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06-07 TBW Host Welcome Dinner Party

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22-25 New Product Gallery

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44-45 Sightseeing in Taichung



2017 TBW THE SPLENDOR HOTEL **300TH NO. 1123**

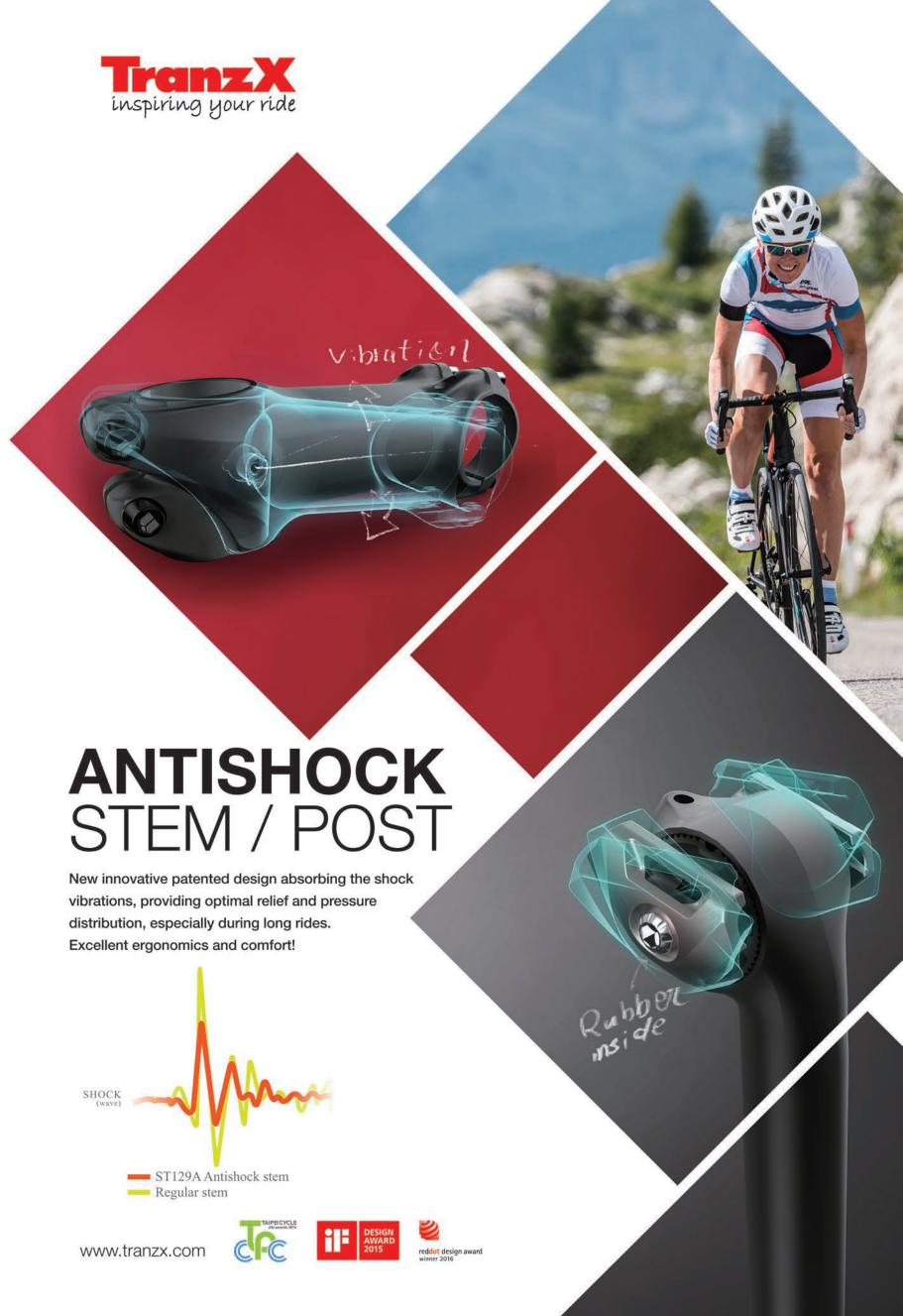




NEW Rove 5Vx3A=15W Dynamo Hub Power Generator-UPS System



共享单车专用BB轴心 (可月供150万组)





Tuesday, October 18, 2017

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City Officials & Bike Industry Enjoy TBW Welcome Party

esterday evening, October 17, after the first day of the show, TBW organizers and Taichung city government officials welcomed visitors and exhibitors to Taichung Bike Week at a Welcome Dinner held in the Starlight Hall of the Lin Hotel.

The dinner was attended by about 200 people, mostly from the domestic and foreign bicycle industry. Representatives of the Taichung city government included: Taichung City Mayor, Lin Chia-Lung; IDIPC Director, David Tsai, IDIPC Deputy Directors, Alex Wei and Steven Tsai; Taichung City Government Economic Development Bureau Senior Executive Officer, Charlie Chiang and

Taichung City Government Tourism Bureau Deputy Director-General, Chen Yu-Cheng.

At the dinner, Mayor Lin, Chia-Lung welcomed the bike industry, and thanked everyone for coming to Taichung, helping to make it into a bike city and for helping to build TBW into one of the world's most professional exhibitions.

Amongst the many bicycle industry VIPs in attendance were: Giant CEO, Bonnie Tu; TBA Chairman and Merida President, Michael Tseng; Kenda Rubber President, Yang Ying-Ming; SR Suntour President, Daisuke Kobayashi; Marwi President, Partick Pai; Ming Cycle, Vice General Manager Jim Chang; Decathlon

Purchasing Director, Didier Morelle; Specialized Executive VP, Bob Margevicius and FSA (USA) Managing Director, Lance Bohlen and Bosch eBike Systems Asia Pacific General Manager, Bennini Fouad.

TBA Chairman & Merida President, Michael Tseng made a short speech in which he commented that Taiwan was a world leader of trends in the bicycle industry, and expressed his hope that it would continue to progress. He thanked the guests for coming and wished them a pleasant evening.

Wheel Giant President and TBW Co-Organizer, Grace Ruan, spoke to say that Taichung Bike Week has become a unique annual OEM



▲ Taichung Mayor, Lin Chia-Lung said he hopes everyone can work hard to build Taichung into a bicycle city.

event in the bicycle industry. Coupled with the Taichung City Government and Taichung City IDIPC support, she hoped the event can continue to develop steadily in the future. *WG



▲ Front row from the left: TBA Secretary-General, Gina Chang; IDIPC Deputy Director, Alex Wei; Eurobike Head, Stefan Reisinger; Ming Cycle, Vice General Manager, Jim Chang; Taichung City Mayor, Lin Chia-Lung; Liow Ko Sales Manger, Jennifer Chen; Transart Marketing Manager, Olivia Hung; Transart Creative Director & Executive Secretary to the President, Melanie Hung and Lee Chi Vice-General Manager, Karin Lin. Back row from left: Cheng Hsin Rubber Manager, Gary Ko; Go Accelerate CEO, Ivo de Wit; SR Suntour General Manager, Takamura Ryutaro; Lanxi Wheel Top President, Song Fu Chiang; SRAM Asia General Manager, Bob Chen; Ideal Bike Special Assistant to the General Manager, He Yo Fu and IDIPC Deputy Director, Steven Tsai pose for a group photo.



▲TBA Chairman and Merida President, Michael Tseng commented that Taiwan was a world leader of trends in the bicycle industry and expressed his hope that it would continue to progress.



▲ From left: IDIPC Director, David Tsai; Marwi President, Partick Pai and IDIPC Deputy Director, Steven Tsai.



Latest Innovations Inspire New Kenda Tires

ot content to rest on their laurels, leading Taiwanese tire manufacturer Kenda has spent a busy and successful R&D year developing two new technologies which raise the bar for tire performance. The company has also launched two new tires designed to make full use of these new technologies.

Kenda Vector Shield (KVS) – Innovative Gravity Casing

Developed in joint cooperation with Kenda's North American and Taiwanese engineering teams at the Kenda America Technology Center, KVS is a woven sheet of aramid fibers laid up across the sidewall of a tire, offering a light-weight casing shield with a 285% higher cut resistance than standard protective materials. This allows for a reduction in the casing weight by up to 200 grams when compared to traditional 2-ply downhill casings.

RSR Compound – sticky compound for racing

Kenda developed a new compound for gravity tires an evolution of the existing Race Stick-E Rubber (RSR) compound. Building on the impressive original, the new RSR compound is a dual layer tread rubber, with the soft RSR compound on top and the stiff SRC on the bottom. This new dual layer compound offers better performance because the stiff bottom SRC layer serves as a hard foundation for the softer RSR layer to push against. The result is a compound that provides better control and lasts longer than previous versions.



Hellkat - downhill racing tire

The Hellkat Pro is an all-new downhill racing tire, developed in collaboration with professionals on the UR Team with decades of experience on the World Cup circuit. The Hellkat Pro is characterized by superior braking control and cornering traction, without sacrificing rolling resistance performance. Additional emphasis has been placed on the overall weight of the tire, the elimination of punctures and casing fractures, and construction, all to yield the best results when run tubeless.

Helldiver - versatile, fast & lightweight gravity tire for dry conditions

The Helldiver is a modern take on the fast rolling, dry condition gravity tire with aggressive side knobs. Versatile, quick, and lightweight with great grip when cornering, it was developed in conjunction with Kenda engineering teams in Taiwan and North America, as well as with the cooperation of the UCI World Cup downhill UR Racing Team.

Nevegal2 K1211

Over a decade after its original release, the Nevegal gets a complete makeover that leaves no aspect of the tire unchanged. The beefy tread pattern was updated for less rolling resistance while a new **EN-DTC** compound balances wear and grip, letting the knobs do the work of control and braking on the ground. The new Nevegal's casing benefits from the latest material technology featuring the Advanced Trail Casing optimized for enduro riding. **WG**

Alexrims Bring Hub Production In-House

lexrims introduced a host of new products during 2017 showcasing its new rim and hub manufacturing technologies and a focus toward road disc, gravel and cyclocross categories. The latest road disc wheelsets in the lineup include the ALX 845D and 835D. As their name suggests, these wheels are 700c x 45mm and 35mm deep section rims respectively. They are manufactured from unidirectional carbon fiber laced to disc hubs. The 25mm rim widths are ideal for competitive road racing with disc brake compatible frames. On the alloy end of the spectrum, two new models of gravel wheels are added to the line: The Boondocks 3 and RXD3. Both wheels use the same primary construction with a proprietary aluminum alloy rim that is 25mm wide and 30mm tall. This medium height rim is perfect for maintaining a stiff ride with enough compliance when the pavement ends to reduce fatigue and unwanted vibration. The Boondocks 3 has a slightly more robust build with 28 spokes front and rear weighing in at 1578 grams, while the RXD3 utilizes just 24 spokes with front and rear wheels weighing just 1550 grams.



Additionally, Alexrims has also invested in a hub manufacturing facility that brings quality control and technological development under one roof. General Manager Sally Hsieh said that now almost all of Alexrims wheels products use their own hubs. She believes that as hubs are an indispensable part of the wheel group, and that hubs, wheels and spokes must work closely together, having its own production allows Alex to achieve even higher precision and more comprehensive control of quality.



all of Alexrims wheels products, use their own hubs

Alexrims have also started a new brand for its hubs called Bear Pawls (www.bear-pawls. com) offering everything from traditional lightweight road hubs to class-leading enduro hubs with boost spacing. The latest innovations include toolfree cassette body removal and an innovative anti-bite guard cladding for the lightweight alloy cassette bodies. There are several hub styles to choose from for road and off-road use including disc, road disc, straight pull or traditional flange, conventional and boost spacing.

For more information, visit Alexrims at Taichung Bike Week at the Evergreen Hotel Room C1-C2 or visit www.alexrims. com. WG



KT's Groundbreaking New Hubs

ith 70 years of history, KT has constantly kept up with the times through innovative R&D. Keeping up with market trends at this year's TBW, KT Taiwan, and partners Full Reach and Chun Hong, are introducing internal shift hubs and secondgeneration dynamo hubs, which demonstrates their impressive R&D capabilities.

