress as its launch product makes its way to the market.

Dynamo and lightmaker **SON [12.1/A01b]** is displaying a new hub-powered headlight called the Ladelux. It offers a USB-enabled charging feature and can draw up to 12 Watts from the hub dynamo. This lets it charge your phone even when the light is on by simply connecting a magnetic cable to the handlebar switch. A small 1200mAh buffer battery is also integrated within the lights' housing to allow riders to activate the unit's 180 Lux high-beam mode regardless of their current speed. The firm is also exhibiting the new SON 29 S hub dynamo. This extremely lightweight and minimalist hub is barely recognisable as a dynamo. Its generator has been optimised to work even at low speeds, allowing it to comply with German StVZO legal regulations, even when used on 29-inch wheels. Its high power output is ideal for both powering lights and charging electronics.

Sigma's [12.1/C32] new Buster 1600 front light delivers 1,600 lumens

Sigma's Buster 1600 front light delivers 1,600 via twin LEDs and an innovative double lens



and smart features that enhance fun and safety for off-road trail riders. Its two high-quality LEDs and an innovative double lens create a uniform light pattern that illuminates up to 205 meters. With six light modes, you can adjust the brightness to suit your needs for up to 50 hours of riding. The memory function then ensures the front light switches back to the last mode used when turned on again. The Buster 1600 can be recharged for extended rides via the USB-C quick-charging function. It's available in conventional and helmet-mount versions.

Danish firm **Reelight [9.1/D07]** is best known for its Award-winning range of battery-free bike lights that use contact-free magnetic induction to power themselves. It's recently upgraded its established SL100 and SL200 series lights. These largely invisible improvements have resulted in far greater light output, boosted by their redesigned lenses, which also increase the lamps' durability. Weather sealing has been similarly upgraded from IPX4 to IP67 waterproofing. These improvements are in the process of rolling out to the market.

Following a launch at Eurobike last year, **Spanninga [12.1/A13]** is introducing an updated version of the award-winning Halo carrier rearlight. This new model includes sensor-



Reelight's induction-powered lights now feature greater output and upgraded waterproofing



Spanninga's Halo series won a German Design Award in 2024

based stop-light and turning indicators, an ultra-compact design and an integrated Z-reflector. It's available for both carrier and fender mounts. The Glow range is another integrated rear option that scooped a German Design Award. This year, the series expands with a version featuring sensor-based stop-light functionality and turning indicators. Halo and Glow lights are compatible with dynamo bikes equipped with safe-stop and e-bikes with brake-light functions. The firm's Pimento series offers a further choice, with COB LED technology providing a powerful light beam to the back and sides. This year, the new Pimento Mini will join the range. This compact and modular unit offers multiple mounting options. Additionally, larger lights in the range will be updated with enhanced safety options like brake-light and stop-light functions and new front-light versions. All will be arriving in the final quarter of 2024. Spanninga is also releasing an update of its augmented reality (AR) app. Designed for category and product managers, it aims to simplify navigating the firm's products. It provides necessary information and comprehensive content, including high-quality photos, informative videos, 360° views, and detailed technical descriptions.

Electrification is driving greater integration of lighting. **LightSkin [12.0/C28]** is ideally placed to help bike makers capitalise on this trend. The SF seatpost recently joined its integrated lighting systems. The company has created a technology that uses COB (Chip on Board) strips to emit light in a continuous line. This is achieved through a uniquely designed cross-sectional seatpost that connects its interior and exterior, allowing for the secure attachment of the COB strip. The LightSkin SF system is compatible with seatposts of various sizes and materials. A special lighting module at the top of the SF unit meets the StVZO tail light standards; beneath this module, an integrated line COB light enhances rider visibility and safety. The firm is expanding its range of after-market lights along with built-in solutions. These include the U8 front light, a smart connected lamp that can twin with a remote for handlebar-activated control. It offers high and low beam functions with a dual cut-off line. These are powered by a durable 5,000mAh battery while the unit is recharged via the increasingly popular USB-C standard. The light



Glow indicator Spanninga.tif Spanninga's Glow range scooped a German Design Award.

can also be called upon as a battery pack to recharge your other devices if needed. The entire package is exceptionally neat, IPX6 waterproof, and comes with a handlebar mount and bracket for Garmin and GoPro-style attachments.

HK Gaciron [9.1/B22] has a range of new anti-glare bicycle headlights. Its Raptor-3000/1800 models are designed for optimal visibility and feature high and low-beam options with a precise cut-off beam to reduce glare for oncoming traffic. They feature massive 3,000 or 1,800-lumen maximum outputs for the darkest nights and unlit roads or trails. Choose between a 10,000mAh battery on the Raptor-3000 or a 6,700mAh battery on the Raptor-1800, providing up to 50 and 35 hours of use, respectively. The headlights illuminate over 200 meters ahead and are rated IPX6 for waterproofing, ensuring reliability in all weather conditions. Weighing 290g, both support installation above and below the handlebar and are compatible with the firm's wireless remote control. By comparison, the firm's KiWi range offers a more compact alternative. This range covers three models: the KiWi-1200, KiWi-800, and KiWi-400. Designed for optimal safety, each features a StVZO cut-off line to minimise glare. The KiWi-1200 model offers a maximum brightness of 1,200 lumens, while



HK Gaciron's powerful Raptor lights include precise beam cut-offs and anti-dazzle technology



UK-based light maker Exposure now has a hub in NYC

the KiWi-800 and KiWi-400 provide 800 and 400 lumens, respectively. All models have a beam distance of over 200 meters and are water-resistant with an IPX6 rating. They're also C-C rechargeable and include a power bank function. The KiWi-1200 model additionally supports wireless remote control for added convenience.

UK-based **Exposure Lights [11.1/D23]** tends to offer incremental updates to its well-regarded high-end models rather than scrapping them and starting afresh. Its long-running Six Pack has recently been boosted to 5,450 lumens while retaining the robust construction and speed-sensitive REFLEX ++ auto-adjust functionality, which has helped it garner positive reviews. Similarly, the helmet-mounted Zenith MK3 retains its TAP technology that lets you switch modes by tapping either the body of the light or the helmet without needing to locate the function button. Its lumen count has also grown, now offering up to 2,200 lumens. While the first two products are aimed at mountain bikers, the Strada MK12 RS Aktiv features a road-specific beam pattern and an upgraded 1,450-lumen output. Its AKTIV mode allows it to sense oncoming light sources and auto-dim when a vehicle is approaching. The firm has recently increased its presence in the USA with a new Exposure Hub in the Joulvert bikes showroom in New York City. **JD**

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GLOW SERIES

Spanninga's award winning GLOW integrated rearlight solution is designed specifically for the unique Commuter carrier. This year the GLOW series will be extended with a sensor-based stop-light function and turning indicators. The rearlight series are also available for dynamo with safe-stop and for e-bikes with brake-light function. The new model will be available in Q4 2024. Let us surprise you with our latest technologies and some interesting co-creations at Eurobike 2024. Find us at our booth!

Hall 12.1 / A13

OVERVIEW: GRIPS AND BAR TAPES COMFORT AND ULTIMATE HANDLING CONTROL

Often overlooked, bicycle grips and bar tapes show significant advancements in performance, comfort, and environmental responsibility. Leading manufacturers at Eurobike are pushing the boundaries of design and material science to deliver a diverse range of products that cater to the needs of every cyclist.



Velo VLG-2096 grip is made of their latest material, VeXk3.

Taiwanese manufacturer **Velo [Hall 12.1, C22]** is introducing four new grips made using recycled ocean plastic, thus reducing marine pollution. VLG-2096 and VLG-2089 grips use Velo's newest material, VeXk3, for comfort and long-lasting UV resistance. They feature a softer texture and an oval shape for improved damping and ergonomics. On the other hand, the new silicone VLG-2080 and VLG-2052 offer a unique feel and comfort. Velo is also adding a new PU bar tape, the VLT-5124, for bike enthusiasts who ride regularly. The tape features easy cleaning and a firmer texture, complemented by a specially designed pattern for improved grip.

Century-old German company Humpert and its **ergotec [hall 12.1 - C21]** brand has recently undergone a brand refresh with a new motto "Perfect Fit. Full Performance". At this year's Eurobike two new MTB grips, the Whistler and the Riva, are on show. The Whistler is polypropylene



Ergotec's new Riva silicon grip weighs in just 84 grams.

while the black Griffé Riva is made from silicon and weighs about 84g.

Based in Taiwan and harnessing its years of experience, the team from **V-Grip [Hall 9.1 - G02]** continually innovates and perfects product development. Its latest PU tape, CWT-1001, offers anti-scratch and shockproof properties, ensuring durability and protection for riders, and comes in two patterns.

Another significant Taiwanese OEM and ODM manufacturer with a long history in the industry, **Co-Union [Hall 9.1 - E44]** is



V-Grip's new CWT-1001 comes with two different pattern options.



The CB-0108NR series is the new addition to Co-Union's bar tapes range.

launching new handlebar tapes with composite material. The CB-0108NRB is crafted from natural rubber, featuring superior anti-slip properties and exceptional stretchability, while the CB-0108NRC incorporates 50% recycled rubber material and offers enhanced touch comfort and grip.

Hermanns Bike Components [hall 12.1 - A06] is unveiling an upgrade to its Nucore grips introduced last year. By optimizing the mold injection process, the company has achieved a new milestone in sustainability: starting from 2025, Nucore grips will feature 60% bio-based



Hermann's Nucore series is now available in Pastel and Vivid colors.

content, double the current composition. In addition, a lot of effort is put into making the grips as comfortable as possible, making sure pressure on the Ulnar nerve is minimized and that the Carpal tunnel is not obstructed during the ride.

From California, **ODI Grips [Hall 11 - D22]** has been innovating and producing grips at its own facility in the USA for over 40 years. ODI - which stands for Observation, Design, and Innovation - leverages proprietary compounds to deliver high-quality grips. The new ODI Vanquish v2.1 Lock-On grips (available in 32.5mm diameter) use



The new compound of the Vanquish v2.1 from ODI delivers comfort and control.



SQualab 710 2.0 wing grip is designed for maximum comfort and grip safety.



The SQualab 70X 2.0 Pro offers more comfort to downhill and gravity riders.

its new D30 GRIP material, removing shock and vibration so the rider can focus on the ride. The new compound has twice the vibration damping properties of standard materials.

SQualab [Hall 11.1 - B30] is exhibiting its sporty 710 2.0 wing grip, featuring an extended contact surface to relieve ulnar nerve pressure and a cushioned area for thumb joint support. It uses recycled, certified materials for the rubber and inner sleeve. Also at the stand: the latest generation of the 70X grips: the 2.0 Pro, a gravity and downhill grip designed to provide less arm pump and more comfort in all weather conditions, and the regular 70X 2.0 with a new rubber compound and inner sleeve made from recycled materials.

Formed earlier this year and formally launching at Eurobike, **Ultra Cool Tech [Hall 11.1 - B37]** has expertise in thermoregulation from its work with professional cycling teams. The firm is showing its Glacier Tape — a cooling bar tape with an advanced super-absorbent material that soaks up water and slowly releases it to create evaporative cooling up to 6°C cooler than conventional bar tape, without compromising comfort and grip.

