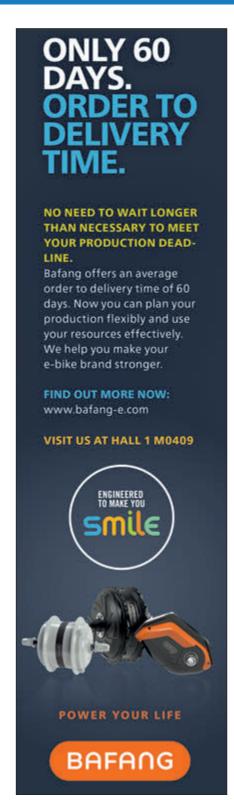
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TAIPE SHOW DAILY CYCLE SHOW DAILY







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Staying trendy or classy?

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Taking all of the advantages from the Angel line, fundamentally, Prevail saddles provide excellent comfort while pedaling and a more classic full seat.

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Friday, March 29, 2019 TAIPE! CYCLE



TONIGHT

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SHOWERS

25°C (77°F)
MOSTLY CLOUDY

CONTACT US

Here's how to reach the key staff of the Taipei Cycle and TaiSPO Show Dailies:

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...Starts on 39

Guide to booth numbers at Halls 1 and 2, Nangang Exhibition Center: Booth numbers starting with **L**, **M**, **N** are on the 4th floor, Hall 1; Booth numbers starting with **P**, **Q** are on the 1st floor, Hall 2; Booth numbers starting with **R**, **S**, **V** are on the 4th floor, Hall 2.

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VOX POP

What do you think about the new Hall 2?



Rolf Kathrein-Lehman Ortlieb Heilsbronn, Germany

I think this new hall is really great — very convenient. In the European trade shows we have many different halls so we are used to tracking between them. You just need to get your orientation and keep in mind where you are exactly. So, a big thumbs up.



Kevin Lin Retailer Toufen, Taiwan

Hall 2 seems a lot wider, bigger, and more comfortable to walk around. Hall 1 just feels more crowded.

It's just a bit of a hassle in that every year, most of your suppliers are in the same place, more or less. But now a lot of them are in the new hall and finding them is a bit tricky. I have to relearn the locations.

I initially didn't know there was a walkway underneath the road. So I had to find my way across the street on my first visit.



Chuan Wei Industrial Yuanlin City, Taiwan

Hall 1 on the fourth floor is very clearly for complete bikes and foreign exhibitors. In the past, components exhibitors were mainly all together on the first floor.

But the new hall is a bit of a mess in that there is no clear classification system. Exhibitors have been placed at random. In addition, the separation of the halls makes it harder for visitors to organize their time for meetings. From the fourth floor of Hall 1 to the fourth floor of Hall 2 is quite a journey.

Terry Lin Sapience

Shan Pien

Township,

Taiwan



The information could be clearer. Quite a few people still don't know there is a Hall 2. Another thing is that the total space is smaller, but the walkway is wider. It gives the feeling of fewer visitors. If there was an opportunity to move back to Hall 1 then we would take it.



Edward Huang V-Grip Datong Village, Taiwan

New location or old location is not an issue. Sure, the hall space feels very comfortable, but when it comes down to it, this won't make any difference to business. Your business success depends on your own capabilities. Wildcards like changing locations are all part and parcel of doing business. We're used to it, and it's business as usual.



Judy Ho Limotec Taichung City, Taiwan

The separation of the halls means that customers have to track back and forth between the two. Customers' time is limited and they often have to pack meetings together in a short time. In the past it was just a matter of moving between the first and fourth floors of Hall 1.

But we certainly appreciate the bigger space over here [in Hall 2]. If, for instance, we had to make a choice between staying here and moving back to Hall 1, we'd have to think about that.



Jason Chang JCool Dali City, Taiwan

The booth layout all looks good and the foreign visitors are liking it. It's more compact than Hall 1, but that's good. You can almost see the full range of exhibitors along the aisles. The better visibility makes it easier to get around and find who you need to find. It's convenient.



David Tsai Seiki Huatan Changhua, Taiwan

Hall 2 is smaller, but the location is good. Visitors and exhibitors are all going through the process of getting used to it. The facilities are very good and the toilets are excellent.

Yesterday [Wednesday, the first show day] was pretty quiet, but today there are many more visitors. I'm thinking visitors probably spent the day over in Hall 1 and now have shifted their attention to Hall 2.

■ Glenn Reeves / Sabinna Den



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GENERAL SHOW INFORMATION

All events are at the Nangang Exhibition Halls unless otherwise noted.

GENERAL SHOW INFORMATION

TAIPEI CYCLE

WEDNESDAY - FRIDAY, **MARCH 27-29**

Show hours: 9 a.m. - 6 p.m. March 29 is a public day

SATURDAY, MARCH 30 (PUBLIC DAY)

Show hours: 9 a.m. - 3 p.m.

Venues: Nangang Exhibition Center Hall 1 (4th floor) and Hall 2 (1st and 4th floors)

TAIPEI CYCLE **ALL DAY EVENTS**

Outdoor Demo

Nangang Hall 1, South outdoor corridor

d&i Golden Awards Gallery Nangang Hall 2, 4th floor lobby

Theme Pavilions:

EU Pavilion Italy Pavilion Japan Pavilion Korea Pavilion

FRIDAY, MARCH 29 **PUBLIC DAY**

9 a.m. - 5 p.m. Taipei Cycle Forum 4F Room 401/Nangang Hall 1

TODAY'S CYCLE FORUM AGENDA:

Session C: E-bike Trends

8:30 - 9 a.m. Registration 9 a.m. - 12 noon: The Most Exciting E-bike Trends

- Marian Baukrowitz, research director, 4C Consumer Insiaht
- Susanne Brüsch, CEO, Pedelec Adventures
- Manuel Marsilio, general manager, the Confederation of the European Bicycle Industry (CONEBI)

Session D: Future City

1:30 - 2 p.m. Registration 2 - 5 p.m. Cycling in the Cities of the Future

- Morten Kabell, CEO, Copenhagenize Design Company
- Shyue-tair Chen, commissioner of the Department of Transportation for the Taipei City Government
- Kevin Mayne, CEO, Cycling Industries Europe

NT\$1,000 per session at the door



Marian Baukrowitz of 4C Consumer Insight is one of today's speakers at the Taipei Cycle Forum

9:30 a.m. - 5 p.m. **Taipei Cycle Salon**

4F/Nangang Hall 1 Smart Cycling Pavilion Note: Most speeches will be in Chinese without English translation

> 9:30 a.m. -12 noon **Morning Session: Bicvcle Culture Forum**

> > 2:30 - 5 p.m.

Afternoon Session: **Bike Travel Talks**

SATURDAY, MARCH 30 PUBLIC DAY

9:30 a.m. - 2 p.m. Taipei Cycle Salon 4F/Nangang Hall 1 Smart Cycling Pavilion

9:30 a.m. - 12 noon Morning Session: 1 on 1 Sprint **Roller Racing**

1 - 2 p.m.

Mid-day Session: Rapha Custom **Sharing Event**

SHUTTLE BUS ROUTES

Hotel Shuttle (depart from Nangang Exhibition Center, Hall 1)

Service Hours Mar 27-29: 17:45, 18:00, 18:15, 18:30 Mar 30: 14:45, 15:00, 15:15, 15:30

Courtyard Marriott《Nangang MRT Station》(台北六福萬怡 酒店《捷運南港站》) — Gallery Hotel [麒麟商旅] — Hotel Qoute Taipei [闊旅館] → FX Hotel [富驛時尚酒店]

Shangri-La's Far Eastern Plaza Hotel Taipei (香格里拉台北 遠東國際大飯店) → Hotel Éclat Taipei(台北怡亨酒店) → Howard Plaza Hotel Taipei (台北福華大飯店) → Fullon Hotel Tainei [台北福容大飯店]

ROUTE C

amba Taipei Songshan [松山意舍酒店] → Taipei Fullerton Hotel《Nangang MRT Station》[台北馥敦飯店《南京館》] → Sunworld Dynasty Taipei [台北王朝大酒店] → Brother Hotel [兄弟大飯店]

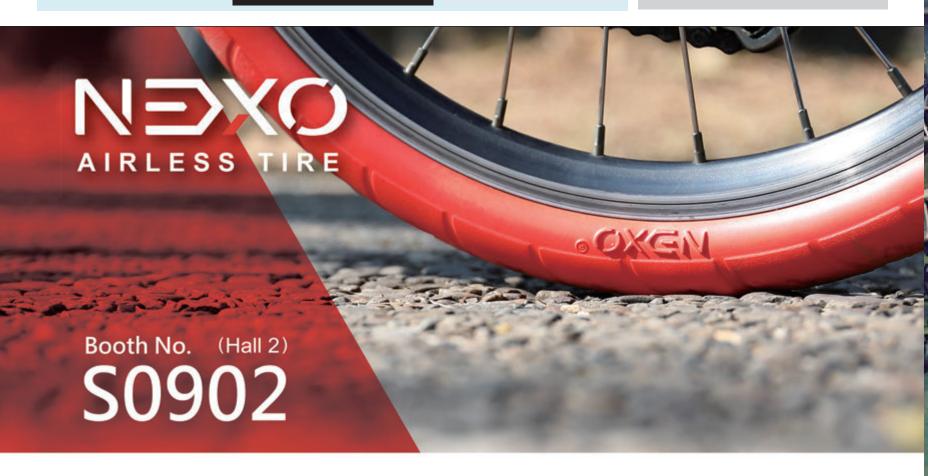
ROUTE

LA Maison Hotel [宜家商旅] $\,
ightarrow\,$ Grand Victoria Hotel [維多麗 亞酒店《大直》 → The Grand Hotel (台北圓山大飯店) → The Imperial Hotel Taipei 《near MRT Zhongshan Elementary School Station》(華國大飯店《近捷運中山國小》)

ROUTE E

PALAIS de CHINE (台北君品酒店) → Fortune Hiva Hotel (福 君海悅] → CAESAR PARK《MRT Taipei Main Station》 [台北 凱撒大飯店《捷運台北車站》) — Cosmos Hotel Taipei(台北 天成大飯店] \rightarrow Taipei Garden Hotel [台北花園酒店]

Miramar Garden Taipei [台北美麗信花園酒店] → The Evergreen Laurel Hotel [長榮桂冠酒店《台北》] → The Ambassador Hotel Taipei [台北國賓大飯店] → Royal Seasons Hotel《Nanjing West》[台北皇家季節酒店《台北南西館》]





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DAY 2 **SNAPSHOTS**



It's a small world at the velo city stand.



Rotor has the only rear derailleur capable of shifting 13 gears.



Pick up your copy of the Show Daily at all entrances to the show.

Míd-motor e-bíkes at the Sanfa stand



The 2019 Innova Cup 48h Endurance Race of Taiwan departed from Nangang Hall 2 yesterday morning.



Nothing can puncture Nexo tires.



At the Alligator stand: the Moto Parilla Ultra Carbon – a super Parilla Ultra Carbon – a super Powerful hybrid bicycle/motorcycle

At the Fairly stand, this eFlow is the Rolls Royce of sharing bikes.







DON'T KNOCK THIS WOOD

You don't see much wood among the sea of carbon frames and alloy components at Taipei Cycle — especially a product that retails for \$1,200.

But the Wooden Trolley at Hazel HALL 2/4F/R1210 is no simple hunk of lumber. Intended for professional mechanics, it's constructed from pieces of FSC-certified hazelwood from Taiwan which are then run through CNC machines.

Trays glide open and shut with impressive smoothness, proof of its fine carpentry. Hazel will customize the EVA drawer liners that hold tools in place at the customer's request. The trolley weighs 105kg (231 pounds).

The Wooden Trolley's creator, James Li, also makes foam floor and yoga mats but wanted to do something unique.

The idea came from a request by a bicycle brand that needed special packaging for a limited-edition range of tools. Li made them a toolbox of fine wood with intricately CNC'd inserts. "The feedback was so positive that I decided to take things a few steps further, and founded Hazel."

The Wooden Trolley is too pricey for Taiwan bikeshops, so Li looks for sales abroad. "Sofar I have sold 50 units of the Wooden Trolley to North America, various countries in Europe, and to Japan and South Korea," he said.

Laurens van Rooiien



Hazel founder James Li and his Wooden Trolley

EFLOW LOOKS TO MAKE BIKESHARING RESPECTABLE

Thanks to overly aggressive operators, bikesharing has often made headlines for the wrong reasons.

ow, Fairly and its European subsidiary, eFlow, are attempting to clean up the sometimes disreputable image of bikesharing.

Based in New Taipei City away from the industry's Taichung hub — Fairly Bike Manufacturing HALL 1/4F/M0519 is entering the bikeshare market step by step, instead of attempting the kind of shock and awe campaigns mounted by such operators as Ofo and Mobike.

It started by supplying 2,000 share bikes to the twin German cities of Mainz and Wiesbaden. Bernd Adamski, CEO of eFlow, said officials wanted to replace their existing fleet of 4.000 share bikes.

"But the two cities could not find any existing sharing bikes that met their needs, so they contacted our offices," Adamski said in an interview Thursday. "Upon analyzing what exactly they wanted, we set off to design a bike to meet their needs."

Instead of looking for bikes that were as cheap as possible, Mainz and Wiesbaden sought vehicles that would be sustainable and vandal-resistant.

"From the sturdy alloy frame with a tough powder coating to the fully integrated cables, the well-protected head light, the closed chain case, Enviolo's internal transmission hub and Pintorx screws, the bike we came up with is easy to use, hard to damage and low on maintenance," Adamski said.

Fairly and eFlow also came up with a modular design so the fleet could mix conventional and electrified bikes.

"Both versions share most spare parts, so fleet operators do not need to store two separate stocks of spare parts, and the handling is more standard-



eFlow CEO Bernd Adamski with the company's sturdy, modular — and expensive - electric share bike

ized as well," he said.

The eFlow sharebike can even accommodate docked or dockless systems with a simple conversion, Adamski said thus sidestepping one of the most hotly contested issues in today's bikeshare industry.

"The conversion from dockless to dock-based versions is straightforward," he said. It involves a metal safety bar that keeps the headlight out of harm's way. For docked systems, eFlow replaces the bar with a component that fits into the docks.

Docked and dockless bikes use the same smart lock that can be converted to either use by adjusting the software. The sharebikes also are equipped to handle inductive charging.

System operators appreciate the fact that the eFlow sharebike has plenty of space for advertising, which helps underwrite many bikeshare systems.

That's especially welcome Laurens van Rooijen

because the eFlow bikes cost roughly six times as much as their Chinese-made rivals. eFlow sells its conventional share bike for about €1,500 (\$2,060), and the electrified version for about €2.500 (\$3,400).

Fairly and eFlow aren't stopping with share bikes, however. They are also working on an electric motor scooter that will provide a longer-range option for share system customers who want to travel considerably longer distances.

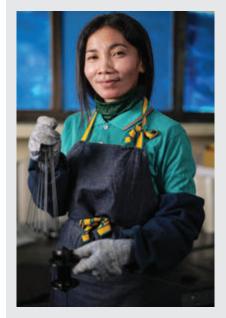
"The development of the scooter has reached about 90 percent of completion, but we'd rather not set a fixed date when it will be premiered," Adamski said.

With the scooter, Fairly and eFlow will be able to offer a full e-mobility package for cities that want to introduce bike- and scooter-share systems that aren't based around as-cheap-as-possible vehicles.



THE BIKEMAKERS BEHIND THE BIKES

While you're drooling over the hottest new bikes at Taipei Cycle, take a moment to acknowledge the craftsmen and women who made them.



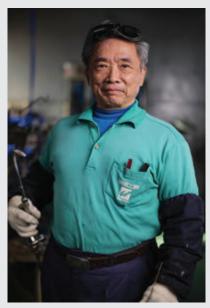
photography exhibit at the show honors the men and women of Taiwan's bike factories with a series of spare, dignified portraits.

Darryl Carey, a professional photographer based in New Zealand, spent months visiting some of Taiwan's biggest and oldest bicycle factories to produce this



unique exhibition. Factory owners gave him exclusive access.

"Many people believe that only automated machines and robots build the bicycle components along the production chain," Carrey said in a narrative that accompanies the exhibit. "However, this is far from the truth as almost all the main factories have a large



human resource workforce."

He adds, "As you can see, most of the workforce are middle-aged and have worked at the factory for most of their working lives and more than one generation. Everyone was dedicated and passionate in their role and valued their importance within the production chain in the manufacturing of the

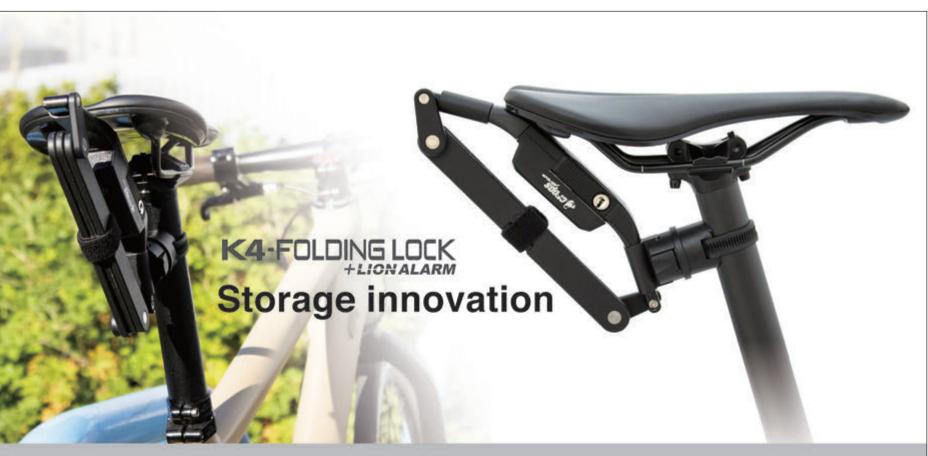


bicycles we see and purchase today."

Carey said he had been thinking about the project for three years, and started after last year's Taipei Cycle.

The exhibit is on display in the ground floor lobby of Hall 2. ■

Photos courtesy of Darryl Carey











Friday, March 29, 2019

TAIPE! CYCLE

SANTINI EXPANDS TRIATHLON LINE WITH IRONMAN LICENSING DEAL

Santini is known for its cycling apparel, but the Italian company is expanding its presence in triathlon under a new licensing agreement with Ironman, which operates more than 260 triathlons and other athletic events in 44 countries.

hat we really like to do is to bring into triath-Ion a lot of the experience and research that we did for cycling," Monica Santini, chief executive of Santini HALL 1/4F/L0228 said at the company's Taipei Cycle booth.

In Taipei, Santini is showing some of the company's first triathlon pieces under the licensing deal, with the Ironman logo integrated in the design. "The line is really highend, very technical and very aerodynamic," she said.

The apparel brand has been involved in triathlon for eight years, and the segment now accounts for about 8 percent of Santini's overall sales, or €18 million (\$25 million) last year. Santini wants to increase that share to 25 percent without slowing its growth in other catego-

The Ironman relationship should give a boost to Santini's push into the triathlon market. "We decided that if we wanted really to reach the goal to be visible globally, we needed to have a major sponsorship," the CEO said.

Santini said the Ironman deal involves a range of merchandise and exclusive global rights for Ironmanbranded triathlon and cycling garments. Ironman's other partners are Roka for swimming gear and Hoka One One for running footwear.

"Our goal is to be recognized as the triathlon brand," Santini said, "and once these athletes decide that they want to guit the long distance and stick with bicycle clothing, we are the brand that is going to be there for them."

The chief executive runs the company with her sister, Paola an occasional triathlete who is in charge of marketing at Santini.

■ Barbara Smit



Monica Santini displays two of the pieces in her company's new Ironman triathlon apparel line.

ALPINESTARS BRANCHES INTO CYCLING HELMETS

Enduro and motocross riders already wear Alpinestars protective gear on their knees and elbows. Soon they'll be able to wear it on their heads, as the Italian brand is branching into cycling helmets.

e have enlarged our research and development team for helmets in Asolo to cover the enduro and motocross categories," Francesco Florian, market researcher at Alpinestars, HALL

1/4F/L0523a said at the booth. The brand is based in Asolo, Italy,

The helmet division previously focused on motorcycling. The new cycling helmets come in two versions, one of them with MIPS technology. MIPS, which stands for "Multi-Directional Impact Protection System," was designed to protect against rotational motion in the brain from impacts.

The Taipei Cycle launch marks the Italian company's return to show after skipping it last year.

Alpinestars also launched a line of distinctive women's apparel that is on display in Taipei.

"Previously, the women's products were basically the same as for men." Florian said. "This is the first time we have garments that are really designed for women

from the start."

The range consists of about 10 products, including jerseys. The flagship women's product for fall is the Stella Nalini jacket, which is insulated with Primaloft. A stretch panel at the back allows for more freedom of movement, and the hood is compatible with helmets.

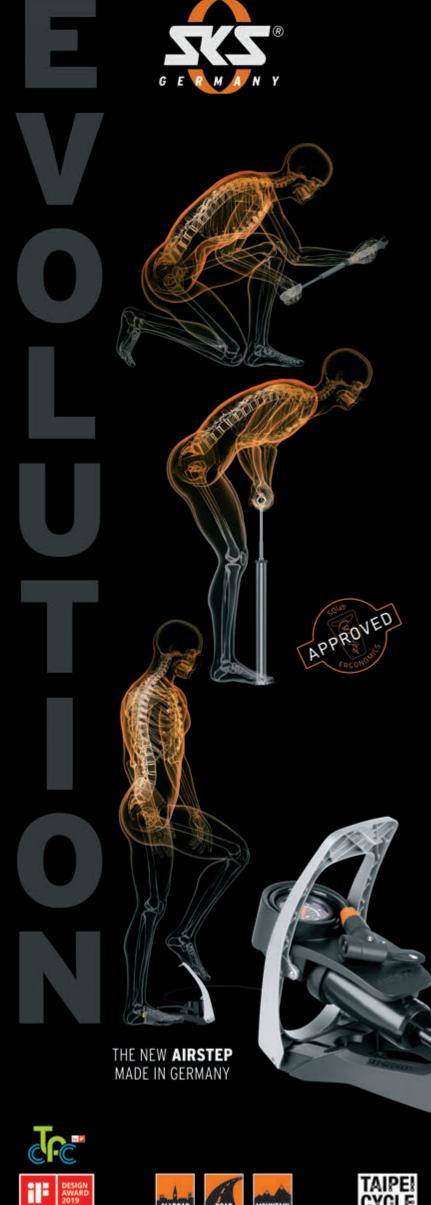
Unlike the men's versions, the women's shorts come with integrated padding.

