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TAICHUNG
bike week

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September 26, 2018



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September 26

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30°C (86°F)

Sunny



TONIGHT



27°C (81°F)

Partly Cloudy

TOMORROW



30°C (86°F)

Sunny

Wednesday, September 26, 2018

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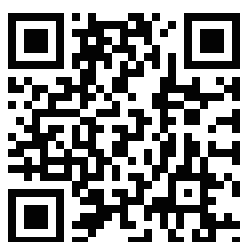
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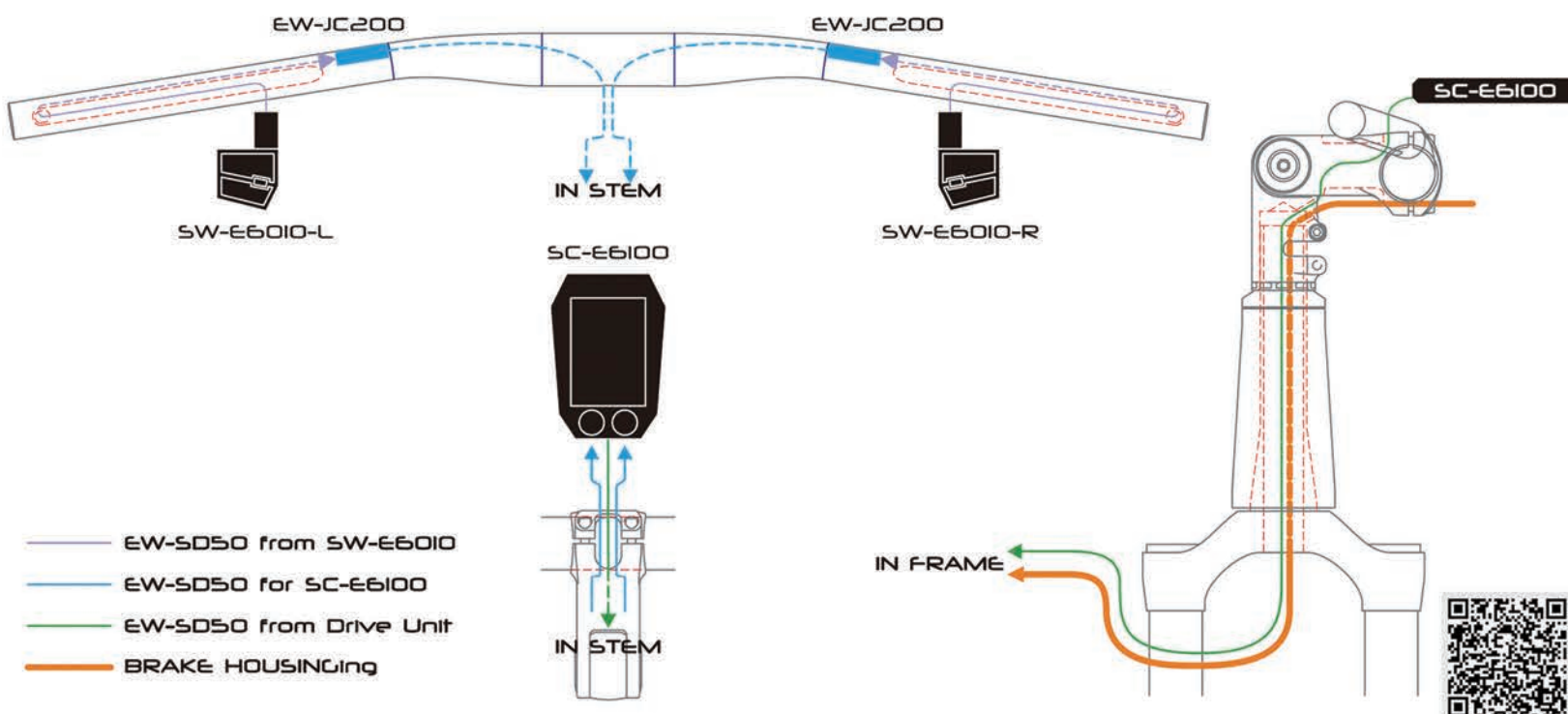
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Taichung City Mayor Lin Chia-lung

Taichung - The Bicycle City

Taichung contains Taiwan's largest bicycle industry cluster, and can rightfully claim to be the world's high-end bicycle R&D and supply center. It is also the location of the world-famous Houfeng, Dongfeng, and Tanyashen bike routes, and is a growing hotbed of cycling activities. The "Bicycle 369" project, which was completed this summer, has made Taichung a 'Bicycle City' worthy of the name. The annual Taichung Bike Week (TBW) also underscores Taichung City Government's (TCG) commitment to the continued improvement of bicycle-related industries.