Known for its triathlon products, **Profile Design [Hall 11.1 - A38]** has created a new bar tape with



Ultra Cool Tech's new Glacier Tape comes in 2 colors, black and glacier blue.



Ultra Cool Tech's new Glacier Tape comes in 2 colors, black and glacier blue.



Profile Design Vulcanite Bar Tape is a high-performance bar tape for gravel, cyclocross, road and tri.

racing in mind. Vulcanite Bar Tape is a high-performance bar tape for gravel, cyclocross, road and tri. Using foam and an outer layer of natural rubber, it offers an ideal balance of cushion road feel and grip. The tape is environmentally friendly and recyclable.

Drawing from their proficiency in other sports, particularly tennis, **Ming Hsing Leather [MHL] [Hall 9.1 - F18]** applies their grip technology mastery to handlebar tape. It's debuting a new bar tape using its latest innovative material: a water-based PU leather. Unlike traditional solvent-based solutions, its water-based PU products are DMF-free, leading to reduced energy and water consumption, VOC and CO2 emissions, and industrial wastewater. Moreover, the material eliminates harmful substances and offers an eco-friendly and lightweight solution with a large range of textures. **MW**



The new water-base PU leather from MHL helps reduce industrial wastewater.



Stabil mobil



Call a Bike, das Bikesharing der Deutschen Bahn, bietet dir über 13.000 Räder in 80 Städten. Sei flexibel und bequem unterwegs!



HELMETS AT EUROBIKE

HEAD PROTECTION GETS SMARTER, SAFER, AND MORE SUSTAINABLE

While helmets are more advanced than ever, and most cyclists wear them while riding, traumatic brain injuries are still common across all cycling disciplines. Making helmets safer and more accessible is a key theme in the segment at Eurobike this year, and sustainability is also coming to the fore.



Highbar's moulded strap system offers ease of use and better comfort and aerodynamics

HighBar is "the first major innovation below the ears in over 50 years", according to the company, and its easy to use interface is designed to increase the likelihood that the rider will fit the helmet correctly allowing the helmet to do its job in the event of a crash. "For years, we've been advancing the styling and performance of the outer shells of the helmets only to hang the exact same strap and buckle system as every other helmet on the market," HighBar's Eric Horton says. "Our solution opens a whole new world of industrial design possibilities with the ability to create a cohesive look for the entire helmet including the retention system."

In addition to simplifying the helmet fitting process with an easy flip and twist of the intuitive dial interface, there are several performance advantages to the Highbar System. The



The OBH system means you can always store your helmet securely on your bike

moulded Highbar system is faster and quieter and because the system has less contact with the skin, and it is also measurably cooler resulting in a more comfortable riding experience. HighBar has a private conference room at the stand of its manufacturing partner **Strategic Sports [9.2 / A05]**.

Crash sensors have become reasonably common in top-end helmets, but once help arrives, time is crucial: the faster the paramedics know how to treat the injured person, the greater the chances of avoiding long-term consequences. **twiCEme [11.1 / A10]** has developed a digital Medical ID NFC chip that can be built into any helmet, which can provide rescue personnel with vital information directly at the scene of the accident if the rider is unable to provide the information themselves.

Once the data has been stored on

the helmet chip, all that's needed is an NFC-enabled smartphone. Simply hold the phone over the Medical ID symbol and the data can be read: no internet, telephone or satellite connection is required.

One of the first helmets to be fitted with the twiCEme chip is Poc's Ventral Air Mips road bike helmet, which features a robust unibody shell construction is lined with an optimized EPS layer for maximum protection with minimum weight. A MIPS system provides additional protection.

The aim of **OBH [9.0 / B09]** is to make the use of helmets less cumbersome and restrictive so that more people use them on a daily basis. "We believe that, like the seat belt with cars, the helmet should not be brought to the user but should belong to the bike or scooter", it says. "This is why



The HYP-E from Abus gets integrated lighting and remote-controlled indicators

we have developed new equipment allowing you to mount and secure an OBH helmet on your bike or scooter."

The OBH system allows you to always have your helmet at hand and secured on your bike to encourage you to ride safely. OBH is offering systems designed both for shared bike and scooter schemes, and for personal use. OBH uses waterproof materials throughout so that the helmet can be kept with the bike no matter the conditions. The Connected kit also protects the bike from theft; it features an alarm coupled with an accelerometer detecting suspicious movements of the bike.

Visibility in traffic in urban areas is very important to protect yourself, and the high position of your helmet lends itself to helping you to be seen. This is where **Abus [12.1 / A37]** comes in with the HYP-E, integrating additional functions into the bright rear light and adding a white light strip across the entire width of the front, which also attracts the attention of oncoming road users. A total of five different light modes are available.

It's not just running lights though: the HYP-E also includes direction indicators and an innovative brake light. The indicators are operated directly by the rider via a remote control which can be positioned on the handlebars. The brake light is activated by a sensor that is pulled over the brake lever and sends an



The Poc Ventral Air MIPS is the first helmet to include twiCEme's NFC medical chip



The Verde KinetiCore from Lazer is made from up to 70% recycled material



The Vox 2.0 is a major update of Safety Labs' popular helmet

impulse to the helmet when activated; this ensures that the brake light is only activated when braking.

In addition to the lights, a visor can be attached and removed to a magnetic hub on the helmet, with a choice of three lenses. To make the HYP-E adaptable for year-round use there's a three-stage vent cover integrated into the helmet. In addition, ear pads can be added to the fastening system to protect the ears from the cold. The special fabric structure allows ambient noise to still reach the ear.

Abus has also considered sustainability and the product life cycle when developing the HYP-E: every electronic element as well as the visor and EarPads can be replaced and retrofitted, and can be disposed of separately at the end of use.

Sustainability has also been one of the main focus areas of **Lazer [11.0 / B16]** of late. With the Verde KinetiCore, Lazer uses recycled materials wherever possible, including CDs – “Who knew your old Nickelback and Madonna CDs would still come in handy?”, says Lazer – and a minimum of 70% of the helmet's weight is made of recycled material. The EcoLoc system allows the user to easily disassemble the helmet at the end of its life. Simply unlock, look for the stamps on the different materials and sort correctly at home.

The Verde KinetiCore uses Lazer's own rotational injury mitigation system which incorporates crumple zones into the shell of the helmet, and is rated 4 stars for safety in rotational impact tests. There's a port on the rear can be used to increase visibility with the Lazer universal LED, which again is a separate unit to help with disassembly at the end of the helmet's life.

“We are making progress towards a reduction of climate change impact in small, regular steps”, says Lazer, “and a significant objective is reached with Verde KinetiCore.”

Safety Labs [11.1 / B08] describes the Vox as “the perfect helmet for beginners, pros alike and every shredder in between”, and it's been a popular lid for off-road riders. Eurobike sees the introduction of the Vox 2.0, the next iteration of the helmet.

With a high Impact protection polycarbonate in-mold construction and shock absorbing EPS liner, the Vox 2.0 provides maximum protection during rides on rugged terrain. The shape of the helmet has been tweaked, with added shell coverage designed to protect key areas at the back of the head, and the temples. The Pro 360° Adjustment Fit System allows for a secure fit. Ventilation has been



TSG's Sentinel has 12 vents to maximize air flow through the helmet



The Lumos Ultra Fly Pro is compatible with the rechargeable Firefly rear light

improved too, with new “X” ventilation windows providing breathability at all times. The visor has been extended to provide better shade and protection from trail debris, and the XL LED-USB rechargeable light, provides visibility both day and night.

Lumos [11.1 / A64] has brought its technology into the road market with the Ultra Fly Pro. Weighing in at just 260g (285g with MiPS) the helmet comes in a wide range of colours and is compatible with the rechargeable Lumos Firefly rear light, which attaches magnetically to a port at the rear.

Lumos has done a lot of work on the design of the Ultra Fly Pro to

maximise air flow for the best possible rider comfort. And the safety doesn't stop with the rear light: the Ultra Fly Pro is available with the MiPS Evolve Core rotational injury protection system, and also sports reflective decals for better visibility after dark. It's finished off with a Fidlock magnetic buckle, sweat-wicking pads, a fully adjustable retention & fit system and a sunglasses storage port.

If you're looking for a full-face helmet built for next level downhill mountain biking and jump sessions, then **TSG [11.1 / C16]** has you covered with the Sentinel. The super-tough ABS outer shell makes it possible to build a sleeker and more solid silhouette with the added strength of a toughened PC-laminated EPS foam protective face guard. There are 12 vents to maximize air flow through the helmet at all speeds, and a wide eyepoint with precision placed visor that will accommodate a wide range of premium goggles for riding. To top it off, the Sentinel's comfort liner and cheek pads are removable and washable, so however hard the helmet is ridden it can be kept as fresh as when it came out the box. The Sentinel is available in 6 sizes from XS – XXL, and 4 colours. It weighs from 1,170g.

The Hardline is a new feature-packed full-face helmet from **Smith [11.1 / C06]**. Constructed to be lightweight and breathable without compromising protection, the Hardline weighs in at just 910g in its carbon-shell build – the lightest weight full carbon shell DH-caliber helmet to hit the market – and utilizes Koroyd ventilated coverage, a MiPS Safety System, a patent-pending collarbone impact protection zone, and a quick-release cheek pad system. Additional features include an adjustable breakaway visor that can be locked into place for under-visor POV camera mounting, a D-ring chinstrap fastener for a snug fit, and integration with Smith performance goggles for maximum comfort, ventilation, and storage.

Eurobike also sees the launch of the next iteration of a classic with the new Forefront 3 helmet, boasting several new technology upgrades within a re-designed shell. The lightweight in-mold construction has been extended to the rear for greater coverage. There's a new roll cage integrated throughout the helmet that helps distribute impact forces for a maximum level of protection. Air channels combined with 20 optimized vents to increase airflow by 25% over the previous model.

“When it comes to starting from



Julbo scanned pro riders' heads to get the perfect fit for the Finisher Evo

scratch, there are no limits”, says **Julbo [11.1 / D08]**. This is the philosophy that drove the development of the new FINISHER EVO helmet, that will be used by the Groupama-FDJ Cycling Team from its launch. Designing a helmet for the top level of road cycling competition is a tough task: “The helmet had to tick all the boxes that contribute to high performance”, says product manager Nicolas Defude. The Groupama-FDJ research and development laboratory scanned the skulls of all riders in the WorldTour squad to establish references for three head shapes which were then divided into three sizes. The Julbo Development Unit then cross-referenced this data with its own in-house results to create the perfect fit profile. A new 360°, circular tightening occipital hold system was developed to provide more comprehensive, more accurate and lighter adjustment.

The inclusion of a roll cage allows large ports for better ventilation without sacrificing safety. The latest MiPS Air Node® rotational injury mitigation tech was integrated from the outset for better efficiency. CFD simulations and three rounds of wind tunnel testing helped to hone the aerodynamics. A removable Aero Shell offers an aerodynamic advantage, and also closes up ventilation ports for more protection in bad weather.