Sante Mazzarolo, an Italian leather craftsman, founded Alpinestars to make motocross boots.

Barbara Smit



A new Alpinestars cycling helmet







OVERVIEW: FOLDING BIKES

THIS NEW CROP OF FOLDING BIKES ARE MIGHTY SMALL BUT MIGHTY POWERFUL

The folding bike is one of cycling's great design challenges. It must balance the need for a compact folded package with the desire for full-sized ride characteristics.

hile they are not immune to electrification, adding a motor and battery increases a folder's complexity. While the extra parts needed for electric assist systems can stymie the portability of a folded bike, the miniaturization of battery technology is helping keep e-folders as light as possible.



Jivr, HALL 1/4F/L0130 equipped with electric assist, has one of the quickest folds we've ever seen. Once folded it can still be wheeled easily - especially crucial for an e-folder, to offset the increased weight of the battery and motor.

The rest of its design is no less smart either. By using a unique single-sided chainstay that completely encloses the drivetrain, the Jivr reduces maintenance and keeps a rider's clothes clean and snag-free.

The futuristic-looking Jivr also features digital connectivity so users can control and monitor its features on a smartphone. Having generated serious interest during a recent crowdfunding drive, the production version of the Jivr will feature a 250-watt front hub motor. Its has a matching wheelset, while the maker says the Jivr can cover 50km (31 miles) on a single charge — more than enough to get around town.



Cosmos Co-Polaris



Tern Vektron D8 folded

Chedech, HALL 1/4F/L0405a a

bike made that folds in three steps, is light and compact. How light? Choose the Shimano Dura-Ace-equipped Air version, and it weighs a ridiculously light 6.8kg (15 pounds). The somewhat less svelte White and Landmark models use a Sturmey Archer 5-speed internal gear hub.

To keep weight down, every model includes a carbon handlebar, steering assembly, fork, seatpost, and mudguard. The super-light Air



more workhorse 5-speed models feature a tougher multi-spoke construction. The 5-speed models have

an integrated carbon fender that covers the rear wheel, and a TPU suspension system for comfort that can be tuned to a rider's weight and preferences.

Components from Schwalbe, Shimano, and Tektro complete the package, and users can choose a dedicated rear rack. The Chedech models use mid-sized 18-inch wheels and fold down to dimensions of 71cm long by 35cm wide by 60cm high (28 inches by 14 inches by 24 inches), making it one of the most portable bikes on the market.

In its quest to accommodate fullsized handling and a compact carry. Cosmos HALL 1/4F/N1208 uses 20-inch wheels on its Co-Polaris model. To balance out negative effects on the bike's carryability, Cosmos uses a very light carbon fiber construction.

The Co-Polaris manages includes a 22-speed drivetrain and hydraulic disc brakes but weighs 9.5kg. While it's easily small enough for a daily commute, its stiff frame and fullfeatured groupset make it a good companion for longer journeys.

The flowing lines of the carbon chassis and seatpost also give it a



Zephyr Tromsø

race-oriented look. The Co-Polaris is a good travel companion because it goes just about anywhere - including on most airlines.

At the outdoor demo area, **Sport** Mania International (also exhibiting at HALL 2/4F/S0602) is hosting a range of Tern bikes, including the diminutive Vektron D8 e-folder. Folding in 10 seconds flat, this folder, equipped with a Bafang M400 Drive System, is ready for any commute.



KTM Macina Fold

Chunky, puncture-resistant Schwalbe Big Apple tires eat up potholes, broken glass, and whatever else awaits riders on the mean streets. Above them sit mudguards to keep riders dry, while a rear rack takes care of luggage.

The 250-watt Bafang mid-drive motor produces a maximum speed of 25 kph (EU) or 20 mph (US), so it's as fast as a full-sized hybrid but small enough to store in the office or take on the train.

HALL 1/4F/N0824 Lekuma makes small bikes for traveling around a large planet. Its E-Go electric model is not just tiny, but is airplane-ready. Its lithium-ion battery is enclosed within the frame and meets airline safety standards so it can fly with its rider. The E-Go's 10inch wheels — among the smallest found on any folding bike — ensure that its folded size is equally small, and at 13kg the bike won't be a drag.

A 250-watt brushless motor provides assistance, while integrated lights keep riders safe. They can be activated via a multi-function control panel.

Also electric is the Tromsø from Zephyr. HALL 1/4F/M1435 It's hard to tell at first that there is a battery and motor onboard — the lithium-



Onipax R1



ion battery is housed in the seat bag.

A 7-speed Shimano Tourney system drives the Tromsø's 20-inch wheels, and with other conventional bike parts including a stiff bar and stem, it rides like a full-sized bike.

The battery is removable, but even when attached the bike weighs 15.5kg. Its 250-watt hub motor and battery offer a range of around 50km.

The chunkier Macina Fold from KTM HALL 1/4F/M0802 is a monster of an electric folding bike, but still collapses into a compact unit in a few seconds.

At the heart of the 20-inch bike is a smooth, silent Bosch Active Plus motor and a sizeable 500Wh PowerTube battery, integrated into the downtube.

A Shimano Nexus 8-speed hub provides a nice range of gearing, and a belt drive cuts down on maintenance. The Macina Fold rides like a much larger bike, and its stepthrough frame make it easy to use.

The battery is removable and can be recharged on or off the bike. Hydraulic disc brakes, mudguards, Busch & Müller lights, and a robust rear carrier make the Macina Fold a machine of a folding bike.

Oyama HALL 1/4F/N0506 updated one of its popular models to create the top-of-the-line CX E8D Series II e-folder.

A brawny 350-watt hub drive motor with torque sensor gets riders moving, while hydraulic disc brakes ensure they can stop. With long experience in folding bikes, Oyama builds in sturdiness with a light aluminum frame, Shimano 8-speed gearing, Schwalbe Big Apple tires, and double-wall alloy rims.

Equally tough are the CNC-machined seatpost, folding stem, and safety frame latch, all of which will withstand years of day-in-day-out usage. The bike includes a rear rack, fenders and kickstand - and Oyama even includes a handlebar bell.

Hasa HALL 1/4F/NO416 is expanding its range of folding bikes to accompany its conventional models, and has recently introduced electrified folders.

One is the Halo, which takes its cues from Hasa's established F1 range. The Halo mounts a 36-volt battery on a rack above the rear

wheel, which drives the front hub motor and headlight.

A 9-speed Shimano derailleur works with a sizable Saga Wingfoot 53-teeth chainring. Its 20-inch wheels come wrapped in fast-rolling 1.5-inch-wide Kenda tires, while mechanical Shimano disc brakes are powerful and low maintenance. The Halo weighs 18kg including battery, so riders can carry it as

With more than two decades of bikemaking experience, Taiwan's Onipax HALL 2/1F/Q0933 has always focused on safety and durability. It uses 3D forging technology to create folding joints that offer superior strength to many cheaper alternatives.

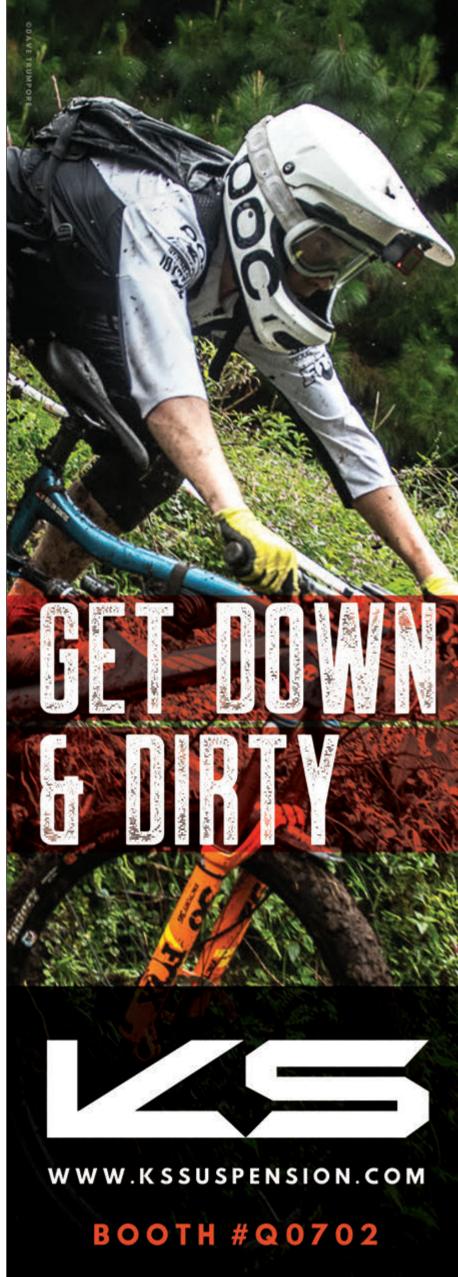
Now, Onipax is developing bikes with electric assistance and belt drives, with options ranging from the J160 with 16-inch wheels to the M27.5, with full-height 27.5-inch wheels.

One standout is the 11kg R1, a 20-inch bike that incorporates a Shimano Tiagra groupset, 6061 aluminum frame and OPX5.1 foldable and extendable stem, which Onipax makes in-house. It's fast enough for roadies who want a bike they can travel with without the hassle of carrying a full-sized bike.

Finally, if you're considering creating a folding bike yourself, M-Nova HALL 1/4F/M0501 offers a design consultancy service. With services that range from creating a brand identity and designing decals down to the nitty-gritty of choosing components and configuration, the M-Nova team is ready to help guide your idea from dream to reality. Because the M-Nova team attends shows around the world, they can also help with planning launch events for maximum publicity. Joe Delves



Oyama CX E8D folded



OVERVIEW: GRIPS

GRIP 'N GRIN WITH BETTER CONTROL AND COMFORT

Grips and bar tape may seem like afterthoughts, but as one of only three contact points between rider and machine, they play an essential role in how a bike feels.



VP Simo BS11

tention on the other two contact points with such innovations as ergonomic saddles and specialized pedals. But grips and bar tapes have also evolved, from the use of new materials, treads and shapes to the ways they mount on the bike.

Ergonomic grips now are often found on utility and trekking bikes with a more upright position in the saddle. Their articulated wingshaped extensions offer better support for hands and wrists.

Intricate treads on a grip's surface help riders absorb shocks and vibrations while providing plenty of traction in bad weather.

Some grip makers are trying different materials, such as plastic from recycled PET bottles or a mix of silicone and rubber.

Motorcycle know-how lies behind the new Simo grips from VP Components, HALL 2/1F/Q1018 which are built around a material made of liquid silicone rubber.

VP says this material combines a high friction coefficient in dry and

he industry has put a lot of at- wet conditions for grip, while its softness and flexibility ease hand and lower arm fatigue.

The material is more durable than grips made of thermoplastic rubber, VP says, because it is more resistant to UV exposure and extreme temperatures.

It does not absorb water, and because it does not stain or bleach easily, the material accommodates a range of colors that resist fading.

VP Components offers two Simo grips. The slim, minimalist, and light BS06 model uses a slipon installation without clamps. The BS11 has a single aluminum clamp for easy, twist-free mounting. The grips come with four dedicated grip zones with specific patterns.

Ergon, HALL 1/4F/M0612 whose name is derived from "ergonomics," has been a pioneer in developing new grip shapes and diameters.

The wings of its comfort grips are much more articulated for trekking and utility bikes, while the GA3 model for mountain bikes comes with smaller extensions, combining

hands and wrists with the necessary freedom of movement for tricky terrain. For 2019, the GA3

additional support for

and popular GA2 models will come in Single Twist Shift versions that cater to builds with just one twist shifter on the handlebar — be it internal transmissions Rohloff and Pinion or a one-by drivetrain from SRAM.

The left grip is full width, while the right is significantly shorter to sit next to a twist shifter.

For better grip, Ergon uses its proprietary Gravity Control Rubber post lever.



WTB PadLoc grips

of higher density rubber on the inboard end of the grips — which Spank dubs the Anatomic Thumb Zone — reduces friction when riders shift gears or use a remote dropper

Spike Grip from Spank

the surface. The clamping mechanism is neatly integrated into the grips' outer ends, so riders can use their full width.

Known for its pedals, handlebars, stems, and wheels, **Spank Industries** HALL 1/4F/L1001 expands into grips for 2019. The Spike Grip comes in 30mm or 33mm diameters for different hand sizes. Both versions use an inboard aluminum clamp for easy, twist-free mounting and come in several colors.

At a width of 145mm, the Spike Grips make good use of the additional space on modern. extra-wide handlebars. Tapered outer ends impacts from

A pattern of interlocking columns on the contact surface spaced along each fin provide traction and comfort. Large cut-outs in the plastic base of the Spank Grips improve damping. A smooth section made

The last thing a rider wants to feel on a technical section in rough terrain is a grip that unexpectedly twists on the handlebar. WTB HALL 1/4F/L0826 of-

fers a distinctive solution: Its patented Pad-Loc grips come with a wedge on the outer end that has been designed to exactly fit the ends of a specifically cut or designed handlebar.

WTB says this elimi-

nates rotational moveand intricate directional patterns on ment of the grips on the handlebar. An inboard clamping ring keeps PadLoc grips safely in place.

WTB offers six grip surfaces, ranging from comfort-oriented models with wing-shaped extensions to super-short grips for use with twist shifters.

Since riders may not want special handlebars just to fit a set of grips, WTB also offers the Wafel grip, with extra-sticky rubber and a single inboard lockring. Large conforming rubber blocks on the surface are spaced widely enough



Herrmans Luna Lock grips

crashes and protect the handlebars. for fit, and provide exit channels for muck and water.

> While many of the grips in this roundup are designed for the aftermarket, Finnish manufacturer Her-rmans HALL 1/4F/M0202 targets



Ergon GA3 Single Twist Shift version

Friday, March 29, 2019 TAIPE! CYGLE 15



T-One Diamond grip

OE manufacturers with its versatile new Luna Lock Grip.

Herrmans uses two compounds of non-toxic materials that it sources from Europe. A harder compound at the core provides a solid foundation, while a softer compound on the surface incorporates gradual, spiraling grooves for grip and comfort, and reduces fingertip pressure.

The aluminum lockring comes in nine colors, and Herrmans can add a personalized logo on the outer edge for OE customization.

T-One, HALL 2/4F/S0232 a subsidiary of Thunder Graphic, introduces the Diamond for 2019, which comes on the heels of its innovative Bricko grip. The grip is segmented so riders can customize the width. An improved locking structure eliminates twisting or play, and the angular diamond shape of the grip's surface adds plenty of traction.

T-One is also launching grips made of transparent rubber that won't conflict with handlebars that incorporate intricate finishes and designs. The company also promises to show two new grips at Taipei Cycle that were not finished at press time.

Known for its brakes, tools and parts, **Clarks HALL 1/4F/L1012** launches an ergonomic grip at Taipei Cycle. The 130mm-wide

C-G242 uses a TÜV-certified thermoplastic rubber compound with wing-shaped extensions for lots of comfort and support. The outer end is closed and padded for safety. An inboard clamp allows for guick mounting.

As one of the world's biggest saddle makers, **Velo Enterprise HALL 2/1F/Q0614** knows a lot about contact points.

Velo applies its proprietary Microtech technology to a full range of grips, made for styles from conventional and electric mountain bikes to trekking and utility bikes. The manufacturing process creates detailed texturing on the surface to boost friction and the rider's grip.

Higher-end models use anodized aluminum clamps for mounting, while other models use clamps made of reinforced plastic.

Sustainability is the focus of Apex Products HALL 2/4F/ S0224 with its PET Bike Grips. The contact surface is made of a woven plastic derived from recycled PET bottles.

The grips come in five colors and are 130mm wide, with a conventional round shape. A slightly wider version uses wingshaped extensions for support.

Laurens van Rooijen





Clarks C-G242 grip

EUROBIKE, NEO TEAM UP FOR NEW OCTOBER TRADE SHOW IN BANGKOK

A new bicycle industry trade show for the growing Southeast Asia market will debut Oct. 3-5 in Bangkok, Thailand.



Stefan Reisinger (left), head of Eurobike, and Sakchai Pattarapreechakul, President of N.C.C. Exhibition Organization Co.,Ltd. (NEO), celebrate the signing of a joint venture to produce the new ASEANBIKE show in Bangkok.

It's a 50-50 joint venture between Eurobike and N.C.C. Exhibition Organizer (NEO), a Bangkok company that organizes a June consumer bike show in the Thailand capital. The new show will be called "ASEANBIKE powered by Eurobike."

ASEAN is the acronym for the 10-country Association of Southeast Asian Nations. Eurobike head Stefan Reisinger said the region has been an increasingly important sourcing, production and export market for bikes, electric bikes and parts. It also represents a growing consumer market.

"Traditionally strong, these markets have been important in the fields of sourcing, accessories and apparel for years. Regardless, Indonesia, Malaysia, Philippines, Singapore, Thailand, Brunei, Vietnam, Laos, Myanmar, and Cambodia are also developing an increasing sports and leisure culture, as well as a growing awareness of sustainable mobility," Reisinger said, listing the 10 member nations of ASEAN.

Organizers say Southeast Asia is an increasingly attractive manufacturing base for Western brands, not least because of punitive tariffs and anti-dumping duties affecting Chinese-made goods.

"Many of the ASEAN market countries see increasing sales and rising potential for the international bicycle and micromobility industry," Reisinger added. "In addition to a number of local manufacturers, brands, import-

ers and wholesalers from Thailand and neighboring countries, ASEANBIKE has received commitments from major OEMs and suppliers in Taiwan and China, as well as prominent Western commitments."

NEO, the local organizer, said the show will have all of the hallmarks of a major trade show.

"ASEANBIKE will offer multiple exhibition and meeting options, from classic trade show booths to OE meetings, importer meetings and retailer meetings, right through to test/demo tracks, group rides and more," NEO president Sakchai Pattarapreechakul said.

NEO will change the name of its June consumer show from International Bangkok Bike to Bicycle Super Sale to reduce confusion between the two.

NEO projects the new show will draw more than 55,000 visitors from around the world, who will transact business worth more than 4,000 million baht (€110 million: \$126 million).

The show is open to OEM manufacturers, brands, importers and distributors as well as retailers and service providers.

ASEANBIKE will take place at the Impact Exhibition and Convention Center in Bangkok, a state-of-the-art trade fair and conference center with excellent infrastructure and transport links.

For more information, visit www.asean-bike.com and www. eurobike-show.com.

■ Tom Kavanagh

E-BIKES AND SOPHISTICATED DRIVETRAINS SET OFF A CHAIN REACTION AMONG CHAIN MAKERS

Recent drivetrain developments have touched off a literal chain reaction. Bicycle chains have been significantly redesigned to be compatible with the radical changes that the industry has seen in other drivetrain components.



KMC e12 e-bike chain

with cassette cogs of up to 52 teeth, chains have gotten narrower, to accommodate the closer spacing between cassette cogs, while their links have gotten shorter.

Until a few years ago, chains were built for human-powered bikes. Now, with the explosive growth of e-bikes, chain manufacturers have to create solutions that can stand up to bikes that have not only more gears, but more power.

Early in the e-bike revolution, ebike brands had to rely on traditional bicycle chains because chains made for the rigors of electric motors didn't exist. Now, e-bike brands and riders can choose from a selection of chains that are hefty enough to withstand the higher forces generated by e-bike drivetrains and outlast traditional chains.

You could call these new chains the "missing link," because they ensure that these fancy, sophisticated new drivetrains will keep running smoothly for a long time.

KMC HALL 2/1F/P0114 presents its e12 e-bike chain for 12-speed e-

o accommodate 11-, 12-, and bikes. KMC developed its e-bike now 13-speed drivetrains, chain series in collaboration with motor manufacturers to fit both mid-drive and hub motor systems.

> The new chain fills a demand among cyclists who want a 12-speed setup on their e-bikes. KMC's new patented riveting technology enables the e-bike chain to withstand higher torsional stresses created by mid-drive motors. With a tensile strength of 1,050kgf, KMC said the chain exceeds the international standard by 30 percent.

> KMC also offers a series of e-bike sprockets and chains for OEMs. The "Chain Mate" series features gear teeth and chain angles optimally seated with the chain rollers for more efficient power transmission and increased chain life. KMC guarantees that a Chain Mate combo featuring its e101 EPT chain, paired with 3mm sprockets, will last for at least 10,000km (6,200 miles).

> Taya Chain HALL 2/1F/Q0302 has alluded to the development of a 12-speed e-bike chain, but its focus at Taipei Cycle is the new El Onze-117 11-speed chain.

> The chain is the latest addition to Tava's Onze line, but comes with

distinctions. Weighing notable 230g (8 ounces), the El Onze is 40 percent lighter than rival 11-speed chains, according to Taya.

Taya treats the steel chain with its Diamond Hard Technology to resist fatigue, stretching, and surface wear. A self-lubricating groove design in the plate traps lube at the link joints where it's most effective.

Taya's new Onze attaches the roller to the inner plate for smoother, quieter shifting. While the chain life of previous Onze chains maxed out at about 7,000km, Taya says the El Onze-117 will keep rolling for 8.000km.