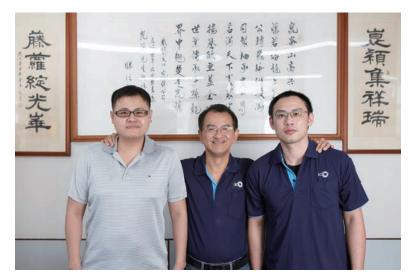
Internal Shift 3-speed Hubs

According to Full Reach general manager, Derek Liao, although branded bicycle firms choosing to use internal shift hubs could only depend on overseas suppliers for a long time, and often had to put up with long delivery times, now KT Taiwan and Full Reach have cooperatively developed new internal shift hubs. KT Taiwan possesses extensive production experience as well as cold forging and CNC processing technology, and has also achieved a high level of self-made content. At the same time, KT has also acquired horizontal forging equipment from Sakamura Machine, and its continuous cold forging technology enables it to ensure excellent precision in its products. KT's one-step molding of the central tube in its 3-speed hubs dramatically reduces volume and weight, enabling them to achieve a weight of 901 grams. In addition, overall stiffness and durability are very high, and prices are highly competitive.

KT is currently performing full inspections of the hubs using its automated visual inspection equipment, and expects to begin shipments in February 2018. Lead time is projected to be 90 days, and the company plans to initially produce 300,000-400,000 hubs annually. As for product specs, only 3-speed hubs will be produced at first, with V-brake, disc and drum brake versions all being offered. KT doesn't rule out producing 5-speed and 7-speed versions in the future, and may also add an automatic shifting feature.

Innovative Dynamo Hubs

According Chun Hong GM, Eagle Rau, the 6V 3W dynamo hubs developed by the company during the last few years are finding favor with well-known manufacturers. To ensure that bikes with all types of quick release specifications can experience the convenience of dynamo hubs, KT Taiwan and Chun Hong have designed their



▲ From the left: Full Reach GM. Derek Liao: KT Taiwan President. Hubert Chen and Chun Hong GM, Eagle Rau

hubs with an interchangeable side cover structure and a 15mm axle, but it is only necessary to change the side covers on both sides to convert the hubs to a 12mm axle or ordinary quick release specifications. As a result, the hubs are suitable for front fork widths of 100mm, 110mm, and 150mm, which allows them to satisfy the needs of current bicycle fashion trends. GM Rau emphasized that because the design allows the hubs to be compatible with all types of quick release specifications and fork widths through a simple replacement process, they can effectively reduce development costs. The dynamo hubs are currently available in two types that are respectively compatible with

center-locking disc brakes and international-standard six-hole disc brakes. In addition, KT and Chun Hong are jointly engaged in the development of highpower dynamo hubs. **®WG**



▲ While the dynamo hubs are produced with 15mm axle specifications, switching the side covers gives some compatibility with 12mm axle specifications or ordinary quick releases



▲KT's internal shift 3-speed hubs are made using continuous cold forging technology, which ensures superb precision



▲ The dynamo hubs are compatible with front fork widths of 100mm, 110mm, and 150mm



▲The central tube of KT's internal shift 3-speed hubs are manufactured in a one-step molding process, and have a weight of 901g.

Samox's Brand-new Chainwheel and Crank Sets







▲The R7 carbon fiber cranks feature one-piece molding technology and weigh 590g.

▲ Samox cranks and claws are compatible with Shimano motors.

Everything Needed for Electrically-assisted Systems

Responding to market diversification, up-to-date Samox has spent 2017 diligently performing R&D with the aim of meeting customers' needs and providing even more customization options. In view of the growing popularity of e-bikes, Samox has introduced chainwheels and cranks with different chain lines and BCDs that are compatible with many leading makers' electrical assist systems and meet the wide-ranging needs of the aftermarket. Samox's general manager emphasized that the company can provide products that are compatible with Dapu, Bosch, Brose, Nidec, Shimano, Yamaha, Bafang, and Fazua systems.

Samox R7 carbon fiber cranks

Apart from products made using its forging technology, Samox has also introduced carbon fiber cranks. Its newest R7 carbon fiber cranks for road bikes employ a hollow design to reduce weight, and are compatible with one-piece molded two-ring chainwheels. Chainwheel thickness has been increased to 8mm, and the pattern has a reinforced design to boost stiffness. As a result, when cyclists are sprinting, more of their force is transmitted directly to the wheels.

Direct Locking Singlering Chainrings

Addressing the trend toward single-ring gear systems in MTBs, Samox is offering products compatible with different specifications. Realizing that conventional square axles



▲ Samox's direct locking chainwheels

(square holes) are not compatible with mainstream axles, Samox has stopped production of square axle specification products. In addition, it has also shifted from the use of claw discs to attach chainwheels to direct fastening of

cranks and chainwheels, which allows cyclists to apply force as directly as possible. Because there is no intermediary between the chainwheel and cranks, power is transmitted straight from the cyclist to the wheels. ***WG**



Taya Introduces Galaxy Nanometer Plating Technology

aya Chain's key technologies, which include its DHT selflubricating hardening technology and GST environmentallyfriendly rust-prevention technology, make its chains especially suitable for e-bikes. As a result, Taya has been fielding a growing amount of inquiries at recent trade shows. The Galaxy Nanometer plating technology recently introduced by Taya emphasizes durability and environmental-friendliness, and is boosting the company's brand image.

In the case of e-bikes, because their electric motors generate high torque, chainwheels and chains often have insufficient strength to withstand the force placed on them, and tend to break easily. Taya's DHT self-lubricating hardening technology can increase the hardness of e-bike chains by 25%, which, together with the use of 360° riveting,

ensures a better product. As a result, regardless if used with an internal shift or 11-speed system, Taya's chains can withstand long-term use without problems. Another issue is that as many e-bikes are kept outside, exposed to the sun and rain, their chains and other external parts will rust readily. Addressing this problem, Taya's GST environmentally-friendly anti-rust technology can not only be used on chains, but also on other hardware parts, and can give parts either a silver or a black finish. This anti-rust technology can be used on crank screws, bottom brackets, and water bottle screws. While surface treatments can be readily scratched during assembly, GST technology both resists scratching and protects against rust.

Taya has relied on the sponsorship of professional cyclists to increase its brand recognition and reputation,



▲ Taya's 1 x 12-speed chain employs "Galaxy nanometer plating," which imparts both flash and dirt

which has induced more professional teams to accept and use its chain products. In order to meet the tough demands that professional cyclists place on chains, Taya has recently developed a 1 x 12-speed chain. The higher the speed grade of a chain, the narrower the gaps and the less material used, but strength demands are even greater. Taya has also developed the new "Galaxy nanometer plating" technology, which ensures that chains are both attention-getting and

dirt-resistant. Galaxy enables chains to resist dirt, making them easy to clean, and also increases abrasion-resistance. It gives chains an appearance like a starry sky. Galaxy gives purely utilitarian chains greater appeal, and lets cyclists display their individuality. In addition, Galaxy technology involves the use of an environmentallyfriendly plasma chemical coating technology that both protects the environment and increases chain life. **®WG**





Humpert to Celebrate 100th Anniversary

ext year, German handlebar and component manufacturer Humpert will celebrate its 100th year in business. Founded in 1918 at the end of the first world war by Wilhem Humpert I, the first products made at Humpert's tiny new factory in Wickede included wooden bicycle grips, foot pumps and hand pumps, as well as bicycle racks. Sales were initially moderate until production was converted to handlebars in the year 1923, but this switch led to the boost in turnover for which the company was looking.

With the acquisition of a neighboring building and the construction of a connecting hall the company rounded off its present production infrastructure in the year 2003, and in 2011 its second field of operations—contract electroplating, was expanded further by joint CEO, Ralf Humpert.

Today, at its Wickede plant, a workforce of around

100 produce up to 2 million bicycle handlebars per year from steel, stainless steel and aluminum. Production of the ergotec handlebars is nowadays fully automated in the areas of cutting, deburring and brushing, as well as stacking, widening and reducing, together with knurling, product marking and the subsequent bending process. The in-house surface finishing operations are also fully automated, with only the attachments to the handlebars being fitted manually.

In spite of this ongoing automation, the workforce is still a highly important element at this traditional Wickede family company. Accordingly, the management looks forward every year to the opportunity to honour staff who have supported the company with decades of service. At Humpert, training also takes top priority, with many of those who initially served their apprenticeships in the commercial or stores

management fields now occupying management posts within the company.

Whereas in previous generations the market was basically limited to Germany and the Netherlands, today many EU countries are supplied with

Ergotec brand articles from the production facility in Wickede. As a result, for many customers the black and red trucks which provide reliable deliveries of ergotec products are a familiar and welcome sight. ***WG**



▲ Wilhelm Walter (Wilhelm IV. – geb. 1962) and Ralf Thomas Humpert (geb. 1970)



▲ Humpert has designed a centennial bicycle bell to show its appreciation to customers and dealers.





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G80 is a completely new concept in gravel bikes, utilizing a rear and front suspension system. An extremely efficient 80mm front and rear suspension system reduces vibration and brings the maximum speed and reduced fatigue during endurance gravel road riding. While being faster on the dirt the bike is also great on the roads sprinting and cornering not unlike its full road bike family roots.

Deda Elementi Getting into Gravel

n the Tempus hotel (A-B1-C Hall), Deda Elementi has several interesting new product developments which it is introducing to customers. For gravel racing/riding, Deda has produced its Gravel 100 handlebar. An evolution of the company's renowned Zero100 road bar, the Gravel 100 is based on the RHM shape to maintain short reach, while a 12° flare at the drops offers more stability and preserves a typical drop bar brake/shifter feel. The slightly aero top section is designed to be ergonomic, allowing for comfortable hand positioning. The Gravel 100 is available in four different sizes:

40, 42, 44 and 46 cm (widths measured outside-to-outside at the lever position)

Believing that color is coming back to bikes and components, Deda has also given its premium aero cockpit, the Superzero, completely new artwork with a wide range of finishes. The 3-piece Superzero kit, including handlebar, stem and seatpost, will be available in POB, Team, White, Blue and Orange finishes. Additionally, Deda added a new 40cm size (outside-to-outside) for the Superzero carbon, following the high demand for narrow handlebars. **WG**





▲ Deda's Superzero is getting a new range of color options

Massload's MIK Carrier System



▲ Massload's Assistant Vice-President, Julie Chung(right) together with Edison Chung(left) display the company's new MIK System.

assload has developed a clamping system allowing riders to quickly and easily attach bags, baskets and panniers to the carrier. The MIK system was developed in cooperation with renowned European bag manufacturer Basil, although the system is also now available for use with bags from other manufacturers.

Riders merely need to position press their bag or basket onto the rack and the MIK System will hold it securely, until it is



▲ Massload's MIK System offers quick and simple attachemtn of bags and baskets to carriers.

equally simply and quickly released. As an anti-theft feature, the system comes with a key that locks bags to carrier.

Massload are currently offering the MIK System on four models with an integrated fender, and six models without a fender. The models offered cover a wide range of cycling categories, from e-bikes (both Bosch and Shimano) to touring bikes and disc brake-equipped bikes.

Massload is presenting its full range of products at the Tempus hotel in Booth A-B1-A Hall 8 and 9. ₩ WG

SKS Present New Fender Ranges

t this year's TBW, renowned manufacturer SKS is introducing its latest range of fenders. Among these new products is the EDGE AL, a range of fenders produced in Germany completely from aluminum alloy. SKS' production system allows for the fenders to be manufactured with user-friendly rounded edges. Designed primarily for urban and trekking bikes, these fenders also make use of more aesthetically-pleasing u-stays, and feature a rubber gasket to prevent any vibration of the strut. The EDGE AL is currently available in a width of 46mm, and is available in artful finishes of rust and moonstone, as well as matte black.

Additionally, SKS is also presenting its STINGRAY line of extruded plastic fenders. Extremely light, these fenders are available in a wide variety of lustrous colors, and



▲OEM Sales Manager, Katja Scheffer and Product Manager, Christoph Kohner display SKS latest products.

in a wide range of sizing options up to 75mm, for use with the large volume tires that Sales Manager, Katja Scheffer mentions are becoming increasingly popular.

SKS has also been busy, in cooperation with Eurobike Award winners Monkey Link, with the development of fenders with lights for Monkey Link's electrical port mounting system. **WG**



▲ SKS STINGRAY fenders are availabe in a wide range of lustrous colors.

Prowheel's Latest Crankset

rowheel is introducing a new crankset, the MPL-971-TT. The triple chainring is an 11-speed design with 22T, 30T, and 40T chainrings. The largest chainring is manufactured from 7075 aluminum alloy material with a CNC laser-etched finish. The 22T and 30T rings are

made from steel. The crankset features oval-shaped link point guides for easier and smoother shifting between the three rings. The cranks are forged from aluminum 6061 T6, and come in a black sand-blasted finish. Weight for the entire crankset is 1070 grams. **WG**



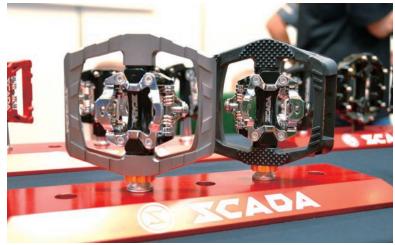
▲ Prowheel's MPL-971-TT crankset.