The Comete SL MIPS is a new helmet from **Mavic [11.1 / A58]** that showcases some of the company's newest technology. The aero-optimized shape has been developed from testing in the CMEFE Wind Tunnels in Geneva, and Mavic has also worked on the airflow within the helmet, using ventilation channels to guide airflow through to a large exhaust port at the rear. The new Ergohold+ retention system features micrometric one-hand adjustment, and height adjustment too. There's a glasses garage, fast-drying Coolmax pads and a MiPS safety system built in. **DA**



The Smith Forefront 3 helmet is updated with an internal roll cage



At just 910g the Smith Hardline is the lightest DH helmet on the market



Mavic's Comete SL MIPS has been developed in the wind tunnel

OVERVIEW: WHEELS AT EUROBIKE

WHEEL WORLD REVOLUTION: NEW TECH, E-BIKE OPTIONS, AND LIGHTWEIGHT LEADERS

Few components can match an upgraded wheelset's consumer appeal or mechanical impact. Able to enliven a dull bike or make a good one great, their outside effect on performance and marketability means choosing the right set is crucial for both consumers and bike builders. With new fronts opening in aerodynamics, tyre standards, and material composition, you'll find the freshest products featuring the latest tech below.



The RAW range from FFWD features carbon spokes and new hubs with CeramicSpeed bearings and a ratchet drive system.



Wheelab's DAAP Disc also picked up a d&i award at Taipei Cycle



WTB's gravel and trail-specific lineup grows with this new version of its CZR line

Scope's [11.1/A09] Artech range of carbon wheels is the product of three years of dedicated research and development. With every detail developed in-house at its headquarters in The Netherlands, it represents a new flagship for the brand and an attempt to produce genuinely class-leading wheels across the road, all-road, gravel, and triathlon categories. The multi-faceted range of different wheelsets includes a 965g climbing wheelset, which the makers claim is the fastest aero wheelset on the market. These employ various newly developed technologies such as German-made topology-optimised 3D-printed hubs, Aeroscale rim technology, Carbonlite Aerospokes, and a titanium Diamond Ratchet SL engagement system.

FFWD's [11.1/A46] new RAW wheels promise to be lighter, more

Scope's Artech range of carbon wheels represents a new flagship for the brand

responsive and stiffer thanks to their carbon spokes. The range-topping disc wheelset also shifts away from using DT hubs and instead employs a new custom hub with CeramicSpeed bearings and an internal ratchet system. The range comes in three rim depths: 33, 44, and 55mm. The firm's new carbon spokes are key to each. They promise to save weight and shift mass towards the hub. FFWD claims they also boost wheel stiffness by 17% compared to the conventional models used in previous versions. The firm has decided to employ a tubeless-ready, hooked-rim that should alleviate any fears about tyre retention. These measure 23mm across, with internal widths of 21mm that are capable of supporting tyres from 23 to 42mm wide. All models are hand-built in the Netherlands and available in matt or glossy finishes.

AVIIA's [9.1/E18] new Aldo racing wheels use a patented Chevron-Kamm tail design to maximise their aerodynamic performance. This clever design bagged the South Korean firm a Taipei Cycle d&i award earlier this year. To reduce air resistance, a special shape is placed on the side of the rim to intentionally weaken the air's viscosity and spread it to the left and right of the rim to minimise air resistance caused by spoke rotation. The rims are 50mm deep and feature a 32mm external span and 21mm internal width to accommodate up to

35mm tyres. Each comprises high-end Toray T800 H/UIN-150A carbon and is tubeless-ready. They're laced with unique straight pull carbon spokes and spin around AVIIA's Super Ceramic Synchro hubs, which use a 54t clutch ratchet drive system. The resulting wheelset weighs in at just 1,490g.

South Korea is turning into a racing wheel powerhouse. Another Taipei Cycle d&i award winner comes in the form of the DAAP Disc from compatriots **Wheelab [9.1/E28]**. This similarly smart 50mm deep carbon wheelset employs local fibre reinforcement, which controls the number of carbon layers and the direction of the prepreg. This is married exactly to the lacing pattern to ensure it matches the magnitude and direction of the forces exerted by the spokes. Simultaneously,

other areas are left thinner for improved vibration dampening, allowing the wheels to combine stiffness and comfort. Other key features include proprietary hubs, carbon spokes that claim to be 40% lighter and 35% stronger than steel alternatives, plus hook-bead rims optimised to work with 25-28mm tyres.

California-based component maker **WTB [11.1/A52]** continues to grow its wheel lineup. This year, it's offering gravel and trail-specific versions of its CZR line. Based on low-profile tubeless-ready alloy rims, both sets major in durability, adaptability, and ease of servicing. All CZR rims also come with the firm's Ride With Confidence guarantee, so if you break one while riding, WTB will send you a new one for free. Electrically assisted off-road riders should also be interested in the CZR i30 MTB wheelset, which uses rims with a strategically reinforced carbon layup and high-engagement hubs with oversized freehub seals to suit them to extreme conditions. Perfect for thrashing around while engaged in enduro-style riding, they're protected by a similar guarantee.

Another firm going big on durability is **DT Swiss [12.0/B32]**. Its updated severe-duty F 1900 Classic alloy wheelset aims to be a fit-and-forget option for bike park rippers and budget-conscious downhill



The aerodynamic Chevron-Kamm tail design on AVIIA's Aldo racing wheels helped claim a Taipei Cycle d&i award earlier this year.



Gnarly bike park wheels and refined carbon gravel hoops are among the latest released from DT Swiss

racers. Their rims include a profile designed to combat pinch punctures. This is achieved partly by the shape of the rim hooks, which feature a redesigned upper. By widening and reorienting this part, DT claims to have reduced the possibility of damaging the tyre carcass and causing air loss during extreme compressions. This prioritisation of reliability is also seen in the wheel's robust 370-series hub, which features a heavier but more durable non-machined Ratchet LN axle. Gravel riders will also be interested in the recently released GRC wheels, which have ditched the hookless standard and now come in twin 30mm and 50mm rim depth options. The GRC Dicut 50 rim profile is available in 700c size only, while the GRC Dicut 30 rim is also available as a 650b wheelset. Each model offers a choice of hubs, resulting in six options in total. Additionally, DT Swiss has introduced a new HGC 1400 Spline wheelset, specifically designed for use on electric gravel bikes. This model features the same 30mm deep rim as the GRC Dicut 30 but with a more robust hub and extra spokes in the rear wheel for enhanced durability.

Newmen [11.1/B41] has fresh carbon wheels that will appeal to elite road racers and speed-focused bike-packers. Its latest Stream VONOA road wheels come in three depths and are suited to different applications. They've recently been successfully employed by the pros at Intermarché-Wanty. The shallowest of these is aimed at climbers and offers depths of 35/38mm twinned with a 1,035g system weight. The all-around set comes in at 49/54mm and 1,300g, while the sprint-focused version is 60/66mm deep and 1,355g. All rely on stronger, stiffer, and more aerodynamic VONOA Aero carbon spokes. Their robustness allows the firm to reduce the number employed, so the wheelsets roll on just 15 front and 18 rear spokes. Add in broad and secure hooked rims and minimalist Fade R hubs, and you have some of the market's lightest and most aero wheels. Less specialism is required in the gravel segment. Here, Newmen have a new wheelset that matches carbon rims, accessible pricing, and superior versatility. The Advanced G.34 wheels clock in at 1,330g yet support



A minimalist number of aerodynamic carbon spokes characterise Newmen's latest Stream VONOA road wheels

modern gravel tyres between 35 and 50mm wide. They use the same FADE R hybrid hubs found on Newmen's award-winning mountain bike wheels and are compatible with conventional or e-bikes rated up to 60Nm.

Crankbrothers' [12.1/A24]

Synthesis e-MTB wheels are designed to enhance control and stability for e-bike riders, carrying over the Synthesis concept of an optimised front and rear wheel system for electrically assisted riders. With different spoke counts, 28 front spokes for compliance and 32 rear spokes for stiffness, the wheels aim to provide superior handling and stability. Reinforced rims are built to withstand higher loads, while steel driver bodies manage the increased torque from e-bike motors. E-bike-specific Sapim E-Light and Strong spokes ensure improved durability. The tuned front wheel improves handling, grip, and control in turns, while the stiffer rear wheel supports peak loads and enhances stability and tracking at speed. Available



Crankbrothers' Synthesis e-MTB wheels are tuned to mix stiffness and comfort

in 29, 27.5, and 27.5+ sizes.

UK-based **Hope [11.1/D17]** is launching its new RX24 wheels for gravel riders seeking comfort over long distances. With a 24mm internal rim width, these wheels accommodate up to 60mm tyres. They come fitted with high-quality rim tape and Hope valves, which are colour-matched to the hub. The RX24 wheels feature 700c welded shot-peened AL 6069 rims with 24, 28, or 32-spoke hole drillings and are built with Hope's Pro 5 hubs available in Standard or Boost widths. For serviceability and longevity, brass nipples are used, while black double-butted Sapim Race spokes ensure strength and durability. The wheels have a 24mm internal width and a 23mm profile depth, which is designed for disc brake use only. The maximum system weight is 130kg, and the wheels weigh from 1,780g per pair.

Wheelbuilder **Pro-Lite [9.1/E06]** has taken another step forward with the rollout of its PTT hub system across its many ranges. This redesigned hub employs the firm's proprietary clutch system to provide



UK builders Hope's new RX24 gravel wheels can accommodate tyres up to 60mm



Pro-Lite's PTT clutch hub system can now be found across many of its ranges

maximum power transfer properties. Simultaneously, the brand retains its 20-year tradition by ensuring that 100% of its products remain hand-built and in-house, from entry-level to race-level wheels. Across the range, you'll also find the same quality control and high-end components, including EZO bearings. The firm is particularly keen to highlight its Bracciano PTT A42, an all-alloy road wheelset with 42mm deep rims and straight-pull spokes. Gravel riders might also want to check out the Prologue GX-100 from the firm's expanding off-road drop-bar offering. Elsewhere, the Matterhorn range includes carbon and alloy wheelsets aimed at the mountain bike market.

Basque Country wheelmaker **Oquo [11.0/C12]** has been expanding its offering, which includes high- and mid-end options for road, gravel, and mountain bikers using carbon or alloy rims. Its Road Performance (RP) range is based on 21mm internal width rims that should maximise tyre choice. This allows for more comfortable tyres with lower rolling resistance and retains the option of fitting the lighter treads favoured by climbing specialists. By comparison, its Road Control (RC) products focus on rough roads or gravel riding. They have a wider 25mm internal width, increasing compatibility with wider tyres to offer better comfort and grip. Both feature a Mini Hook design that increases security while finessing fitment and aerodynamics while keeping one eye on minimising rotating weight. These features are evident in the carbon-rimmed RP 45 LTD road and RP 25 TEAM gravel wheels. The first combines 45mm rims, a Zipp Cognition VS2 hub, and Sapim spokes for an overall weight of 1,390g, while the latter clocks in at 1,425g thanks to its wider, more robust 25mm deep rims. Both feature easy-to-service j-bend spokes and rims featuring angled spoke holes that reduce stress at the interface.

Think Change Composites [9.1/F82] established its Kavulungan wheel range in 2017. Since then, it's grown to offer carbon wheelsets covering aero, all-rounder, climber, and gravel segments while also picking up a Taipei Cycle d&i award in 2020. This latest 2.0 series update of its range includes a newly optimised tubeless rim structure for increased rigidity, reduced weight,



Mini hook rims on Oquo's carbon rims combine minimalist weight with traditional reassurance



The new Kavulungan wheel range includes a newly optimised tubeless rim structure and a six-pawl, 60-ratchet mechanism drive

and a better riding experience. The hubs have also been updated with a six-pawl, 60-ratchet mechanism that ensures faster acceleration and longer durability.