When e-bike drivetrains went to

frames equipped with mid-drive motors, starting with the 2020 model year. Gates already supplies belt drives to 100 e-bike brands worldwide.

In collaboration with Shimano, Gates will launch a new series of sprockets, called YMN, that are compatible with Shimano's new Nexus Inter-5E internal gear hub for e-bikes, and with the Shimano Steps mid-drive motor system.

Other e-bike products Gates is debuting at Taipei Cycle include new front sprockets for the Shimano Steps E6100 mid-drive system for city and trekking bikes, and preproduction sprockets for forthcom-



Gates translucent Honey Belt

11 speeds, Taya responded with the ing Bosch mid-drive motors. e-Onze 111 chain. In an email, Taya's brand marketing manager, Tim Chang, remarked that 12-speed ebike systems are a key foocus in the near future.

If that's the case, perhaps we'll see more 12-speed chains from manufacturers like **Yaban Chain HALL 2/1F/Q0130** and **PYC (Lixing)** Chain. HALL 2/4F/R1409

From the beginning, Gates Carbon Drive HALL 1/4F/L0717 designed its unprecedented carbon belt drive to sustain heavy loads. making it ideal for e-bikes. For proof, Gates conducted a laboratory test at peak load of its CDX CenterTrack belt. The company says the belt drive survived for 10,000 miles (16,000km), compared with 275 miles for an standard e-bike chain.

Now. Gates adds a new option to its premium CDX and value-oriented CDN belt drives for e-bikes in response to requests from product managers. Its new 137-tooth belt length is designed for larger e-bike

Finally, for anyone curious about the materials science behind the Gates carbon belt drive, the company is showing a special edition honey-colored belt at its both. The translucent Carbon Drive Honev Belt shows the carbon fiber cords inside, providing a unique window into the science and technology behind the Gates Carbon Drive.

The distinction for the most radically reimagined chain goes to SRAM HALL 1/4F/M0302 for its Red chain, introduced in February as part of its Red eTap AXS 12-speed groupset (See the Wednesday issue of the Taipei Show Daily for more on the groupset).

The chain's defining feature is its flat top, a trademarked design exclusive to the Red eTap AXS. SRAM made the chain's plates thinner to be compatible with the system's redesigned cassette, but added material to the top of the chain plates to maintain chain strength. ■ Wendy Booher



Taya El Onze-117 11-speed chain



SRAM's unusual flat-top chain for the Red eTap AXS 12-speed groupset

OVERVIEW: ASIAN CYCLING APPAREL

BIKEWEAR BRANDS LEARN TO FIT ASIAN CYCLISTS, ASIAN CLIMATES

Asian manufacturers crank out a lot of cycling hardware. But as the region's cycling market grows, there's increasing need for better "softwear" - apparel that fits Asian riders and Asian climates.



Ohio Sport One Piece manga-themed jersey

aiwan's cycling scene provides a good example of some of these differences. From cycling lanes and bikeshare systems in the center of big cities to Taiwan's Cycle Route No. 1 that circumnavigates the island, Taiwan has put a lot of effort into promotina cyclina.

Large groups of cyclists riding early in the morning or after work are common sights in Taiwan. And with the KOM Challenge, the country hosts one of the cycling world's toughest sporting events. No wonder Taiwan successfully markets itself as a "bicycle kingdom."

But anyone who's ever ridden a bike in Taiwan knows that its hot. humid climate is a formidable obstacle. It brings out the sweat even without any climbs to conquer.

In the northern reaches of Asia such as Japan and South Korea, the requirements for functional bikewear are similar to those in Europe and North America. Head to the more tropical regions of Taiwan. and especially Southeast Asia, and the climate poses a more serious

"The northern parts of Asia have a cooler climate similar to Europe, and therefore product demands in those two regions might not be too different," said Bryan Fanchiang,



general manager of **Frontier Sport** ence to keep in mind," said (at **MET HALL 2/4F/S0826**). "But Jerry Kao of **Ohio Sport** in the more southern parts of Asia, sun protection is a really big factor that we need to consider when developing products. As you know, the weather in Taiwan is hot and humid for most of the year."

By using a generous amount of thin, mesh-like fabric that still offers sun protection of UPF 50+, Frontier Sport's athletically cut Cosmos jersey and Alchemy bib shorts are examples of bikewear that is highly breathable and fast-wicking, but offers plenty of protection from UV rays.

The jersey and bibshorts are made of high-quality Italian fabrics, and the shorts incorporate a Fiandre chamois from Elastic Interface. Both pieces are highly functional, and the shorts offer some compression.

For riding at dawn or dusk, Frontier Sport adds reflective elements in strategic places.



Shimano Climbers iersev & arm sleeves

Another way to protect skin from the sun without adding unnecessary insulation or bulk is by wearing super-thin arm and leg covers.

Shimano HALL 1/4F/M0814 has expanded its apparel line with these types of arm and leg sleeves. available in black or white.

Shimano's lightweight Evolve jersey staves off heat and humidity with a mesh inner layer that offers full UPF 50+ protection.

Shimano's coolest jersey, the Climbers, is constructed entirely of

dual-layer mesh fabric panels, ideal for those hot and humid days.

Climate considerations aside, one of the biggest differences between European and Asian bikewear is sizing.

'A size large in Asia equals a size medium in Furope and a size small in North America. so this is an important differ-

HALL 1/4F/N0020 and of Sea Out Wear.

The proportions change when apparel shrinks, adding another wrinkle to the design process.

"For better looks, female cyclists in Asia prefer to wear shorter bibshorts. We have created a model called Deco with a shorter inseam length," said Monica Santini, CEO of the Italian bikewear brand Santini. HALL 1/4F/L0228

'We also produce similar bibshorts for men with

the Mago series to meet the needs of the Asian market, and we offer some products in double- or even triple-small sizes."

But shorter shorts aren't always acceptable, especially in conservative countries. So Santini also developed the Sfida women's tights for the Middle East and some Southeast Asian countries.

The Sfida covers a female cyclist's entire legs and are made of very thin, fast-wicking Lycra Thunder Bike with built-in UV protection and compression.

It's not just an issue of morality. Many Asians believe a suntan is unhealthy and unfashionable and prefer to cover their skin.

Bikewear brands also have to account for Asian preferences for different patterns and color palates than cyclists in other parts of the world.

"In Asia, many cyclists like bright colors and styles that resemble those of racing teams. In contrast, European artwork design often is simple and elegant, relying on few and dark colors," Kao said.

Ohio Sport offers a racing series with bold, colorful designs and big lettering. Under a licensing agreement with the cult Japanese manga series One Piece, Ohio Sport sells manga-themed jerseys with eyepopping colors and designs that remain fully functional pieces of cycling apparel.

Santini has taken a further step toward incorporating local culture in its apparel. Its Taipei representative recently began a cooperation with Sabra Andre, a Taiwan indigenous artist and fashion designer, for a series of cycling jerseys, gloves, caps and socks called Vulun.

Andre references the folklore of the Paiwan tribe of southern Taiwan by applying a distinctive, diamondshaped pattern based on the skin



Santini Vulun collection

of the hundred-pace pit viper. The Paiwan tribe worships the highly venomous snake as the ancestor and protector of all humans.

Andre created a stir with this folk-oriented approach at the Vancouver Fashion Week in 2017 and is now applying his way of reviving classic folk motives to Santini's bikewear.

Because Europe — and the Flanders region of Belgium in particular — are popular destination for Asian cycling enthusiasts, Wave One HALL/4F/L0716 has created the Kapelmuur brand.

Wave One is a sportswear brand from Japan. Despite the name, and the generous use of the Flanders lion as a decorative element, the Kapelmuur line is designed in Tokyo and blends function and high quality with a very distinctive style.

The garments are not as thin as some of the other products described above, and built-in sun protection only goes up to UPF 25.

In addition to race-oriented skinsuits and tight-fitting jerseys, the Kapelmuur brand has a big selection of casual wear with built-in functionality, along with urban commuting hags.

Laurens van Rooijen



Wave One Kapelmuur apparel

Frontier Sports Cosmos iersev

GIANT'S TAICHUNG BIKE STORE IS A GIANT

You'd expect Giant, Taiwan's No. 1 bikemaker, to have an impressive retail store in its home city of Taichung. The Giant Flagship Store Taichung does not disappoint.

t's based in the multi-story Giant Cycling World building, which also houses the headquarters of Giant Taiwan and several other Giant businesses, including its travel agency, Giant Adventure, and a Giant School Training Center.

With a sales space of nearly 600 square meters (6,450 square feet), it is the largest of Giant's five flagship retail stores in Taiwan, three of which concentrate on the company's Liv women's brand. That doesn't include another 300 Giant Stores across Taiwan, most of them owned by franchisees.

Many store owners make their way to the Taichung store at some point, said Phoebe Liu, international chief brand officer for Giant.

HALL 1/4F/M0820

"Not only for training, but also to inspect our flagship store. They like to pick up ideas on how to present our bikes at their best," she said.

Taiwan is still a road bike market, said Alice Cheng, managing direc-

tor of Giant Taiwan. Road bikes account for about 30 percent of the flagship store's sales, while the Liv brand accounts for about 30 percent of its road bike business.

Although the Taichung store has a handful of e-bikes on display, most of them are inexpensive moped-like models like those found in China — not the high-end, European-style pedelecs with mid-drive motors that Giant sells in other parts of the world.

The two women see few alternatives to road bikes in the Taiwan market. The mountain bike market is limited, they say, because many off-road trails are closed to MTBs. That means there is even less potential for electric mountain bikes.

If electric bikes are going to succeed in Taiwan, they will probably be in the city and mobility sector, Liu said. "But even there it will be difficult. Taiwan is a scooter nation, and there are already some good e-scooters on the market." she

added.

The Taichung store is testing a customization program for enthusiasts. It offers two Giant and one Liv road bike model and allows buyers to customize the frame color and some of the bike's parts and components.

The store also has a space for "gamified" road bikes, which pair Giant bikes with virtual reality roller trainers.

Giant continues to

improve its core line of sport road and performance bikes, rolling out such continuous upgrades as better electric shifting and frames that are lighter and more aerodynamic.



Giant's giant office building in Taichung houses its largest retail flagship store in Taiwan.

And it is also turning to its sister companies, like Giant Adventure for bike tours, to help promote its business. "With Giant Adventure we are putting more people on bikes," Cheng said.

MERIDA'S TAICHUNG STORE IS A WORK OF ART

It's not unusual to find a coffee bar in a bike shop. But a shop that mixes bikes with antiques, furniture and art?

hat is what you'll find at the Merida Mulan store in Taichung, one of Merida's flagship outlets in Taiwan. Its owner, a franchisee, decorates the bike shop with antiques and art, and runs an antique store in the same building.

The store also has an outdoor café, which Jimmy Tsao Monghan, the shop's mechanic and spokesman, described as a green oasis in urban Taichung.

"The decorations, the palm trees and the other greenery make our shop so special that Merida and many of its international customers visit us," he said. "They take the opportunity to have a drink in our café and take a break from everyday life."

The two stores are side-byside, so customers who come to look at Merida bikes often wind up examining the sculptures, furniture and other artworks on display, and vice versa.

Monghan said Merida franchisees have a certain amount of freedom, but 90 percent of the



Antiques and bikes mingle at a Merida flagship store in Taichung.

goods on display must be from Merida. "We may also carry other brands, but only if Merida itself has no products in a certain category," he said.

Like many Taiwan bike shops, Merida Mulan has been affected by a slump in road bike sales. "Generally speaking, 2016 was not only the beginning of a poor year for bike sales nationally, but a bad sports market year overall," he said. "Since then, Taiwan's entire sporting goods and bicycle market has been troubled."

TAICHUNG'S MAN OF STEEL

When it comes to bikes, Jerry is old school, and proud of it. He has been in the bicycle industry for nearly 20 years, working in a factory for six of those years and managing a bike shop for nearly 13.

But he prefers old-fashioned steel to the new-fangled bikes that come out of most Taiwan factories these days. Carbon fiber, Jerry said, "is not my world. I'm totally into steel and all of the old classic stuff. I wanted to do something in this direction."

So he opened the Brovo Café three years ago, and has transformed it into a gathering place for like-minded cyclists. Customers can order coffee, made with an authentic Italian espresso machine, or dishes prepared by Jerry or his two employees.

"My customers also prefer steel and maintain their classic bikes. This is where they come together. The Brovo Café has developed into their meeting place."

Food and coffee sales are Jerry's main revenue source, but he also repairs classic road bikes. Between the tables in the restaurant are beautifully restored classics from Colnago, Eddy Merckx, Masi, and Pinarello.

"I only sell bikes to customers who are into old steel road racing bikes like me," he said. "Within this scene we have made a name for ourselves that allows me to combine my hobbies — classic road racing bikes and a coffee bar. We can live well in this environment. And we are together with our customers, who are also our friends, almost every day. What more do you want?"



Jerry, owner of the Brovo Café, focuses on classic steel road bikes — and Italian espresso.

TOURING TAICHUNG BIKE SHOPS BY E-BIKE

Industry journalist Jo Beckendorff led members of the Taiwan bike industry on a recent e-bike tour of Taichung bike shops. These were some of the shops they visited. (Stories and photos by Jo Beckendorff)

'FROM WISCONSIN TO TAICHUNG' IS THIS TREK STORE'S MOTTO

FOCUS ON TAICHUNG RETAILERS

You won't find electric bikes on display at the Trek Store Taichung, which occupies a large, well-lit space in the headquarters building of Sport Mania.

On first glance, it's pretty clear its mountain and gravity that the Trek Store is focused on selling road bikes. In fact, sales director Vincent Hsu said, "We were even able to increase sales of racing bikes" in 2018. "Mountain and children's bike sales were down, however."

"From Wisconsin to Taichung," a wall poster reads, referring to the location of Trek's U.S. headquarters. And with some 1,000 square meters (10,764 square feet) of floor space, there's plenty of room for a range of Trek bikes.

The store also sells bikes and accessories from the Tern and Biologic brands of Taiwan, as well as equipment from Nike Golf. In the basement is a studio for spin class-

It's an inviting space, and uses concrete slabs for a clean, contemporary look. Concrete ramps connect the store's three levels so bikes can be rolled easily from one floor to another.

Sport Mania HALL 2/4F/S0602 has tried to feature other brands at this store, and at a previous location in Taichung, but turned to Trek in 2017.

Sport Mania's founder, Elsa Huang, has been in the Taiwan bicycle business since 1993. Many will associate her with the Czech brand Author because she represents Author through her sourcing agency, Asiana International. HALL 1/4F/N0008

Huang had opened an Author store at Sport Mania's previous headquarters in Taichung, but eventually closed it after moving to the current location.

Sport Mania also tried using the space as a flagship store for Storck and for Pinarello.

Now, Hu said, Trek bikes account for 70 to 80 percent of the store's total sales, with the rest from Tern and Biologic and from Nike Golf.

"People just want premium brands," Hu said. "With Author, we now are only selling frames in Taiwan.'

Hu said the Trek Store Taichung intends to do more promotion of



The modern, spacious Trek Store Taichung also sells bikes and accessories from Tern and Biologic and equipment from Nike Golf.

bikes, while continuing to keep customers interested in road bikes.

He noted that off-road cycling is not currently that popular in Taiwan.

"First we have to offer training within the off-road sector. Cycling off-road without practice doesn't work. A bit of practice is a must," he said.

Meanwhile, Sport Mania opened a smaller Trek Store in Taipei last November.

Henry Chen, manager of the Taipei store, said it is completely dedicated to Trek bikes — "everything from road to MTB to kids' bikes.'

FROM WISCONSIN

Vincent Hsu (left), manager of the Trek Store Taichung, with Henry Chen, manager of the newer Trek store in Taipei.

APPAREL BRAND FMA OWNS TAIWAN'S ONLY SPECIALIZED CONCEPT STORE

As an indication of how different the Taiwan IBD market is to those in other countries, the Specialized Concept Store in Taichung — the only one in Taiwan — is owned by a big textile supplier to the bikewear industry.

u Yuang Textile Co., which owns the apparel brand FMA, HALL 1/4F/N1413 established the store in 2009. It is the only Taiwan bike shop that is dedicated to Specialized, after the company abandoned another concept store in Taipei.

Because of the decline in the road bike market, store officials say they are counting on Taiwan cyclists to turn to mountain bikes, which has never been a strong category for bike sales.

"We just revived our pump track in the backyard. Even if it's very small, we think we have to offer people something to discover mountain bikes for themselves," said Yu Hsin Hsieh, the store manager. "That's why we want to focus more on this offroad sector in the future."

The store's sales manager, who gave his English name only as Light, said the store did good business selling Specialized road bikes until about 2015 - but road sales fell off the cliff starting in 2016. That's been a big concern for the store, which relied on road bike sales for some 90 percent of

Light said urban and commuting bikes have never been particularly popular, especially given the relatively high prices that a Specialized commuter bike sells for in Taiwan.



Employees of the Specialized Concept Store in Taichung, including manager Yu Hsin Hsieh (middle left) and sales manager Light (middle right)

garded line of electric mountain line is tailored mostly to Western bikes around the world, but only a handful have been sold in Taiwan. The Taichung store doesn't stock them because of their high retail prices.

"Perhaps 10 units of the Levo have been sold nationwide through specialist dealers," Light said, referring to Specialized Turbo Levo models. "But we weren't among them. We didn't take ebikes because they are simply too expensive for our market.'

As befits its owner, the Specialized store sells mostly FMA bikewear, not Specialized. Light Specialized markets a well-re- noted that Specialized's apparel

cyclists and doesn't fit Asian riders. "That's why we are relying on our own premium brand," Light said.

Covering about 200 square meters (2,150 square feet) on two floors, the Specialized Concept Store is significantly smaller than its Trek counterpart. But it incorporates accents of "Specialized red," along with logos for Specialized and FMA.

Next to the repair shop is a counter with bar stools and a coffee machine, so customers can watch mechanics fix their bikes.

THEY COME FOR LUNCH, AND STAY TO BUY BIKE PARTS

Taichung retailers like to combine bike shops with cafes, and 185 Warehouse is one of the largest in the city.

he 185 Warehouse Bikeshop occupies the same building as the 185 Warehouse Café-Restaurant, which offers a chic roof terrace on the fourth floor.

The businesses are owned by the Wang family, which once owned the Kenton bicycle factory that made Huffy bikes. Kenton no longer exists, but the family has a bicycle factory in China.

"With Kenton behind us, we once sold all over the world. Today we are concentrating more on our home market and some neighboring national markets," managing director Tim Wang said. The family owns the G2C bicycle brand, and its factory specializes in OE and private label production.

Tim and his twin brother, Nick, manage the bike shop, while their sister, Rachel Wang, oversees the café and restaurant. The three are the children of Taster Wang, who owns the building.

The bike shop focuses on road bikes, which did good business until about two years ago. But Taiwan's bike slump has put pressure on the brothers. "Even if there is still something going on with innovations such as disc brakes, etc., the heydays are definitely in the past," Tim Wang said.

185 Warehouse still sells a lot of parts and accessories, and the restaurant keeps customers coming in the doors

"Many people come here for lunch, and then they stop by to buy one or another part," Nick Wang said

Scott is the store's best-selling bike brand. 185 Warehouse carries other premium brands including Cannondale and Cube.

Despite the slump in road bike sales, the Wang brothers see few alternatives in the market.

"Mountain and urban bikes have a hard time in Taiwan. The local bike boom was based on nothing but road racing bikes," Tim Wang said

Not that they haven't tried other things. The store has stocked pedelecs from BESV and Klever, but sales haven't amounted to much.

"We sold BESV in Taichung be-



Twin brothers Nick (left) and Tim Wang manage the 185 Warehouse Bikeshop.

fore they opened their own monobrand store not far from here. So we assume that they were not so satisfied," Tim Wang said. "In terms of price, they are in direct competition with e-scooters. And scooters with combustion engines are even cheaper. These are not good sales conditions."

Still, Tim and Nick Wang plan to stick to their current strategy -

selling high-quality bikes and accessories — and hope to ride out the downturn. And they plan to continue enjoying the synergies between the restaurant and the bike shop.

After all, people don't always need a new bike — but they always need to eat. And, sometimes, they need a new part for their bikes.

Tabeless Times
FOR TUBELESS TIME

RELIC CLIPLESS PEDAL ADAPTORS

Relic's Clipless Pedal Adaptors solve a problem for riders who need to swap between SPD shoes and trainers without having to change their pedals. They are light and easy to install, and are a far cry from more fragile plastic models thanks to their construction of cast aluminum. The adaptors offer a similar level of grip to the best flat pedals. HALL 2/4F/S0428



KMC e12 **E-BIKE CHAIN**

The new e12 not only has all of KMC's 12-speed chain technology but also has increased strength and chain life to withstand



the rigors of e-bike systems. It was developed in collaboration with major motor manufacturers to fit all mid-drive and hub motor systems. A new patented riveting technology, KMC Shield Tech, achieves pin power of over 450kgf, so the e-bike chain can withstand higher torsional stress and endure over 1,050kgf of tensile stress generated by midmotors. HALL 2/1F/P0114

DAYU ENTERPRISE COMPRESSION **GARMENTS**

These clever compression garments help sporty bodies. DaYu Enterprise's extensive range of private label sports compression socks, sleeves, shorts,

and pants offer medicalgrade precision. They are available with variable levels of compression. The seamless pieces run all the way up to size 5XL. With low minimum orders, Dayu lets brands develop their own ranges easily and with low risk.