Scada's New Pop- Up Cleat System

CADA launched its rotary cleat system, which uses a different system from traditional flat cleat designs.

The Pop-Up cleat system can rotate by 15 degrees, allowing riders to clip in more easily. After the rider is clipped in, the cleat returns to its flat position. Scada are offering two pedals with different

specifications that utilize this Pop-Up system. SC-MD129 features an die-cast aluminum body with a CNC-machined platform and Cr-Mo axle. With dimensions of 105 x 103 mm, each piece weighs in at 284 grams. A version with a thermoplastic platform, SC-MD128, weighing 244 grams is also available. **WG



▲ Scada's SC-MD129 featuring its new pop-up cleat system.



Ride On - Taiwan Day

s in previous years, 2017's Taiwan Day at Ride On was held at the Nanshan Education and Training Center, with Chinese language presentations being given for manufacturers and assemblers from the crossstrait bicycle industry. Eight group members, FSA, Selle Royal Group, Magura, Mavic, Brose, Vittoria, Hayes Bicycle Group, and Fox took turns introducing new products and presenting their visions for the future development of their companies. The Training Center amphitheater

was partially filled with many industry representatives, who came to hear the Ride On members introduce their products. However, this Taiwan Day was perhaps not as well attended as last year, when the auditorium was often completely full. Although each product could only be given a short introduction, every speaker was able to give a sufficient amount of information about the products. The series of lectures provided attendees with a rough idea of what Ride On exhibitors had to offer. Anyone interested in learning more about Ride On



▲ Magura team enthusiastically introduced new 2019 products.

and their exhibitor's products are invited to visit the event at the Millennium Vee Hotel during Taichung Bike Week, from October 17 to 20.**®WG**



▲ FSA is continuing to develop high quality & high demand new products.



▲ The Selle Royal team introduced new product lines and new specifications.



▲8 brands gave new product presentations in Chinese at 2017's Ride On -Taiwan Day at the Nanshan Education and Training Center.



 $\mbox{\ensuremath{\Delta}}$ This year's Taiwan Day presentations attracted fewer attendees that in previous years.



▲ After its presentation, the Magura team provide new products for everyone to see and ask questions about.

Yu Hub Launch New Hubs

u Hub is presenting its newest products at the Tempus hotel during Taichung Bike Week. Among the company's latest developments is new MTB hub, the Neptune (DC-R33). The 32/36H hub features a 108 engagement system, and is a 6-pawl design

with 54 tooth ratchet rings to ensure speed, reliability and stability. The Neptune is available with MTB 142 and 148 disc spacing, and is compatible with Shimano and Sram freebodies. Yu-Hub's Neptune weighs 325 grams.



▲ YuHub's Neptune DC-R33 hub.

Lasco's Full Range of E-Bike Cranksets

n line with market trends, Lasco have been developing e-bike cranksets with a comprehensive set of specifications for many years, especially for Bosch systems, even since their first generation of cranksets. Lasco's Teresa Lai noted that the company started developing e-bike products very early, and these currently account for more than 70% of the company's turnover. At the outset, it cooperated with Bosch and gained extensive production experience and technical support from them. This now enables Lasco to professionally and flexibly meet customer requirements. Right now, its main focus is on cranksets for Bosch and Yamaha systems. Soon, Lasco will launch parts for Fujara. **WG



Apro Develop Full Suspension E-MTB Frameset

aving accumulated many years of production experience, Apro has recently utilized its specialized technology to develop a full suspension e-MTB frameset that uses an open model, which

Shimano, Bosch or other electric drive systems. The frame is 27.5" plus sized, meeting Boost 148 specifications, and the rear shock has 150mm of travel. **WG



▲ Apro's new full suspension e-MTB frameset

Neco's Tool-Free Pedals

susally tools are need to attach move pedals, however, Neco have launched a pedal with a threaded mounting tube that does not require



any tools to remove – it can be done simply with a pair of hands. With a maximum torque value of 26.5 Newton meters, the pedal remains firmly in place, even after long periods of riding. Removal by hand also works as an anti-theft feature. Assembly factories can also benefit from this easy removal system, saving space when packaging bikes for shipment. **WG



▲ Neco's tool-free pedals

Stars Spokeless Wheels

upplying customers with a new combination of hub and rim, Stars has launched an entirely spokeless wheel. The wheel can be used on e-bikes with front-mounted motors, and customers can select the position of the connection to the motor. Stars has constructed its wheel with

greater strength and rigidity specifically for e-bikes with a larger power capacity.

Additionally, with the increasing popularity of public shared bicycles, in the future, Stars plan to work with other famous tire manufacturers to develop new solid-tire wheels for this market. **WG







SR Suntour's Increase Boost Specification Products

R Suntour's most popular downhill fork, the RUX38, was launched this year with Boost specifications. The legs have a diameter of 38mm, and bottom of the fork crown and disc brake mount use an increased amount of materials, thereby enhancing overall rigidity and strength. Additionally, the design of the quick release has been changed, effectively reducing the weight, while maintaining the same level of rigidity. The dual crown design allows for a travel of up to 200mm, with high and low speed rebound and compression.

For XC bikes, SR Suntour launched its Raidon 34 and XCR 34 Boost specification forks with

diameters of 34mm for 29" bikes in 2017. 2018 will see the launch of the Raidon 32 and XCR 32 with diameters of 32mm for 27.5-inch and 29-inch wheels. These will feature travel of 100-130mm.

Triair rear shocks carry a 'Piggyback' negative chamber, with low-speed compression and rebound functions, for Euduro bikes. Compatible with both imperial and metric specifications (Trunnion Mount), adjustments to the internal IFP system are made through a valve. WG



▲ Triair rear shock absorber.



▲ SR Suntour's Downhill fork, RUX38.

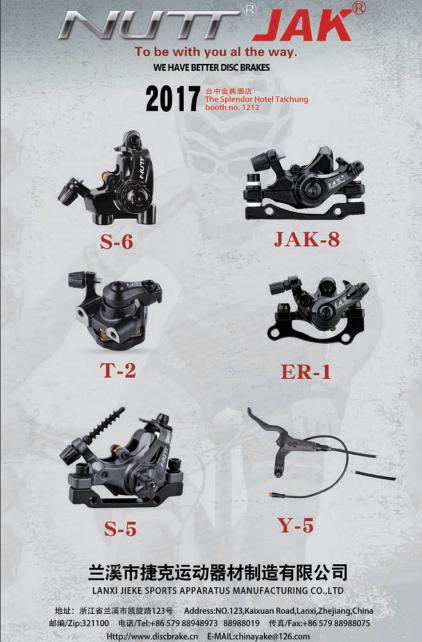


▲ SR Suntour President, Daisuke Kobayashi.



▲ Raidon 32 and XCR 32 suspension forks







PRECISE CONTROL

Powerful, funcitional riding experience. For the love, passion of mountain bikes suspension fork.we are lauching new branding series: VAXA.



CA

COMPRESSION ADJUST

Wide range compression damping force adjustable makes you be able to adapt all rough terrain



RA

HYDRAULIC REBOUND ADJUST

Adjust Hydraulic rebound adjust offers the wide range of damping performance to meet the riding



HL/0

HYDRAULIC LOCK-OUT

Light, safe and easy operating design. Suspension function can be locked directly from the knob on the fork crown. Just one easy turning on the fork knob makes your suspension fork go rigid.



AMS

PRE-LOAD ADJUST

The fork can be adjusted according to your weight. You can easily adjust the suspension performance to be soft or hard by quick turning on the knob.



CM

CLIMB MODE

The fork can be adjusted according to your weight. You can easily adjust the suspension performance to be soft or hard by quick turning on the knob.



RL/0

REMOTE AIR LOCK-OUT

Quick operating and light weight design. You can operate the lock-out function easily from the exclusive shifter on the handle bar. Instant reaction can turn your fork to rigid.



ML/0

MECHANICAL LOCK-OUT

Suspension function can work by adjusting the fork knob at a correct position while fork under max travel condition.





VAXA 32S

MODEL NO WHEEL SIZE PITCH

FEATURES

860S AMS 26' 27.5' 29' 130mm

· Hydraulic Rebound Lock-Out · Adjustable Preload

Hydraulic Lock-Out

· Remote Lock-Out Forged Alloy

CROWN LOWERLEG One-Plece Magnesium ø40mm STANCHIONS ø32mm Steel Tube(TI) BRAKE Dise Brake (PM) ROTOR 160mm WEIGHT 2.1kg TRAVEL 100mm ISO ISO4210MTB



VAXA 30S

MODEL NO WHEEL SIZE PITCH FEATURES

595S AMS 26' 27.5' 29' 130mm

Adiustable Preload

· Hydraulic Lock-Out · Remote Lock-Out

 Spring Pressure System Air/Spring

Forged Alloy

CROWN LOWERLEG STANCHIONS BRAKE

ROTOR WEIGHT TRAVEL

One-Plece Aluminum ø37.9mm φ28.6mm Steel Tube(TI) Dise Brake (PM)

160mm 1.98kg 100mm ISO4210MTB



VAXA 28S

MODEL NO WHEEL SIZE PITCH **FEATURES**

525 AMS 26' 27.5' 29' · Adiustable Preload

Hydraulic Lock-Out

· Remote Lock-Out CROWN Forged Alloy

One-Plece Aluminum #37.9mm LOWERLEG STANCHIONS φ28.6mm Steel Tube(TI) BRAKE Dise Brake (PM)

ROTOR 160mm 1.98kg WEIGHT TRAVEL 100mm ISO4210MTB

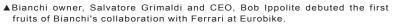
台湾台中国际自行车展览会



2017.10.17-20 Tempus Hotel Room No.1150-1151 Taiwan's world-class OEM event, exclusively for industry insiders









▲Bianchi owner, Salvatore Grimaldi also presented a partially constructed triathlon concept bike.

Bianchi Debut Ferrari Collaboration Bikes at Eurobike

ollowing on from their announcement earlier in the summer, two famed Italian manufacturers, Bianchi and Ferrari, debuted the fruits of their collaboration at a press conference at Eurobike on August 30.

Under its 'Bianchi for Scuderia Ferrari' project, Bianchi owner Salvatore Grimaldi was present for the grand unveiling of the SF01 road bike and a triathlon concept bike. The SF01 is derived from its Specialissima model with a number of

customized components. The frame weighs just 780 grams and utilizes Bianchi's Countervail vibration cancelling technology. Hand-painted in Italy in Ferrari red and with a prominently displayed Ferrari logo, The SF01 is available with either Shimano Dura-Ace Di2 or Campagnolo Super Record EPS groupsets.

Although the triathlon concept bike was displayed with only partial construction, it represents the first true engineering cooperation between the two companies, and

the plan is for the disc brakeequipped bike to have internal hydraulic and electronic routing.

The companies aim to extend their cooperation to

▲The Ferrari logo adorns the SF01 road bike.



include a full range of bikes

including MTBs, city, children's

and e-bikes. *WG

Bosch MY18 Technical Presentation

ollowing on from last year's well-received e-bike system technical briefing in Taichung, this year, Bosch once more hosted a tech seminar at the Splendor hotel on September 13th. Information and demonstrations were given on new products and product changes for the European, North American, Asian and Japanese markets.

In order to give a cleaner and more streamlined appearance to e-bikes, Bosch has introduced its new PowerTube 500 battery system which can be integrated into the downtube of electric bikes. Initially, the new hidden battery system will only be supplied to the European and Australian markets, shipping to the

European market in October of this year.

In addition to the Performance Line and Performance Line CX, two new product lines have been created—the Active Line and the Active Line Plus. The Active Line Plus has a maximum torque of 50Nm and a maximum power assist of 270%, while the Active Line has a maximum torque of 40Nm and maximum power assist of 250%. Bosch also noted that this year would be its first in the Japanese market, and it woud focus its main push on the Active Line Plus.

At the presentation Bosch also reminded industry attendees that from MY19 batteries and displays would in be available in a black style. ***WG**



▲The acquisition of COBI, will allow Bosch e-Bike systems to expand in the area of connected products and services. (Picture: Bosch)



▲Bosch e-Bike systems Marketing Communication Manager, Jennifer Ma, appreciates the Taiwan bike industry's support of Bosch.