Taichung's flourishing bicycle industry and livable environment make it an extremely cycling-friendly city. Since Mayor Lin Chia-lung took office, he has strongly promoted the "Bicycle 369" project, which was completed ahead of time this summer. The Bicycle 369 project has seen the construction of 300 iBike


rental stations, 600 kilometers of bicycle trails, as well as 9,000 iBikes that have now been put out for rental and can be found in all 29 of Taichung's districts. The city's currently-planned iBike 2.0 "doubling" project calls for an increase in rental stations, which are conveniently located near public transportation, to 600, and expansion of the city's bike trails to a total length of 1,000km. In conjunction with "Mr. B&B" (Metro, Rail, Bus, Bike), the project will give Taichung the final mile of its composite transportation system.

TCG is committed to creating an all-round bicycle-friendly environment accommodating both industry and individuals, and hopes to foster enthusiasm for cycling. In conjunction with the 2018 Taiwan Cycling Festival, the city government held the "2018 OK Taiwan: Taichung Bicycle Carnival" artist series, which involved a 100-kilometer route starting out at the city

government plaza and including such well-known attractions as the Taichung National Opera Hall, Bicycle Stadium, and Gaomei Wetlands. The city hopes that enthusiastic cyclists from around the world will appreciate Taichung's beauty. In addition, TCG will hold a cycle tour of Taichung starting from Taichung Civic Square on October 1, the first-ever "2018 Taiwan Excellence Award: Bike Day" at Taichung City Park on October 21, and a 100km bicycle challenge activity and Wheels Ride Festival starting at the city government plaza on November 26. The city government urges everyone to take advantage of these activities linking the cycle industry, fitness, and recreation, and welcomes everybody to come cycling in Taichung and enjoy leisurely-paced low-carbon bicycle travel.

The city government also hopes to combine bicycles' spirit of sustainability and zero energy consumption and zero pollution

with the 2018 Taichung World Flora Exposition. The Exposition, which will kick off on November 3 this year, will have a theme of "GNP-Rediscover Green, Nature and People," which will give GNP a new definition, and give the world an all-new outlook based on harmony between a green lifestyle, coexistence with Nature, and a humane attitude. The core values of this people-friendly GNP concept are perfectly aligned with those of bicycles—a green, environmentally-friendly form of transportation. The city also welcomes domestic and foreign firms seeking to engage in negotiations with cycle industry companies to take the time to visit the Waipu, Houli, and Fengyuan World Flora Exposition venues, and listen to the sound of flowers.

Finally Mayor Lin wishes all participants a very successful 2018 Taichung Bike Week and looks forward to a thriving bicycle industry. 

TBW: On the Industry's Doorstep

Taichung Bike Week (TBW) has experienced a very rapid rise since its inception over a decade ago, and it has become the primary international show for bike industry vendors to introduce their latest OE products to buyers and product managers from around the globe. The rapid rise of TBW speaks volumes to the unique format of the event. There is no other B2B show that offers the same amount of efficiency, the same level of business opportunities or the cost-efficiency of TBW.

However, TBW's rapid growth could not continue forever, and this year marks the first in which the event has experienced a decrease in the number of exhibitor booths. This week, 353 manufacturers will occupy 430 booths in Taichung's Evergreen, Splendor and Tempus hotels. 96 companies are located in 106 booths at the Evergreen Hotel, 194 companies are displaying in 242 booths in the Splendor Hotel, and 63 companies occupy 82 booths at the Tempus Hotel.