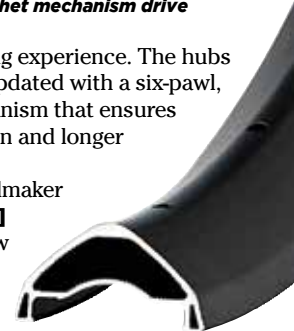
Rim and wheelmaker

Jetset [9.1/E30]

has a range of new products and technology on show. Its AR-25 DH gravel rims incorporate patented Arcos System technology, providing a 25mm internal width for diverse riding needs. Available in two weight options, 485g and 545g, they're tailored for specific strength requirements, making them perfect for gravel terrain. The AM-30 HO rims are also made for rough terrain and feature Jetset's innovative Hollow Bead Wall design. This expands the load-bearing area while minimising the risk of pinch flats, ensuring strength and reliability for demanding adventures. Finally, Jetset's AM-30 DH+ rims combine the Arcos System design with multi-angle nipple beds to deliver unmatched performance. The design aligns the nipple angle, distributing the load more evenly for enhanced durability. Available in 29-inch and 27.5-inch versions, these rims offer a choice between sleeved or welded construction, catering to various riding preferences.

The **Alex Rims' [9.1/C09]** EMP5 wheelset integrates the company's e-bike-specific components into a reliable wheelset suitable for various e-bike applications. Central to this wheelset is the BEB004 hub, paired with a sturdy MD30 rim, creating a setup capable of handling the significant torque and power of modern e-bikes. The BEB004 and BEB504 rear hubs are also available separately. They feature Bear Pawls' Power Stroke Technology to accommodate the increased power and torque demands of e-bikes. A hardened steel cassette body combined with a semi-high flanged hub shell allows for wider spoke angles, resulting in a stronger wheel. Four sealed cartridge bearings are strategically spaced to balance internal forces while ensuring high rolling efficiency. **JD**

Alex Rims' EMP5 wheelset integrates the company's e-bike-specific components into a robust wheelset suitable for many e-bike applications



Hollow Bead Wall design, Arcos System shaping technology and multi-angle nipple beds define Jetsets' many rim options



OVERVIEW: SUSPENSION AT EUROBIKE

SMOOTHING YOUR RIDE IS SMARTER THAN EVER

Algorithms seem to be everywhere these days. Now, they're making their way into the formerly mechanical-only workings of bicycle suspension systems. Sram's new Flight Attendant isn't the first system to use a computer to control suspension, but it's likely to be the first to gain major market traction. Similarly, smart testing technology is increasingly within the reach of smaller teams or suspension workshops interested in testing and refining their products with the help of data-driven insights.



The enduro-capable Durolux 38 Evo is the latest offering from SR Suntour



Smart shock control from RockShox in the form of the Trail version of its Flight Attendant system



RockShox top-end aggressive forks will get an updated Charger 3.1 damper



Few details are yet to be found regarding Intend's Carbonite enduro fork

race wins beneath Nino Schurter. It's now gained an official release, along with a Trail version, featuring increased ride modes and catering to the more aggressive Zeb, Lyrik, and Pike forks. The system's brain and sensors can collect large amounts of data, which inform the live performance and can later be assessed through the system's companion app, allowing for further customisation and digital tuning options.

Top-end Zeb, Lyrik, and Pike forks will also soon feature an updated Charger 3.1 damper platform. This elite damper aims to reduce harshness and improve control at high speeds. Independent High-Speed Compression (HSC) and Low-Speed Compression (LSC) adjustments eliminate cross-talk, allowing precise tuning. With a broader adjustment range for LSC and HSC,

finding the ideal ride settings should be easier. The updated Low-Speed Compression circuit allows 68% more oil flow, reducing damping for better comfort and traction. The larger high-speed compression pyramid should provide more support for fast tracks. Shim tune kits offer two compression and three rebound tunes, letting you tailor the product to your riding style. Knurled adjusters with clear markings ensure easy setting adjustments. A new, stiffer IFP coil spring boosts consistency and control, while the updated mid-valve check spring reduces compression damping, enhancing traction. The Charger 3.1 platform also maintains a completely silent design. In addition to being included in new forks, the damper will be available as a retrofittable upgrade kit. RockShox also has a similar range of upgrades for the rear of the bike with several new Super Deluxe options. Selecting and setting up these components has also been made easier thanks to an update of the firm's TrailHead set-up app.

Suspension-making upstart Intend [12.0/C24] cooks up radical products from its base in Freiburg, Germany. Its Infinity EN is an upside-down dual crown fork specifically for enduro riding. It offers 160-190mm of squish that can be adjusted via the tool-free travel adjustment. This is achieved via the new Travelizer air spring, which allows you to rotate the stanchion to change travel by 1mm per turn when the shock pump is attached. The fork also features very large bushing overlaps

and long stanchions to provide superior friction properties and let it work smoothly while under load. It's also recently gained an updated CNC'd upper crown while retaining its competitive weight of 2,470g. Elsewhere, the firm is trailing its soon-to-be-released Carbonite. Details are scarce, but it looks to be an equally radical carbon-constructed upside-down fork for enduro-style riding. Head by the firm's stand, and you might be able to shake out more details.

X-Fusion [9.0/E22] is highlighting two new forks that recently broke cover at the Sea Otter Classic. The Vengeance 38 is the brand's debut 38-mm single-crown fork, weighing 2,400 grams and offering 160 to 180 mm of travel. Even gnarlier is the RV1 38 DH fork, which provides 200mm of travel. It's also equipped with an air spring for easy adjustment and a comparatively low weight of 2,950 grams. Both forks feature X-Fusion's new Finecut damper, a cartridge design that incorporates the stanchion into its structure. This system allows for adjustments in high and low-speed compression and low-speed rebound. Launched in 1999, X Fusion is celebrating its quarter-century this year, so look out for special colourways and limited editions across its range.

DVO [12.1/C15] makes a broad range of forks and rear shocks covering XC, trail, enduro, and downhill. Visitors to Taipei Cycle this year will have seen the firm's Diamond 140 to 170mm do-it-all trail fork get upgraded to 36mm stanchions while also gaining the firm's new SL Air Spring. More recently, it's been the turn of the firm's



A gnarly 200mm of travel on X-Fusions RV1 DH fork



Following on from updates to key forks, DVO has updated its Topaz and Jade X rear shocks



DT-Swiss is bringing more manufacturing capacity to its European plant



The mono-sided La City fork is among the less radical solutions from Motion Engineering

Onyx enduro-race fork to get upgraded with an SL Air Spring and tougher 38mm stanchions. The SL Air Spring replaces their OTT design, which employs an adjustable coil-format negative spring. This switch to a dual air chamber design should improve performance and simplify set-up while also ditching around 150 grams from the overall weight. Some of the firm's rear shocks have also had a spruce up. The Topaz air shock and coil-spring Jade X models now come in a Prime version that adds external high and low-speed compression knobs. The adjusters on the Topaz have also been made more ergonomic, with a bigger profile that's easier to adjust while wearing gloves. New for CY24, DVO's unique adjustable air bladder system has also been completely refined with an updated bladder material, end cap seal, and valve core. These changes allow for a wider range of use and less pressure in the system, increasing durability and reducing pressure loss. Both the Topaz and Jade X series also benefit from updated bushings, engineered to aid in the event of side loads from frame flex, resulting in a smoother stroke and increased durability. In addition, the Topaz series receives an oversized seal head and inner shaft.

SR Suntour [12.1/C15] has several new products. Its new DuroLux38 Evo builds on the success of the firm's existing big-line enduro fork. It's now been enhanced with the extra-flow RC+ PCS Cartridge and a semi-open oil bath, developed by SR Suntour engineers and top professional riders as part of the firm's Werx program. Additionally, it features a revised chassis with a new 3D machined bushing alignment process, ensuring a supple and smooth ride out of the box. The versatile trail-focused Auron has undergone a similar process. It's now bigger and badder than ever, with broader and more robust 36mm stanchions for increased stiffness and steering control. It offers ample support via an air EQ system and a new RC+ PCS cartridge with a semi-open oil bath tailored to the fork's broad use category.

Scada [9.1/B16] has a range of head shock-style suspension forks that are ideal for conventional or electric gravel bikes and could also be well utilised on svelte city bikes. Each

provides a useful 35mm of travel in a slimline package that won't compromise your bike's look or add excessive weight. They're available in various configurations covering quick-release, thorough axle, and post and flat mount brake fitments. All also feature a simple pre-load system and 360° grease delivery system, ensuring the bearings are easily maintained. The firm is ready to work directly with bike makers and can even collaborate with your existing forkmakers to integrate their suspension systems.

Noted wheelmaker **DT-Swiss [12.0/B32]** has been growing its reputation as a supplier of suspension products. It's now moving the assembly of all its forks, shocks, dropper posts, and remote levers from Taichung, Taiwan, to its facility in Poland. This strategic move aims to reduce transportation costs and bring manufacturing closer to its key European markets. The company also retains production capacity at its base in Biel, Switzerland and its U.S. subsidiary in Colorado.

French firm **Motion Engineering [F12/G15]** makes a host of radical suspension solutions, including products for the growing electric mobility and transport segments. It offers both off-the-shelf products and an expert design solution service.

Recent projects have included the creation of composite carbon blade leaf springs. These can be added directly to various vehicles, from four-wheeled delivery bikes to family-friendly bakfiets. The technology is also used in the firm's mono-sided La City urban bike suspension fork, which comes in versions for various applications and wheel sizes. It's also employed alongside a more conventional damper on the firm's anti-dive Motion Ride E18 Fork. The firm's Flow Evo shock absorber might look more traditional, yet its makers claim it's the only such product to offer atmospheric pressure and dual progressive hydraulic bumpers. These promise to combine with a bladder to offer unrivalled sensitivity

and a 100% utilisation of the shock's travel. It's also highly adjustable with low-speed rebound, low-speed compression, high-speed rebound, high-speed compression, and tool-free continuous adjustment of the hydraulic support.

Firms looking for keenly-priced suspension options should check out **KKE Technology [9.1/D26]**. It's recently expanded its range of forks and shocks to cover the whole gamut of riding styles. Its experience in the motorcycle segment means it's particularly well-placed to offer products for high-powered electric machines and is frequently seen on Sur-Ron's popular electric motorbikes. The firm's signature dual-crown fork runs on a lightweight air spring and has been particularly popular in this regard. Its budget pricing and striking looks, thanks partly to its mix of upside-down stanchions and moto-style fenders, mean it could add function and visual interest to a range of bike designs.

RST [11.0/B10] recently released updates to its Stitch, Sigma, Rebel, and Slope forks. These forks have recently been making their way to the firm's sponsored riders. The first is an aggressive all-mountain fork with 160, 170, and 180mm travel options and sizing for 29-inch and 27.5-inch wheels. Both coil and air damping options are available, while the robust design of the forks ensures they're e-bike-ready. The Sigma model offers similarly expansive 150 and 200mm travel options and is designed to work with aggressive off-road e-bikes or electric motorbikes. The Rebel V2 is a lightweight, mid-travel fork with 32mm stanchions and an upside-down construction. It runs on an air spring and includes versions with or without lock-out. Finally, the

Slope fork is aimed at dirt jump riders. This 26 or 27.5-inch fork offers the stiffness and performance needed to boost between jumps and has been well-utilised by the firm's sponsored riders, including Sven Herrmann.