HALL 1/4F/N1321



ALU-MATE AA6530 E-MOUNTAIN BIKE FRAME

Based around a 27.5-inch wheel, this capable mountain bike frame is compatible with the popular Shimano Steps E8000 and E8020 mid-drive motor systems. Available in three sizes, and with a chunky 150mm of rear wheel travel, it's happy taking on the most taxing trails. Its oversized downtube is capable of neatly and safely accommodating a largecapacity battery for long-range riding. **HALL 2/4F/R0304**



SHUZ TUNG 3D LASER XQCUTTING

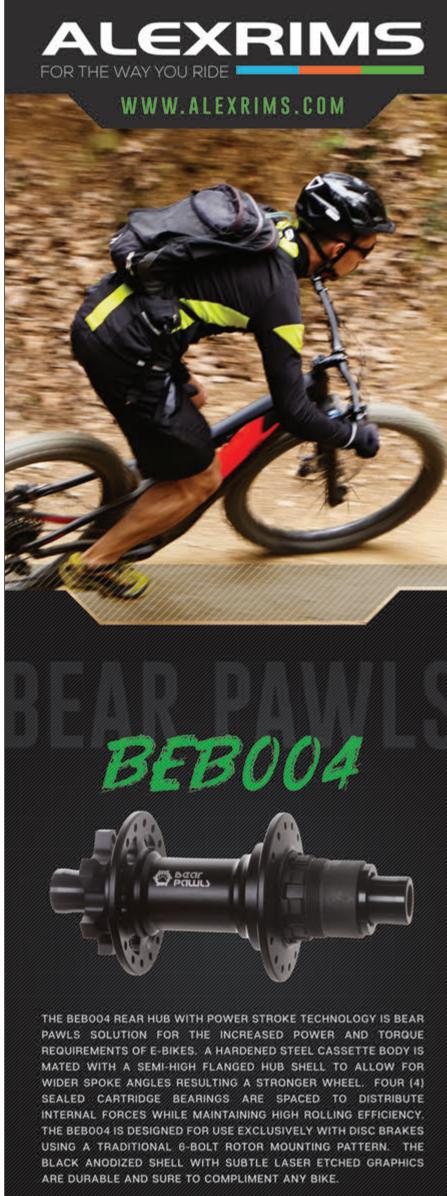
Fast, clean and efficient, this machine can cut tubing including stainless, titanium alloy, and aluminum. It handles different angles, curves, and irregular shapes, and cuts hollow round, square, and rectangular holes. CAD/CAM software previews cutting results based on a customer's 3D drawings. HALL 1/4F/M0535



KMC X12 CHAIN

12-speed drivetrains require narrower chain that can operate at extreme angles. The increasing range of teeth in cassettes and narrower space between sprockets put KMC's precision engineering to the test. Components needed become thinner and stronger to fit into these new drivetrains. KMC applied its proven X Bridge technology, which creates more space inside each link. Asymmetrical beveled chamfers allow for precise operation, resulting in much smoother shifting performance while maintaining durability. HALL 2/1F/P0114





VISIT ALEXRIMS AT BOOTH Q0714

BAFANG ELECTRIC (SUZHOU)

M420



The M420 is a clean, compact and dynamic e-bike drive system. Bafang performed a facelift on its well-established M400 (formerly the MAX Drive). The M420 uses the same frame interface. It's rated at 250W and has the same powerful 80Nm of torque and EU-legal speed limit of 25kmh. Compatible with the 450 Wh inTube or various rack type batteries plus a number of new displays, with Bluetooth and USB-out functions, it gives designers ample options for contemporary city and trekking e-bikes. HALL 1/4F/M0409

SPANNINGA/ **BASIL** COMMUTER CARRIER

Basil's new Commuter Carrier includes technology and input from several leading brands, including Spanninga. Its contribution to keeping users safe is an integrated rear light with Contour Lighting Technology. The tight and precise strip design Technology. enhances the curved lines of the carrier while enabling a previously unattainable level of light diffusion.

HALL 1/4F/M0310

HALL 1/4F/L0315



ALEXRIMS RECON 3.0 WHEELSET

an The Recon 3.0 uncompromising enduro and wheelset. all-mountain Its tubeless-ready full-carbon rim is laced to hubs of Alex's own design using bladed straightpull spokes. Branded under the Bear Pawls label, it features Boost spacing and tool-free serviceability with architecture that's light yet durable. Available in 27.5- or 29-inch diameters, wheelsets weigh 1,604g and 1.706g per pair, respectively.



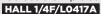
LEZYNE MACRO DRIVE 1000 E-BIKE LIGHT

The high-spec electric bike light clips straight into batteries from top makers including Bosch, Shimano, and Yamaha so it doesn't need a separate power source. Its durable, CNCmachined aluminum construction dissipates heat. Two high-output LEDs deliver up to 1,000 lumens, while its enhanced maximum optical reflection lens has built-in side visibility. With an intelligent auto day/night dim mode, the light it casts is always tailored to the conditions.



FIDLOCK TWIST UNI CONNECTOR + UNI BASE

The Fidlock Twist Uni Connector integrates every bottle into the innovative Twist system, a magnetic-mechanical cageless bottle holder. It's unobtrusive, easily used during rides, and holds the bottle securely under strain. Together with the universal Twist Uni Base, it mounts quickly and easily anywhere on the bike with the use of elastic, reclosable zip ties





WAHOO KICKR

Building on the success of Wahoo's line of Kickr Smart Trainers, the new edition delivers a virtually silent experience, along with a heavier flywheel to give cyclists the inertia they need to recreate the feeling of riding outdoors. Housed in a carbon steel body for durability, its compatibility expands to include Wahoo's new Kickr Climb indoor grade simulator, and a new

Bluetooth and ANT+ powered fan, the Kicker Headwind. HALL 1/4F/L1102



CHOSEN ROAD TC HUB

A road-going version of Chosen's Toothed Coupling design hubs, the TC has a reinforced freehub mechanism for excellent power transmission to support those big, out-of-the-saddle efforts. A robust design ensures a long service life, and they accommodate straight-pull spokes for better efficiency. Made of lightweight alloy, the hubs form the heart of a fast and efficient wheelset. **HALL 2/4F/R0114**



CHEDECH AIR MODEL FOLDING BIKE

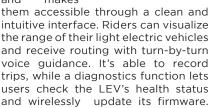
A folding bike that weighs the same as a Tour de France racer? At 6.8kg, the Chedech Air is the lightest bike the brand produces. Like every model, it uses carbon fiber for all mainframe components. A single-speed drive paired with Shimano Dura-Ace components helps shed even more weight. Because it uses mid-sized 18-inch wheels, the Air balances handling with the need for a compact fold. HALL 1/4F/L0405A



GPS TUNER RANGER **EMOBILITY APP**

Extend the capabilities of an electric bike, e-scooter or e-skateboard with the eMobility which app, includes all important features

and makes



HALL 1/4F/L1226

LIH JAW FOLDABLE LOCK

With eight articulating sections, this unique lock is employable across a variety of different angles, yet remains space-efficient and easily folds and stores. Housed in a patented two-way mounting bracket, the lock fixes to bikes with tubes of diameters from 25mm to 38mm. Its hardened alloy steel construction and cylinder design resist theft attempts with saws. drills, cutters, and hammers.

HALL 2/1F/Q1131



MESSINGSCHLAGER ROYALBABY SPACE SHUTTLE

The Space Shuttle from RoyalBaby is not only an eye-catcher with its unique design, but is also very light thanks to the use of magnesium, which makes it comfortable and stable. With front and rear disc brakes, braking is just like on grown-up mountain bikes. HALL 2/1F/Q0117



TIOGA EDGE 22 ALL-MOUNTAIN

The Edge 22 upends convention with an open center design that adds cornering edges closer to the middle of the tread, enabling engagement as soon as a turn is initiated, and keeping engaged with the terrain over a wider range of lean angles. It's initially available in a 27.5x2.50inch size, with a 29x2.50inch option to follow. HALL 1/4F/L0725



For leisure cyclists, or speedy e-bikers, this mirror is one of the largest on the market. The high-tech stem boasts anti-vibration properties that aid the mirror's stability and improve the cyclist's vision. Fitted with an unbreakable ABS chrome material, the lens stays safe in case of a fall. HALL 1/4F/M0301



ARKIETECH TUBING

Sourcing its raw material from the United States, Arkietech specializes in alloy tubing, including stainless steel and air-hardened chromoly. Precision drawing technology ensures its products always meet necessary tolerances, while exceeding their material's standard mechanical performance. swaging forming, drawing, hydroforming, its aerospace stainless KVA MS3, and military-spec chromoly Velospec products deliver high tensile strength in a light package. HALL 2/4F/R1323



FUNKIER WAREHOUSE BIB

Funkier's warehouse bib has many slimline pockets to carry everything a cyclist may need on an adventure. These include four variously sized front side pockets, two rear stash pockets on the hips, and a horizontal back pocket with zipper and reflective inserts designed to store a phone, wallet, or money. On the back is a final, lightly padded storage space that accommodates a 1.5-liter water bladder. HALL 1/4F/M1413

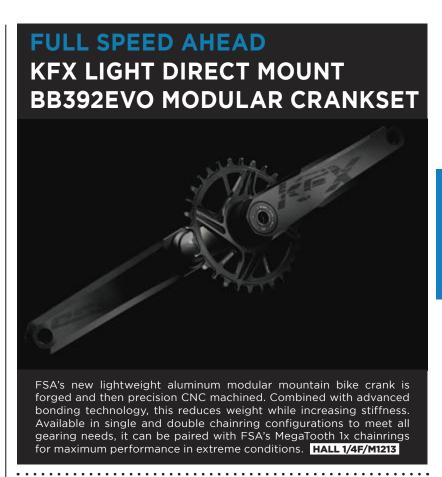


HYC TAIWAN LFT

HYC recycles carbon fiber into long carbon fiber thermoplastic composites (LFT), which combine carbon fibers with a thermoplastic resin in a pellet that can be recycled and repeatedly reused. It can form a range of lightweight shapes, and is injection-moldable rather than being laid-up. This speeds up production, reducing the costs and energy, and improving the product's environmental







MESSINGSCHLAGER PREMIUM E-BIKE SOLUTIONS

Messingschlager's premium e-bike solutions are a holistic concept with numerous possible variations and combinations - a concept of components that are perfectly in tune with one another. This integrated approach combines two frame and battery concepts with four frame designs, designed in close cooperation with Brose.



HALL 2/1F/Q0117

BESV JR1 E-ROAD BIKE

BESV's sleek JR1 combines high-end looks with an integrated power system and a rear hub motor. Weighing 15.7kg (34 pounds, 10 ounces),

it offers 252 Wh of battery power. Tap the Dynamic Switch to adjust the three-level motor assistance, or cruise and let Smart Mode deliver the power you need. The digital interface displays information such as cadence and pedaling power while the Smart App provides navigation, anti-theft protection, and more. HALL 1/4F/N0108



LIMAR

AIR PRO CARBON CORETECH

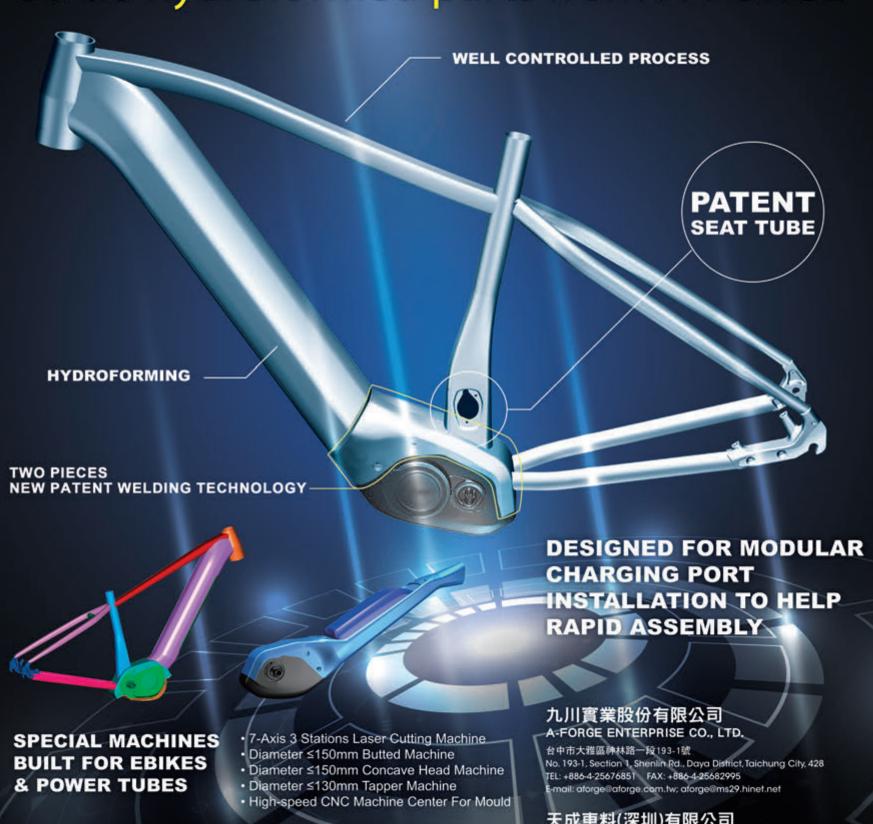
By combining carbon and expanded polystyrene, Limar has created a helmet core with superior impact resistance in minimum thickness. This material is formed into a shape that has two structural wings which merge with the side ribs of the shell, forming a high-performance cage with better safety and aerodynamics. Because less of the structure is taken up by the material, the helmet has improved air circulation. HALL 1/4F/L0118



WORLD-LEADING INNOVATION



As e-bikes get more sophisticated, So do hydroformed parts from A-FORGE



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Innovation Is Our Main Power For Continuous Breakthrough.

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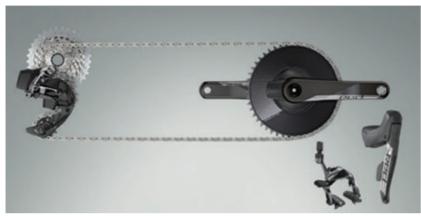
TIANCHEN BICYCLE-PARTS (SHENZHEN) CO., LTD.

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幅広タイヤからシングルチェーンリング・グループセットへ伝統的な ドロップバーバイクは進化している。残念ながら伝統派のサイクリスト は同様の速さで進化していない。

しかし有力コンポメーカーがドロップバーバイクのシンプル化を狙っ て1Xドライブトレインの新モデルを投入してきたことで事態が変化す る可能性が出てきた。



SRAMのエアログループセットRed eTap AXS 1x

SRAM Hall 1 / 4F / L0818 は2月 にグループセットRed eTap AXSを上市 して脚光を浴びた。新グループセット はカセットとチェーンを再設計するこ とでギアの効率と配列に対する認識を 変えさせるほどの新機軸だ。

SRAMではギアの形状を再設計して ギアのオーバーラップを減らし、ギア レンジを拡げ、ギアがよりスムースに 進むようにした。その一例がギアレン ジを拡げるために新しく創り出された 10歯コグ付12速カセットだ。

AXS(アクセスと発音)もiOSや Androidデバイス用アプリを参照して、 ユーザーにバッテリー状況をチェック させたり、Bluetoothを通じてシステ ムのファームウエアを更新させたり、 メンテリマインダー受け取らせたり、 システム設定を微調整させたりしてい

名称はオリジナルのRed eTapとほ とんど同じだが類似するのはそこまで で、AXSシステムに対してドライブ トレインコンポのほぼすべてにわたっ て再設計がなされている。グループセ ットはディスクまたはリムブレーキ用 を揃えオプションにパワーメーターま たはエアロチェーンリングを加えてい る。

SRAMは今回の上市でシステムの2x クランクセットに焦点を置いたが1xの バージョンもデビューさせており1xド ライブトレインにおけるリーディング ポジションを譲り渡すつもりはないこ とをはっきり示した。

同社は2014年にシクロクロス用 Force CX1ドライブトレインを上市 し、その翌年にドロップバーライダー 用Rival 1、Apex 1および再ラベルの Force 1を注いで以来1x市場をリードし てきている。

これらの初期のバージョン同様に Red eTap AXS 1xシステムはトライア スロン、タイムトライアル、シクロク ロスの設計で、シングルリングのドラ イブトレインがパワー出力の保持や機

能の簡素化、さらにこうしたレース訓 練用ならではの需要に応える最適のチ ョイスになっている。

Red eTap AXSシステムはシクロクロ スのフレームの特性に合う短めのチェ -ンステイと幅広のリアタイヤ用に設 計されたものだが、1xドライブトレイ ンを最も支持してきたのはグラベルレ ーサーやアドベンチャーのサイクリス ト達だった。



Rotorの1x13チェーンリング

2月のSRAMの発表から3週間足ら ずのうちにRotor Bike Components Hall 1 / 4F / L0106 がドロップバーバ イク用1x13油圧グループセット付新モ デルの発表を行った。Rotorはまず昨年 のEurobikeで1x13のコンセプトを示し たが、その時は新システムをMTB、ロ ード、シクロクロスおよびグラベル用 オプションを付けたロード、オフロー ド両用のアラカルトモジュラーシステ ムとして位置づけていた。

以来1x13の豊富なギアレンジやスム ースなギア配列、正確なシフティング に絞ることでその焦点をドロップバー バイクに狭めていった。MTBバージョ ンが今年のうちにリリースされる予定

同社はカセットの設計も再考し10-36、10-39、10-46および10-52の4つ の13速バージョンを生み出している。 これら13速カセットはカーボンまたは

アルミ製ホイールが宛がわれる同社の 特性ハブ専用だが追って他社ブランド のホイールにも対応できるモデルをオ プションとして加える考えだ。特別な ハブの購入に対してそこまでとは思う 人向きには10速および11速ハブ用12速 カセットが用意されている。

Rotorの油圧式リアディレーラーはス ムースに作動する1x13ドライブトレイ ンの中心を成すもので、シフトレバー からディレーラーに渡す3%の細管ホー スの中にミネラルオイル (鉱油) が使 われている。

Rotorは走りのタイプ(レーシング、 グランフォンド、シクロスポーティ ブ、グラベル、クロスなど) に合わせ たリコメンデーションを施すことで正 しいギア形状を選択する場合の目分量 による作業を取り除いている。

Full Speed Ahead Hall 1 / 4F / MIZIS は現在のロード用クランクセッ トVero Pro 1xに最上級のカーボンクラ ンクセットから1xシステムがほどなく 加わり、併せてアロイ製モデルとタイ ムトライアル用クランクセット1xバー ジョンもラインアップさせる。

Shimano Hall 1 / 4F / M0814 と Campagnolo Hall 1 / 4F / M0612 か らは1xシステムに対する計画について 話は聞けなかった。

レース用としてSRAMの1xシステム

が使われる傾向が強 まりそうな一方で、 ロードレーサーたち はそのコンセプトに 抵抗を続けている。 それは3Tが昨年Wolf いる)。 Toothのチェーンリン グを装着したカーボ ンクランク1x Tornoを プロレーサー向けに 投入してほとんど失 敗に終わったことか ら見て取れる。

価格リストを見ると3000€(4125 %) から始まり最上級は4000€を超える。 一方Rotorのシステムは2599€から約 4500€の価格帯である。

SRAMの42歯チェーンリングRed eTap AXS

限られた 1 パーセントに属さないサ イクリストに対して他のチェーンリン グとクランクのメーカーはコストをも っと下げて既存のグループセットを1x システムに変換できる方法を差し出し ていると言う。

例えばWolf Toothは、そのウエブサイ トでグラベルとアドベンチャーサイク リングのための理想的な1xギアリング について、さらにどうしたら自社のチ ェーンリングDrop-Stopとディレーラー ・ハンガーエクステンションRoadLink あるいはケーブルプルコンバーター TanpanをSRAM やShimanoのカセッ トと合わせて使えるか、を説明してい

Miranda Hall 1 / 4F / L1216 は自社 のモジュラークランクセットXMODが ロード、グラベル、トラックあるいは フィクシー用の1xクランクセットとし て形作ることができることを示してい る。XMODシステムはライダーにクラ ンクアームとスピンドルおよびチェー ンリングをそれぞれに独立して選ばせ

PraxisはMountain Racing Productsと のコラボでWave技術を採り入れた1xチ ェーンリングを開発した。(Waveはチ ェーンを機能的に保持するための商標 登録デザインで、チェーンの保持する 力が信頼できる1xドライブトレインを 作る上で大きな難題のひとつになって

Praxisは自社のロード用クランク Alba、Zayante、Zayante 4iiiiおよび Zavante Carbonと併せて使えるよう直 接装着タイプの1xチェーンリングを歯 数38、40および42の3サイズで用意し ている。44~50歯のチェーンリングは 開発中である。

> これまで1xシス テムはもっぱら乗 り易さと機能性を 求める本格派サイ クリストの領域に あるものだった。 しかし1xシステム が伝統的ドロップ バーバイクでない バイクで人気を高 めれば乗りやすく メンテも楽な万能 型バイクを求める ライダーにとって



Rotorの1x13グループセット

グループセットの有力各社はドライ ブトレインは最高の性能を発揮させる ためのユニットとして設計されなけれ ばならない精巧を極めるシステムであ ることを強調する。しかしそうして完 成させた1xシステムの価格は多くのサ イクリストにとって到底手の届かない 高さになってしまう。

ちなみにSRAMのRed eTap AXSの 力を失っていくかもしれない。

プロの一部も1xドライブトレインの 軽量でエアロダイナミック性に優れる 利点が無視できなくなり伝統と決別し

ている。今年これまで、年初のコブル クラシックのレースで1xシステムが少 なからず見られた。その自己証明を前 に、伝統主義者の間にさえある抵抗は

大いに魅力あるものになるだろう。

MicroShiftのクラ ッチ付XCD11

総括:ドライブトレイン代替モデル

ビッグ3を越えてドライブトレインの オプションはあるか?ヒントはここにあり

多くの人が選択の余地があるのがいいことに賛同する。だが、ドライブトレイン市場はわずか3者のプ レーヤー — Shimano、SRAM、Campagnoloによって独占されている。サイクリストはどこに代替サ プライヤーを求めたらいいのか?