Apart from the fact that it was impossible for TBW's double digit to go on indefinitely, a major reason for the downturn in booth registration is due to the conflicting dates with Taipei Cycle Show. This year marks the first time that Taipei International Cycle show will be held in October instead of March, and many exhibitors have found they don't have the manpower or budget to allow for exhibiting at two side-by-side shows in Taiwan. Another major change to TBW is that this year there will be no separate Ride On event held at The Millennium Hotel Taichung. Instead, some previous members of the group will be exhibiting in the Splendor



and Evergreen hotels.

Despite this year's slightly reduced exhibitor numbers we are confident that TBW still has a very healthy future. The show is held in Taichung at this time of year for a very good reason— Everything is here on the industry's doorstep. The vast majority of the Taiwanese bike industry have facilities nearby. There is no other location, apart from Taichung, where visitors are never more than a 40-minute-drive from 85% of the bicycle industry in Taiwan. The format, cost efficiency, timing and location of TBW tick all the boxes that the industry—both vendors and buyers, need.

Taichung Bike Week receives a lot of support from Taichung City Government, and the organizers would like to thank Mayor Lin and other city government officials for



their continued commitment and support. In addition to providing TBW information service booths in each hotel, Taichung City Government are also hosting a buffet-style Welcome Dinner. This Welcome Dinner will be held at The Landis Taichung on the evening of September 26.

Finally, we, the TBW Team, would like to welcome all visitors and exhibitors to this year's event and we wish all buyers and vendors participating in the 2018 Taichung Bike Week a successful show and very prosperous year. 🌟WG



EB03-16T-D3
EB03-18T-D3



EB04-16T-D3
EB04-18T-D3

E-BIKE CRANK



EB03-D3-R-ISIS
EB03-L-ISIS

LENGTH: 165, 170, 172.5, 175MM
FINISH: BLACK SAND POWDER COAT
WEIGHT: 495G (PAIR)



EB04-D3-R-ISIS
EB04-L-ISIS

LENGTH: 165, 170MM
FINISH: BLACK SAND POWDER COAT
WEIGHT: 486G (PAIR)



STEEL CHAINRING

FD07-16T
FD07-18T
CHAINRING MATERIAL: STEEL
CHAINRING: BED



EB03-238A-S1-1
EB04-238A-S1-1



SPIDER

SPIDER: S1-1 (13T)
MOUNTING INTERFACE: 13T
MATERIAL: AL-6061-T6
FINISH: BLACK SAND ANO.
BCD: 104MM



E-BIKE CRANK

EB03-R-BNI
EB03-L-BNI

LENGTH: 165, 170, 172.5, 175MM
FINISH: BLACK SAND POWDER COAT
WEIGHT: 490G (PAIR)

EB04-R-BNI
EB04-L-BNI

LENGTH: 165, 170MM
FINISH: BLACK SAND POWDER COAT
WEIGHT: 496G (PAIR)



STEEL CHAINRING

PRO-38T-1
CHAINRING MATERIAL: STEEL
CHAINRING FINISH: BED
BCD: 104MM



CHAINGUARD

AG62
CHAINGUARD MATERIAL: ALLOY
CHAINGUARD FINISH: BLACK SAND ANO.
FOR CHAINRING: 38T
BCD: 104MM



SPINDLE BOLT

CRMO M10
WEIGHT: CRMO: 45G (PAIR)



EB05-NW38A-S7



CHAINGUARD

AG64
CHAINGUARD MATERIAL: ALLOY
CHAINGUARD FINISH: BLACK SAND ANO.
FOR CHAINRING: 38T
BCD: 104MM



E-BIKE CRANK

EB05-R-ISIS
EB05-L-ISIS

LENGTH: 165, 170MM
FINISH: BLACK SAND POWDER COAT
WEIGHT: 500G (PAIR)



NARROW WIDE TEETH

FD04-38T-NW
CHAINRING MATERIAL: STEEL
CHAINRING FINISH: BED
BCD: 104MM



SPIDER

SPIDER: S7 (8T)
MOUNTING INTERFACE: 8T
MATERIAL: AL-6061-T6
FINISH: BLACK SAND ANO.
BCD: 104MM

Taiwan Bike Exports Bouncing Back

Figures released by Taiwan Bicycle Association (TBA), show that Taiwan's bicycle exports in the first half of 2018 are continuing the transformation from traditional non-power assisted bicycles to e-bikes. In terms of total value e-bikes now represent 26% of all Taiwanese bicycle exports.