Workshops, suspension designers, and tuning specialists would do well to check out **Lab7 [9.1/A10]**. This Lithuanian-based firm aims to deliver precise, straightforward, and reliable equipment to test, tune, and maintain shock absorbers. Its key product is the EMA electromagnetic shock dyno. This comes in multiple versions, from the entry-level 30kW version designed for use in workshops or paddocks during races to the 120kW Super EMA for professionals seeking unparalleled performance, accuracy, and repeatability in electromagnetic shock dyno testing. All offer a data logger with impressive position resolution, a digital sampling rate of 50 nanometers at 20kHz, a load cell resolution, and a sampling rate of 20bits at 20kHz. Interfaces range from Ethernet to Wi-Fi and HDMI to USB, while the firm's regular software updates aim to future-proof the device and offer a steady stream of updates and new features. The firm

also provides a range of workshop solutions, from analogue test rigs to bushing and run-out sizing tools. **JD**



Scada's head-shock style forks suit gravel and city bikes



KKE Technology's forks have proved popular on lightweight electric motorbikes



The Stitch AIR is just one of the RST forks to have received a recent update



Grab data from your shocks with LABA's range of smart testing electromagnetic shock dynos

OVERVIEW: BAGS & PANNIERS AT EUROBIKE

BIKE BAGS: VERSATILE, SLEEK AND SUSTAINABLE

Whether you're cycling to work or planning several days away on two wheels, you'll probably want a robust bag to carry your stuff. The latest options are increasingly versatile, with a focus on smart attachments and green materials.



The trendy Houston tote bag by Go Fluo.



Colette, the It-bag for bike handlebars by Go Fluo.

D14, a Belgian company created by a designer who wanted to inject some fashion into utilitarian products such as safety vests.

The range has been enlarged with the Houston, a high-quality waterproof bike bag with a removable inner thermal bag to keep groceries hot or cold for up to three hours. It's easy to clip on and off the bicycle, and it can be carried around by the handle.

The pink and lilac Colette handlebar bag from Gofluo could be a fashion accessory. But it comes with functions for riders, such as the waterproof fabric, zipper and taped seams to keep belongings dry. There are attachment loops at the back and smart sliders to easily attach and detach the handlebar bag.

The Colette features a reflective strip that is recognizable from many Gofluo products – and that quickly transforms into an adjustable shoulder strap to carry the bag around.

The gravel and bikepacking trends have encouraged suppliers to come up with more packing options, for your luggage rack and almost any other part of the bike where you could safely carry a few belongings.

Ortlieb [11.1/ C18] is targeting bikepackers and mountain bikers with its Flex handlebar bag. Both robust and lightweight, it comes with several mounting options that ensure it stays away from the tires at all times. This is particularly judicious for small bike frames.

There's easy and quick access from both sides, which could be useful to pack a sleeping bag or a sleeping mat. The Flex comes with elastic cord fastenings on the outside, to potentially attach any leftover items, along with valve and compression straps.

A more compact version of Restrap's Race top tube bag.



Martin Reiniger shows off Vaude's Free Cargo bag.

An uninflated stand-up paddle board and a cello case are some of the belongings that could be transported on a bike carrier with the Free Cargo by **Vaude [11.1/ C20]**.

It's a multifunctional and waterproof bike bag, with a backplate made from recycled car parts such as bumpers. Made at Vaude's plant in Tetttnang, this bag's standard capacity is 23.5 liters, but it has a versatile outer attachment flap.

"The cool feature here is that we have additional space to carry big items," explained Martin Reiniger, country sales manager for Vaude's bike gear. "If you're in city surroundings, and the postal service didn't deliver your package to your door, but you have to carry it, or pick it up somewhere else, you have enough space to really expand the bag and carry higher or bigger products directly on the rack."

As Reiniger explains, the Free Cargo is part of Vaude's efforts to

help riders use their bikes on more occasions in the city – even if they have to transport heavy groceries or large parcels. The attachment and closure systems are derived from the long-standing Aqua series.

Versatile tote bag by Clarijs Covers.



For much the same purpose, **Tern Bicycles [12.0/A06]** has come up with waterproof panniers that work well with its Orox e-cargo bike. Whether you're transporting the weekly groceries or heading out for an active adventure, the capacity of up to 72 liters or 20 kilograms could be convenient.

Tern says that the Cargo Hold 72 doubles as foot and leg protection. The panniers come with guard panels, that keep clothing away from the wheel.

Owing to the rolltop, these bags can be used in bucket mode for bulky items, as panniers to keep the contents dry, or flattened for compact storage. They come with Fidlock magnetic buckles.

Clarijs Covers [8.0/ A05] has a versatile tote bag, made with 70% recycled materials. It could be used as a shopping bag, a shoulder bag or a pannier, making it suitable for a commute to work or groceries as well as leisure rides.

The convertible top makes this bag all the more practical. When the bag is only partially filled, it can be folded down to transform it into a smaller, more fashionable shoulder bag, explains Max Koppenol from Clarijs. The detachable shoulder strap is another way to convert the bag.

If your groceries include fresh produce, or if you're heading for an elaborate picnic, the Treviso pannier and cooling bag could be particularly handy. It has a lining made from isolation material, which helps to maintain the temperature of the bag's contents. Both bags come with a Klickfix hook system for easy attachment and detachment from the bicycle's luggage carrier.

The Houston tote bag combines function with plenty of urban flair. That's because it comes from **Gofluo [11.1/**



Waterproof panniers from Tern.

For the top tube there's an updated small bag in the Race range by **Restrap [11.1/B34]**, to make it more compact and functional. It complements the British brand's standard and long Race top tube bags, which have been among its most popular products.

"A lot of people have been asking for a kind of bolt-on version, which goes hand in hand with gravel bikes having those bolt-on bosses on the top tube," said Jon Hicken, Restrap's marketing manager. "It's something a bit smaller but with the functionality of the Race

top tube bag."

With a capacity of 1.2 liters, the bag could work for riders who're out on a single day of offroad adventures as well as those on longer distances.

The Adventure Race Top Tube Bag is intended for ultra-distance racing and audaxing. It has a technical waterproof outer and inner lining, as well as zips that keep the weather out.

The rear strap can be removed to allow the bag to function as a bolt-on top tube bag. A rigid internal plastic structure keeps it upright and stable, and the universal fitting accommodates all headsets, including bikes with a low stack height.

The Potari handlebar bag by **Ostrich [9.0B/20b]** is split in two, to make sure the rider can attach a cycle computer and a front light to the handlebar at the same time. As the Japanese supplier explains, it's easy to access the contents with the zipper on the side.

Ostrich is most strongly established in the Japanese market for bags used when carrying bicycles onto trains. But it continues to run a small workshop with about ten specialists in Tokyo, to make some of its panniers, handlebar bags and saddle bags.

Evolo [9.1/ B42A] makes bike bags for both commuting and bikepacking, using waterproof and wear-resistant materials. The ten-liter handlebar version provides enough capacity for wallets, power banks, garments, eyewear and more. It has a roll-sealed closure to ensure that the contents remain dry, and an opening on both



Two halves for the Potari bag by Ostrich.



New Looxs combines bag and backpack.

sides for easy access.

The bag can be easily affixed to the handlebar with three Velcro straps, to make sure it remains stable. The Taiwanese supplier adds that lights can be hung on both sides, and that the bag is suitable for most bikes.

If you want to regularly check your phone while riding, there's the stiff phone bag made from tarpaulin and carbon-textured rise cloth, with a capacity of one litre. The bag has a sensitive touch screen and a plastic sun visor, as well as sealed double zippers to keep the rain out. It attaches with three adjustable strap fasteners and the reflective tapes on both sides make the bike more visible when it's dark.

4KAAD [11.1/ D27] has long been

making bags for bicycle and outdoor brands. It has taken its own range to Eurobike, with particular emphasis on waterproof bags that are popular for bikepacking.

Andreas Bennert, who runs the business, said they stand out for their fabric. He reckons it's 10% to 15% lighter than regular TPU fabrics used for waterproof, welded bags. "It's a soft material that doesn't have the plastic look, and it's partly made from recycled material," he said.

The versatility of the Odense Nevada bag from **New Looxs [9.0/ C02]** comes from its dual function as a pannier and a backpack. With a special compartment for laptops, it's particularly suitable to ride to work or university. But it could easily be used to bring along a few belongings for a brief cycling adventure as well.

The bag is made of water-repellent polyester. It has coverable hooks and several pockets to stow your belongings, at the front and in the bag. ■ **BS**



Evolo has a range of bikepacking bags.

NEW PRODUCTS



ALEX RIMS BEB014 EBIKE- SPECIFIC HUB

A new rear hub, tailored specifically for eBike applications. It's built with three double-sealed cartridge bearings in the cassette body and two in the hub shell. This sturdy construction should guarantee stability and efficient power transfer from the high-torque motors found on modern eMTBs. An oversized chromoly steel axle also reduces wear on running surfaces, while a keyway drive ring design enhances load-handling capabilities. **9.1/ C09**



YAMAHA PW SERIES C2 MOTOR

Producing 55Nm of torque and weighing just 3kg, the new Yamaha PW series C2 mid-motor offers an excellent price-to-performance ratio for the entry-level segment. Developed from the successful PW-CE, this versatile new eBike motor is ideally suited to various applications, including urban commuting and weekend leisure riding. **8.0/ G04**



THUN MAMBO

Mambo is Thun's new BB set for children's bikes certified to ISO 4210 (city-trekking bike or mountain bike standard) featuring an extra-short spindle to ensure the smallest possible Q Factor. The MTB-version of Mambo comes with a deep-drilled and super light spindle. Currently, there is no bb-set in THUN's programme with a spindle that short and light and a price point so attractive. Mambo is available with a zinc-coated (A2B) steel spindle, threaded composite cups with shoulders (2S), and for 68 mm BB housings. **Hall 12.1/ D33**

ZF MICRO MOBILITY HMI CONTROLLER

This top tube-mounted core controller aims to provide a simple and intuitive user experience. Its elegant touch display and remote control promise to be exceptionally easy to use, giving cyclists full control at all times. While the core controller is necessary for all specs, the touch display and remote control can be integrated via ZF's plug-and-play system. **12.1/ A09**



VALEO CYCLEE EBIKE HMI PIXELRIDE

Introducing the Valeo Cyclee eBike HMI PixelRide, a reliable way to add security and enhance your cycling experience. This three-component system, which includes a smart dock, two-inch touch display, and rotary throttle remote, adapts effortlessly to various terrains. Utilising phone-as-a-key technology, your bike is secured within a two-metre range. Available in basic or premium packs, its sleek design suits urban or mountain adventures. **8.0/ G05**



NEW PRODUCTS

RIESE & MÜLLER DELITE5 GT PINION

The new Delite5 is an entirely new e-bike based on Riese & Müller's well-known full-suspension platform. Its innovative concept is multi-drive compatible, meaning, for the first time, the same frame can be equipped with different motors and battery systems. At the heart of the Delite5 is the Pinion MGU motor gearbox, with other systems to follow. The frame comprises over 30% ASI-certified recycled aluminium and is made in Portugal. **12.0 / A17**