▲Bosch e-Bike systems Technical Service and support Regional Manager Aaron Wang displays the latest Power Tube 500 hattery







New Product Gallery

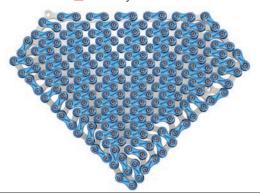
Taya

12-Speed Bike Chain

Evergreen Hotel - B2F-A37

Taya's 12-speed chain was developed with stricter, more accurate, narrower standards, which were born with the Tolv-Galaxy MTB Chain. Taya's patented technology supasses ISO standards and extends the chain life by 1.5 times with its '360 degree riveting', 'DHT upper hardening', as well as 'Deep Plate Chamfer' designs.

(+886-6-2703166 W www.tayachain.com



Visionary Injection



Chain Barrel

The manufacturer states that the patented construction of the Chain Barrel enables this chain breaker to cut any speed of multispeed chain with simple steps, and that it comes in one of the smallest sizes and lightest weights on the market.

(+0905-966332



Chililon Ent. Co.1 Ltd.



Silic1

The manufacturer states that it developed its own cooking machine to form the silicone material to the shape of Silic1 bartapes. Due to its unique production method and formulated material mix, the bartapes have superb durability and comfort under all kinds of weather conditions.

+0905-966332



Duro

Miner (DB-1072A)

Evergreen A10,F2 (喜媛房)

The intensive tread knob layout of Duro's Miner offers excellent traction and gripping power. The connected design of the shoulder tread knobs enhances cornering gripping power and stability.

(+886-4-8520121 W www.duro.com.tw



Transart

The Splendor Hotel 13F, No. 1359

Chameleon Decals

Transart's Chameleon Decals are made with 'Chameleon colors' which change color when viewed from different angles.



Hubsmith

Bumbee A349

Splendor Hotel 1041

100% hand-built in Taiwan, Hubsmith's Bumbee A349 mini wheelset is exclusively designed for Brompton folding bikes. The aluminum rim of the Bumbee A349 is made by welding, and the hub shell is a bamboo-like design.

C +886-4-25379168

www.hubsmith.com



First

Evergreen Laurel Hotel - B2-A27/A28

D4234A / D4634A / D4641A

- •D4234A: For converting BB30 (42mm) to external 1.37"*24T. Compatible with 68~73mm BB shells.
- •D4634A: For converting press-fit 30 (46mm) to external 1.37"*24T. Compatible with 68~73mm BB shells.
- •D4641A: For converting press-fit 30 (46mm) to regular press-fit (41mm). Compatible with 86.5mm BB shells.



Scada

SC-CP825

Tempus B1F No.4&5

Scada's SC-CP825 is a new stylish pedal with a 3M durable, long-lasting, slip-free sand-paper gripping surface. Primarily designed for urban, trekking and e-bikes, the flat profile provides an even

contact area for imporved safety and performance. The pedals weigh 375g a pair.

(+886-4-26822656

www.scada-tw.com



RST

Elev8-E

As early as 2010, RST had stepped into the wireless controlled suspension market with suspension fork & rear shock package. With a refinement of that technology, RST is now launching its first dropper seatpost, the Elev8-E. A 3D forged alloy upper and lower tube results in superior performance, compact dimensions and outstanding appearance. Due to an advanced sleep mode function, the post can be operated over 2,400 times with only one 3.7 volt battery cell, which can be reached tool free.

+886-4-23250026

www.rstsuspension.com



KS

LEV-Ci 272

Tempus Hotel - A5 America Room

The LEV-Ci 272 is positioned as a premium lightweight dropper for 27.2mm seat tubes. Like the standard LEV-Ci, LEV-Ci 272 uses a carbon mast mated to an alloy stanchion with a carbon, alloy and titanium head clamp and hardware. A dedicated 27.2mm hydraulic cartridge specifically designed for 27.2mm applications controls the step-less drop smoothly and reliably. The LEV-Ci 272 is available in 65mm, 100mm and 120mm travel configurations.

C +886- 6-2568575

www.kssuspension.com



ergotech

Integra-B

Evergreen Hotel Room-326

Together with the Bosch display and the headlamp bracket which is available as an optional extra, the unique form of the ergotec Integra-B stem sets new benchmarks for the e-bike cockpit when it comes to integration. Thanks to its greater height the newly designed steerer tube clamp provides an enhanced level of comfort, while the styling widening upwards towards the handlebars creates a unique, harmonious look.

(+886-2-2754-6068

www.humpert-asia.com



Prowheel

Claw-581-TT

Splendor Hotel A -B1-Hall-11,12

Prowheel's Claw crankset is compatible with 11-speed transmissions. Cranks are available in lengths of 170 & 175mm, and the aluminum 7075 chainrings are 100% CNC-machined. Other dimensions include a BCD of 104/64mm and a Q/I factor of 176/146mm.

(+8886-6-2825791

www.pro-wheel.com





ergotech

M-Bar Sport

Evergreen Hotel Room-326

Thanks to the special shape of the ergotec M-Bar Sport, the grips and the handlebar clamp are in the same axis-neutral position, which has the advantage that, in spite of their ergonomic angle of grip, the handlebars do not experience any length loss. The handlebar has a width of 780mm and can, if required, be shortened to 680mm.



Pedotec

Formula H1

Tempus A-B1-A Hall-4, 5

The Formula H1 from Pedotec is a replacement for a heart rate chest belt. Pedotec's heart rate sensor is worn on the wrist with a comfortable, changeable and washable wrist

band. Able to transmit data over both ant+ and Bluetooth 4.0 protocols, the Formula H1 can easily connect with smartphones and fitness equipment.

wwww.en.apms.tw/pedotec/formula/ formula-h1-detail.html



Alligator

Evergreen J2 (2nd floor)

Synchron (S.B.S. C-Caliper)

As the name suggests, Alligator's Synchron caliper brake system allows for both brake arms to be applied at the same time, which the company states leads to better and smoother brake control, and ensures that both pad and rim life is longer. The system is patented and has passed TÜV Certification



MPF Drive

Splendor MPF6

The new MPF6 motor ensures significantly more powerful acceleration for e-bikes in cities or on challenging trails. The manufacturer claims the powerful drive unit provides the right power to turn e-bikers into explorers, adventurers and racers.

(+886-6 2538390

www.mpfdrive.com



Taya

11 Speed Bike Chain

Evergreen Hotel - B2F-A37

Taya's E-Onze features its exclusive DHT (Diamond Hard Tech) self-lubricated hardness treatment applied to pins to strengthen the hardness over HV1800, making this chain suitable for 11-speed sporty pedelecs and e-bikes. With a bearing capacity up to 1000W and 60NM, the chain is strong enough to withstand the powerful torque produced by mid-motors.

L +886-6-2703166

www.tayachain.com



TranzX

JD-YSP20

A unique stealth road style dropper post, the JD-YSP20 has a clean appearance for roadies.

(+886-4-7681756

www.tranzx.com



Tsinova

Splendor Hotel Le Bar-2F-4

VeloUP (Pedelec system)

With a high accuracy torque sensor, the VeloUP Pedelec System originates from automotive hybrid powertrains. The 'multi-sensor fusion' control algorithm automatically offers precise electric power when needed with a motor response time of 30ms or less. The system can be widely used on different-sized bikes, and can be remotely updated online via an app.



Duro

Evergreen A10,F2 (喜媛房)

Dorado (DB-7048)

Duro's Dorado gives a fast rolling rate and maximum road adhesion at 120 tpi. The tire features a smooth centerline with diamond knurled tire shoulder to allow for improved cornering and confidence.

(+886-4-8520121

www.duro.com.tw



KS

Tempus Hotel - A5 America Room

LEV-Si

The LEV-Si brings 100% of the performance and features of LEV Integra at a considerably more affordable price. An all-aluminum alloy construction with KS factory-made hydraulically locked, air sprung cartridge is topped by a two bolt micro adjust head. It is available in 100, 125, 150mm, with smooth, infinitely adjustable travel in 30.9 and 31.6mm diameters. The LEV-Si is designed for internally routed cable frames and includes the KGP polycarbonate remote.

(+886- 6-2568575

www.kssuspension.com



Scada

Tempus B1F No.4&5

SC-MF140

The dold forged 6066 aluminum CNC body of the SC-MF140 offers both wide shoe contact area and durable strength. The lightweight design of the lower platform also increases stability, and the binding provides

smooth engagement and easy release.

(+886-4-26822656

www.scada-tw.com



Cheng Shin Tires

Splendor Hotel Summer Room

C1763T

With the increased interest in shared bicycles, Cheng Shin Tires have launched a new solid tire, the C1763T. Needing no air for inflation, the tire is puncture resistant. However, the key features include a special hole design in the sidewall which reduces the tire weight and increases the tire suspension, and the smooth

tread design provides a more comfortable and faster ride. Additionally, a 'Smart Shoulder' pattern provides safe cornering which, together with a new rubber compound, ensures good grip on wet surfaces and durability.

(+0592-6211606

www.csttires.com.cn

he tire suspension, and the smooth a comfortable y, a 'Smart es safe with a ures and

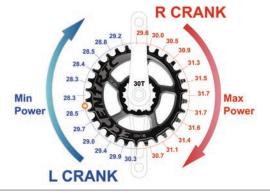
BLabs

B-Ring Eccentric

Evergreen Laurel Hotel, 3F Peony Room D1

BLabs is presenting its eccentric chainring at the Evergreen hotel. The B-ring Eccentric is available with 'Eccentric' technology for front chainrings on 10, 11 and 12-speed systems. BLabs claim that in comparison to round rings, Eccentric chainrings offer users higher efficiency with better results for less effort.

(+886-4-24919555 W www.b-labs.info



LEVA-EU Offer Guidance on EU E-Bike Regulations



▲LEVA-EU Manager, Annick Roetynck, outlined the complexities of EU e-bike regulations.

n August 31st, LEVA-EU and Bike Europe organized a seminar at Eurobike to assist the bicycle industry in understanding the legislative maze surrounding electric bicycles in the EU, and to also answer questions industry members may have had about EU rules and regulations regarding e-bikes.

Bike Europe Editor-in-Chief, Jack Oortwijn was moderator for the meeting which featured LEVA-EU Manager, Annick Roetynck giving a presentation outlining the complexities of EU regulations

as well as potential problem areas for e-bike manufacturers and the bike industry as a whole. Annick Roetynck has been working in the two-wheel business since 1987, focusing exclusively on light electric vehicles since 2013. She has indepth knowledge and expertise in electric bike legislation, and has been on the European Commission's 'Motorcycles' Working Group since 1999. She is the manager of LEVA-EU which cooperates closely with LEVA in the USA.

In a second presentation, Bram Rotthier gave a talk based on his PhD thesis on the socalled 'Factor-4 requirement' which stipulates that speed pedelecs should assist a rider with no more than 4 times the power which the cyclist puts into the bike themselves. Although this is not currently a legally binding requirement for speed pedelecs, the European Commission will soon be reviewing the matter. From his research, Mr. Rotthier concluded that current testing methods for factor 4 compliance are inappropriate.

After the presentations, a lively Q & A session was held to further clarify certain points, and in which various industry members were able to express their views on current EU e-bike regulations.

Conclusions drawn from the presentations and subsequent Q&A session included a consensus that current electric mountain bike legislation had some serious loopholes, about which the industry should be concerned. Additionally, many felt that the 250W power limit was a considerable obstruction for further development of electric cargo bikes. It was also shown that under the current legalislation it is legally impossible to fit kits and electric wheels to transform conventional bikes into electric bikes.

LEVA-EU is a newly established association, which gathers information and statistics on the European LEVmarket and promotes the LEVsector in all relevant European issues, such as technical laws and regulations, transport policy, environmental policy and fiscal policy. LEVA-EU offers individual information and assistance services to companies in the LEV-sector, and additionally informs the sector on European funding opportunities for light electric mobility, and assists LEV-companies who wish to participate in European projects.





▲Bram Rotthier gave a talk based on his PhD thesis on the 'Factor-4 requirement' for

H1 2017 Sees German Bike Market Shrink

he German bicycle industry association, Zweirad-Industrie-Verband (ZIV) has released a bike market report for the first half of 2017. ZIV calculates that 2.64 million bicycles and e-bikes were sold in Germany between January and June 2017, representing a decline of 2.2%. Of these, traditional bicycle sales

fell by 8.5% to 2,100,000 units while e-bike sales increased by 33.3% to 540,000 units.