In the first half of 2018, a total of 1,203,492 bicycles and e-bikes were exported from Taiwan. Although this was

slightly down—by 2.75%, from the same period last year, the total value of these bicycle and e-bike exports jumped by 26% to US\$852,239,431.

While the total number of traditional bicycles exported fell by 6.91% to 1,067,103 units, the quantity of e-bikes exported increased by nearly 50% compared to the same period in the previous year. Both traditional and electric assist bicycle exports increased

dramatically in terms of average unit value in the first six months of 2018. Traditional bikes had an average unit value of \$618.89—up 27.36%, while e-bikes had a average unit value of \$1,406.40—up 9.31%. In terms of total export value,

\$660,422,069 of traditional bicycles were exported from Taiwan in the first half of 2018—up a healthy 18.57%, while total e-bike exports were valued at US \$191,817,362—up a huge 63.42% from the same period in 2017.

Taiwan bicycle and e-bike exports from Jan~Jun 2018 (by quantity)

	2,018	2,017	Change
Bicycles	1,067,103	1,146,279	-6.91%
E-Bikes	136,389	91,227	49.51%
Total	1,203,492	1,237,506	-2.75%

Taiwan bicycle and e-bike exports from Jan~Jun 2018 (by value)

	2018	2017	Change
Bicycles	\$660,422,069	\$557,007,286	18.57%
E-Bikes	\$191,817,362	\$117,375,623	63.42%
Total	\$852,239,431	\$674,382,909	26.37%

Taiwan bicycle and e-bike exports from Jan~Jun 2018 (by average unit value)

	2018	2017	Change
Bicycles	\$618.89	\$485.93	27.36%
E-Bikes	\$1,406.40	\$1,286.63	9.31%
Total	\$2,025.29	\$1,772.56	14.26%

Source: The Bureau of Foreign Trade, MOEA and TBA

Europe

Once again, the EU was Taiwan's biggest export destination for complete bicycles. Although the number of traditional bicycles exported to the EU dropped by over 18% to 547,560 units, the total value of exported traditional bicycles rose to US\$ 257,102,073—up over 11% from the first half of 2017.

In terms of quantity, The Netherlands, UK, Sweden, Germany and Belgium were the top five export destination countries within the EU in the first half of the year. Of these, only the export quantity to the Netherlands saw an increase compared to the same period last year. Exports to the other four countries all fell, with exports to the UK and Germany

dropping sharply by over 37% and 36% respectively.

According to TBA's statistics, The Netherlands, UK, Belgium, Germany and Spain were the top five export destinations in total value of traditional bicycles exported from Taiwan between January and June 2018. By far the largest of these was the Netherlands with a total value of

\$98,865,877—up by over 47% from the \$66,810,496 total value of traditional bikes exported there from Taiwan in the first half of last year. The total export value of non power-assisted bicycles from Taiwan to Spain also increased dramatically by over 49%.

Top 10 EU destination countries for Taiwan traditional bicycles from Jan~Jun 2018 (by quantity)

	2018	2017	% Change
Netherlands	120,634	106,324	13.46%
UK	103,957	167,142	-37.80%
Sweden	80,786	81,981	-1.46%
Germany	57,710	91,572	-36.98%
Belgium	28,891	29,798	-3.04%
Denmark	26,309	32,517	-19.09%
Spain	23,884	19,203	24.38%
Poland	22,280	23,790	-6.35%
Czech Republic	20,555	8,264	148.73%
Italy	19,369	52,621	-63.19%
Total EU 28	547,560	672,413	-18.57%

Top 10 EU destination countries for Taiwan traditional bicycles from Jan~Jun 2018 (by value)