ひとつの意外な答えが中国である。 2017年にLTWOO Hall 2 / 4F / R0904 は台北ショーのデモデーで初 の中国製MTB用11速ドライブトレイン を発表して業界を驚かせた。

昨年秋の台中バイクウイークでは、 創業者Philip Liu(フィリップ・リュ -) 氏が別の興味深い新製品: MTB用 12速ドライブトレインとドロップバー バイク専用ブレーキ&シフトレバーを 携えての復帰となった。

リュー氏によると、レバーはアジア のライダーの手のサイズを念頭に設計 されているのでフードの形状は欧米の 人の手にはコンパクトすぎるかもしれ ないとのことだ。

同社ではもっぱらフードでハンドル バーを掴むライダーのためにシフトボ タンを置いている。ブレーキ&シフト レバーのほかに2:1レシオで作動するロ ープロフィルのリアディレーラーと直 接装着タイプのフロントディレーラー も付いている。フロントディレーラー は34~50歯のチェーンリングに対応で きるのでロードバイク用ドライブトレ インが完成する。

同じく中国製としてLanxi Wheeltop Cycle Industries Hall 2 / 4F / **51133** のワイヤレスリアディレーラー がある。クランクおよびチェーンリン グの中国トップメーカーの1社として 知られるこの会社はMTBとロードバイ クに装着する1xシステム用電動ディレ ·ラーEDSを密かに開発していた。

FDSの新バージョンはロードバイク の11速とMTBの12速に対応できる。こ のシリーズ最新モデルに対して同社は タイトなトレランス(許容誤差)とス ムースなシフティング作動を優先させ

ディレーラーのバッテリーは800 mAhあり1回の充電で最大1万8000回 のギアチェンジが十分できるという。 シグナルを送るためだけに必要なシフ ター中のバッテリーは1回充電すれば 1年もつ。

WheeltopのEDSディレーラーはロー ド用が重さ335gだが、MTB用はケージ が長い分若干重く350gになっている。

Sunrace & Sturmey Archer Hall 2 / IF / P1014) は付加価値のある有望な ニッチ製品を造り出していることで知 られる。一例がシンプル性と最先端技 術を組み合わせたハブの新モデルS2K である。

138%の内蔵レシオをもつこのハブ はギア間を広めにとってあるのが特徴 で、仕上げにアナダイズドとポリッシ ュを用意。コースター用とディスクブ レーキ用両モデルを揃えている。

ギアを変換する時ペダルにほんのわ ずかなキックバックが求められる。ケ ーブルやシフターが不要なのでニート なS2Kはミニマリスティックな(最小 限装備の) アーバンバイク用にぴった りの製品だろう。

Sunraceの2019年に向けた旗艦製 品はMTB用ドライブトレインMX12と MZ12で、1xシステム用設計の両モデル は、11~50歯の幅広いレンジのカセッ トとアルミ製クランク、12速チェーン 並びに12速新リアディレーラーとラー ジプーリ (滑車) およびカーボン製ケ ージのアウタープレートを組み合わせ ている。

2年前にMicroShift Hall 2 / 4F / R0714 は電動式ドライブトレイン eXCDの洗練されたプロトタイプモデル を出展した。この製品は依然とし同社 のウエブサイトにも現れていないが、 このほど11速1xシステム用に異なる4 種のリアディレーラーが発表された。 これらのディレーラーは最大46歯のコ グに対応できる。

比較的上級のXCDモデルは100%ア ロイ製ケージで軽量化を図る一方、付 加価値モデルのリアディレーラーXLE 11はスチール製ケージを採用してい る。両モデルにオプションで付くビル トインクラッチはリアディレーラーの 小さなスイッチで作動できる。

これまで紹介してきた製品のすべて が標準タイプの自転車に装着できるも のだが、さらにエキゾチックなシフテ ィング法を求めるとしたら専用のフレ 一ムが必要になる。

そのハイエンドの一例がPinion (GatesのHall 1 / 4F / L0717) のイ ンターナショナルなトランスミッショ ンで、このコンパクトなギアボックス は自身の会社を始める前にPorscheで働 いていた2人のエンジニアの頭から生 まれている。

-見するとギアボックスは小さな中 央装着型モーターのようだが実際はダ ウンサイズされた自動車技術とモデル に合わせた6段~18段のギアが収めら れている。

オリジナルモデルのP-Lineはしっか りした鍛造アルミブロックから精密機 械で告り出されるハウジング内部に収 めているが、普及タイプのC-Lineは鋳 造マグネシウム製ハウジングに据えら れている。Pinionのギアボックスを付 けた自転車はチェーンでなくベルト ドライブを使うケースが多く、同社が Gatesのブースで出品している理由もそ こにある。

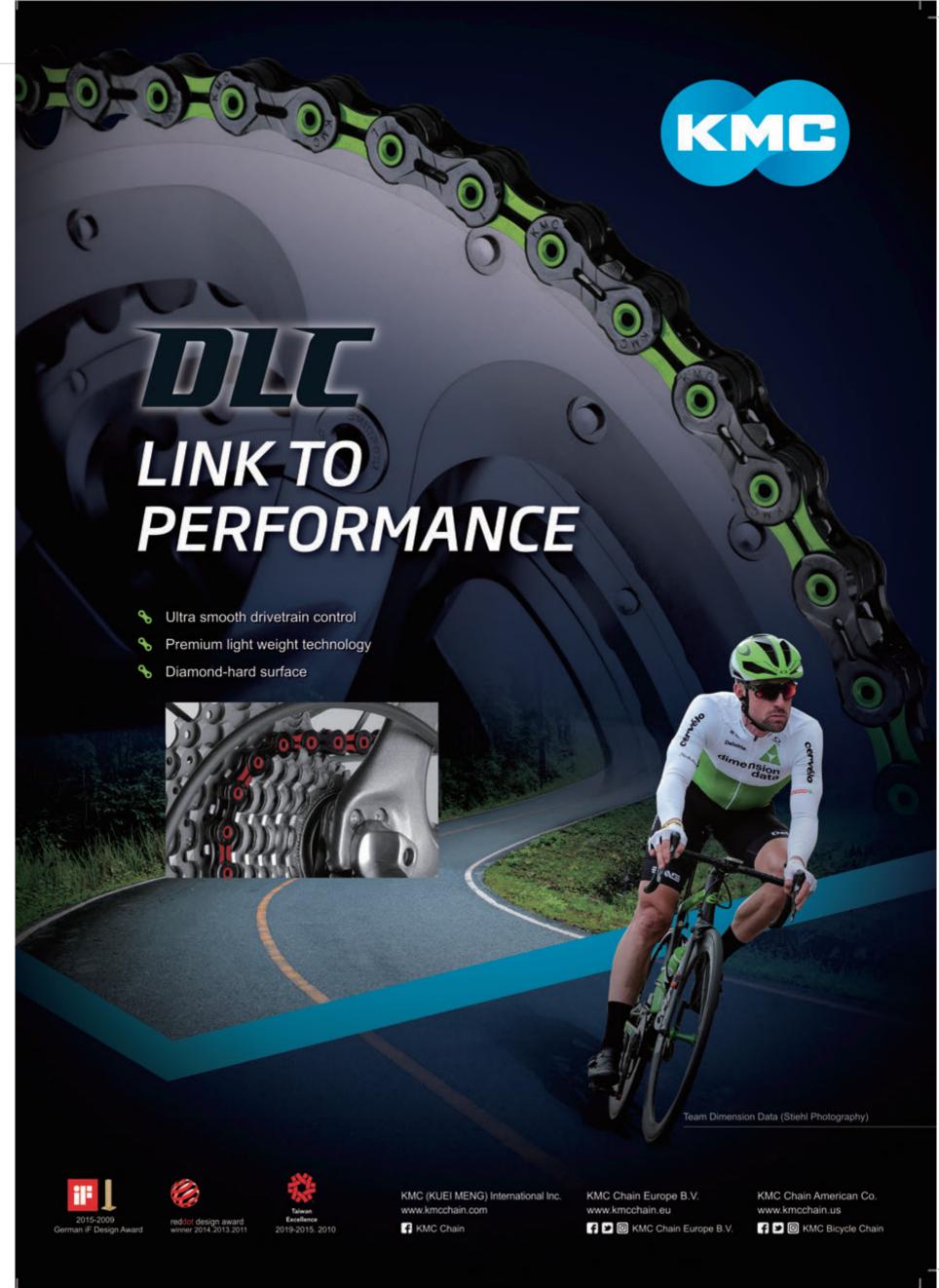
Pinionのギアボックスの主な利点は 小さなチェーンリングを前方に据える ことによってグランドクリアランスが 増したこととシステムのメンテナンス が楽なことで、1万km走るごとにオイ ルを交換するだけでいい。

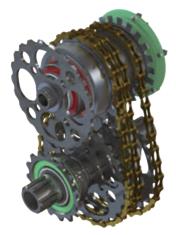
一方オーストラリアのCape Hall 1/ 4F / LO501a は価格に敏感なユティリ ティおよびバイクシェア市場をターゲ ットにローメンテナンスの伝動システ ムCBT Transmissionを展開している。

フレームのボトムブラケット周辺に 直接取り付けられる設計の自動トラン スミッションは3段ギアとケイデンス センサーが付いている。走行中特定の ケイデンスに達するとすぐに変換シス テムが働いてギアを上げたりあるいは 下げたりしてくれる。

動かせる部品はすべてフレームの内 部に保護されているのでCBT Transmissionは防犯に優れるローメンテナンスの ソリューションとしても輝きを帯びる。







Cape Bouvardのギアボックス

CBT Transmissionのオリジナルモデルは従来タイプの自転車やリアハブモーター装着のEバイク用に設計されていた。しかしCape Bouvardは現在CBT Mid-Driveと呼ぶ中央装着型モーターシステム用モデルを開発している。自動シフティングシステムと250~の中央を着型モーターユニットを組み合わせることでCBT Mid-Driveはモーターを考すででいる。同時に中央装着型モーターシステムの最大の欠点のひも減らしている。

SRAMとCampagnoloはこのほど 12速のグループセットを投入してき ているが、スペインのRotor Bike Components Hall 1/4F/L0106 は 1x13ドライブトレインで一歩先を進んでいる。

ロード、グラベルおよびシクロクロス用設計のこのドライブトレインは各用途別カセットのセレクションと同ブランドの楕円形シングルチェーンリング(16頁の関連記事参照)が使用されている。

シフターからのコマンドをリアディレーラーに伝導させるためにRotorは同社グループセットUno同様に水力学を使って耐久性をもたせるとともに埃や泥にまみれた状況できちんとした機能を発揮させている。



Rotorの1x13リアディレーラー

台北ショーで同社はパワーメーターシステム2INのトラックバージョンを出品している。同バージョンは、姉妹バージョン同様に、クランクと見事に一体化させたもので、アプリがライダーにパワーアウトプットとペダルストロークを詳細に分析させる。

当然ながらビッグ3にはビッグであるだけの理由があるわけで、ここに紹介する代替モデルのいずれもがビッグ3の基準に照らして評価されなくてはなない。

実用タイプ用からロード、トライアルの本格レーシング用まで**Shimano** Hall 1 / 4F / MO814 は市場のリーダーであり、いかなるメーカーにとってもこの製品カテゴリーに踏み入る上での判断基準となっている。

2019年に向けてのShimanoの旗艦製品はテレイン用新グループセットXTRで、それぞれエンデュランス、クロスカントリー、エンデューロ用に仕立てた形状で投入されている。最後の2バージョンにShimanoとしては初の1xシステムが使われている。

内装トランスミッションハブの生産を打ち切ることで**SRAM** Hall 1/4F/LOSIE はユティリティ市場の多くを捨て去ることになった。しかし同社は複雑性と重さを減らした1xドライブトレインを装着するMTB市場で少なからぬ成功を収めている。

SRAMは2019年に向けてAXSを柱に そのワイヤレス技術eTapをロードから マウンテンに移行させている。 今のところ12段グループセットEagle AXS2モデルの価格はかなり高めだが、先行き下がっていくのは確かだ。 (16頁の関連記事参照)

SRAMではまた幅広いレンジのカセットをロードバイク用に適合させている。そのX-Range技術によってリアは必ずきっちり間を開けた12段ギアになり、チェーンリングも小さくなる。2つのリングが1本のアルミから作られたものである、もしくはただ一つのチェーンリングにする。10~33歯とが1xドライブトレインを念頭に設計されているからである。

ロードバイク市場に専念する Campagnolo Hall 1/4F/M0602 はShimanoとSRAMに比べるとディスクブレーキへの対応が遅れているかもしれない。

しかしその最上級の新グループセットRecordとSuper Recordでイタリアを代表するコンポメーカーは先頃のTour Down UnderでのWorld Tourにその12速カセットが初めて使われるのを見たのである。電動EPSとメカニカルバージョンにリムブレーキとディスクブレーキのオプションを付けてCampagnoloは基本要素のすべてを競争の激しいロード市場でカバーさせている。ヨーロッパのみならず世界中でCampagnoloへの忠実な追従が見られることだろう。







BETO QD MINI PUMP



2018のGolden Pin Design Award受賞のデュアルアクション・アロイミニポンプは優れ たクイックダイアル式バルブ交換システムが特徴で、これにより一つの穴でSchrader とPrestaのバルブに対応できるとともにレバーの下にすっぽり収めたアダプターで Dunlopにも対応できる。ポンプのバレルはアロイ製で耐久性があり成型プラスチック ハンドルとの組み合わせでグリップ力を高めている。 HALL 2/1F/Q0908

BIKEWORKX CHAIN STAR MAX WAX

1991年創業のBikeworkxは業界最大手の潤 滑油専門メーカーを目指している。同社 最新のChain Star Max Waxは独自のワッ クスと水性素材を用いたユニバーサルタ イプの潤滑油で、一度塗ればクリーンで すべすべの長持ちするフィルムが作られ るためチェーンに泥が堆積するのを防げ る。スムースな走りを確実にし生分解性 100%なので環境配慮のバイカーにはうっ てつけだ。 Hall 1 / 4F / M0305



MERCURY CYCLING A-SERIES

WHEELS



Mercury Cyclingはエアロダイナミクスの指 導者Paul Lewとのコラボで新ホイール「A シリーズ」を開発した。新シリーズは特許 申請中のKamm Tail 10設計が特徴で、ホ イールの実際の深さよりもはるかに深い機 能を発揮させて横風で軽快感と安定性を保 つ。この設計によりリム中央で空気が通さ れエアロプッシュが作りだされる。軽量化 と剛性を保つ2:1ストレートプル・レーシン グパターンを特徴とするMercuryのTempest ハブとの組み合わせでディスクあるいはリ ムブレーキに対応できるモデルを用意して いる。 Hall 1 / 4F / LOO01

FLR SHOES REXSTON MOUNTAIN BIKE SHOES

オールテレインツーリング用シューズの最新モデル Rexstonは牽引力と耐久性、長寿命化を高めるよう に設計されたアウトソールが特徴。安心走行に向け てコンタクトと牽引力を最大限に発揮できるよう 開発されたSTKグリップラバーを採用した特殊設 計のクリートプロテクターがアウトソールを摩耗から 護り長寿命と信頼性を高めている。現代のトレイルライダ 一にマッチした控えめなスタイリングでライダーの新たなト レイン発見をサポートする。 Hall 1 / 4F / M1206





MESSINGSCHLAGER TANNUS ARMOUR

タイヤとインナーチューブの間に設置される Tannus Armourは画期的なパンク保護ライナー (裏地) で、オールラウンドでパンクを保護で きるのでスタンダードのクリンチャータイヤと チューブに使える。カットやピンチフラット によるパンクに対する抵抗力を格段に高めてい るので低い空圧のタイヤでも乗るのが可能で トラクションと乗り心地もアップさせている。



Hall 2 / 1F / Q0117

KIND SHOCK **LEV-CI 272**

SEATPOST

あらゆる先端機能を備えるド ロッパーシートポストに新 たに幅広の27 2サイズが加わ った。LEV-Ci 272は機械練 りアルミ製構造で強化された 最適化カーボンマストが特徴 で、これにより軽くて強い シャシーを可能にした。内部 に収めた性能実証済みのLFV シリーズ空油圧式システムが 65mm、100mm、120mmのい ずれでもスムースなトレベル を果たしてくれる。



RELIC

CLIPLESS PEDAL ADAPTORS

ペダルを交換する必要なくSPDシューズと トレーナーを交換したいというライダーの ニーズに応えるのがRelic's Clipless Pedal Adaptorsだ。軽量で取り付けが簡単なこのア ダプターは人気のShimanoのSPDに対応す る。壊れやすいプラスチック製とはるかに違

ミ製は最上のフラッ トペダルと同等のグ リップ力を備えて いる。 Hall 2 / 4F / S0428



SKS GERMANY COMPIT

ニートでクリーンで高度な連結システムを **誇るスマホホルダーの次世代を代表す** るモデルCompitは3つの中核機能を ひとつのコンパクトなシステムに組 み込んでいる。すなわちスマホホル ダー、一体型NFCチップ付Qi認証通信ユ ニット、フロントライトあるいはアクショ ンカム用アクセサリーマウントの3機能。 Eバイクの電源に繋げばスマホの誘導的充 電も可能だ。 Hall 1 / 4F / LO611a



COSMOS CO-POLARIS FOLDING BIKE

20吋ホイール採用のCo-Polarisはフルサイズ のバイクライダーに馴染みのハンドリング が味わえる。小径を感じさせないタイヤサイ ズはグリップカ、衝撃吸収、ロールオーバ 一性にも優れる。さらにカーボン製フレーム で重量増加を相殺、持ち運びやすい9.5kgに 押さえている。Shimanoのディスクブレーキ とTiagra 2x11速ドライブトレイン採用で長 距離ライドも楽にこなせる。 Hall 1 / 4F / N1208



OTRAJET NEXO 700X40C AIRLESS TIRE



大小のホイールに対応するよう新しく数サ イズを用意したNexoのエアレスタイヤの性 能はEバイクならではのニーズを満たすよ う調整が図られている。構造と素材を強化 することで荷重制限を3割アップさせると ともに製品寿命も同様に延ばしている。ス トレスの増加に見事に対応しながら同社製 品の人気の秘密である耐パンク性能を保持 している。 Hall 2 / 4F / S0902

ALU-MATE AA6530 E-MOUNTAIN BIKE FRAME



27.5吋のホイールをベースにしたこの有能MTBフレームは人気のShimano E8000 お よびE8020モーターシステムに対応。3サイズを用意。リアホイールのトラベル幅は 150mmあり最も骨の折れるトレールも難なくこなせる。オーバーサイズのダウンチ ·ブは大容量バッテリーもきれいに安全に収納できて長距離ライドを可能にしてい る。 HALL 2 / 4F / RO304

WELDTITE

TUBELESS CONVERSION **SYSTEM**



リムテープ. シーラント. バルブステム. レバーおよび簡単装着の強力タイヤビーズ 補強ゲルで構成されるWeldtiteのTubeless Conversion Systemはセットアップを整え るのに必要なものがすべて揃っている。重 さを落としパンクを減らすためチューブを 取り払った同システムはできる限りの作業 のシンプル化を目指すものだが、これも新 たにルーブリカント(潤滑剤)、クリーナ 一、ツールをラインに加えた拡大路線の一 環である。 Hall 1 / 4F / LO330

SPANNINGA X&O FRONT

LIGHTS

Philipsの最適合システムのミニチュア版と いえるコンパクトなバッテリーヘッドラン プはスタイリッシュで頼もしいデザインが 魅力でシティやトレッキングバイク用にぴ ったり。スマート感ある一体型独立タイプ のリフレクターが付き、頑丈なステンレス スチール製ブラケットを魅力あるマット(艶消し) ブラックに仕上げている。

ライトは効率性の高いリバースビーム(逆 光線) 技術により電力消費をごく低く押さ えながら25ルクスの強力ビームを生み出し ている。 Hall 1 / 4F / MO310



VELO MICROTECH GRIPS

VeloはMicrotech技術を組み込んだグリップをフルレンジで上市した。この新技術はミク ロサークルの模様が特徴でライダーは指先でそれを感じ取れる。テクスチャー(生地)を 足して表面部分を増やすことでハンドルバーをそれだけしっかり握らなくても一層の安心 感が得られる設計だ。雨天や汗をかいている状況にはうってつけで、電動MTBからスポー ティーなシティライドまであらゆるセグメントをカバーする。 Hall 2 / 1F / Q0614



BAFANG ELECTRIC (SUZHOU)

BAFANG M420

モダンなEバイク用のクリーンでコンパ クトでダイナミックなドライブシステ ム。Bafangの定評あるM400 (旧MAX Drive) をマイナーチェンジした新モデル は同じフレームインターフェースを使い、出



カ250~で同じく80Nmのパワーを誇りEUの時速25kmの速度制限基準を満たす設計。450 Wh inTubeや各種ラックタイプのバッテリーさらに多くの新ディスプレイ(Bluetooth およ びUSB充電機能付)と互換性があり、時代にマッチした外観のシティやトレッキンッグE バイクの設計に大きな力を与えるはずだ。 MO409

FUMPA PUMPS FUMPA



FumpaはパワフルなUSB充電式ミニ電動ポ ンプで、重さわずか380gでミニサイズなが ら通常のフロアポンプを凌ぐパワーを発揮 する。携帯に便利で使いやすく旅行にも家 庭での使用にもうってつけ。圧力測定デジ タル表示機能付でPrestaとSchraderの両バル ブに対応。 Hall 1 / 4F / L1309