SP CONNECT E-CAP SYSTEM

The E-Cap System simplifies smart device charging on e-bikes. It consists of the E-Cap Stem Mount, E-Cap Wireless Charging Module, and E-Cap Universal Charging Phone Clamp and offers cable-free charging and mounting. With integrated power contacts and broad compatibility, it ensures easy integration into e-bikes for convenient cycling and promises to enhance user experience and brand value for its adopters. **11.0 / C01**

HERRMANS NORDIC ENERGY

The Nordic Energy Battery pack fits all Herrmans' e-bike front lights in the Nordic series and allows you to easily add one to your bike regardless of whether it has electrical assistance. All necessary cables are included, along with Velcro straps for easy fixation. The pack's 5000mAh / 56Wh capacity provides generous usage times for each charge, with up to 22 hours when used with the Nordic MR5 or five and a half hours with the Nordic Pro. **12.1 / A06**



SMITH HARDLINE HELMET

A new feature-packed full-face helmet designed alongside world-class athlete Hannah Bergemann. The Hardline features an ultra-lightweight and breathable construction without compromising protection. It comes complete with Koroyd ventilated coverage, Mips Safety System, a patent-pending collar-bone impact protection zone, and a quick-release cheek pad system. Available in two shell models: a fiberglass composite version and a full carbon weave version, the latter is supposedly the lightest full carbon shell DH-caliber helmet to hit the market. **11.1 / C06**



ROECKL SPORTS ICON 2 GLOVES

Performance-oriented bikers seeking relief for numb, pressure-sensitive hands should find solace in the Icon 2. These high-end short-fingered gloves promise ergonomic design and unparalleled comfort. Featuring Roeckl Sports' innovative Bi-Fusion padding technology, they distribute pressure and weight evenly while absorbing vibrations and impacts. A breathable knitted backhand and tactile Roeckl-Grip palm ensure comfort. Additional features include seamless Comfort-Innovation padding on the thumb, a generous wipe, reflective elements, and a pull-off system for easy removal. Machine-washable at 30°C. **11.1 / C09**



WELLGO OMNI

Pedals are the only components on the bicycle where direct transmission of power is placed to propel a rider forward. Many current power meter measure output further away from where the direct contact takes place (cranks, hubs, bottom brackets). The Omni power pedal measures real data at the closest point of contact - the cleat and the pedal. The pedal measures and displays Power, Balance and Cadence data that are vital to analyzing performance in training and competition. Omni is available in CXR, Baldwin, M-Force 8, Thrust NXS, and Sonik. **Hall 12.1 / C22**



OFFICINE PAROLIN AGILIS POWER WORKBENCH

A stand made to solve the problem of e-bike weight and poor ergonomics while offering the stability of a traditional workbench. The Agilis Power Workbench allows you to work on any bike easily, from traditional racers to the most recent e-MTBs. Its electric motor effortlessly lifts any bicycle in just eight seconds. Its accessories kit contains numerous adapters and a patented fork-fixing system that simplifies maintenance or setup operations. **9.2 / B07**

DAHON SUPER PC24

Super PC24, the lightweight carbon fiber folding bike with Dahon D-VELO technology! Weighing only 8.1kg and supporting up to 105kg, it's sturdy yet agile. Made with T800-grade carbon fiber, DELTECH, and a Super Down-tube for maximum rigidity and pedal power. Featuring a 24-speed transmission, road bike-style handlebars, and a sleek frame for ultimate speed. **Hall 9.0 / F06**



TRIPEAK DURA TECH HEADSET

Maintaining and replacing the headset has always been a headache for bicycles with fully internal cable routing. The newly introduced Dura Tech headset aims to solve this problem. Its outer race is made of Teflon composite material, while the inner is stainless steel with a nano-coating that eliminates corrosion. The CNC machined races and G3 ceramic balls provide an excellent lube-free rolling surface. The result should be significantly increased durability with less regular servicing required. **11.1 / D20**



HERRMANS NORDIC CL3

The latest addition to Herrmans' Nordic light family. This entry-level front light boasts excellent build quality and a weatherproof design, meeting IPX4 standards with a light output of 30lux. Made in Finland, it embodies the firm's current design language, featuring a compact and minimalist aesthetic. Equipped with a collimator lens, it offers a small size, attractive price point, and impressive light pattern, delivering great value for urban bikes. Crafted from recycled plastic, it's suitable for e-bikes (6-12V) and dynamo (6V) power sources. **12.1 / A06**





D-VELO

Breaking Speed Barriers

DAHON's new "D-VELO" speed technology improves the rigidity of all bicycle frames, front forks and other components. So whether large or small-wheeled bicycle, it reaches unprecedented speeds.



Experience the
thrill of D-VELO at
Eurobike 2024

July 3rd - 7th
Messe Frankfurt, Germany

 **Hall 9, Stand F06**

NEW PRODUCTS



MULI CYCLES CARGO-AUFBAU

Muli Cycles introduces a robust upgrade for its original compact cargo bike, providing enhanced functionality. The new cargo body offers over 400 litres of loading space across a two-metre length, catering to commercial and private users seeking efficiency in a compact form. A lockable trunk and versatile loading area accommodate various transport systems like Euroboxes and Systainers. The base frame module ensures stability and adaptability for diverse usage needs, maintaining optimal driving performance. **8.0 / B28**

CLEVER STANDARD ANCHOR STACK AND BACON ANCHOR

A self-contained tubeless tyre repair tool system which is sustainable and reliable. Clever Standard's Anchor Stack and Bacon Anchor come in two models, one made of aluminium and the other made of plastic marine waste. Their patented design features an adaptable head to carry the bacon strip and anchor into the tyre. The aluminium anchors are reusable if you wish. **9.1 / D6**



CRODER CARBON CRANKSET

An ultra-light carbon crankset available in 145 to 165mm lengths. The Carbon Crankset from component supplier Croder weighs around 530g and includes one or two integrated chainrings. It matches a range of high-end bike styles and combines high-strength carbon fibre for durability with a refined and streamlined aesthetic. **11.1 / D09**



ARMOR E-SUV CARRIER - CARRIER THAT CARRIES SAFETY

Armor has over 50 years in bicycle manufacturing, exporting to 70+ countries from Taiwan, China, Vietnam, and Cambodia. Discover our e-SUV Integrated Frame Rear Carrier with sleek rear and front lights for enhanced visibility and safety. Perfect for urban commuting and outdoor adventures, this innovative design ensures 360° superior visibility and safety. **Hall 9.1 / A35**



BIKE FUN SUPERIOR XR BIKE

The XR aims to be one frame and two bikes. This carbon bike can adapt to become a Gran Fondo or Gravel platform. With clearance for 45mm tyres, these can be swapped down to transform it into a road bike. Whichever mode you choose, you'll benefit from a reduced weight compared to previous editions. Other features include a clean and minimalist design, hidden front axles and long, uncurved lines for a streamlined look. **11.0 / C10**

LI YI DA AIR SEAT

The Air Seat's full-floating saddle suspension system promises excellent shock-absorbing performance. It took ten years from the beginning of research and development to the product's launch. It aims to absorb road vibration, protect the rider's back and buttocks from excessive impact, and provide improved stability and control. The adjustable system is easy to install and works with conventional saddles and seatposts. A Reddot design award winner in 2024. **9.1 / G61**

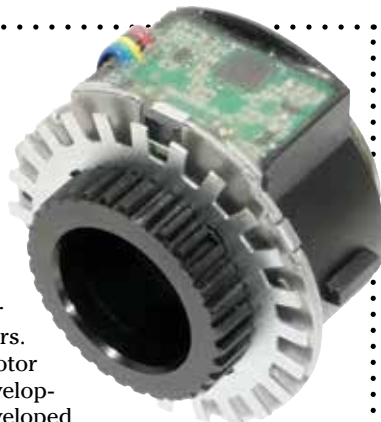


BAFANG M510 EBIKE DRIVE SYSTEM

Enhance your ride with the powerful Bafang M510 mid-motor system. Delivering 95Nm of torque, the M510 provides exceptional strength. It's designed for eMTB performance and supports a maximum cadence of up to 120rpm. The M510's smart control system promises smooth startups, strong acceleration, and sustained max power output, making it ideal for tough climbs and challenging trails. **8.0 / J16**

AUTORQ KOMPAKTORQ COMPACT TORQUE SENSOR

A new ready-to-use compact torque sensor specifically engineered for mid-drive motors. Responding to feedback from mid-drive motor manufacturers about the challenges of developing or sourcing torque sensors, Autorq developed KompakTorq to deliver the same levels of precision and reliability found in their bottom bracket torque sensors to mid-drive systems. This compact solution offers seamless integration, enabling mid-drive manufacturers to focus on refining other critical aspects of their drive systems while reducing bespoke development costs. **8.0 / I15**



DE.POWER TECHNOLOGY SUN-INTE-063 PEDELEC BATTERY

This easy-to-attach external-type battery from De.power Technology is ideal for powering practical pedelec bicycles. It offers a particularly high energy density yet remains light enough that it's easy to carry and exchange. If it needs to be serviced, the casing and cell design are easy and safe to disassemble. **8.0 / N17**



NEW PRODUCTS



ZHONGSHAN SPARD NEW ENERGY YT30208 BATTERY PACK

Zhongshan Spard New Energy's YT30208 36V 14Ah lithium-ion battery pack is assembled using Samsung 18650 brand cells. It's IPX4 waterproof, has IEC62133, EMC, EN19154 and ISO13849 certification, and has proved very popular in the EU and US markets. Alongside this model, you'll also find 48V and 36V 12.8Ah versions that include Underwriters Laboratories (UL) certification. **8.0 / H07**



JIN XIN YU POWER 42V 2A CHARGER

A professional-level 42V 2A battery charger that efficiently charges electric scooters, bikes, and skateboards. Its design ensures rapid recharging, keeping your vehicles fully powered for seamless journeys. Perfect for urban adventurers and eco-conscious commuters, this charger offers a reliable solution to stay connected, charged, and committed to sustainable travel practices. **9.1 / G24**



HK GACIRON KIWI-1200/800/400 FRONT LIGHTS

A range of three compact lights, the KiWi-1200, KiWi-800, and KiWi-400. Each features a StVZO cut-off line for reduced glare and comes in brightness levels of 1,200 lumens (KiWi-1200), 800 lumens (KiWi-800), and 400 lumens (KiWi-400). All models have a beam distance exceeding 200 meters, IPX6 water resistance, and C-C rechargeability with a built-in power bank. The KiWi-1200 model also supports wireless remote control for enhanced usability. **9.1 / B22**



SUZHOU I-BIKE TECH MOTOR KIT

This motor kit from Suzhou I-Bike Tech can be specified to include a broad range of components assembled for you or a customer to install, for instance, by being built into a ready-to-fit wheel. Products offered in the suite include the motor, controller, battery, brake, display, cables, rims, spokes, and sensors. **9.0 / F31**

SHENZHEN TRITEK LI-ION BATTERY CHARGER

Designed for 13-15S LFP/NMC batteries, this charger delivers a robust 547.5W output with an adjustable voltage of 48-58.8V and a 10A charge current. It features an IP54 rating and comprehensive protections, ensuring safety and reliability. Certified with CB, CE, and FCC, it includes CAN communication and DET signal detection for enhanced performance. **8.0 / N06**