	2018	2017	% Change
Netherlands	\$98,865,877	\$66,810,496	47.98%
UK	\$51,058,097	\$52,930,402	-3.54%
Sweden	\$12,742,059	\$13,226,959	-3.67%
Germany	\$23,687,071	\$21,713,707	9.09%
Belgium	\$23,924,582	\$26,421,893	-9.45%
Denmark	\$4,332,267	\$6,248,274	-30.66%
Spain	\$13,523,598	\$9,059,579	49.27%
Poland	\$3,250,030	\$3,816,334	-14.84%
Czech Republic	\$4,485,764	\$2,247,829	99.56%
Italy	\$8,528,629	\$11,360,294	-24.93%
Total EU 28	\$257,102,073	\$230,773,273	11.41%

Top 10 EU destination countries for Taiwan traditional bicycles from Jan-Jun 2018 (by average unit value)

	2018	2017	% Change
Netherlands	\$819.55	\$628.37	30.43%
UK	\$491.15	\$316.68	55.09%
Sweden	\$157.73	\$161.34	-2.24%
Germany	\$410.45	\$237.12	73.10%
Belgium	\$828.10	\$886.70	-6.61%
Denmark	\$164.67	\$192.15	-14.30%
Spain	\$566.22	\$471.78	20.02%
Poland	\$145.87	\$160.42	-9.07%
Czech Republic	\$218.23	\$272.00	-19.77%
Italy	\$440.32	\$215.89	103.96%
Total EU 28	\$469.54	\$343.20	36.81%

Source: The Bureau of Foreign Trade, MOEA and TBA

Other markets

According to the data provided by TBA, once again, the USA was the largest single export destination country for Taiwanese non power-assisted bicycles. During the first half of the year 250,785 complete traditional bicycles were exported to the US—more than double any other single country. This represents a healthy 13.70% rise from the 220,573 units exported there during the same period last year. In terms of total value, Taiwan exported \$212,976,306 of traditional bicycles to the US in the period—an increase of over 32% from the disappointing total value of \$160,439,490 in the first six months of last year.

Furthermore, Donald Trump's aggressive trade dispute with China will start affecting the bike industry significantly in the second half of the year. Earlier this month, the Trump administration approved an additional tariff duty on most bicycle related imports from China. The tariffs were set at preliminary 10% and took effect from September 24, however the duty will increase to 25% from January 1, 2019. The duty will have a large effect on the US bicycle import situation.

Taiwan also saw large increases in the quantity and/or the total value of traditional bicycles exported to Japan, Norway, Australia and Canada from January to June of 2018.

Top 5 non-EU destination countries for Taiwan traditional bicycles from Jan-Jun 2018 (by quantity)

	2018	2017	% Change
USA	250,785	220,573	13.70%
Canada	28,716	27,426	4.70%
Norway	40,449	27,458	47.31%
Japan	64,182	52,908	21.31%
Australia	25,849	25,674	0.68%

Top 5 non-EU destination countries for Taiwan traditional bicycles from Jan-Jun 2018 (by value)

	2018	2017	% Change
USA	\$212,976,306	\$160,439,490	32.75%
Canada	\$26,497,840	\$21,367,026	24.01%
Norway	\$14,627,889	\$12,031,035	21.58%
Japan	\$32,615,657	\$23,810,744	36.98%
Australia	\$25,903,681	\$23,511,582	10.17%



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Top 5 non-EU destination countries for Taiwan traditional bicycles from Jan-Jun 2018 (by average unit value)

	2018	2017	% Change
USA	\$849.24	\$727.38	16.75%
Canada	\$922.76	\$779.08	18.44%
Norway	\$361.64	\$438.16	-17.46%
Japan	\$508.17	\$450.04	12.92%
Australia	\$1,002.12	\$915.77	9.43%


Source: The Bureau of Foreign Trade, MOEA and TBA

E-bikes

Power-assisted bicycles accounted for a large proportion of the value of Taiwan's bicycle exports. During the first half of 2018 over 20% of the value of all bicycles exported from the island were e-bikes. A total quantity of 136,389 units were exported around the world, a rise of over 49% from the first six months of 2017. With an average value of US\$1,406.40, the total value of these e-bike exports was \$191,817,362—a rise of over 63% from the total value of \$117,375,623 exported during the same period in 2017.