While Germans are hesitant to buy when it comes to traditional bikes, ZIV estimates that for the year as a whole around 680,000 e-bikes will be sold. This would represent double-digit growth of around 12% compared to 2016.

	2014	2015	2016	2017
Bicycles	2,460,000	2,510,000	2,300,000	2,100,000
% Change		1.9%	-8.4%	-8.5%
E-bikes	340,000	350,000	410,000	540,000
% Change		2.9%	15.5%	33.3%
Total	2,800,000	2,860,000	2,700,000	2,640,000
% Change		2.0%	-5.5%	-2.2%

Source: Zweirad-Industrie-Verband

Domestic Production

Production also fell slightly below the previous year's level.

In the first six months, 1.44 million vehicles were produced, correlating to a decline of 2.7%.

	2014	2015	2016	2017
Bicycles	1,430,000	1,430,000	1,220,000	1,100,000
% Change		0.0%	-15.0%	-9.5%
E-bikes	190,000	230,000	260,000	340,000
% Change		20.8%	13.8%	28.8%
Total	1,620,000	1,660,000	1,480,000	1,440,000
% Change		2.5%	-11.0%	-2.7%

Source: Zweirad-Industrie-Verband

ZIV noted that although these results are similar to those from 2016, when poor weather was blamed for the drop in sales, weather conditions in the first six months of the year proved to be quite bicycle-friendly.

ZIV attributed the decline

in production and sales of traditional bicycles to:

- * A higher number of existing bicycles in Germany with over 80% of households in Germany already owning at least one bicycle.
- * Bicycles becoming higher quality and therefore

more durable. The willingness of consumers to spend more money for better quality has been increasing for years.

- * Declining sales of vehicles at entry-level prices by hypermarkets, discounters and grocery stores.
- * An e-bike purchase more often than not replaces the purchase of a classic bike. In the meantime, there are models that are difficult to distinguish from a bicycle in terms of weight and appearance. This trend will continue with all model groups in the future.
- * The population is getting older. Even though the

trend towards fewer and fewer children per capita seems to have stopped, the decline in birth rates in recent decades is noticeable.

Imports

According to numbers published by ZIV from the Federal Statistics Office, imports of bicycles and e-bikes to Germany declined by about 1.2%. The e-bike share of imports in the period from January to June was 21% (previous year: 19%).

	2014	2015	2016	2017
Bicycles	1,560,000	1,790,000	1,620,000	1,560,000
% Change		14.7%	-9.5%	-3.8%
E-bikes	150,000	230,000	370,000	410,000
% Change		46.1%	64.0%	10.6%
Total	1,710,000	2,020,000	1,990,000	1,970,000
% Change		17.6%	-1.3%	-1.2%

Source: Zweirad-Industrie-Verband (ZIV) & Federal Statistics Office

Exports

On the other hand, exports of bicycles and e-bikes show a slight increase. Between

January and June, export volume rose slightly by 2.3%. The e-bike share of exports was 25% (previous year: 21%). ***WG**

	2014	2015	2016	2017
Bicycles	670,000	610,000	510,000	490,000
% Change		-8.4%	-17.0%	-3.1%
E-bikes	60,000	70,000	140,000	170,000
% Change		17.7%	86.3%	22.8%
Total	730,000	690,000	650,000	660,000
% Change		-6.2%	-6.0%	2.3%

Source: Zweirad-Industrie-Verband

E-Bike Sales Boost Falling EU Bicycle Market

arlier this summer, the European bicycle industry association, CONEBI released this year's version of its annual Bicycle Industry Market Profile (BIMP). According to CONEBI data, EU bicycle sales, production and imports all fell during 2016 compared to 2015, while EU production, imports and sales of electrically power assisted cycles (EPACs) all rose.

Total EU bike sales

According to the CONEBI statistics, 19,481,000 new bicycles and EPACs were sold in the EU during 2016, this figure is down by 6.02% from the 20,633,000 units sold in 2015.

This is also the lowest number of total sales in the EU for over ten years, especially considering that it includes rapidly growing sales of EPACs. Throughout the European Union 1 in 12 bicycles sold is now an e-bike.

The top three EU countries for total bike sale volume last year were Germany with sales of 4,050,000 units, the UK with sales of 3,050,000 units and France with 2,909,000 units. Each of these three countries saw total bike sales drop in 2016 compared to the previous year. Both Lithuania and Croatia noted substantial drops in bicycle sales, with Croatian bike sales dropping from 333,000 in 2015 to 94,000 units last year and Lithuanian bike sales similarly

plummeting from 258,000 to 113,000 units. Belgium was one of the few EU countries to show an increase in total bicycle and EPAC sales with a total of 540,000 units sold in 2016, up nearly 15% from 461,000 units sold the previous year.

According to the CONEBI data the average EU price for bicycles and EPACs (incl. sales tax) stood at €389. Many countries (including Germany, Belgium, Austria, UK, Sweden) showed a dramatic increase in average bike price. In most cases these can be explained by the similar dramatic increase in EPAC sales with their higher retail price.

 Country
 % Share

 Germany
 20.8%

 UK
 15.7%

 France
 14.9%

 Italy
 8.6%

 Poland
 6.2%

 Spain
 5.7%

Netherlands

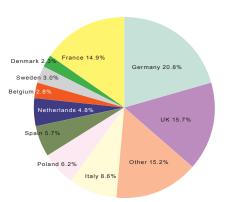
Belgium

Denmarl

EU bicycle & EPAC sales share (by quantity)

Source: CONEBI - European Bicycle Industry and Market Profile.

3.0%



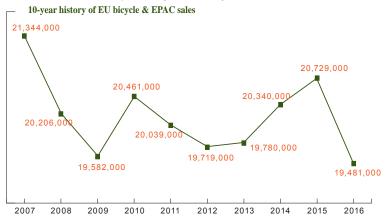
	2015	2016	% Change
Bicycle sales	19,394,000	17,814,000	-8.87%
EPAC sales	1,357,000	1,667,000	18.60%
Total Sales	20,751,000	19,481,000	-6.52%
EPAC Share	6.5%	8.6%	

Source: CONEBI - European Bicycle Industry and Market Profile

10-year history of EU bicycle & EPAC sales

Year	Bicycle Sales	% Change
2007	21,344,000	1.48%
2008	20,206,000	-5.33%
2009	19,582,000	-3.09%
2010	20,461,000	4.49%
2011	20,039,000	-2.06%
2012	19,719,000	-1.6%
2013	19,780,000	0.31%
2014	20,340,000	2.83%
2015	20,729,000	1.91%
2016	19,481,000	-6.02%

Source: CONEBI - European Bicycle Industry and Market Profile.



EU Bicycle & EPAC Sales

Country	2015	2016	% Change
Germany	4,350,000	4,050,000	-7.41%
UK	3,514,000	3,050,000	-15.21%
France	2,996,000	2,909,000	-2.99%
Italy	1,654,000	1,679,000	1.49%
Poland	1,190,000	1,200,000	0.83%
Spain	1,104,000	1,115,000	0.99%
Netherlands	988,000	931,000	-6.12%
Sweden	598,000	576,000	-3.82%
Belgium	461,000	540,000	14.63%
Denmark	500,000	456,000	-9.65%
Romania	400,000	410,000	2.44%
Austria	390,000	397,000	1.76%
Czech Republic	380,000	350,000	-8.57%
Portugal	360,000	350,000	-2.86%
Finland	300,000	300,000	0.00%
Slovenia	240,000	240,000	0.00%
Hungary	216,000	221,000	2.26%
Greece	185,000	166,000	-11.45%
Lithuania	258,000	113,000	-128.32%
Croatia	333,000	94,000	-254.26%
Ireland	91,000	80,000	-13.75%
Bulgaria	62,000	79,000	21.52%
Estonia	62,000	60,000	-3.33%
Slovakia	38,000	40,000	5.00%
Latvia	40,000	30,000	-33.33%
Cyprus	22,000	22,000	0.00%
Malta	11,000	11,000	0.00%
Luxembourg	10,000	10,000	0.00%
EU28	20,751,000	19,481,000	-6.52%

Source: CONEBI - European Bicycle Industry and Market Profile

E-bike sales

The robust growth of e-bike sales in the EU continued unabated in 2016. According to the CONEBI profile, 1,667,000 electrically power assisted cycles were sold in the EU last year—a growth of 22.15% over the 1,364,000 units sold in 2015.

Over the past few years the dramatic rise in e-bike popularity has been driven mainly from the Netherlands and Germany. However, although the former is beginning to show signs of market saturation, the e-bike revolution is firmly taking hold in other nations such as Belgium, France, Italy and the UK. Additionally, there are signs that e-bikes are starting to take off in countries such as Spain, Sweden, the Czech Republic and Poland, which had previously seen very low quantities of e-bike sales.

Germany, the Netherlands and Belgium saw the greatest

number of EPACS sold last year. 605,000 EPACs were sold in Germany last year—an 11.57% increase on the 535,000 units sold in 2015.

The CONEBI report states that 12,666,000 bicycles and EPACs were produced in the EU in 2016, down 3.7% from

Average bicycle & EPAC price

Country	2015 Average Price (€)	2016 Average Price (€)
Netherlands	914	1,010
Denmark	650	700
Austria	450	660
Germany	397	643
Belgium	420	628
Sweden	383	575
Luxembourg	450	550
Spain	481	533
UK	300	521
Italy	270	390
Finland	320	350
Poland	385	350
France	287	337
Croatia	110	318
Lithuania	249	298
Hungary	253	265
Cyprus	255	264
Czech Republic	200	250
Estonia	190	250
Ireland	190	250
Latvia	110	250
Malta	110	250
Portugal	160	250
Slovenia	196	250
Slovakia	110	220
Romania	150	200
Greece	194	195
Bulgaria	122	125

Source: CONEBI - European Bicycle Industry and Market Profile

13,152,000 units produced in the previous year. Of these, 18% (2,339,000 units) were produced in Italy; 16% (1,971,000 units) were produced in Germany and 15% (1,904,000 units were produced in Portugal). However, of this total EU bicycle production, EPAC

production rose by almost 13% from 1,030,000 units in 2015 to 1,164,000 units in 2016. Germany, the Netherlands and Hungary were the top three EPAC manufacturing nations, producing 352,000, 200,000 and 171,000 units respectively. ***WG**

10-year history of EU28 EPAC sales

Year	EPAC Sales	% Change
2006	98,000	
2007	173,000	76.53%
2008	279,000	61.27%
2009	422,000	51.25%
2010	588,000	39.34%
2011	716,000	21.77%
2012	854,000	19.27%
2013	907,000	6.21%
2014	1,139,000	25.58%
2015	1,364,000	19.78%
2016	1,667,000	22.15%

Source: CONEBI - European Bicycle Industry and Market Profile

10-year history of EU28 Bicycle & EPAC production in the EU

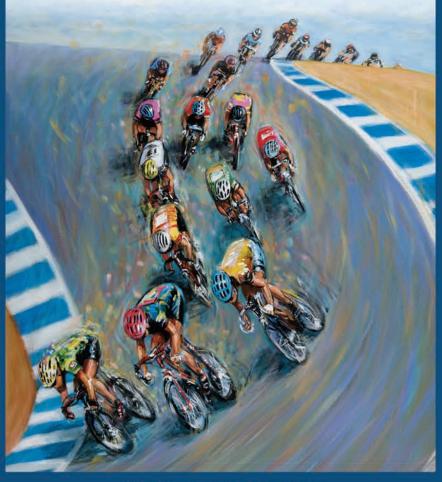
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Year	EPAC Sales	% Change
Year	Bicycle Production	% Change
2007	13,086,000	-1.76
2008	13,246,000	1.22
2009	12,178,000	-8.06
2010	12,241,000	0.52
2011	11,758,000	-3.95
2012	11,537,000	-1.88
2013	11,360,000	-1.53
2014	11,939,000	5.10
2015	13,152,000	10.16
2016	12,666,000	-3.70

Source: CONEBI - European Bicycle Industry and Market Profile.





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EU bicycle production

Year	Bicycle Production	% Change
2007	13,086,000	-1.76%
2008	13,246,000	1.22%
2009	12,178,000	-8.06%
2010	12,241,000	0.52%
2011	11,758,000	-3.95%
2012	11,537,000	-1.88%
2013	11,360,000	-1.53%
2014	11,939,000	5.10%
2015	13,152,000	10.16%
2016	12,666,000	-3.70%

Source: CONEBI - European Bicycle Industry and Market Profile.