ROYALBABY CYCLE EZ FREESTYLE 2-IN-1 BIKE

With the EZ Bike, kids can make remarkable progress in their biking skills and abilities, often mastering the basics in as little as 30 minutes. Its smart design features a quick-release crank system that allows you to seamlessly switch between balance bike and pedal bike modes in just a few minutes. A solid handle on the seat also allows adults to lend a stabilising hand if needed. **9.0 / F08**

TIANJIN DONGYA CHAIN E SERIES BICYCLE CHAIN

Tianjin Dongya Chain's E Series bicycle chains focus on super endurance for high mileage and high torque applications. Thanks to extensive anti-corrosion treatments, they're happy to work in all weather conditions and cut down on overall maintenance. The series offers a range of options with good compatibility across different drivetrain systems. **9.1 / C24c**



ZHEJIANG FUNDRIVE TECHNOLOGY PLANETARY REDUCER

Zhejiang Fundrive Technology is a specialist in the production of various gear parts. It offers solutions featuring small modulus and high precision. Its extensive expertise and production equipment allow it to apply a broad spectrum of processing technology to each project. Its planetary reducer offers low weight and a compact size. **9.2 / B08**



ZOVII ZNU14-230 ALARM U LOCK

This U-lock includes a 120dB anti-theft security alarm with manual arm and disarm functions. Its 14mm carbide-reinforced steel shackle provides robust protection against bolt cutters. Powered by a CR2 lithium battery lasting eight months to a year, it's compact at nine inches long and 2.6 pounds. The IP67 waterproof rating and vinyl coating ensure durability and corrosion resistance. Ideal for e-bikes, bicycles, motorcycles, and retail storefront doors. **9.1 / G09**



NEW PRODUCTS



4KAAD BEAT RACE GLASSES

The new Beat Race is a mono-lens design with an extra-light frame construction using TR90 material and a new innovative photochromic mirror lens. Its cylindrical shield lens provides a large field of vision, 100% UV protection, and high-impact resistance. Available in a wide range of colour options, the glasses come bundled with an extra clear lens to change for foggy and dark conditions.

11.1 / D27



ACER ES SERIES 7 E-SCOOTER

Acer's smart mobility line expands with the ES Series 7 E-scooter. Its 36-Volt / 500-Watt hub motor conquers 22% slopes, while dual-arm suspension ensures a smooth ride. It's equipped with a removable battery for unlimited ride time and ample capacity. A slim design, folding capability, and low weight make it ideal for urban users, including daily commuters. Safety is ensured by a front electric and rear disc brake along with integrated LED headlights. 9.0 / B06

BETO CFL-240SG15 STEEL FLOOR PUMP

The robust CFL-240SG15 Steel Floor Pump is ideal for high-volume tyres on mountain and electronic bikes. It features a 40mm steel barrel welded to a sturdy steel base, plus a one-metre-long hose for easy use. Its patented AH smart head fits Schrader and Presta valves, while a 3.5-inch pressure gauge with a pressure bleeder button ensures accurate readings. You'll also find a ball needle set inside its composite handle.

9.1 / C07



CYCPLUS L7 BIKE RADAR TAIL LIGHT

The Cycplus L7 Radar Tail Light can detect vehicles up to 160 meters away and provides real-time alerts to the rider via a compatible computer. These include data on the relative speed of approaching vehicles. Conventional performance is also assured via a 270° visibility angle, multiple light modes, brake sensing, and Peloton mode. All are backed by a 36-hour battery life and USB-C charging. 11.1 / A34



EUROFENDER ECO-FRIENDLY FENDERS

Eurofender is now able to produce its mudguards from 100% recycled PET. These sustainable alternatives offer cyclists the same lightweight, durable protection as the previous versions while reducing environmental impact. They're part of a range that promises to conserve resources while promoting a greener, more responsible approach to cycling gear, and that should appeal to eco-conscious consumers. 9.2 / C17



NEXTSCAPE ALTERLOCK

The Alterlock Gen3 is a new-generation anti-theft and tracking device that combines the latest IoT technology with a GPS tracking system to provide its users with security and peace of mind. When the device detects movement, a loud alarm sounds to deter theft, while the user is notified of the anomaly via the smartphone app. They can then rush to the vehicle or start tracking its location. 9.0 / B20b



SKARPER SKARPER DRIVE SYSTEM

Add electrical assistance with Skarper's click-on, click-off e-bike drive system. The device attaches to most regular bikes and provides drive via an upgraded rear disc rotor, transforming them into e-bikes in seconds. Assistance is added up to 25 kilometres per hour, and the range is claimed to be up to 60km. The unit weighs 3.3kg and includes an integrated battery, so it can be easily carried when not on the bike. F12 / G13



KTM SCARP LT 291

A 140mm travel cross and down-country version of KTM's Scarp Evo platform. The Scarp's racing heritage has fed through into the design of this alloy-framed bike. Developed from KTM's engineering expertise and race feedback, each model reflects the demands of elite racers. The Scarp earned praise for its meticulous attention to detail and technical excellence when it was tested at events like the Cape Epic and Mountainbike World Cup. 11.0 / C18



MARIN MOUNTAIN BIKES RIFT ZONE EL XR

The Rift Zone EL XR is the flagship of Marin's new lightweight trail eMTB lineup. It features a Series 4 aluminium frame with progressive geometry (65° head tube angle, 77° seat tube angle), 150/140mm travel, and a Bosch Performance Line XS drive unit with a 400Wh PowerTube battery. The bike is equipped with premium Fox suspension, an SRAM Eagle GX AXS drivetrain, and Magura MT7 brakes.

11.0 / A07



AVIIAV ALDO WHEELS

A set of carbon wheels utilising a unique aerodynamic shape. The sides of the Aldo's rims are designed to weaken the viscosity of the air and spread it to the left and right of the rim to minimise air resistance caused by spoke rotation. This is matched to a 50mm depth, tubeless compatibility, and Toray T800 H / UIN-150A carbon construction.

9.1 / E18

BEMOOV BIKES CS24 CITY SPORT BIKE

Get your kids off to a good start with a bike that properly addresses their needs. The S24 City Sport bike echoes the features found on practical adult bikes, allowing smaller riders to commute to school in complete safety. It has a sporty look but is equipped for city use, with a luggage rack, mudguards, kickstand and optional lighting. 9.0 / A19



NEW PRODUCTS



VREDESTEIN AVENTURA SETA TYRE

Netherlands-based tyre maker Vredestein has designed the new Aventura Seta tyre to match smooth and fast gravel courses. It's also ideal for combining asphalt and hardpack surfaces. Its low and fast centre tread profile combines with small shoulder knobs to give you grip and confidence. Available in all-black and tan wall versions and 38 or 44-mm wide 700c sizes. **11.1 / A08**



VELLO SUB ULTRALIGHT COMPACT E-CARGO BIKE

The Vello SUB (Smart Utility Bike) is among the lightest longtail e-cargo bikes, powered by a strong Bosch motor and a large battery for effortless daily tasks. Its lightweight design allows easy lifting, with tool-free adjustments for versatile use. Foldable elements and a 180cm standard length enable space-saving transport on public transit or in car trunks. A durable Chromoly frame is ideal for urban commuting and heavy-duty tasks, simplifying the transportation of goods and passengers. **12.0 / B12**

MING LUN SPORTS FXF112 FOLDING BIKE FRONT HUB

A readily adaptable and lightweight front hub designed specifically for folding bikes. This 75-gram unit is based around a 9mm axle, spins on twin sealed cartridge bearings, and is held in place by M6 bolts. A range of interchangeable alloy end caps allows it to cover 74, 84, 90, 95, and 100mm OLD spacings. Available in 10, 16, and 20-hole spoke drillings. **9.2 / C18**

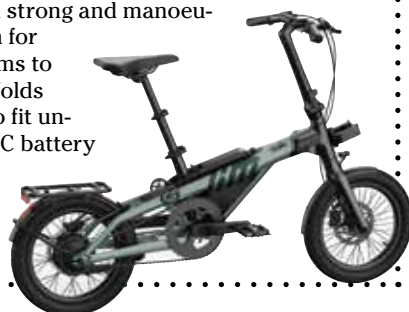


SON 29 S DYNAMO HUB

An incredibly sleek, low-profile dynamo with an optimised generator capable of producing a nominal six Volt / three Watt output even at comparatively low speed. It's fully compatible with German StVZO legal regulations, even when used with 29-inch wheels. Together with smart charging electronics, it enables especially high power output. A lacing pattern with straight pull spokes achieves the ideal balance between stiffness, load capacity and weight. **12.1 / A01b**

O2FEEL JIM FOLDING BIKE

A new electric folding bike based around strong and manoeuvrable 16-inch wheels. JIM is an acronym for Journey Is Mine, and the bike's design aims to turn every journey into an adventure. It folds and unfolds easily and is small enough to fit under a desk. The bike's rechargeable USB-C battery allows you to charge your devices on the go. Equipped with integrated lights and a Bafang motor with two speeds, it weighs only 18kg. **12.0 / C07**



AEROZINE RS SERIES TAIL-LIGHT DROPPER POST

The world's first integrated tail light dropper post. The innovative RS Series dropper post uses a quick connector to power its light directly from your e-bike's battery, eliminating the need for spare batteries or worrying about losing your light set. The mechanical dropper operates smoothly and features a smart automatic centring system for easy seat installation. Designed for pavement and trail use, it promises reliability in all weather conditions and requires no special tools for installation. **9.1 / E42**



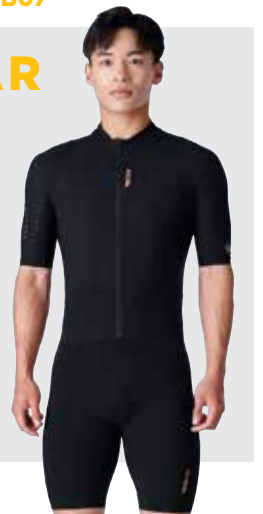
FEEDBACK SPORTS HEX AND TORX SETS

An essential addition to the tool kits of professional and DIY mechanics alike. The premium set of nine metric Hex (Allen) wrenches includes all the standard sizes from 1.5mm to 10mm, and the nine Torx wrenches include all the common sizes from T10 to T50, covering a wide range of applications, including large-format fasteners often found on ebikes. Both sets are made from durable S2 steel for long life and precise working edges. Anti-slip ribbed heads and faceted ball ends on the Hex set give positive engagement with fasteners. **11.0 / B14**



SOBIKE SPORTSWEAR ULTRA-LIGHT SKINSUIT

SOBIKE Sportswear's Micro Weight Collection is about 19% lighter than its All Condition Collection yet retains similar functionality. Its ability to manage perspiration is also 11% higher, making the Micro Weight Collection the best choice for hot weather and intense efforts. The collection is made of breathable ultra-light mesh fabric to keep the wearer dry and achieve a comfortable experience. **9.1 / C24**



E2 DRIVES OWARU MOTOR

The Owaru motor's standout feature is its Electronic Continuous Variable Transmission (ECTV). By integrating two motors with a planetary gearset, it functions as a dual-purpose unit, providing both assistance to the rider and acting as a stepless transmission. This setup enables continuous gear ratio adjustment, ensuring fluid and efficient power transfer. Specs include 600W peak power, 65-120Nm motor torque, 375% max support, and a 310% gear shift range. The overall module weight is 4.6kg, which covers both gearing and drive. **F12 / G26**



SQUIRE STRONGHOLD D16 MAX

A maximum security anti-angle grinder D-Lock, approved by Sold Secure with a Powered Cycle Diamond rating. This British-made, ultra-tough bicycle lock offers extreme resistance to angle grinder attacks, featuring a 16mm boron-hardened steel shackle, reinforced anti-angle grinder armouring material encased in a durable TPE moulding, and a 25mm thick hardened steel high-security lock body. Locking is taken care of by a precision-engineered, high-security six-pin key cylinder with a restricted section key system. **12.1 / B07**

NEW PRODUCTS



AVS ELECTRONICS RC7 DISPLAY

This innovative display features a high-contrast greyscale LCD that delivers quick refresh rates, outstanding sunlight readability, a 120° viewing angle, and all-weather IP56 resistance. With dedicated function and data screens, important info, including speed, assist mode, battery charge status, and system errors, is clearly displayed. Additional features include an ambient and IR light sensor, backlit buttons, and options like BLE and NFC. **8.0 / M26**

ASS MAGIC CHAMOIS CREAM TRAVEL PACK

Ass Magic's Chamois Cream Travel Pack brings the firm's chamois cream to you in a convenient, easy-to-use, travel-friendly packaging. In the box, you'll find ten individual 8ml servings of Ass Magic's lanolin and beeswax-based chamois cream, which can be applied directly or added to your shorts or other high-friction areas.