Although the country receiving both the largest quantity and highest total value

of e-bikes was the Netherlands with 35,956 units exported there from Taiwan worth a total value of US\$49,676,042, the most significant change compared to the first half of 2017 was in exports to the USA. E-bike exports to the US rose by a whopping 143% to 28,744 units in quantity, and an even more staggering 157% to US \$42,424,390 in terms of total value.

While exports to Germany dropped in both value and quantity during the first six months of the year, e-bike exports to nearly all other markets around the world increased significantly.  **WG**

Taiwan e-bike exports from Jan-Jun 2018 (by quantity)

	2018	2017	% Change
Netherlands	35,956	24,345	47.69%
USA	28,744	11,799	143.61%
Germany	22,308	26,360	-15.37%
Italy	8,060	4,728	70.47%
UK	6,582	4,254	54.72%
Total	136,389	91,227	49.51%

Taiwan e-bike exports from Jan-Jun 2018 (by value)

	2018	2017	% Change
Netherlands	\$49,676,042	\$24,418,619	103.44%
USA	\$42,424,390	\$16,459,700	157.75%
Germany	\$25,657,696	\$38,824,573	-33.91%
Italy	\$14,772,823	\$7,705,014	91.73%
UK	\$6,847,314	\$5,116,825	33.82%
Total	\$191,817,362	\$117,375,623	63.42%

Taiwan e-bike exports from Jan-Jun 2018 (by average unit value)

	2018	2017	% Change
Netherlands	\$1,381.58	\$1,003.02	37.74%
USA	\$1,475.94	\$1,395.01	5.80%
Germany	\$1,150.16	\$1,472.86	-21.91%
Italy	\$1,832.86	\$1,629.66	12.47%
UK	\$1,040.31	\$1,202.83	-13.51%
Total	\$1,406.40	\$1,286.63	9.31%

Source: The Bureau of Foreign Trade, MOEA and TBA

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 - Sep.29th (Sat.) Round the lake wide game ride (30Km)
- 11/17(六) 日月潭潭南部落挑戰50K/兒童滑步車趣味賽
 - Nov.17th (Sat.)
 - Sun Moon Lake Tannan Village Challenge Ride (50Km)
 - Children pushbike competition
- 11/18 (日) 自行車道逍遙遊10K/環潭挑戰遊30K
 - Nov.18th (Sun.)
 - Round the Lake Challenge Ride (30Km)
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Sun Moon Lake Come! Bikeday

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Alex: The Materials Experts

Established in 1992, under the leadership of President Alex Chen, Alex has specialized in the R&D of rim technology, design, materials, and production. It has developed its own integrated production processes, and as a result become the world's bicycle wheel manufacturing leader, and can be considered one of Taiwan's hidden champions.

Building a Vietnam plant

According to Alex Sales Manager, Penny Tseng, Alex currently has three production sites worldwide, and these are located in Tainan, Taiwan; Taicang, China, and Cambodia. The Taiwan plant chiefly produces bicycle rims, hubs, wheelsets, and aluminum extrusion products, and 70-80% of its output is supplied to the European market. This plant produces aluminum alloy and carbon fiber rims, and recently introduced the Bear Pawls high-end hub brand. Apart from parts, Alex Taiwan also supplies extruded products including aluminum tubing and aluminum rods to the bicycle industry. The Taicang plant chiefly produces rims and wheelsets, all of which are made from aluminum alloy. This plant also makes extruded tubing elements and hydraulic forming for supply to frame plants, and also offers customization services; 70% of the plant's output is supplied to the US market. The Cambodian plant mainly produces aluminum alloy rims and carbon fiber rims and wheelsets, which are chiefly supplied to the European and North American markets.

Alex's fourth production site, which will be located in Vietnam, is currently under construction, and is expected

to formally go into production in the third quarter of 2019. This plant will have the same size and operating model as the Taiwan plant, and will also adopt integrated production processes. In order to better meet customers' needs, the plant will have an anodization department, and will chiefly produce aluminum alloy rims and extruded tubing and hydraulic forming after it goes into operation.

The raw materials expert

According to Alex GM, Sally Hsieh, Alex's decision to establish a plant in Vietnam was chiefly motivated by a wish to disperse risk, diversify development, and benefit from the future establishment of the TPP. Because Alex's products are relatively bulky and must often be supplied quickly, the new plant will help meet the needs of nearby customers. Alex is also contemplating the establishment of a plant in the EU in order to expand the company's global footprint and get closer to its markets.