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MESSINGSCHLAGER VELOSOCK

家をきれいに保ちホテルのオーナーを喜ばせ る。持っていきたいところがどこであろうと Velosockは自転車を包み込んで汚れを散らな いので室内の壁やカーペットがきれいなまま に保てる。オフィスでも車の中でも同様に安 心して収められる伸縮性抜群の3Dストレッチ 素材なので自転車の形にぴったり合わせられ る。機械洗いができ26~29吋のすべての白転 車に使えて耐引裂性にも優れる。 Hall 2 / 1F



BLOSSUM BLOSSUM-MASK LITE

Blossum-Mask Liteは都市部での汚染防止用マスクで 欧州規格を認証。FFP2 NRクラスのこのマスクは塵 や大気汚染から護り、花粉や動物の毛、カビによる 呼吸アレルギーを抑えてくれる。エルゴノミックデ ザインによるその効力はサイクリングや徒歩、オー トバイ、スクーターによる旅に最適。 Hall 1 / 4F / L0027



A-PRO TECH ERDP 6.3CA-R 29 E-MOUNTAIN: **BIKE FRAME**

インテグレーション(一体化)がA-Proの新 フレームで最も大事な点だ。モジュール設計 コンセプトにより駆動システムは市場の二 ズに合わせてBroseでもShimanoでも対応で きるため新製品の開発コストも削減できる。 極上の外観を備えたリアショックはモーター およびバッテリーコンポと



HAFNY

HF-MR101 BAR-END MIRROR



ケースでなくレンズを交換する。このバー エンドミラーは交換可能レンズのなので簡 単に掻き傷を修理したり新しい素材を試す ことができる。スクリュー1本で取り付け られスタンダードから、割れないステンレ ススチール製、HDガラスレンズ、防眩性ブ ルーレンズまで揃っている。丈夫な繊維強 化ナイロンボディなのでロード用バーにも MTB用バーにもフィットする。 Hall 2 /

4F / R0901a

CARBON ENDURANCE **COMPONENT (CEC) TEXTILE SPOKE CARBON WHEELS -SLD RANGE1 E-ROAD BIKE**



世界で最も強く最も耐久性のある素材Ultra-High Molecular weight Polyethylene (UHMwPE)で造られたテクスタイル (織物) スポークはホイールへの衝撃吸収性に優 れてしかも軽量。フィールドテストでもライダーにとっての快適性のアップと、と りわけ厳しい路面でのトラクションの向上が示されている。耐衝撃性を高めるため Carbon-HMPPハイブリッドファブリックと組み合わせてクリンチャーチューブレス リム(ディスクブレーキ専用)を仕上げたSLDレンジはもろいカーボンを傷みにくく する特性を持つ。MTBやグラベル、ロードのエンデュランスライド用に設計されたこ の最軽量ホイールセットSLDは重さわずか1050g。 HALL 1/4F/L1125

CARDIOSPORT

SOLO SPEED AND CADENCE SENSOR

この超軽量コンパクトのバイク用スピー ド・ケイデンスセンサーに重い磁石は 不要。ハブやクランクアームに磁石やケ ーブルタイを使わずに即装着できて. スピードやRPMを探知するのに加速度 計を使う。バイクの外観も流れるよう にすっきりで測定の誤りも抑えしかも軽 量。BluetoothやANT+に接続できてあらゆ る人気のサイクリングアプリとコンピュ ーターとの互換性ももつ。 Hall 1 / 4F /



INNOVA RUBBER

EL CAMINO GRAVEL TIRE 650B X 47C



グラベルのライダーは路面や走行条件の変 化に対応できるタイヤを強く求める。スム 一スな路面ではスピードが求められゆるん だ路面ではグリップ力が求められる。その 求めに応じるのが正しくEI Caminoのセミ スリックトレッドだ。47cのラージボリュ ームとポピュラーな650bサイズを揃えたこ のタイヤはドライなコンディションでのラ イトトレイルもこなせる。ゴージャスな外 観のタンウォールもオプションで揃えてい

る。 Hall 2 / 4F / S0404

ALEXRIMS BAXTER

3.0 WHEELSET

Baxterのカーボンリムは適合性を損ねることなく 耐久性と長疲労寿命を確実に延ばすためインモー ルド・アロイインサート (挿入物) を使ってい る。前後とも幅31mm径リム(内径25mm)と24 本ストレートプルスポークで組んだものをBear Pawlsのスターフランジ付ハブにセットしてい る。700c径サイズを用意。前輪わずか765g、後 輪950g。 Hall 2 / 1F / Q0714



в 太

只做不用?台灣e-bikes的特殊文化

台中市訊-在過去幾年來,一輛又一輛高價高品質的e-bike出口量持續增加,可設是為台灣的自行車產業注入了一劑強心針。 而一直以來作為高階自行車生產重鎮的台灣,在這一波e-bike的堀起更連帶提升了地位,現在包括車架製造、電池、軟體整合、 電子組件等廠商也持續增加,儼然成為全球自行車的R&D研發中心。

> 有趣的是,在台灣e-bike相關的專賣店並不常見,或是說專業的自行車店也很少會展示e-bike。 事實上,e-bike的角色處於台灣法律的灰色地帶,尚未有一套完整的政府法規或器材規範。



「在台灣,一輛e-bike的價格往往會高於一輛150cc的摩托車,這也使得民眾偏好購買摩托車。」— Tony Hung

目前台灣的自行車內銷市場正處於低迷 成組裝後就運往國外了。」 期,幾年前很紅的公路車市場也變冷變 出口量及總值成長達50%,讓整車的平 化。在台灣政府的電動摩托車的購買補 僅是交通運輸而已。」 均出口單價達到1,378美元。

在台灣的數量太過龐大。

導品牌。每年送來數以千計的電機系統 運能力也更好。 來台灣組裝,卻只是個過客,然後就運 往世界各地。Bosch的e-bike電機系統 程師Tony Hung表示:「在台灣,一 亞太總監David Howard很直白的說, Bosch目前並沒有計畫為台灣內銷市場 供應e-bike,「因為這樣的改變需要政 府的參與,但這目前還沒有發生。」

相反的,包括Bosch以及其他品牌的 電機系統、e-bike零件廠商等,都在台 灣擁有專屬的保税倉庫,他們在這裡完 成e-bike的整車組裝,然後運回國外。 Howard進一步説明:「在台灣,一方 面是沒有e-bike或電動助力車的法律規 範,再者也幾乎不存在這個產品的內銷 市場。換句話説,就是消費者沒有需求 並且前方的困難重重一很明顯的看起 來台灣對於e-bike或電動助力車沒甚麼 興趣。」也因此Howard總結説:「為 此,我們至今尚未有計畫來台導入銷 售、提供保修服務等。而我們一直在做

助下,目前台灣的摩托車型態已漸漸的 的價格並不算高,尤其是跟風行於歐洲 的自行車專用道並不允許騎乘e-bike,

太宇工業(Astro Engineering)的工

這樣的情況似乎跟現實脫節,尤其 的是將電機系機提供給OEM組車廠,完 輛e-bike的價格往往會高於一輛150cc 的摩托車,這也使得民眾偏好購買摩托 另一個發展阻礙,Howard及一些自車。」在採訪的這段期間,Tonv正參加 蕭條。然而,台灣的自行車廠卻在去年 行車業界人士表示,摩托車在台灣幾乎 為期三天的台中自行車專賣店的導覽旅 報出佳績,在高價值、高利潤的e-bike 是擁有不可動搖的地位。可以這麼説, 程,他進一步表示:「我希望自行車店 創下歷史最高的出口總量紀錄。回顧 台灣的機車密度及平均每人擁有率居全 可以透過舉辦活動來推廣e-bike,這樣 2018年前9個月的銷售數字,e-bike的 球之冠,形成一幅很特別的機車族文 民眾就更能夠體會到e-bike的功能不僅

混亂及衝突的角色定位。有一些業界 而這個問題出在哪?據某位車界人士 從那吵雜、污染的燃油式機車,轉向以 人士也表示,目前台灣的政府法規還充 表示,問題在於政府相關單位對e-bike 電力作為能源的電動摩托車,例如市佔 斥著混亂及衝突,我們根本不知道要怎 發展的態度顯得冷淡,加上機動摩托車 率快速成長的Gogoro。摩托車在台灣 麼做,常常令人一頭霧水。例如,台灣 以電機大廠Bosch為例,這家可説 的e-bike相較之下顯得更為親民,並且 也不清楚它是否可以騎在一般道路。這 是全球最先進的中置馬達系統的德國領 摩托車還能提供較佳的腿部保護,其載 種不確定性及衝突還衍生出許多小問

> Mobility Holding(Tern的母公司)的 執行總監Joshua Hon指出,有許多e

bike的功能搭載著「步行輔助」(walk assist),就是一個會產生混淆的例子, 其步行輔助功能是讓騎士可以在行走時 更輕鬆的推動他們的e-bike。

當Mobility將他們旗下的e-bike產品 送至相關單位進行標準檢測,卻收到一 個非常相互矛盾的回覆。「其中有一間 認證機構回覆我們步行輔助這項功能是 OK的,但是另一間認證機構則表示這 項功能並不符合台灣法規。」Hon説明 如果台灣法規不核准這項功能,那很可 能包括Bosch、Shimano等電機大廠都 會跟台灣市場保持距離。「而如果我們 要這些領導品牌的廠商因應台灣市場, 來移除掉步行輔助這項功能,他們應該 會叫我不要做白日夢了吧!」

2018年,台灣政府相關單位推出新 的電池認證規範,要求所有e-bike電池 進行昂貴的認證測試。Hon針對此點説 明:「我們根本不知道這項認證規範 到底是怎麼生出來的?」Hon表示,台 灣如果要推廣e-bike騎乘其實一點也不 難, 最輕鬆的方式就是參照歐盟針對電 動助力車的認證規範。而老實説,台灣 有很多的e-bike廠商早就依循並通過更 為嚴格的歐盟標準進行認證。「這樣可 以立即確保高質量的e-bike進入台灣市

Tern的銷售和營銷總監Matthew Davis表示,缺乏e-bike相關法規和台 灣e-bike內銷市場的疲軟,這些因素 會阻礙台灣在發展e-bike的競爭力。 Davis説道:「我們認為缺乏一個健康 的e-bike及電動助力車市場是導致台灣 錯過e-bike熱潮的原因。「也因為如 此,更間接強化了中國大陸和歐洲等地 區特別受惠於這一波的e-bike熱潮。」

> 他補充説,打開台灣的 e-bike市場更能夠讓台 灣的白行車從業人員 「體驗產品的真正使用 模式, 淮而思考如何優 化產品。」

> 測試市場水溫。與 此同時,台灣兩大自行 車廠-捷安特和美利 達,分別率先將高品質 的中置馬達e-bike導入 台灣市場。然而,這兩 大廠似乎很少在推廣行 銷e-bike的使用情境及

巨大集團的全球行 銷長劉素娟(Phoebe



台中BESV電動自行車店經理Craig Wang。BESV車店是台灣唯 −專賣e-bike的專賣店。(Photo by Jo Beckendorff)

文

Liu)表示,在台灣要通過e-bike的規範 認證成本太高了。劉素娟進一步説明 「幾乎沒有人願意花這麼多的時間以及 成本去做這樣的認證。」尤其是目前台 灣e-bike還處於推廣階段因此銷量非常 有限。為此,大多數的品牌是不會考慮 推出符合台灣法規的e-bike。

美利達針對台灣市場推出兩款e-MTB,均搭載Shimano中置電機系 統。然而,截至目前這兩款e-MTB僅限 於網路訂購,而不是透過傳統車店的經 銷系統。美利達行銷副總鄭文祥表示: 「我們目前開放消費者上網訂購,然後 可選擇在美利達的經銷商進行領車。」 鄭副總進一步表示:「現在的階段是測 試台灣市場的水溫,畢竟以e-MTB這樣 的歐洲車款在價格上相對較高,還不能 夠貼近台灣市場的需求。」

BESV電動車品牌的母公司是台灣電 腦零件的龍頭品牌之一-達方電子,目 前在台灣開設了三間BESV電動車專賣 店,分別落腳於台北、台中、台南。 BESV台中店店經理Craig Wang表示,



多位台灣自行車業界人士參與記者。Io Beckendorff發起為期3天的台中e-bike車 店導覽之旅,而在這趟旅程中大概只有他們騎乘e-bike,幾乎沒看到其他民眾在 騎乘e-bike。在途中,他們還到Brovo Cafe 綠園道單車館喝杯咖啡小聊一番。左 起: Paul Lee、(Cheer Sports); Neil Hsieh、Tony Hung(Astro Engineering) ; Mark Huang \ Penny Chen(Bevato International) \

由於e-bike除了交通運輸之外,還可以 椅和購物籃等,可以打造出替代摩托車 族群的青睞。

能城市車款,加上週邊設備包括兒童座 油式還是電動摩托車。」

帶來健身等的好處,因此特別受到年長 的交通方案。他並進一步表示,「我認 為年輕的媽媽們會願意騎乘電動智能城 Craig Wang說道:「BESV的電動智」市車款用來取代摩托車,無論是取代燃

全新進化版!電動輔助YouBike E-YouBike新北市登場,讓民眾快速體 驗e-bike的魅力。預計在2019年第一 季,捷安特將在新北市建置300輛F-YouBike電動助力車,並且有計畫在各 個城市遍地開花,推廣這套公共自行車 系統。

或許,當更多的民眾體驗e-bike帶 來的優勢,會連帶提升購買e-bike的意 願。這並不是捷安特第一次改變台灣人 對於自行車的角色定位及態度。捷安特 作為台灣的本土產業,但在早期自行車 運動並不特別受到台灣民眾喜歡; 直到 2007年,捷安特創辦人劉金標開始以 身作則,以自行車環台旅行帶動一波又 -波的自行車熱潮,大幅提升自行車的 地位。當時已經73歲的劉金標,因為這 一趟接近1千公里的自行車環島受到媒 體的大篇幅報導,連帶迅速帶動了台灣 的白行車熱潮。

而究竟誰會是e-bike的自行車傳教士 劉金標呢?我們非常期待!

ASEANBIKE 東南亞單車展 十月曼谷登場

-場專為東南亞新興市場而啟動的自行車展,將於10月3號到5號在泰國曼谷登場。 由Eurobike 與N.C.C. 策展組織(NEO)共同合辦,這家公司具有在曼谷舉辦自行車消費展的經驗, 而這一場新的業界展覽將定名為「ASEANBIKE」並且由Eurobike做為後盾支持。



Stefan Reisinger (左), Eurobike負責人以及 NEO總裁Sakchai Pattarapreechakul (N.C.C. Exhibition Organization Co.,Ltd.) 歡慶簽約並將 於曼谷誕生新的ASEANBIKE單車展。

ASEAN 為東南亞國協的縮寫, 南、寮國、緬甸以及柬埔寨,這些國 高速的成長,成為單車產業界重要的 國。 供應源,包括了成車、電輔車、以及 零件,也代表了這區域有成長中的消 費市場。」

「這些市場除了是重要的供應端, 在配件與人身部品過往幾年也呈現穩

這是包含十個東南亞國家所組成的 家正在發展運動休閒文化,並且明顯 協會。Eurobike的負責人 Stefan 看到穩定的成長。」Reisinger補充 Reisinger 表示: 「這個區域過去有 到,並且列出了ASEAN的10個成員

> 主辦者表示:「東南亞區域的製造 **廠增加了對於西方品牌的吸引力,不** 只是因為中國商品受到懲罰性關稅與 反傾銷關税的影響。」

「許多東南亞國協的國家,明顯 定成長,這包括了印尼、馬來西亞、 增加了國際品牌自行車,以及通勤單 菲律賓、新加坡、泰國、汶萊、越 車的銷售量,並且顯現出上升潛力。

除了來自泰國和周邊國家的眾多本地 由「International Bangkok Bike」 製造商、品牌、進口商和批發商外, 改名為「Bicycle Super Sale」以減 ASFANBIKF環獲得了台灣和中國主 少公眾對於兩個自行車展覽的混淆。 要製造商和供應商,以及國際品牌的 參展意願。」

場車展將會具有各項國際車展的特點 訪者,將創造超過40億泰銖的經濟效 與規格。」

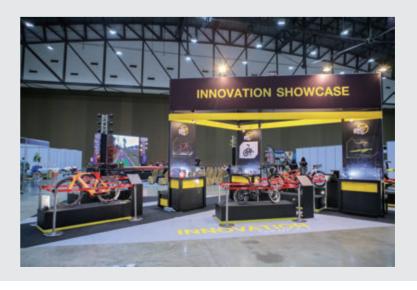
NEO 總裁Sakchai Pattara-的攤位形式,到OF形式的閉門會議, 也將會有進口商、零售商的會議,此 動可以參加。」

NEO 將把原本六月的消費者展覽

ASEANBIKE開放於OEM製造廠、 品牌商、進口商、分銷商、零售商, 而在地的主辦單位NEO表示:「這 預計吸引來自世界各地的55,000名參 雁。

ASEANBIKE將於泰國曼谷的 preechakul表示: 「ASEANBIKE將 Impact展覽館與會議廳舉行, 這是一 提供多個展館與會議室,從傳統車展 個擁有先進基礎設施和交通便利的先 進貿易展覽和會議中心。

更多相關資訊可參考官網: 外也會有展示試乘區,甚至有騎乘活 www.asean-bike.com 或 www. eurobike-show.com



2019台北車展綜觀全局:打氣筒

灌入的每一口空氣都能換來速度與快感

還有什麼好說的,它就是打氣筒;但隨著時代的進步,它又不僅僅是一支打氣筒。 快來瞧瞧這些隨車打氣筒或是落地式打氣筒有什麼特異功能!



的方式變的更多種。從電動打氣機到能 軟管氣嘴的設計可對應於法嘴及美嘴。 夠打無內胎專用的儲氣式打氣筒,讓選 擇變的更多元。此外,由於有這些產品 的誕生,讓消費者不再需要昂貴又笨重 的空氣壓縮機;诱禍狺些產品,騎十就 可以在家裡安裝Tubeless無內胎系統的 的胎壓。重量僅190克,並且由於採用 車胎。

雷動打氣筒, 其中有些產品有著超洣你 的尺寸,可以放入車衣後口袋。這樣的 產品結合了CO2氣瓶的方便性,並有著 可控式壓力設計,也不像CO2氣瓶是屬 於一次性使用的產品,因此可以降低對 環境的負擔。

你瞧瞧這玩意像是一支打氣筒嗎? Fumpa Hall 1 / 4F / L1309 的這款 打至你所設定的胎壓。快扣型的氣嘴頭 USB可充電式電動打氣筒體型迷你,但 功能卻非常強大。甚至説在性能上還強 過市面上許多的落地式打氣筒,而在體 型上卻是相對嬌小,重量僅為380克。 這樣的小體積以及輕量化,要放進背包 USB可充電式設計,並且可搭配使用於 一點也沒問題。

六條輪胎打氣,並且只需要20-25秒就 式高壓打氣筒。 能將700c公路車胎打至100 psi,最高 胎壓則來到120 psi。原廠在打氣筒出 款的打氣筒雖然還是要靠自己的力量來

還有一款體型更迷你、輕巧的mini-FumpaUSB可充電式電動打氣筒,其 體型大約是兩瓶CO2氣瓶的大小,充飽 電池即可為兩條公路車胎打到120psi 型較大的Windpro A落地式打氣筒以 USB可充電式設計,因此在長期使用下 同樣聰明的是最新導入市場的攜帶式 應該會比使用CO2氣瓶來得更經濟。

> Messingschlager Hall 2 / 1F / Q0117 也展出一款體型迷你的USB 可充電式電動打氣筒。這款M-Wave Elumatik可以輕易放進背包,並可為輪 胎打到100 psi的胎壓。

打氣壓力可透過電子螢幕進行調整, 而氣缸就負責自己的工作,自動將輪胎 適用於各種主流的氣嘴,並且隨附的氣 嘴配件可以為包括球類和充氣墊等進行 充氣。採用伸縮式軟管,足以應付狹窄 難纏的氣嘴位置。M-Wave Elumatik為 Messingschlager旗下多款的傳統打氣 打氣筒在充飽電後,其續航力可以為 筒,包括幾款級數較高的Air Bullet落地

Airace Hall 2 / 4F / S0704 最新 廠前就將電子胎壓錶進行校正,因此所 打氣,卻可説是市面上最聰明的打氣

隨著時代的進步,現在要為輪胎打氣 顯示的胎壓很俱有參考性。而其伸縮式 筒。Airace導入i-gauge科技,透過藍 牙無線傳輸可與智慧型手機連線,目前 旗下多款攜帶式打氣筒已經導入這項功

> 搭載I-gauge功能的打氣筒還包括體 及iSpeed F2 G迷你落地式打氣筒, 允許使用者即時監控打氣時的胎壓。此 外,只要在第一次诱渦智慧型手機設定 胎壓,下次使用時也可以不需要拿出手 機,當打氣時的胎壓到達建議值,打氣 筒便會發出聲音及震動警示。這一系列 的打氣筒可設定三種模式,對應MTB、 公路車、避震器等,並且允許使用者設 定不同的測量單位。



SKS Airstep腳踏打氣筒

德國配件製造商SKS Hall 1 / 4F / LO611a 這款Airstep腳踏打氣筒可以好 好利用自行車騎士的腿力,可以打到超 過100 psi的胎壓。

這款Airstep鋁合金腳踏打氣筒是 SKS與知名人體工學品牌SQLab攜手 開發的產品,並且在2018年獲得台北 自行車展創新設計獎。由於體積輕巧因 此很容易儲放,並且可以讓騎士的雙手 好好休息,讓打氣這件苦差事同樣由雙 腳代勞。完成打氣後,伸縮軟管會自動 縮回打氣筒,並且Airstep在收折後可以 來到很精實的尺寸。此外,本體還搭載 了壁掛架,無論是放在車店或是居家都 不會佔用太大的空間。