EU bicycle & EPAC production

Country	2015	2016	% Change
Italy	2,344,000	2,339,000	-0.21%
Germany	2,186,000	1,971,000	-10.91%
Portugal	1,904,000	1,904,000	0.00%
Poland	1,210,000	1,150,000	-5.22%
Bulgaria	940,000	948,000	0.84%
Romania	900,000	900,000	0.00%
Netherlands	855,000	775,000	-10.32%
France	720,000	720,000	0.00%
Hungary	398,000	402,000	1.00%
Spain	355,000	351,000	-1.14%
Czech Republic	350,000	350,000	0.00%
Slovakia	210,000	200,000	-5.00%
Austria	158,000	153,000	-3.27%
Lithuania	258,000	114,000	-126.32%
Greece	103,000	112,000	8.04%
Sweden	86,000	83,000	-3.61%
UK	53,000	83,000	36.14%
Belgium	82,000	75,000	-9.33%
Finland	34,000	30,000	-13.33%
Slovenia	5,000	4,000	-25.00%
Denmark	0	3,000	
EU28	13,149,000	12,666,000	-3.81%

Source: CONEBI - European Bicycle Industry and Market Profile.

EU EPAC Sales

Country	2015	2016	% Change
Germany	535,000	605,000	11.57%
Netherlands	276,000	273,000	-1.10%
Belgium	141,000	168,000	16.07%
France	102,000	134,000	23.88%
Italy	56,000	124,000	54.84%
Austria	77,000	87,000	11.49%
UK	40,000	75,000	46.67%
Denmark	50,000	45,000	-11.11%
Sweden	30,000	45,000	33.33%
Spain	25,000	40,000	37.50%
Finland	15,000	20,000	25.00%
Czech Republic	1,000	15,000	93.33%
Poland	4,000	10,000	60.00%
Lithuania	0	4,000	
Ireland	0	3,000	
Luxembourg	1,000	3,000	66.67%
Portugal	1,000	3,000	66.67%
Estonia	0	2,000	
Greece	1,000	2,000	50.00%
Hungary	1,000	2,000	50.00%
Romania	1,000	2,000	50.00%
Slovakia	0	2,000	
Croatia	0	1,000	
Latvia	0	1,000	
Slovenia	0	1,000	
Cyprus	1,000	1,000	0.00%
Malta	0	1,000	
Bulgaria	0	0	
EU	1,357,000	1,667,000	18.60%

Source: CONEBI - European Bicycle Industry and Market Profile.

MTB RACE 2X11S CLAW-581-TT

FEATURES.

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PW-BB73+

BB SHELL WIDTH: 68/73MM FOR MTB
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BB COMPATIBILITY: BC.1.37" X24T BB CUPS
WITH Ø24MM SPINDLE
BEARING CUP: ALLOY, FORGED AND CNC MACH,
EXTERNAL BLACK ANO.
CUPS WITH LASER LOGO
CENTER SLEEVE: PLASTIC BLACK



PW-BB92

BB SHELL WIDTH: 89.5/92MM FOR MTB
BB MODEL NO: PW-BB92
BB COMPATIBILITY: WITH Ø24MM SPINDLE
BEARING CUP: PA+GF BLACK, INJECTION
CENTER SLEEVE: PLASTIC,BLACK

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Japan Bike Sales See Record Lows

he Japanese Bicycle Promotion Institute (JBPI) has released Japanese bicycle market information for the first half of 2017. The figures show that in the first six months of this year both imports and domestic production of traditional non electric-assist bicycles fell, resulting in the lowest domestic unit volume in recent history.

Domestic Production

Between January and June of this year, a total of 455,596 bicycle and e-bike units were produced domestically in Japan, a fall of 8.4% from the 497,354 units produced in the same period last year, and the lowest

Six-Month Year to Date 2017 Japanese bicycle production

	Total Production	Value (JPY million)	Average Unit Value (JPY)
3 month YTD 2017	455,596	27,950	61,348
3 month YTD 2016	497,354	28,638	57,581
Difference	-41,758	-688	3,767
Change %	-8.4%	-2.4%	6.5%

Japanese bicycle import in Six-Month Year to Date 2017 by category

HS Number & Category	Total Units		Average CIF unit value (JPY)
8712.00100 Mountain bikes	92,228	1,735	18,816
8712.00211 Mini-cycles	91,664	1,191	12,991
8712.00218 Infant bicycles	266,549	1,910	7,168
8712.00219 Children bicycles	933,076	8,380	8,981
8712.00291 Light bicycles	1,147,178	10,882	9,486
8712.00299 Miscellaneous	1,260,156	16,544	13,128
Total	3,790,851	40,642	10,721
8711.90000 Other Motorcycles	25,230	672	26,635

Source: Ministry of Economy, Trade and Industry (METI) Current Production Statistics Survey (2016 figure is revised) Japan Bicycle Promotion Institute Processing and Analysis.

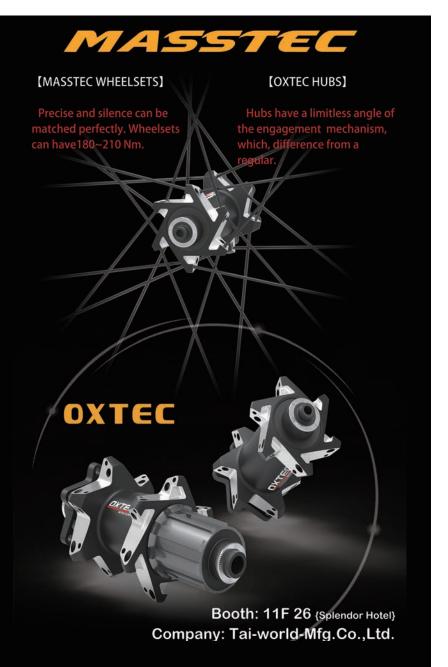


figure in the past ten years. The average value of each unit rose slightly, and the total value of units produced was JPY 27,950 million, 2.4% down from the JPY 28,638 million total value produced in the first half of 2016.

Japanese domestic production continues to be mainly based around electric bicycles. Of the 455,596 units produced in the first three months of this year, 287,461 were electric-assist. As the average unit value of e-bikes is higher, in terms of total value, e-bikes represent an even larger share of domestic production. Of the total production value of JPY 27,950 million, JPY 23,557 million were e-bikes.

Imports

Japanese bicycle imports of cycles (excluding e-bikes) in first six months of 2017 was 3,790,851 total units, a 4.6%

decrease compared to the same period in 2016. This figure represents a 15 year low for bicycle imports into Japan.

Total CIF value was JPY 40,642 million, a decrease of 10.1% compared to the same period in 2016. The average CIF unit value fell by 5.7% to JPY 10,721. The JBPI concluded that the decrease was not attributable to fluctuations in currency exchange rates.

"Electric power assist bicycles" are not classified as a single category and are included in the category of "Other motorcycles" in trade statistics. This "Other motorcycles" category includes all motorcycles which are not classified in the upper layer of all electric motorcycles. ***WG**



The Portuguese Bicycle Industry



hile the bicycle output of most producing countries has fallen considerably during the past year due to changing market demand, poor economic conditions, and unfavorable weather, Portugal has remained the third most important bicycleproducing country among the 28 EU states (behind only Italy and Germany) for three consecutive years, and has an annual output of more than 1.9 million bicycles, which accounts for around 10% of the EU's bicycle sales. The EU produced a total of over 12.66 million bicycles in 2016, and 19.45 million bikes were sold in the EU during that year. Portugal's most important bicycle-producing areas are around Aveiro and Agueda, although the Porto area has the largest output. RTE is located in Porto, and produced more than 1.3 million bicycles in 2016. RTE's output is continuing to grow, and it has set a target of 1.5 million bicycles for 2018.



▲ Decathlon Purchasing Manager, Didier Morelle mentions that their sales target for 2017 is 4.6 million bicycles



▲Decathlon has nearly 1400 stores worldwide, enabling them to maintain the growth 10-15%

Portugal has already become the EU's leading OE bicycle producer. While Portugal is more than 2,000 km from most of Western Europe, it takes at most four days to make shipments to Germany. And although it takes only two days to make shipments from nearby countries, most factories in Portugal have adopted automated production, and there are few labor shortages. Germany produced 1.97 million bicycles in 2016, which made it the EU's second largest producer. Since Portugal has bicycle output of 1.90-1.95 million units, it may overtake and surpass Germany within the next one or two years.

RTE, which produces bicycles under contract for Decathlon, and Maias produced 1.3 million and 400,000 bicycles respectively last year. RTE and Maias account for more than 80% of Portugal's total bicycle production. According to Decathlon Purchasing Director Didier Morelle, Decathlon has 1,400 stores globally, has set a sales target of 4.6 million bicycles for 2017 and a target of 5.5 million bicycles for 2018, and has enjoyed steady 10-15% annual growth.

Portugal has 1,000 bike shops and dealers, and most bicycles are sold at chain sports stores like Decathlon and Berg, mass merchants, E-Bike Continente, Carrefour, Mooelo, and bike shops. Of these, Continente, Berg and Mooelo, are all members of the Sonae Group. Sonae is a large commercial group in Portugal and also have stores in Spain.

RTE

With a high level of automation and humane management, RTE is low-key and a bit mysterious, and supplies 100% of its output to Decathlon. According to CEO Jorge Salgado, RTE has maintained 10%-20% annual growth. In order to sustain its growth and maintain excellent quality, RTE invests €4-5 million annually in the purchase and replacement of equipment. RTE has 800 employees and produced 1.3 million bicycles this year. The company expects to have even greater output in 2017. It began producing steel frames this year, and plans to produce over 300,000 during the year. It has an annual output of 2.0 million rims, also produces front forks, and performs painting of Benz bikes.



▲ RTE CEO, Jorge Salgado is always looking for ways to make good even better.



▲ Outside RTE's facilities in Porto



▲ Maias GM, Rui Tavares

Maias

Maias was Decathlon's earliest OEM plant in Portugal, and has worked with Decathlon for 21 years. Maias has three assembly lines and two painting lines, and produces their own rims. Maias produced 400,000 bicycles—mostly children's bikes—in 2016, of which 80% had steel frames and 20% had aluminum alloy frames.

Orbea

Orbea has assembly plants in Spain and Portugal. The company's new Portuguese plant went into production two years ago. This plant has an area of 8,000 m², one assembly line, and 40 employees. The plant can assemble 500 bicycles each day, and roughly 80% of its

output consists of mountain bikes, with the remainder consisting of city bikes and children's bikes. Orbea's Portuguese plant



▲ Third from left: Paint Responseble Roberto Armada, Third from right: Product Manager,



▲ From left: Internal Auditors, Americo Barbosa, Rui Lenos and Products Manager, Dinor Duarte

Esmaltina

Portugal's third-largest bicycle assembler, Esmaltina produced 150,000 bicycles in 2016 and expects to produce 160,000 this year. The company's new 16,000 m² plant occupies an 18,000 m² site, and employs 75-80 persons. Esmaltina chiefly supplies its bikes to mass merchants and chain stores, such as Continente, and it also supplies Berg sporting goods stores. Esmaltina also sells bicycles under its own EMA brand, and it also introduced the "Wader" brand five years ago. Esmaltina's chief markets comprise Portugal (60%), Spain (30%), and other countries (10%). The company began assembling e-bikes this year, and sells them for retail prices of €600-€700. Esmaltina also sells conventional bicycles online. According to sales manager Rui Lenos, the company imports roughly 35% of its parts from China, and the remainder is obtained from India, Indonesia, and locally in Portugal.

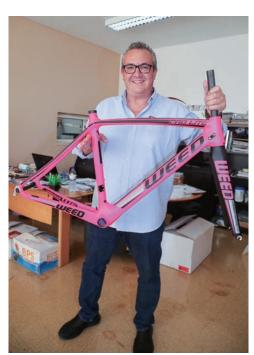
Because deliveries of frames from Tianjin in China have been troubled, the company is considering obtaining them from Turkey or some other area.



▲ Assembly line.

produced 90,000 bicycles in 2016, and has set a target of 100,000 for 2017. Frames are painted by Avantisbike. The Portuguese plant assembles only aluminum bicycles, and carbon fiber bikes are assembled in Spain. Orbea assembles a total of 180,000-200,000 bikes annually.