Perfect for race days or any time you're away from home. **8.0 / B50**



VEE TIRE GRAVEL LINE

Vee Tire's new gravel range has been designed from the ground up with the needs of modern-day gravel riders in mind. Whether you prefer smooth gravel roads or wilderness single-tracks, it aims to have you covered with three different patterns to suit all riding styles. These are the fast-rolling Quickstyk, mixed-condition Taistyk, and aggressive Rail Frenzy. All are available with striking coloured sidewalls. **12.1 / A03B**



URTOPIA FUSION BIKE

A powerful adventure touring e-bike by designer Hartmut Esslinger that offers a natural ride with fat tyres and a potent mid-motor. Guided by the idea that form follows emotion, this step-through design aims to deliver top-quality performance at a reasonable price. Features include a movement alarm, GPS tracking and fence, fingerprint unlock, navigation without a cellphone, data tracking, voice control, and Bluetooth music. **8.0 / E16**

ELECTRIC BICYCLE INNOVATION URBAN(AGILE) ELECTRONIC DERAILLEUR

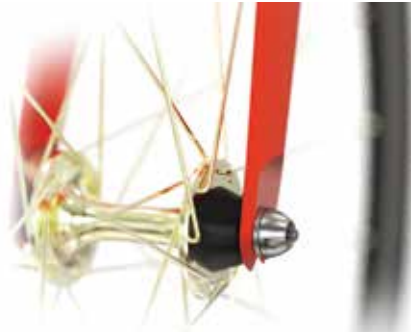
This electronic derailleur features a millisecond-class angle sensor for precise, smooth shifting. It offers flexible wired and wireless modules, automatic gearshifting for varied conditions, and compatibility with city and mountain bikes. It features impact functions to enhance shifting techniques and supports up to 12 speeds. It comes complete with an ergonomic handlebar shifter unit with two large tactile buttons. **8.0 / K34**



AQUA2GO EVO PRESSURE CLEANER



Aqua2Go's most powerful battery-powered high-pressure cleaner delivers 30, 40, and 60 bar options. It operates without fixed power or water connections and is made for home, travel, and outdoor use. With 50 minutes of continuous use at the lowest setting and 30 minutes at the highest setting, it features a removable 2600mAh lithium-ion battery. It's designed for mobility and includes a handle and wheels, making it easy to move and store. **8.0 / E42**



SEATYLOCK X-LOCK SYSTEM

A series of products designed to protect unsecured bike accessories, such as wheels and saddles. The X-Lock system includes axle bolts to replace insecure quick-release axles, axle nuts for solid-axle wheels, and a seat-post clamp designed to secure the saddle and prevent theft. Each component is meticulously engineered to offer dependable theft protection, ensuring peace of mind for cyclists. **11.1 / D11**



HI-LIGHT RA1 TITANIUM ROAD DISC FRAME

A radical 3D-printed frame from the world's largest producer of titanium bicycles. Made from 6Al/4V Ti (Grade 5) material, this frame was entirely produced in-house, from design to finite element analysis, optimisation, and final verification. It weighs approximately 1.5 kg and has passed all necessary machine fatigue tests. Despite striking looks, the base design is conservative, allowing further improvement in collaboration with customers, while its affordable pricing supports mass production. **9.2 / C16**



KT TAIWAN INTER-GEAR 3-SPEED DISC HUB

A simple and reliable three-speed hub with disc brake fitting. KT Taiwan has seen particular demand for this type of product, a development driven partly by the trend for lower-maintenance consumer bikes and partly by their increasing use on fleet and rental machines. This widely adaptable version features broad compatibility thanks to a secure nutted axle and internal push-rod activation. **9.1 / G31**

ALHONGA HF-522 SERIES BRAKE

The HF-522 series offers versatile disc brakes based around an open system with a powerful four-piston design. Their easy-to-maintain construction is backed by the use of user-friendly, non-corrosive mineral oil for the brake's hydraulic medium. Each lever features a two- or four-finger blade, reach adjustment and an easy-fit two-piece bracket. They're also available with I-spec and Matchmaker fittings for a minimalist cockpit when used alongside Sram or Shimano components. **9.1 / A41**



GOFLUO DARKFLOW VEST

A fun and stylish take on a classic safety vest designed to put both the wearer and passers-by in a good mood. The Darkflow's bright rainbow colours will make you stand out during the day, while the reflective fabric shines bright at night. This hi-vis vest is tailored to the daily commute, as it's designed with a longer back, hoodie, and two-way zip. It also features a pocket in the side hem that can be used for your phone or keys. **11.1 / D14**



NEW PRODUCTS



TEZEUS TECHNOLOGY TEZEUS C8

The Tezeus C8 electric bike features a 250W 60Nm mid-drive motor emitting less than 50dB. It includes a five-inch touchscreen integrated with a smart OS offering OTA upgrades. A self-developed magnetic taillight with millimetre wave radar enhances safety by detecting risks. Intelligent safety algorithms further ensure secure riding. The bike boasts an anti-theft function for added security. Its full carbon fibre frame weighs just 15kg and includes internal cable routing for a sleek appearance. **12.0 / C36**

ZHEJIANG FUNDRIVE TECHNOLOGY METAL GEARS

Zhejiang Fundrive Technology is a specialist in the production of metal gear parts. It offers solutions featuring small modulus and high precision. Its extensive expertise and production equipment allow it to apply a broad spectrum of processing technology to

each project. These are particularly applicable to motor and gearbox production. **9.2 / B08**



S-RIDE BICYCLE COMPONENTS K500 SHIFTER FOR WOMEN

S-Ride Bicycle Components' K500 shifter considers the ergonomics of women's hands. It works with a modern twin-lever system and is better suited to smaller hands. It also requires less effort to activate. These features make it particularly suited to inclusion on women-specific bikes. It works seamlessly with the rest of the S-Ride Bicycle Components range. **9.1 / A39**

ZOVII ZFG ALARM FOLDING LOCK

This stainless folding bike lock features a built-in 120dB security alarm with a 360-degree motion and shock sensor. It allows for the selection of alarm functions between Arm and Disarm modes. The lock includes tough 3mm folding plates, an extra-soft coating to protect paintwork, and a durable stainless steel lock body. Its disc-style cylinder boasts a high pick and drill resistance level and carries an IP67 waterproof rating. **9.1 / G09**



LUMI GRAVITY BIKE STAND

The Gravity Bike Stand offers easy bike storage and display. Holds up to two bikes securely without wall mounting. Its sleek, space-saving design fits any room, and sturdy steel construction ensures durability. It's easy to assemble and adjust, making it ideal for apartments, garages or homes. Maximises space while keeping bikes accessible. **9.1 / B15**



SHANGHAI LUM BRAND MANAGEMENT V3 BIKE

This electric bike's rounded design and ergonomic saddle aim to offer enhanced comfort and reduced fatigue on long rides. Its style caters to users seeking a balance of aesthetics and functionality. The bike's features and user-friendly design also target riders who prioritise performance and visual appeal. This comprehensive blend of comfort, style, and practicality aims to ensure an enjoyable riding experience for a wide range of users. **F11 / B05**



SHENZHEN TOPBAND EBIKE BATTERY

This range of in-tube and supplementary external batteries allows greater versatility when designing bicycles and the ability to tailor range and capacity for the consumer. The larger of the two can be locked securely into the downtube, while the supplementary unit is easy to remove and carry with you. Both versions offer effective co-working, good stability, less heating, and low resistance. **9.0 / K17**



TIANJIN WANDA TYRE ROCKET BUNNY TUBELESS-READY ROAD TYRE

A sport and race-focused road bike tyre. The Rocket Bunny's smooth contact patch and light tread have been engineered to reduce rolling resistance and improve efficiency. Additional cornering ability is balanced by the special design of arrow-shaped grooves, which reduce vibration and increase stability. Tubeless-ready technology aims for easy setup on hooked and hookless rims, with an internal width of 19 to 22mm recommended for the best configuration. **9.1 / B26**



SHENZHEN TRITEK CARGO-BIKE BATTERY

This cargo bike battery ensures unmatched flexibility with an IP67 rating, hot-swapping capability, and parallel support for between two to seven batteries. Available in LFP and NCM variants, it offers up to 1,512Wh power, supports regenerative braking, and powers motors from 1,000-2,000 watts. Compact, lightweight, and durable, it guarantees exceptional performance and longevity with international certifications. **8.0 / N06**



CYBIC INTELLIGENT TECHNOLOGY AT26 BIKE

A smart multi-terrain ebike that accommodates twin 672Wh batteries, one in the downtube and one behind the seat tube. These provide ample power to drive a bike that includes oversized tyres, front suspension, and integrated lighting. Comes with a single-chainring drivetrain, full-length mudguards, and hydraulic disc brakes. **9.0 / D17**



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SHOW DAILY

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NEW PRODUCTS

ZHENGZHOU DYU TECHNOLOGY

DYU C1 ELECTRIC CITY BIKE



This cargo-capable city bike features a streamlined and powerful design with a low-step-through single-beam frame that aims to enhance comfort and flexibility. It utilises wide 26 x 2.5-inch tyres and a shock-absorbing front fork, ensuring stable riding. The bike includes an integrated battery with a capacity of 36V 10AH, greatly extending its range. It's equipped with a 350W high-speed brushless geared hub motor for strong and effective performance. **F11 / C13**

TRIPEAK DURA TECH HEADSET



For bicycles with fully internal cable routing, maintaining and replacing the headset has always been a headache. The newly introduced Dura Tech headset solves this problem. The outer race of the Dura Tech HS is made of Teflon composite material, while the inner race is stainless steel with Nano Coating, eliminating the corrosion and extending the lifespan. The CNC machined races and G3 ceramic bearings provide an excellent lubeless rolling surface. The headset significantly extends maintenance intervals and durability. **Hall 11.1 / D20**

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