Beto Hall 2 / 1F / Q0908 首創EZ Head,同時擁有美式(紅色)與法式 (藍色)氣嘴頭,革命性無扳手八爪專 利設計,可單手輕鬆操作鎖固,將正確 氣嘴按出插入氣嘴閥,垂直向下按壓即 可鎖固,透過按壓上方凸起氣嘴,手臂 同步向上抬,即可解除。目前Beto搭載 EZ Head的打氣筒包括兩款級數較高的 款式: Rapidfill Extreme以及RapidAir T高壓落地式打氣筒,而其他款式的打 氣筒也可以透過選購來升級。

而另一款外型較為傳統,但功能同樣 強大的是Beto CMP-172SG9落地式

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且專利的雙頭三用氣嘴可適用於英式、這也意謂著幾乎不可能會發生洩氣,達需求將輪胎打至適當的壓力。另外, 強大的氣缸,可以快速且輕鬆地完成打 性。

嘴可適用於法式、美式氣嘴。在底嘴的 這款打氣筒的功能非常強大。 你一目瞭然。

度。

麼電子胎壓錶無論再怎麼準也沒用;為 鋁合金儲氣筒進行充氣。 此,Lezyne採用零外洩氣嘴頭設計,

Zéfal Hall 1/4F/MO301 展出一 Drive 儲氣式打氣筒不僅體型壯碩,更 應法式或美式氣嘴使用。 系列體型由小到大的Profil打氣筒。適 是非常的聰明,搭載儲氣系統專為無內 刃而解。當然,這款打氣筒也可以作為 鎖定的聰明嘴,可以對應於英式、法 另一款經典外型的Profil Max FP60 一般的落地式打氣筒使用,並且藉由使 是法國製造的頂級之作,採用永續林業 用強壯堅固的鋁、鋼材質,採用能耐高 的木頭把柄非常有質感。Z-Switch聰明 壓的尼龍編織外管以及電子胎壓錶,讓

大型胎壓錶還內建放大鏡,即時胎壓讓 Topeak Hall 1 / 4F / MO711 推出 的狺款Tubibooster,也可以幫助使用 Lezyne Hall 1 / 4F / LO315 新推 者安裝無內胎車胎。無內胎、CO2氣瓶 出的幾款打氣筒搭載電子胎壓錶。首先 大小都適用,獨特設計使用標準家用打 登場的是這款Digital Shock Drive避震 氣筒將空氣儲存在1000cc 容量鋁合金 器打氣筒,這款體型迷你的打氣筒卻有 儲氣筒中,讓儲氣筒可以使用於無內胎 著驚人的高胎壓輸出,可打到高達350 安裝或充氣,並且本體充飽氣的最高儲 psi;而電子胎壓錶可確保胎壓的精確 氣壓力200 psi(視打氣筒壓力)。氣 嘴頭相容法嘴以及美嘴,透過一般的落 不過,如果打氣筒會發生漏氣,那 地式打氣筒的軟管連接至氣嘴,即可為

一旦釋放儲氣筒的壓力,Tubiboost-

打氣筒,搭載4吋的超大型胎壓錶,並 確認在氣閥關之後才脫離避震器連接, er就像是一般的打氣筒一樣,可以視 式、美式的氣嘴。

而伸縮軟管可降低氣嘴發生故障的風 再難打氣的無內胎車胎,相信都能夠迎 僅堅固耐用而且經濟實惠。憑藉其快速

法式、美式氣嘴。這款26吋打氣筒擁有 到電子胎壓錶的數據與實際胎壓的一致 Topeak還有一款新品AirBooster,是 地式高壓打氣筒,顧名思義可以滿足超 一款輕便、容易使用的CO2 充氣頭。 高胎壓的需求,整體結合了鋼琴烤漆 Lezyne Digital Pressure Over 精密CNC打造L直角氣嘴頭讓你方便對 的精緻質感處理。最高胎壓可打至260 psi, 創新的聰明嘴適用於美式、法式、 最後,Lifu 立富 Hall 2 / 1F / 英式氣嘴。本體搭載3吋大鏡面高精度 用於公路車的Air Profil FC03由鋁合金 胎自行車而生。採用鋁合金長行程高效 [20722])的自有品牌Icetoolz帶來兩款 胎壓錶判讀更清楚更容易,金屬底座加 製成,可輕鬆打到高胎壓,並且搭載Z- 能的活塞軸設計,質感與耐用度兼俱; 落地式打氣筒新品。這款A451 Sport 強操作時的穩定性。整體而言,這支專 Turn聰明嘴可適用於法式、美式氣嘴, 透過強大且穩定的出氣量,即便是遇到 經濟型落地式打氣筒,本體採用鐵製不 業級的打氣筒可以變成騎士居家的裝飾 品,不再需要把打氣筒偷偷藏在陰暗的





Topeak Tubibooster,氣嘴頭可當成CO2打氣筒使用 Icetoolz A652超高壓落地式打氣筒



VELO 座墊

Velo推出各式各樣符合各種 騎乘型態的座墊,包括目前 流行的短鼻頭款式,可帶來 優化的騎乘體驗以及更佳的 性能。此外,由於採用全新 的製程,因此在外觀上也俱 有更整體的美學設計,並且 由於不需要加訂鉚釘讓這一 系列的座墊更防水。 Hall 2



/ 1F / Q0614

CHOSEN BOOST TC花鼓



這款Boost加大花鼓採用齒式聯軸器的設計。 經過強化的棘輪結構可以提供非常優越的傳 動效率,尤其是可以忠實傳遞奮力抽車時的 功率輸出。此外,由於花鼓結構打造的十分 堅固並使用直拉式幅條編法,同時達到高效 率與耐用性,可説是林道越野輪組的理想搭

配。 Hall 2 / 4F / R0114

RELIC

龍頭水壺架固定座

如果您的車架沒有設計水壺架孔,透過這款龍 頭水壺架固定座,可以為您的自行車增加裝載 水壳, 並且安裝簡單、結構輕便、價格也非 常親民。適用於標準尺寸的水壺,本體採用 鋁合金結構可降低水壺彈出的可能性。這種水 泰架固定座非常嫡用於e-bike,因為一般來説 e-bike車架都沒有設計水壺架孔。 Hall 2 / 4F

/ S0428



SPANNINGA

PIMENTO-BRAKE煞車燈

這款非常熱門的Pimento-Brake新增了煞 車燈功能,這個普遍應用於汽機車的功能 現在終於導入自行車以及e-bike。诱過煞 車燈的應用,可以為騎士提升在白天和夜 晚的行車安全。標準使用模式為4燭光輸 出;而當煞車時,最高的照明效果為40燭 光。 Hall 1 / 4F / M0310



達豫實業 壓縮服飾

達豫實業提供廣泛的服飾品項可滿足客戶打造 自有品牌的需求,包括運動壓縮襪、袖套、短 褲、長褲等,更進一步推出專為運動而生的壓 縮系統,其產品特色之一在於使用醫療等級的 材料及技術來製造。其運動壓縮系統可提供漸 進式的壓力設計,加上無縫式的設計,提供最

大到5XL的尺碼。這些 機能服飾對於MOQ最 低訂購量的要求並不算 太高,因此可以降低客 戶的研發成本,讓打浩 自有品牌變的簡單又低 風險。 Hall 1 / 4F /

N1321



FSA K-WING AGX 人體工學把



這是一款專為探險、砂礫騎乘、公路越野而 生的人體工學把。K-Wing AGX採用碳纖複 材打造,並且在煞變把位以及下把位提供經 渦優化的人體丁學。上把位採用10°前個 角,可允許騎士在爬坡時擁有更自然的騎乘 握姿,進一步提升呼吸順暢度。而在下把位 採用25mm外擴角設計,讓騎士更有操控自 信握著下把位,以高速之姿通過崎嶇路段。

Hall 1 / 4F / M1212-3

RIDEA SMP2功率盤



Ridea SMP2功率計是一款精準可靠的齒爪式(Spider)功率計,並且可相容於現有的 Ridea曲柄及齒盤。SMP2的BCD規格分為三種(110mm、130/94mm、144mm),可 根提您的騎乘需求打造出適合的功率齒盤組。 HALL 2 / 4F / S0334

OTRAJET

NEXO 26X1.75實 心胎



Nexo實心胎為了滿足e-bike車款的需求, 推別推出一系列在結構及材料都特別強化的 版本,不僅讓整車的載重限制提升了30%, 也連帶提升產品的使用壽命。此外,Nexo 還進一步推出可以符合多種輪徑及胎寬 尺寸,從折疊車到一般成車均可搭配信款 防爆、免充氣的實心胎。 Hall 2 / 4F / S0902

八方電氣(蘇州)

BAFANG BT F07 / F08

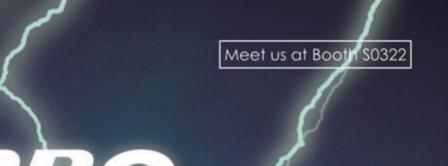
這款半整合式的電池適用於輕量化的e-bike 車架。八方帶來這兩款BT F07.450C和BT F08.600C擴展其e-bike電池系列,分別提 供450Wh或600Wh的容量,裝設位置可半 嵌入重架的下半部(側向拆卸)。BT F07 和F08採用18650鋰電池,可以在自行車上 或是在電池拆卸後進行充電,並且充電器提 供兩種規格。在電池的頂部內建電量顯示, 方便使用者即時監控電量,並且另可選擇" Keyed Alike"的車架電池鎖。 MO409



MESSINGSCHLAGER M-WAVE ELUMATIK

巔覆你對迷你型打氣筒的想像。這款體型輕巧的電動打氣筒可以打到100 psi的胎壓,適用 於主流的氣嘴規格。其迷你的身型可以輕鬆放入背包,並且採用USB可充電式。標配球針 和充氣床的氣嘴轉接頭,可説是居家旅行的必備好物。 Hall 2 / 1F / Q0117







We Embrace Innovation and Keep Moving Forward.



ERDP6.0CA-S 275+ / E-FULLY ALL MOUNTAIN

The ERDP 6.0CA-S 275+ Fully is design for conquering extreme terrain. The slim, muscular look is reminiscent of an off-road motorcycle. The carbon fiber chassis is manufactured utilizing EPS technology and High Modulus Carbon Fiber. EPS Tech is a unique forming technology which provides superior strenegth and extr me lightweight. Combined with a #6061 Aluminum rear triangle the complete frame is lightweight, stiff and responsive.

The heart of the frame is the power drive, a SHIMANO E-8000 motor with new in-tube battery.

FEATURES:

















^{*} For more details, please contact our representatives.

ALTERNATIVE OPTIONS IN ALUMINUM VERSION AND SYSTEM:

Aluminum Frame with BOSCH

Aluminum Frame with SHIMANO





Drive Unit: SHIMANO E8000 / E7000 Battery:

DARFON E4COC



野寶科技股份有限公司 台中市大甲區幼九路16號 NO.16, You 9th Rd., Dajia Dist., Taichung City 437, Taiwan A-PRO TECH CO., LTD. Tel: +886-426821688 Fax: +886-426821699 Email: apro-sales@aprotek.com.tw

NEW PRODUCTS

KMC X12鏈條

NO ONO

當自行車進入12速的時代,後飛輪的最大齒數以及體積也隨之增加;相反的是,齒片之

間的間距卻隨之縮小。為了應付這樣極端設計的挑戰,KMC重新設計鏈條,採用新式非

對稱式智慧導角,將外緣導角由兩處增至四處,特殊排列,巧妙地避免鏈片與齒盤相互

干擾,運轉安靜又安全,並且讓變速時上下鏈的動作更加流暢。 HALL 2 / 1F / PO114

FLR SHOES F-XX公路車鞋

藉由與頂尖職業選手的攜手合作與測試反饋, 打造出這款極為舒適的競賽用公路車鞋。F-XX 的特色之一在於支撐性極佳的鞋後跟,可以確 保在踩踏時讓足部保持在適當的位置;而在鞋 舌部分則採用非常柔軟的材質,讓足部不受到 壓迫,降低長途騎乘的不舒適。鞋身設有六個 通風口達到極佳的散熱效果,而剛性極佳的碳 纖維鞋底可確保最佳的踩踏效率,並且不容易 產生腳麻熱點。 Hall 1/4F/M1206



ROTOR

全球第一套13速系統

現有主流的公路車 變速系統為2×11

,其變速理論檔位 為22速,但由於齒 盤齒數與飛輪齒數

所對應的齒輪比會發生重疊,因此實際上的 有效檔位只有14速,並且還需要一定的自行 車騎乘經驗,才可以同時駕馭前變與後變的 換檔模式。相較之下,Rotor 1x13變速套件 提供13速不會發生重疊的齒輪比,並且在操 作上更為直覺易用。 Hall 1/4F/L0106

ITM

ITM50一體式車把

這款ITM50碳纖維一體式空力車把,顧名思義是一款頂級的操控座艙。ITM50採用獨特而優雅的設計語言,並且在本體結構直接內建自行車錶座,可以完美整合車錶。在上把位部分採用防滑抓握紋理,其帶有俯角且符合人體工學的把型,讓騎士可以得到最適化的操控性以及舒適性。 Hall 1/4F/M0318



MERCURY CYCLING

X系列輪組



X系列輪組是專為林道越野而生的重口味輸組,不僅耐操好用,而且其耐衝擊係數可允許在相同位置承受高達120焦耳的雙重衝擊。能達到這般的優異性能,歸功於採用Fiber-X的高模係數碳纖維,擁有將近兩倍的抗拉強度。輪框俱有經過特殊設計的梯形結構,能有效消除來自路面的衝擊力。輪框內徑提供多種選擇從25-40mm。Mercury專屬的Axis直拉式花鼓搭載三階式棘爪,其咬合角度為3.5°。在規格部分支援現有主流的輪徑大小、心軸尺寸、花鼓規格等。

SKS SPEEDROCKER

這款擋泥板是專為砂礫車、探險車、公路越野車而生,特別適用於胎寬超過32mm的公路車,並且可在崎嶇地形上提供穩定性,帶來全天候的最佳保護。在前輪擋泥板設計有全新雙層高度擾流板,可以有效避免雨水及泥砂噴到騎士的臉部;而在後輪擋泥板則採用伸縮式設計,提供更廣泛的保護範圍。前、後擋泥板的支架均採用黑色陽極氧化鋁合金,搭配全新的橡膠固定系統。

4F / L0611a



八方電氣(蘇州) 八方M800中置電機

這顆體型精實的中置電機適用於公路、砂礫車、城市車等 e-bike系列。這款可以整合於車架的電機的重量低於2.3公斤,額定輸出功率為200W、最大扭矩為55Nm,並且針對在爬坡以及加速時給予動力優化。全套系統包括顯示螢幕、遙控手把、200Wh的整合式電池,並且全套重量也低於4.4公斤。這樣一套超輕量又可以帶來額外的動力輸出,可說是自行車愛好者與假日騎士的夢幻逸品,從此無論是要長途騎乘或是高山爬坡都不成問題。在限速規範部分符合25km / h (歐盟),32km / h (美國)、45km / h (S-Pedelec),而當騎士的踩踏力超過限速,則不會受到限速的影響。 MO409



BETO

QIKFIX SUPREME工具組

專業技師所需要的工具都差不多整合在QikFix Supreme工具組。這款18合1多功能工具 俱備專利斷鏈器及鏈條固定器,並提供各種 尺寸的內六角扳手及螺絲起子,使得這支外型迷你的隨車工具在功能上非常強大,並 且用起來非常順手。此外,還搭配CO2氣 嘴、10mm扳手、#25/#30星型扳手、幅絲 扳手等工具。 Hall 2/1F/Q0908



HAFNY HF-MRO88 自行車後視鏡



隨時監看你的背後。這款HF-MR088自行車 後視鏡提供多種鏡片,以滿足不同的騎乘需 求。其中耐用的不鏽鋼框體版非常適用於城 市通勤車,而HD高清鏡片則適用於騎乘速度 較快的e-bike;另外還有防眩藍光鏡片可適 用於豔陽高照的騎乘。本體採用耐用的強化 玻纖尼龍,可快速鎖付在公路車以及MTB的 車把手上。

ALEXRIMS BEAR PAWLS BEB004花鼓

Bear Pawls適用於e-bike所帶來更大的功率輸出以及扭距。本體採用結合Power Stroke技術的碳化鋼材飛輪底座,搭配較大的Flange花鼓設計,可打造出較大的幅條角度、剛性更佳的輪組。煞車系統對應於國際六孔,採用四顆密封的軸承可平均分配內部應力,同時保持高性能的滾動效率。 Hall 2/1F/Q0714





TAISPO STICKS WITH 3-DAY 2020 SHOW

TaiSPO will continue its three-day schedule for its 2020 edition, which will again be at the Taipei World Trade Center and run concurrently with Taipei Cycle,

show organizers announced yesterday.

back to March, I hope we can have a little bit of synergy benefit for visitors," said Paul Liu, project manager for TaiSPO.

TaiSPO 2020 will be March 5-7, starting one day after the start of Taipei Cycle. TaiSPO this year downsized the sporting goods trade show to three days, and reduced its footprint to a single hall at the TWTC from two halls. Liu said exhibitors preferred a more compact schedule.

TaiSPO will stick with the TWTC location in the city center. Although it has hosted the show at Nangang, Liu said exhibitors and visitors preferred the familiar TWTC venue. which has been TaiSPO's traditional home.

TaiSPO organizers also worry

▶ ince Cycle has moved that the growth of Taipei Cycle programs, that are increasingly imcould consume most of the available space at Nangang.

> TAITRA, which organizes TaiSPO and Taipei Cycle, said it would continue to partner with technology and service companies to better align TaiSPO with emerging trends in sports and fitness.

We want to incorporate more new segments to the show, besides the traditional equipment and fitness machines," Liu said.

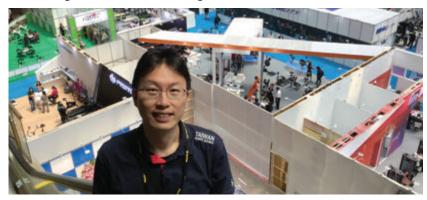
TAITRA teamed up with the Taiwan Smart Textile Association this year to organize a cluster of smart wearable exhibitors at TaiSPO.

Organizers are also increasing their efforts to attract more gym owners to the show, focusing on fitness services, such as membership management systems and workout portant to gym operators.

As another draw, TaiSPO plans to continue bringing in high-profile executives from Asian fitness clubs for its sports industry management

Show organizers are also hosting

high-energy fitness demonstrations and other events on the TWTC stage to enliven proceedings. Today's events include the CrossFit Taiwan Uprising Challenge. On Saturday, TaiSPO is featuring the "Fitness Mania" series of fitness class demos. **Barbara Smit**



TaiSPO project manager Paul Liu

SPIKE IN STYLE WITH CONTI'S **NEW 'SWIRLED' VOLLEYBALLS**

With their bright colors and patented new "swirl design," the newest balls from Conti cut a dashing figure on volleyball courts.

nstead of the traditional design that the swirl balls come in at the that uses 18 nearly rectangular panels, the new balls are constructed with 10 curved panels that converge in a swirl pattern.

"It's a patented design that makes the appearance more dynamic, combined with our sandwich construction to make the ball soft," said Paul Yang, vice president of Continental Chemical Industries and chairman of the Taiwan Sporting Goods Manufacturers Association. The Taiwanese company makes an array of quality balls for team sports, and supplies prominent international brands.

By using fewer panels, he said, Conti can shave the assembly time for a ball by about 20 percent, to 8 or 9 minutes from 10 to 12 minutes.

"We save in labor costs, but the material cost is higher," Yang said. "We try to absorb the difference, so same price as the traditional balls."

Balls made with the swirl design now account for about 10 percent of new orders, Yang said. The company is working with customers in countries from the Czech Republic to Colombia to popularize the style.

■ Barbara Smit



Conti's Paul Yang with a conventional volleyball (right) and one made with the company's new swirl pattern.

NEW TREADMILL IS 'LIKE A TANK'

DK City encourages runners to give its new Alpha Runner treadmill a beating.

belt is made with a thick rubber that Barbara Smit helps to absorb shocks."

For durability, each rubber slat sits on a base of aluminum instead of wood.

The Alpha Runner has a motor, but runners can turn it off for a self-powered workout - or crank up resistance for a tough "sled push" mode.

The belt inclines, and the machine accommodates an unlimited sprint speed. It's also quiet and smooth-

The AR-22 is available in two ver-

he treadmill's belt "is like a sions and is the newest member tank," Aurelie Wu said yester- of DK City's Alpha Runner seday at **DK City**. **D0521** "The ries, which it launched last year.



Aurelie Wu (left) and Tim Huang with the DK City AR-22 treadmill

1-ISPO

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EVENT SCHEDULE

All events are in TWTC Exhibition Hall 1.

Thursday - Friday March 28 - 29

Show Hours: 9 a.m. - 6 p.m. Saturday, March 30

(Public Day) Show Hours: 9 a.m. - 3 p.m.

All Day Events TaiSPO Innovation Award Display Area C0315

Innovative Design Award in Sports Technology Display Area C0415

Saturday, March 30

9 a.m. – 3 p.m. International Seminar for Sports Nutrition 2F/Conference Rooms 3 - 4 Stage

Friday, March 29

9 a.m. - 2 p.m.

Smart Textile Seminar

& Partnering Meeting

2F/Conference Rooms 3 - 4

9 a.m. - 6 p.m. CrossFit Taiwan Uprising Challenge Stage

Saturday, March 30

9 a.m. - 3 p.m. International Seminar for Sports Nutrition 2F/Conference Rooms 3 - 4

9 a.m. – 3 p.m. **FitnessMania** Stage



INTENZA STEPS UP THE INTENSITY WITH WEIGHT VESTS

Tower running is so trendy that there's now a race circuit, where hundreds of participants rush up the staircases of iconic buildings from Seoul to New York.