▲ Avantisbike Managing Director, Sergio Ramos

Avantisbike

Avantisbike paints frames for customers in Portugal and Spain, including Orbea and MMR. Established in 2001, Avantisbike started out assembling bicycles for customers in France, and has been painting frames only since 2007. The company paints 130,000 frames annually; apart from aluminum frames, it also paints many carbon fiber frames. It further assembles 50,000-70,000 bicycles each year; 60% of the company's revenue comes from contract painting, and 40% derives from assembling bicycles. Avantisbike has 60 employees, and its 4,000 m² plant is located on an 8,000 m² site; it plans to expand the size of its plant to 6,000 m² in the future.



▲ The painting area changes fresh air every 10 minutes.

Interbike/Coluer

The Spanish brand Coluer produces bicycles in Portugal. The company was established in 1998, and began assembling carbon fiber bikes—the first in Portugal-in 2010. As part of an upgrading move, the company has reduced its annual output from 35,000 units to 20,000 units, of which 30% are carbon fiber bikes. Executive General Manager Miguel Moreira emphasizes a focus on mid-/ high-end bicycles, although the company also produces some children's bikes. Coluer produces 8,000-9,000 bikes each year. The company's main markets consist of Spain (40%) and Portugal (30%). Coluer has 30 employees, of which 10 are in Spain. It has



▲ President, Luuis Mayoral (right) and on the left is General Manager, Marc Mayoral who spends most of his time in Spain



▲ Miguel Moreira is the executive manager for the Portugal factory

a total of 500 dealers in Spain and Portugal. Coluer introduced the sporting goods brand Icon in 2017. Most parts are provided by Uni-Victor in Taiwan; 80% of the parts used by the company are from Taiwan, and 20% are from China. Coluer began producing e-MTBs this year; it plans to produce 500 e-MTBs spec'd with the Shimano e8000 system during 2017.

Incycle

Established in 1999, Incycle assembles 48,000 bicycles each year, some of which are sold under its Eleven Bicycle brand (10%). Most of Incycle's bicycles are sold to Portugal, Spain, and Britain. According to GM Joao Maia, the company has 200 dealers in Spain. Avantisbike began cooperating

with Aguesport in 2011; some parts are purchased from Shimano, and the remainder is provided by Aguesport. Incycle has 16 employees, and chiefly produces MTBs, along with some children's bikes. Because the prices of parts from China increased this year, along with major increases in the price of cardboard boxes, Incycle hiked its prices by 7%.



▲ Incycle General Manager, Joao Maia (second from right) and Rui Conceicao (second from left) have a good friendship. Abimota Secretary General, Joao Medeiros (first on left) and Abimota Technical Support, Cristina Marques (first on right).



Orbita

With 47 years of history, Orbita purchased the Miralago plant two years ago. Orbita has an annual output of 20,000 bicycles. The company's original plan chiefly consisted of a display room and warehouse, but it has since began production and now employs 145

persons. According to CEO Jorge Santiago, Orbita also produces frames, front forks, and handlebars, but no longer produces saddles, and some frames are imported from Tianjin. Painting includes powder coating and waterbased finishes. Orbita began providing shared and public e-bikes in cooperation with the government of Lisbon this year, and these e-bikes are spec'd with Bafang systems. Orbita has set a production target of 5,000 bikes for this year. The company has 100 dealers in Portugal, and has set a production target of 40,000 bicycles for 2018.



▲ Orbita CEO, Jorge Santiago



 \blacktriangle Orbita offers this type of e-bike for the Lisbon Government's bike sharing scheme.



▲ Business Manager, Nuno Faria (third from right) is responsible for Fritz Jou Portugal factory. Front row center: Zhou Yen Hong is in charge of material and production management. Behind him is Chen Jien Hong Quality Control Personnel. First on right: Yen Je Hsiou. Second on right: Wang Rou Yi, handles sales and purchasing.

FJ Bikes Europe, LDA.

FJ Bikes (Fritz Jou) is the first bicycle assembler from Taiwan to establish a plant in Portugal, and is located in the Agueda area. Fritz Jou's plant has been completed, and is located on a 49,000 m² site. Employees number approximately 80-100, production equipment has been acquired, and production is slated to begin in early November. According to plant

manager Nuno Faria, an inaugural ceremony for the plant is scheduled for the start of 2018, and an annual production target of 300,000 bicycles has been set. The plant will produce chiefly aluminum and carbon fiber bikes, and will also produce e-bikes; the plant's output will chiefly be sold in Europe.



▲ The new factory should start trial production at the beginning of November.

Aguesport (Ozone)

Established in 1997, Aguesport is an importer and brand distributor. It is Incycle's main supplier, and it also supplies other bicycle plants and bike shops in Portugal. According to GM Rui Conceiean, the company's parts are sourced from Taiwan (20%), China (70%), and Sri Lanka (10%), and it is the Portuguese distributor for DSI, SR Suntour, WTB, and Tektro. Aguesport's brand is Ozone, the company is one of Continental's Portuguese distributors, and is also Rotal's general agent in Portugal. Aguesport has established a car tire department. Because of its growing sales, Aguesport bought a 10,000 m² plant site not far from Fritz Jou's plant in 2017, and expects its plant to be completed by the end of 2018.



▲ Aguesport General Manager, Rui Conceicao (right) and Wilson Gaio (left) are partners.



Parts Manufacturers

Triangle's

Completed in 2016, Triangle's aluminum alloy frame plant was built with on investment of €20 million. The plant occupies 185,000 m², and is located on a 65,000 m² site. Triangle's has since become a partner of the Accell Group and Orbea. Triangle's has three



▲ Triangle's Gerneral Manager Luis Pedro

main shareholders—hence its name—who consist of Rodi President Armando Levi (Triangle's president, holds 68% of shares), CicloF General Manager Vital Almelda (16% of shares), and Miranda President Joao Miranda (16% of shares). Triangle's is on track to produce 50,000 bicycles this year, and has 45 employees. It introduced its first carbon fiber chainwheel at this year's Eurobike show, and it also began producing titanium alloy frames in 2016.



Rodi

Rodi produces aluminum rims (4 million sets annually) and wheels (500,000), and has enjoyed a 5% increase in sales this year. Apart from aluminum rims, Rodi also has a plant next door making dishwashers. The company chiefly produces rims for trekking and city bikes (50%), and also produces MTB and e-bike rims. Rodi has 250 employees, and puts its Black Jack brand on mid-/high-end bikes, which are chiefly sold in Germany, the Netherlands, Spain, and Portugal, of which Germany and Portugal together account for 50%.



▲ Rodi President, Armando Levi Silva.



Miranda

Boasting a full set of automated equipment, Miranda produces a wide range of products, including freewheels, cranks, chainwheels, brake levers, brake systems, and lamps. While its parts were chiefly aimed at motorcycles in the past, it now mainly produces bicycle parts. The Maranda plant occupies 15,000 m², and it has opened a new plant occupying 12,000 m². President Joao Miranda is also the chairman of Abimota. The company expanded its warehouse this year to meet the needs of growing customer demand and its diversification, and has added new equipment. It is constantly developing new products as it continues



▲ Miranda father son partnership. Son, Joao Filipe Miranda (right) is the Marketing Director; Father, Joao Miranda (left) is the President.



to grow. Marketing manager Joao Fillipe is actively expanding into the global market, and sponsors mountain bike and road bike teams. The company will also be sponsoring a downhill team in 2018, in hopes that it can boost quality and safety on the basis of actual use by professional cyclists.

Ciclo Fapril

The Ciclo Fapril Group consists of 10 companies, which variously produce hospital beds (41%), auto parts (16%), motorcycle parts(11%), sports equipment (6%), bicycle parts, and other products (8%). GM Vital Almeida is also deputy chairman of Abimota. Established in 1965, Ciclo Fapril employs automated production equipment, and has 200 employees. Ciclo Fapril built a new plant on land next to Triangle's plant; the company's bicycle products include cranks, steel



▲Ciclo Fapril GM, Vital Almeida

frames, and handmade leather saddles (5,000).



Polisport

Polisport chiefly produces accessories such as children's saddles and safety helmets, and seeks to combine safety and comfort. Polisport relies on both automated equipment and its employees, and has designed its own testing instruments. It produces motorcycle products (40%), bicycle products (40%), and other products (10%). Annual sales total approximately €35 million, and it sells roughly €25 million worth of products



▲ Polisport CEO & President, Pedro Araujo.

to Decathlon each year. CEO and President, Pedro Araujo is a big sports fan, and also has great enthusiasm for his work. He has been seeking international partners in recent years, and is cooperating with a Hong Kong firm in the production of helmets. This collaboration is helping Polisport increase its product lines and boost its competitiveness.

SRAM

SRAM purchased a Portuguese plant in 1988. Chiefly producing chains, this plant occupies 6,000 m², and employs 140 people. SRAM produces 5 million meters of chain annually in their Portugal factory. The plant also assembles carbon fiber wheels, and has an annual output of approximately 30,000 sets. Products are sold to the EU market (40%), the US (40%), and China (20%).



▲ SRAM General Manager, Isabel Gomes

Abimota Lea

Abimota Lea is Portugal's two-wheeled vehicle association, was established in 1975, and has 100 members, of which 65 are bicycle firms. Abimota Lea provides the domestic bicycle industry, joint trade show participation, testing, and certification services, and has been actively recruiting companies. *WG



▲ Abimota's Chairman, Joao Miranda



▲ From right: Secretary-General, Joao Medeiros; Paulo Pires; Cristina Marques and Kuis Pires.





Interbike Bids Farewell to Las Vegas

he 2017 Interbike show was held from Sept. 18-22 in Las Vegas for the last time, and will be moving to Reno in 2018. This year's Interbike included indoor and outdoor shows, but numerous bicycle brands were absent, and crowds were noticeably thinner—it was as if participants were waiting for a new beginning in Reno next year. The Outdoor Demo had only around 60 participating firms, which was far fewer than the roughly 100 firms last year, and there were also fewer visitors interested in test riding this year. The show's indoor exhibitors included more than 750 companies, displaying approximately 1,400 brands. While the scale of the show was not dramatically different from last year, many whole

bicycle brands were AWOL, and the focus was placed on house shows featuring the exhibitors' own brands. The leading returning bicycle brands on display included KHS, Argon18, Cevelo, Tern, Wilier, Basso, Bianchi, and Haibike, and the three major shift system brands-Shimano, SRAM, and Campagnolo—also displayed their wares.

This year's show was the fifth time that Interbike has been held at the Mandalay Bay conference center, and was also its final year at this location. Interbike will be moved to the Reno-Sparks conference center in Reno Nevada in 2018, and will be held from September 18-20 (Tuesday to Thursday). In addition, the Outdoor Demo will be moved to the Northstar

California Resort, and will be held from September 15-17. The Northstar Resort is the location of California's largest bicycle park, and is 30-40 minutes from the Reno venue by car. The organizer's change of location in 2018 is definitely intended to re-energize the show and also make it less expensive for exhibiting firms.

Disc brakes & low wind resistance

Improvement of aerodynamics is still the leading trend in road bikes. As frames and components gradually attain maturity, personal accessories are also becoming more refined. Yet another trend is the shift to disc brakes, and first-line wheel manufacturers displayed almost

all major types of disc brakes.

27.5 & eMTBs

Plus and 27.5" sizing are still the most popular MTB features, and manufacturers have made a major effort to introduce models with that are compatible with the various tires and suspension forks. e-MTBs are beginning to flourish in the United States, and numerous companies have launched products targeting this market. For instance, Velo has expanded its e-MTBs saddle line to three models, and its saddles' Reversed Arctech rail technology makes pedaling even more efficient. Q-Lite has introduced special hubs with a lock-in design able to accommodate the large torque generated by e-bikes. * wg



▲ Around 60 brands participated in this year's Outdoor Demo.



▲ The e-bike area at the Demo attracted large crowds.



▲ The Taiwan pavilion with the Wheel Giant team; this year's Taiwan pavilion had 35 booths and 25 exhibitors



 \blacktriangle Lazer's newly-introduced Aeroshell is not only rain-proof, but can also reduce wind resistance, is easy to stow, and comes in a full range of colors.



 $\blacktriangle \ \, \text{The aerodynamic Wing Spoke introduced by Sha-Dar features a no-junction design with even less wind resistance, high fatigue resistance, and excellent strength.}$



▲ After introducing a wireless electronic shift system, this year FSA has added disc brakes to its K Force WE series, which gives it a more complete product line.



 \blacktriangle All of Zipp's NSW wheels reflect disc brake specifications, and also have an all-new rims design and compatibility with tubeless tire systems.



▲ Yamaha has formally entered the e-bike market with four models, including one e-MTB model (the remainder are e-city models).



▲ Chao Yang e-Liner tire series, aimed at the e-bike market, includes 3 types of e-MTB and 4 types of e-City tires.



▲Innova has expanded its ITT product line to e-City tires.



 \blacktriangle Velo's saddle for 24" youth bikes increases riding comfort.



 \blacktriangle Zoom Aero carbon fiber handlebars employ a hidden cable routing design to effectively reduce wind resistance.



 \blacktriangle The Novatec R3 Clincher disc brake uses asymmetric eccentric wheels to ensure that tension in the spokes due to the disc brakes is even on the right and left; the wheels also have greater rigidity, and weigh only 1,630g.



 $\blacktriangle \ \text{Velo's e-bike saddle feature Reversed Arctech technology for more efficient pedaling}.$







▲ The design of TRP's TT hydraulic disc brake system combines the fluid cylinders with the brake handles, yielding a better grip; there is no need to wrap tape around the handles, and there is a mounting adapter for SRAM and Shimano electronic shift systems.



▲ Samox's hollow carbon fiber cranks are made using one-step forming technology and offer very light weight; models are available for road bikes, MTB, DH, and FR.



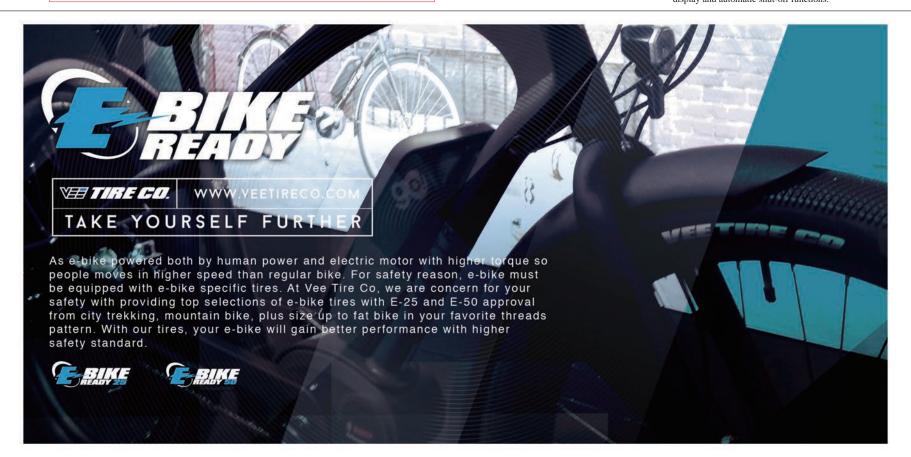
▲SR Suntour has introduced several 1×11 chainwheel and crank sets spanning the range from



a product line consisting of adjustable seatposts and 18350 lithium ion batteries; it is easy for dropper seatposts; a hydraulic dropper seatpost is users to install, can withstand 2,400 up and shown on the right.



 $\blacktriangle\,\textsc{ExaFoam}$ chiefly targets the OE market, and has $~ \blacksquare\,\textsc{RST's}$ eDropper cable-less dropper uses down movements, and offers a low power display and automatic shut-off functions.





Sightseeing in Taichung

National Museum of Natural Science and Botanical Gardens

國立自然科學博物館

🖪 No.1, Guanqian Rd7., North Dist.

+886-4-2322-6940

Tues-Sun 09:00-17:00, closed Mondays

One of the most popular museums in Taiwan, the National Science Museum has 24 exhibit areas dedicated to different themes, and includes a Science Center, Planetarium, IMAX Theater, Life Science Hall, Human Cultures Hall, and a Global Environment Hall. There are botanical gardens behind the museum, housing approximately 800 plant species.



Maple Garden 秋紅谷

Shizheng North, Xitun Dist., Taichung City

No matter what season it is, walking in the Maple Garden is a visual joy! Located next to Taiwan Boulevard in Taichung City, Maple Garden is a unique U-shaped recreational green oasis for city residents. The three hectare garden contains a lake, red trees, green grass, and a observatory bridge. It is a great place for taking a stroll, going on a date or exercising. During the day, the lush green is comforting, and at night, it is filled with lights that never sleep. It has only been open for half a year, yet has rapidly become one of the most famous scenic spots in Taichung.



Dongshih Farm 東勢林場

No. 6-1, Shi-lin St., Dong-hsin Village, Dongshih Dist., Taichung City.

Q 04-25872191 **Q** 06:30-22:00

People tend to call Dongshih Farm Central Yamingshan. It is the most charming and attractive forest in central Taiwan. The biggest feature of the area is that it has different scenery for each season. Therefore, the site attracts tons of people during the holidays. It is also a perfect place for teaching children about Mother Nature.



Shen Ji New village 審計新村

Mo.8, Aly. 4, Ln. 368, Minsheng Rd., West Dist., Taichung City 403

zh-tw.facebook.com/ShenJiNewVillage/

The plans for "teenagers to catch stars and build their dreams in Taichung" of Taichung City government utilizes the idle public buildings at the Shen Ji New village and provides the space required for industrial development. In addition, the plan helps teenagers to conduct their microenterprises to increase job opportunities. The handicraft industries create and sell their products in their shops on weekdays. They plan to increase the fairs and events on weekends and holidays, so people can remember the creative atmosphere of Taichung from these hand-made



Hofung Bicycle Green Way 后豐鐵馬道

Hofung Bicycle Green Way is one of the most popular bike-ways in Taichung. The route attracts countless people every weekend. The bike-way was originally a tunnel, going all the way to Houli Train Station. While riding a bike, you can enjoy the beautiful scenery and breathe in the fresh air.



Dongfeng Bicycle Green Way 声脚中行声場廊

The Dongfeng Bicycle Green Way passes through the previous Dongshi Branch of Taiwan South-North Railway that connects Fengyuan and Dongshi running through Dongshi District, Shigang District and Fengyuan District. Thanks to the efforts of many people, the route was transformed into a bicycle lane in September 1991, and has been renamed as the "Dongfeng Bicycle Green Way" after gas-powered vehicles were prohibited from operating there.



Natural Way Six Arts Cultural Center

道禾六藝文化館(台中刑務所演武場)

No.33, Linsen Rd., West Dist., Taichung City 40345.

Q 04-2375-9366

www.sixarts.org.tw/

Budokan Martial Arts Hall is the only existing Budokan building of the Japanese colonial period in Taichung. The Budokan building contains a Japanese garden. Within the garden is a pond, which still retains its Japanese style even after being restored. Surrounding the Budokan building are the old Japanese dorms. Although these dorms are not open to visitors, you can still enjoy the good-old-time atmosphere just by walking around this areas



Taichung Literature Museum 台中文學館

Mo.38, Lequn St., West Dist., Taichung City 40357.
■ 04-22240875

www.tlm.taichung.gov.tw/

Located in a police dorm from the Japanese colonial period that has gone through 80 years. of renovation, the establishment of the Literature Pavilion in the historical building has given the building a new function, and at the same time promotes the past and future of Taichung literature.



Taichung Metropolitan Park

臺中都會公園

🖲 No. 30-3, Si-Pin South Lane, Xitun Dist.

Metropolitan Park sits atop Dadu Mountain, providing natural habitats for wild animals and plants. The park includes ecological ponds, an astronomy appreciation square, and waterside trails, making it a great choice for those seeking family-friendly fun.



Calligraphy Greenway 草悟道

24hrs

On both sides of Calligraphy Greenway, there are different facilities provided for citizens. The Citizen Plaza on Calligraphy Greenway hosts a jazz festival each year in October. You can enjoy relaxing music, an exotic atmosphere and picturesque scenery all at the same time.



Qingshui Rest Stop 清水休息站

No. 143, Dongshan Rd., Qingshui Dist., Taichung City

② 24hrs 3 04-26201378

www.freeway.gov.tw/Publish.aspx?cnid=1544

Qingshui Rest Stop is located on National Highway No. 3. Some people say that this rest stop is the most beautiful one in Taiwan. The rest stop does not only provide a place for people to rest, but also an excellent environment to enjoy the facilities and great views. The Qingshui Pearl is the major landmark of the rest stop, which symbolizes brightness and the beauty of Qingshui.



Guguan Recreation Area 谷關溫泉

There are a lot of fun things to do in Guguan. The area is renowned for its hot springs. Tourists can go swimming, camping, or fishing in the vicinity.



Lin's Park 霧峰林家花園

No. 24, 26 and 28, Min-sheng Rd., Wufeng Dist., Taichung City.

Please make reservation before you visit. 04-23393071

Wufeng Lin's Garden is one of the four renowned gardens of Taiwan. The garden includes three branches; the Upper House, the Lower House and Lai Yuan. The Lower House is now under renovation.



🖲 No.30, Beiti Road, Qingshui Dist., Taichung City 436, Taiwan

Q 04-26562650 **Q** 9:00-20:00

The local fishing port is in Wuqi, Taichung. The port is a famous spot to go on the weekend. Many people come to the port to purchase fresh seafood and savor flavorsome seafood cuisine.



Dakeng Hiking Trails

大坑登山步道

🖲 Dongshan Rd., Beitun Dist.

The Dakeng hiking area, about half an hour outside the city center, features ten trails of varying difficulty levels. Some of the trails can be quite steep with many wooden stairs and suspension bridges, but the hard work pays off with spectacular mountain and city views. Other trails are easier, and feature wooded paths with viewpoint platforms.



Wuling Farm 武陵農場

No. 3-1, Wuling Rd., Hoping Dist., Taichung City.04-25901259

Established in 1963, Wuling Farm is located near the Dajia River. The whole farm is 727 acres wide and 1740m-2599m above sea level. The farm is a perfect place to visit during summertime for its pleasant weather. If you have the chance to visit the farm during the four different seasons, you will be thrilled at what you see. The scenery during the different seasons is distinctive, each with its own charm. One thing for sure is that you will want to stay there forever!



Yide Mansion 一德洋樓 (林懋陽故居)

Mo.1, Ln. 14, Wenchang E. 11th St., Beitun Dist., Taichung City 406

www.facebook.com/YideMansion

This former residence in the Beitun District of Taichung, was built in 1930 by Lin Mao-yang. In 2007, the mansion was declared a historical building by Taichung City Government, and since then, the mansion has undergone renovation work. The renovation work was completed in April 2015, and now the green landscaped area of the mansion is divided into six sections, which are the Tree-Lined Resting Zone, the Lawn Activity Zone, the Children's Playground Zone, the Recreation Zone, the Military Dependents' Village and the Eco-Forest Zone.



Chunghwa Night Market 中華夜市

Gongyuan Rd., Chunghwa Rd., and Dacheng St.

This night market has a long history, and offers a wide range of food choices including fried oyster omelets, sushi, and spring rolls, among many other delicacies.



Art Museum Parkway 美術園道

Spanning both sides of a park stretching south from the Taichung Art Museum, this area showcases many different restaurants with their own unique architectural styles, interior designs, and characteristic cuisines.



Luce Memorial Chapel 路思義教堂

No.181, Sec 3, Taichung Port Road, Xitun Dist., Taichung City 407, Taiwan

Q 04-23590121

The Dong Hai University campus is the most attractive one of all the universities in Taiwan. The buildings on the campus are modeled after the architectural style of the Tang dynasty. However, the landmark of Tunghai University is the church, designed by I.M. Pei.



The proliferation of bicycle commuters and the associated bike-sharing programs, have resulted in an upturn in demand for the various components specifically designed forthe commuter bicycle market. None more so than high quality, performance-focused internal-gear hub systems.

With the introduction of its own line of internal 3-speed rear hubs, KT Taiwan aims to assert its leadership, expertise and experience on the internal hub market. All Inter-3 rear hubs will be made exclusively at the award-winning KT facility in Taiwan, which has received governmental recognition for its strict adherence to, and maintenance of, the highest quality control standards.

As Taiwan's largest hub manufacturer, KT Taiwan seeks to answer the challenges associated with hub production, particularly in regard to production capacity. With the necessary infrastructure to produce 1.200.000 hubs per year, the company is strategically positioned to prioritize the consistent supply of internal gear hubs to customers across the globe.

The Inter-3 Rear Hub series includes 3 specifications to suit bicycles fitted with either V-brakes, disc brakes or drum brakes. Boasting robust steel hub shells and weight sensitive construction, KT is leveraging its 70 years of leadership in hub research & development and manufacturing experience, to provide compelling internal-gear hub solutions to bike manufacturers the world over. The price competitive Inter-3 Hub family is being launched at Eurobike and KT will be accepting orders immediately.

Visit the KT booth during Taichung-Bike-Week : Tempus Hotel / B1 Hall A 23, 24

or contact kttw@q-lai.com.tw for more information.





www.kttw-hub.com



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