Since tower runners can't always train at the Empire State Building or the Taipei 101, Intenza D0723a offers the Escalate climber. With an adjustable incline and step height, it can help them prepare for such aruelina runs.

Set to its lowest step height, however, and the Escalate can provide a low-impact workout for gym members who'd rather take the el-

This versatility, combined with a slick appearance, has turned the Escalate into a key differentiator for Intenza.

For athletes who want to push themselves to the limit, Intenza now is debuting weight vests that can increase the difficulty of a session on the Escalate.

"The Escalate is very suitable for intense training. Throw in your weight vest and you have vet another level of intensity," said Eleanor-Jayne Browne, vice president of branding and communications. "It could help amp up your exercise regime, or increase your endur-

Browne said workouts combining the Escalate with weight vests help train firefighters — and prepare hopefuls for the Candidate Physical Ability Test, the standard physical used to test North American firefighter recruits.

The vest comes in two pieces, both with small pockets that can hold weights of up 2.5 pounds. The first vest can carry up to 50

Intenza weight vest

ment vest, users can haul a total of 75 extra pounds on the Escalate.

The concept fits with the demand for increasingly intense workouts. Many studios now offer highintensity interval training (HIIT), as well as equipment intended for functional and athletic training.

That's inspired Intenza to develop a line of functional training gear.

pounds. With the second attach- "This is the beginning of many complementary items that could become a full cross-training package," Browne said.

> The Taiwan fitness equipment brand also offers a full range of cardio equipment, some equipped with smart consoles.

At its booth, Intenza is hosting group training demos using the latest version of its indoor cycles. A new console is designed to be more ergonomic and use a more intuitive display.

'The riding position changes a lot during a cycling class, so we worked a lot on the placement of the console, to make sure it would be reachable and easy to read in any position," said Johnny Chu, a product designer at Intenza.

The console summarizes the most important information on one page, and more advanced data and functions on two other pages.

The 550 GC3 cycle has a colorcoding system that indicates the cyclist's effort. A range of five colors indicates if the user is pedaling hard or taking it easy.

The color indicators can be customized to reflect users' personal abilities by accounting for age and gender when estimating their maximum heart rates.

The Escalate climber, combined with upgrades in Intenza's cardio range, have helped the company expand quickly. It should get another push this year when it opens a European subsidiary in Düsseldorf, Germany, under the leadership of Lars Schmidt.

The Dutchman is a seasoned fitness industry executive. He was previously CEO of MoveToLive and vice president of sales in Eu-

rope, the Middle East and Africa for Freemotion Fitness.

Schmidt has been with Intenza since the beginning of March. He is putting together a team of sales agents in Germany and reinforcing distribution in other European markets. Intenza already has lined up two distributors for France and for Spain and Portugal.

Intenza's European subsidiary complements others in Singapore, Japan, South Korea and the United States. The U.S. subsidiary, based near Seattle, Washington, is under new leadership. Daniel Woods was appointed as managing director earlier this year, replacing Kurt

Schmidt said unique features help Intenza's products compete with leading international brands in the commercial market.

One is InCare, an advanced maintenance function for its smart consoles.

"It reports directly to our European service center and the distributor," Schmidt said. "This means we will know in advance when there is going to be a malfunction and we can intervene to prevent disruption.'

Intenza is also investing in marketing with Intenza 2.0, an updated visual identity launched last year, and marketing tools for Intenza customers.

For 2019, Intenza is focusing on the hashtags #futureme and #tomorrowtoday to inspire gym users.

'The idea is that decisions made today will have an impact tomorrow, and we want to highlight training suggestions instead of guilttripping people," Browne said.



Intenza 550 GC3 indoor cycle

4 2 SHOW DAILY TAISPO Friday, March 29, 2019

LEAN MANUFACTURING IS A **TONIC FOR TONIC FITNESS**

When a supply truck arrives at Tonic Fitness Technology in Tainan, the driver gets precise instructions on where to park. The delivery is arranged like clockwork, with a materials flow chart mapping out exactly where each part from the truck should go.

t's part of a lean manufacturing system at **Tonic D0321** that has led to significant productivity gains. The system has enabled the fitness equipment maker to roughly halve its supplier delivery times to 45 minutes.

"We have detailed sheets for each supplier, telling the driver where to unload and which forklift to use," said Vince Wu, the chief executive of Tonic Fitness. "These are all small things, but they add up to a much more productive flow."

When a key customer experienced surging sales, Tonic Fitness had to boost capacity and improve its productivity.

The results are impressive. Before the company started implementing lean manufacturing four years ago, it produced about 60,000 units a year with 110 work-

Last year, output soared to 200,000 units with 230 workers. Wu plans to increase production again to about 2,000 units a day in the second half of this year, up from about 500 at the beginning of the vear.

Tonic is also building a second factory that should begin production in the second quarter of 2020. That plant occupies about 10,000 square meters (2.5 acres) of land in Tainan's Shin-Ji Industrial Park.

When production is in full swing. Tonic says its combined annual capacity should reach about 1 million units, with strategic outsourcing. Because much of the production will be automated, Tonic will need about 500 employees.

"The most important gains are in the internal delivery," Wu said. "Previously, employees had to move around to fetch parts. Now, the robot will move so the employees can focus on assembly. This is where they add the most value."

Tonic measures efficiency in "takt time," or the time a unit spends at each station. Before implementing lean manufacturing measures. Tonic's takt time was about 120 seconds. It's gradually lowered it to 74 seconds in 2016 and 60 seconds last year.

Tonic makes indoor cycles for



A rendering of Tonic's new factory in Tainan, scheduled to open in 2020

two indoor cycle demos on 10 bikes today, and another on 33 bikes during the public day on Saturday.

At TaiSPO, Tonic is sharing a booth with the Taiwan Sporting Goods Manufacturers Association (TSMA) and other members of the S-Team, a group of 16 leading Taiwanese sporting goods manufacturers and suppliers.

The S-Team, which Wu has chaired since last year, helps its members share resources to improve their operations.

When the S-Team was created the Taiwan market under its i-Shape eight years ago, the members tried brand name. The company will host to work together more efficiently

by standardizing parts. But Wu acknowledged that this proved complicated.

Now, S-Team members focus on learning from one another on such topics as marketing and lean manufacturing.

Twelve participants recently returned from a visit to the United States, where they toured an Olympic training site in Tennessee, the training center for the Texas Rangers professional baseball team near Dallas, and the IHRSA convention and trade fair in San Diego.

■ Barbara Smit

LIVE AND IN LIVING COLOR: LIFESPAN FRESHENS BRANDING

With its TaiSPO booth decorated in shades of turquoise and bright orange, LifeSpan is debuting fresh branding to spotlight its technology and design upgrades.

ifeSpan is the fitness equipment brand of Strength Master Fitness Tech, D0026 one of Taiwan's leading fitness equipment makers.

The brand is long established in the U.S. market, with smart features in cardio and workplace fitness equipment. LifeSpan launches the new brand identity as it expands its global distribution.

Strength Master has also updated digital features on LifeSpan's treadmills, after absorbing a Taiwanese firm last year that specializes in console technology.

"The consoles of all treadmills will have interactive functions and built-in fitness programs," said Kirsty Chen, deputy manager of the Strength Master sales department. The company will update its bikes and ellipticals next year.

The integration of the technology makes it easier for Strength Master to smartly combine its hardware with digital functions. Chen said the focus is on the user experience, with touchscreens

highlight the that most relevant functions.

The system has Bluetooth connectivity and is compatible with such apps as Google Fit and Apple Health.

LifeSpan treadmills already include such features as Intelli-Step, which counts a user's steps, and Intelli-Guard, which makes treadmills safer by stopping the

belt when it hasn't been used for ture. It named Herman Bakker as more than 20 seconds.

sume pride of place at LifeSpan's rica. colorful TaiSPO booth.

"It's the first time that we are emphasizing the LifeSpan brand here," Chen said. "The decoration is like a runway, with two distinct areas for the fitness and workplace products."

Strength Master is also investing in LifeSpan's sales infrastruc-

"IT'S THE FIRST TIME THAT WE ARE EMPHASIZING THE LIFESPAN BRAND HERE. THE DECORATION IS LIKE A RUNWAY, WITH TWO DISTINCT AREAS FOR THE FITNESS AND WORKPLACE PRODUCTS."

> - KIRSTY CHEN, STRENGTH MASTER

business development manager The upgraded treadmills as- in Europe, the Middle East and Af-

> Bakker is a seasoned Dutch executive who formerly supervised European distributors for Life Fitness, a leading fitness equipment company. He spent 14 years there, the last six as country manager for the Benelux countries.

> LifeSpan is also considering opening a full-fledged European subsidiary to accompany its distribution center in the Netherlands.

> Its U.S. subsidiary has helped drive LifeSpan sales there. Based in Salt Lake City, Utah, it is called PCE Fitness.

> Along with equipment, PCE sells Interactive Health Partner, an online health management system.

> Based in Changhua County. Strength Master also sells the Ampera line of training equipment that replaces free weights with an electrical resistance system.

FUTURE OLYMPIC SKATEBOARDERS MAY GET THEIR START ON A TK CHIN RAMP

For the first time, skateboarders will compete in the Summer Olympics next year.

the 2020 Tokyo Games to include skateboarding, along with four other non-traditional Olympic sports, may help make the games relevant to younger and more urban viewers.

It was also an inspiration to Howard Chin, a Taiwanese businessman who has invented many pieces of sports gear and toys in his career.

His Taipei-based company, TK Chin, A0616 is showing a portable skateboarding ramp at TaiSPO

"It's like a Lego ramp," Chin said. "There is big customer potential because it's compact and easy to assemble. You could take it along for a picnic."

TK Chin has sold portable skateboarding ramps for years, but Chin said the upcoming Olympic Games prompted him to expand the range by adding modules so buyers can customize the ramps.

You can combine them and change many features. That makes it much more interesting," he said.

TK Chin was originally a trading

he decision by organizers of company, but changed its focus after opening a factory in Malaysia. The company now handles many types of manufacturing, from injection molding to welding.

> Ken Chin, the owner's son, said the Malaysian factory gives TK Chin a competitive advantage because of the country's low oil prices and high labor productivity.

> TK Chin now operates two factories in Penang, in northwest Malaysia, that employ about 200 and cover some 24,000 square meters (258,000 square feet). Instead of dispatching Taiwanese managers to supervise production, TK Chin has installed cameras to monitor the factories remotely.

> Malaysia's favorable trading relationships have also helped TK Chin develop its international business.

> TK Chin now sells active leisure products in all shapes and sizes most of them made of plastic and mostly, but not exclusively, intended for children or teenagers.

> Its wide-ranging catalog features products from swings to boxing

equipment, and from basketball hoops to balance boards.

Chin prides himself on creating many of the products, some of which have garnered recognition for their ingenuity. A portable slide, for example, may be attached to indoor stairs or set up as a standalone slide in the

TK Chin sells to toy stores as well as sporting goods chains, including Intersport and Sport 2000. Chin says the distinction between toys and sporting goods is blurring because par-

ents are increasingly eager to encourage their children to be active anything to get them away from sitting for hours in front of a TV or a computer screen.

One of Chin's latest inventions is a basketball set that uses a handle to adjust the height of the hoop. "Previously it was a telescopic system. You had to take out the pin and pull, and it was quite heavy," he said. "The new system is much easier and lighter."

Another deceptively simple innovation is an arc-shaped base on TK Chin's basketball sets. Many basket-



Howard Chin, founder of TK Chin, demonstrates his portable, modular skateboarding ramp.

ball sets stand on a heavy square base so they won't keel over. But these types of bases encroach on the playing surface and are so heavy that players could stub their toes or twist their ankles in the heat of the action.

A balance board incorporates a guard on the edge to prevent users from toppling backward. Chin said his product is about half the price of the leading balance trainers on the market. The guard makes the balance trainer more versatile, so users can more easily train abs and legs.

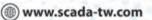
■ Barbara Smit



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SHOW DAILY TAISPO Friday, March 29, 2019

SAEKO GOES THE DISTANCE WITH **OLYMPIC HOPEFUL CHANG TUAN CHUN**

With just over a year to go before the Tokyo Olympics, Chang Tuan Chun is training hard to secure a spot in the triathlon at the Games.



ko's Selina Liu poses with three winners - the Falcon and Carina goggles, and Taiwanese triathlete and Olympic hopeful Chang Tuan Chun (in the display photo).

s he raises funds to train in Thailand and New Zealand, the Taiwanese triathlete receives steadfast support from Saeko, a goggle brand that sells products for indoor and outdoor swimming.

The Saeko brand is owned by First Rank **D0110** of Taipei. By sponsoring Tuan Chun, Saeko features on the same garments as much larger sponsors such as Nike.

"We have built up our marketing department for the Taiwanese market in the last two years," said Selina Liu, marketing manager for First Rank. "It has helped to create more activities and to build on the recognition we have obtained for and the seals won't pop out.

our goggles."

The brand has supported several water sports and endurance events, such as last year's Urban Aquathlon in Singapore and the Xterra Taiwan race, where Saeko appeared on the arrival gate.

The partnership with Tuan Chun comes in handy as he travels to races around Asia, since Saeko is also looking to widen its reach in the area. It has recently targeted the Philippines, Singapore and Bangladesh, and this year plans to focus on Indonesia, Malaysia and

First Rank also supplies retailers and water sports brands in several other markets, thanks to the reputation of its products and technology.

For example, the Ultrafuse technology that First Rank uses to assemble its goggles allows it to produce a wide variety of designs, while ensuring there is no leakage,

"The two parts are fused. That means we can create many different combinations, and not just round-shaped goggles," Liu said.

First Rank earned a Taiwan Excellence award this year for its Falcon model, named after the shape of the lens. Liu said the goggles are particularly comfortable because of the construction and soft gasket. The design offers panoramic vision with clear frontal and side vision.

A second prize winner, the Carina, offers many of the same features and adds a reflective coating. It comes with patented buckles designed by First Rank, so the goggles are easy to tighten or loosen.

The awards support First Rank's trade activities and provide extra exposure for the brand. The mark is used on point of sale materials for Saeko goggles along, of course, with Tuan Chun.

Barbara Smit

CHARDER'S BODY ANALYZER CAN FATTEN GYM RETENTION RATES

Step onto Charder's analyzer, hold the handles, and within seconds you will get the lowdown on your body composition, fat analysis and muscle quality — all neatly summarized in a few figures and graphs.

uch equipment, which relies on bioelectrical impedance analysis (BIA), has proliferated in recent years as gym operators seek to provide extra services to their members, boost retention rates and even add a few extra dollars to their monthly dues.

Charder **B0625a** has thrown its weight behind body composition analysis by developing its own gear and algorithms, and by using medical-grade technology that delivers accurate results in under a minute.

'It's very useful for gyms and personal trainers, who can explain the results and formulate appropriate training plans for gym members," said Sally Chen, Charder's deputy general manager.

The Charder body analyzer is available in two versions. A larger analyzer, for medical professionals, uses five or six frequencies for detailed data. A smaller machine, which Charder is debuting at TaiSPO, uses three frequencies to provide data that is most relevant for sports and fitness.

By using more frequencies, the company explains, the system can provide more, and more detailed, types of analyses.

For example, a single low-frequency current will bypass a cell membrane instead of penetrating it, which prevents an analysis of cell walls.

The BIA market has long been dominated by Inbody, but the South Korean company is facing a growing number of competitors such as Tanita, Asterasys and Acuniq. Charder says most gym analyzers operate with two frequencies.

Charder's smaller MA 601 model requires users to remove their shoes, stand on a little platform and hold one handle in each hand. The machine sends barely noticeable electrical currents through the body. It then computes a convenient single-page summary.

A "Muscle Quality Analysis," for example, estimates the user's muscle quality based on muscle strength and adjusted for age and gender.

Charder's more sophisticated model for medical professionals also generates a sometimes unsavory "Abdominal Fat Analysis," which measures the percentages of a user's visceral and subcutaneous fat, as higher percentages of visceral fat can lead to a greater risk of obesity-related diseases. Most analyzers, by comparison, lump both measurements together into a single body fat percentage.

Charder has been developing its BIA system for several years, and said the algorithms it uses have been "repeatedly verified by a large number of clinical experiments.'

"The analysis results can be

synced directly with the gym's membership management system," said Chris Cho, brand manager. "Gyms can help users track their progress more effectively and conveniently if they can store and analyze the results directly."

The Charder system uses the gym's WiFi network to connect with its membership management system.

Charder, in Taichung, was founded by Paul Tsai, an electronics engineer. The company started as an OEM manufacturer of consumer

scales. In 2005, it launched Charder Medical, targeting customers from hospitals to dialysis centers and veterinary clinics.

Another customer group includes industrial service customers such as food producers and the shipping industry, which use Charder scales.

Charder's customers clude such big names as Tefal, Panasonic and Omron, which encouraged Charder to develop a body fat analysis system.

Charder's work on bioelectrical impedance analysis has drawn the attention of Taiwan's ministry of health. The ministry is conducting a threeyear national health survey that will be used to guide Taiwan's health policies.

While body measurements typically focus on fat, Cho said the muscle quality analysis could be equally useful for health care providers, especially those who care for elderly patients.

By adding connectivity functions to its body composition analyzers, Charder is positioning itself in the healthcare market. A user's Body Composition Analysis can be quickly added to someone's medical records or shared with his or her health insurance system, Cho said.

Another Charder brand, Oserio, makes equipment for the consumer market through customers such as Watsons, the drugstore chain. Its machines are made by manufacturers in China and Taiwan.



Bioelectrical Impedance Analysis provides data relevant for workout plans.

TAISPO HONORS 10 PRODUCTS WITH INNOVATION AWARDS

From an energy-packed drumming workout to a tiny bicycle power meter, 10 groundbreaking products won TaiSPO Innovation Awards.



Training with a Parabell board

ee the winners on display at booth C0315.

The Parabell Training Course, from TFL Fitness Center, is a functional training workout that uses a Parabell board. TFL says the board, with seven grip points, permits more versatile exercises than dumbbells and other weights because it can be held at a wider variety of angles.

The jury also liked the Crazy Hit! group exercise class, where exercisers pound on a Fly Step board with drum sticks (see related story, this page).

The S-Force Performance Trainer from Matrix, a brand of Johnson Health Tech, B0609a is meant for

athletic performance and high-intensity interval training (HIIT). The low-impact machine helps users work on acceleration, like the drive phase of a sprint, or sports like basketball and football.



McFashion 3D elbow protector

The Sole Stepper from Dyaco International B1109 is made for endurance training or short bursts. An incline feature changes the intensity of the workout. Dyaco says it can be used for circuit training or as a standalone trainer.

The versatile Verso is a stepper



Perseidas noise-reducing exercise mat

that has cycle and elliptical modes as well (see story in yesterday's TaiSPO Show Daily). Verso supplier Sports Art B0309a offers two selfpowered versions.

The 3D elbow protector from McFashion International A0414 is a seamless sleeve with a silicone



Matrix S-Force Performance Trainer

structure to prevent injuries from collisions.

The McSIL Seamless Elbow Protect Sleeve has a patented, fourway super-stretch fabric, which is ultra-thin and light and provides compression for muscle support. It includes a silicone buffer with triangular shapes.

An exercise mat from **Perseidas** Enterprise D0205 not only protects the floor, but protects the ears of the neighbors. It cuts vibration and noise caused by barbells dropped on the floor. A new crosslock system makes the mats easy to assemble and disassemble.

The Arofly Link from **TBS Corporation D032** connects the miniature Arofly bicycle power meter and cadence sensor with other bike computers, using Bluetooth or Ant+.

The Fast system from Enford ternational integrates three steps for making custom soles into one machine, so a custom insole can be made in less than 30 minutes. ■



Dyaco Sole Stepper

KEDDY LIU POUNDS THE DRUM FOR THE CRAZY HIT! WORKOUT

In a spacious exercise studio in Taoyuan recently, some 20 women were jumping around, cheering — and furiously hitting inflated balance trainers.

exercise class invented in Taiwan that has won plaudits for accessible full-body training routines, done in fun, high-energy classes.

The face behind Crazy Hit is Keddy Liu, an instructor from Taiwan's Fly Fitness and Teaching Union. Liu got his start teaching fitness classes at Les Mills and Radical Fitness. He wanted to create a class that was original and accessible, and had a local touch.

"Drums are part of our culture we play them at big festivals," Liu said. "The trick was to create equipment and exercise that made it easy and entertaining to train with drum sticks."

Crazy Hit classes use sticks

elcome to Crazy Hit!, an comfort. They are thick and feature anti-slip grooves and are held "like Chinese-style drumming," Liu

> The other essential component of a Crazy Hit class is the Fly Step, a balance trainer that looks like an oval green Bosu ball. Both were designed specifically for Crazy Hit and are made in Taiwan.

"Drumming on the floor would be too hard and noisy, and too tough for tall people," Liu said. 'But if the board is too big there is not enough space to move around and do other exercise like squats."

Workouts consist of 10 musical segments that progress from a warm-up to simple aerobics to high-powered cardio training and balance exercises. The most popmade of wood, not plastic, for ular part comes about halfway

through, when participants are encouraged to wildly beat on their Fly Steps and the instructor makes sure they do so with plenty of cheerful en-

"In one hour, you get cardio training, you work on your legs, arms and core muscles. and you have plenty of fun," Liu said.

Taoyuan class were beginners who had never tried Crazy Hit, but they had no trouble following the moves.

Fly Fitness has publicized Crazy Hit classes for about two years. selling the program to fitness clubs and organizing family-friendly



Keddy Liu leads a Crazy Hit! workout in Taoyuan.

Most of the participants at the workshops. They've become so popular that Liu has about 20 to 30 bookings per week all over Taiwan - so many that he can't do them all.

> Fly Fitness plans to showcase Crazy Hit at international fairs and create a licensing program.

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