Alex takes great pride in its raw materials R&D and expertise, and is also developing its own advanced production equipment in-house. Alex's professional R&D personnel are able to develop a wide variety of products meeting specific customer needs. And since the company is involved in such steps as import of raw materials, smelting, aluminum extrusion, and production of finished products, it has a high degree of self-content, which allows it to maintain high quality standards and provide its customers with peace of mind.



▲ Alex Chen, Sally Hsieh, and Penny Tseng have boldly accepted new challenges as they face changing markets.

When Alex began the process of transformation five years ago, it first developed carbon fiber rims in order to broaden its product line and respond to the maturing of the alloy rim market. Alex also applied for patents to protect the hard-won intellectual property resulting from its research and development. Secondly, it also integrated related products, and began producing high-precision hubs in an effort to become Taiwan's leader in these products.


New 2019 products

The ALX935D is Alex's newest series of high-end carbon fiber wheelsets for road bikes, employs a wide wheel diameter design. The wheels have inner and outer diameters of 19mm and 25.3mm, which ensures even better tire form. Apart from providing sufficient stiffness to transmit force, the U-shaped rim profile with a height of 35mm, also provides excellent aerodynamic



▲ ALX935D carbon fiber road bike wheels.

characteristics, and minimizes the effect of crosswinds. Each wheel has a weight of 1,650g, Alex's rims are the product of advanced technology and extensive experience, and allow cyclists to enjoy superb cross-country performance. The Recon 3.0 MTB wheels provide uncompromising design performance at reasonable prices, and can meet the needs of unfavorable riding conditions. The wheels employ carbon fiber rims, straight-pull spokes, and the company's own Bear Pawls hubs. Design advantages include easy maintenance without tools, lightweight structure, and long-term durability. The wheels can be used for Enduro and All Mountain riding styles, and are tubeless ready; 27.5" and 29" specifications are available, and the wheels weigh 1,604g and 1,706g.

Alex's well-seasoned engineers are constantly striving to develop high-quality, high-performance hubs with innovative designs. The company's BEB-004 "Bear Pawls" hubs are designed specifically for use on e-bikes; they are able to withstand large forces and large instantaneous torque, and employ steel ratchet seats and relatively high hub blades, which permits a wider spoke angle and greater sturdiness. The hubs' four sealed bearings disperse internal forces and maintain high rolling efficiency. The black anodized surfaces of the hubs bear delicate laser-etched images that often attract the stares of passers-by. 



▲ Recon 3.0 carbon fiber MTB wheels are suitable for Enduro and All Mountain bikes, and are compatible with Tubeless Ready requirements.



▲ BEB-004 Bear Pawls hubs are designed exclusively for e-bikes.

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Taichung Bike Week
Room #318

Rotor's 1x13 Revolution

At this year's Eurobike, Portuguese component manufacturer, Rotor, launched a new volley in the groupset arms race with the introduction of a single-ring 1x13 drive-train.

69-year history

Although initially for early adopters, the introduction of single ring drivetrains has proven practical and successful for MTB riders and has now become the standard for elite and everyday riders. However, the 1x drivetrain is not currently considered an alternative to existing groupset systems for non-MTB disciplines because of the greater steps between gearshifts and the limited gear range. However, Rotor believe that their 1x13 platform is a real alternative in both range and gear steps to the traditional 2x11 drivetrains found on road, gravel and cyclocross bikes.

2x11 = 14

To give credence to their beliefs, Rotor explain their thinking behind gear ratios and why 2x11 doesn't mean 22 gears:

Although the traditional 2x11 groupset has 22 theoretical gears, cyclists don't really shift between front rings as they are changing up or down through their cassette range at the rear, and therefore they don't take advantage of every gear option available. In actuality, riders use the outer ring and upshift sprockets until a certain point, then shift down to the inner ring for optimal cadence. Due to this overlap of chainring and sprocket combinations, the rider's effective gear range is 14-speeds.


Advantages of 1x13

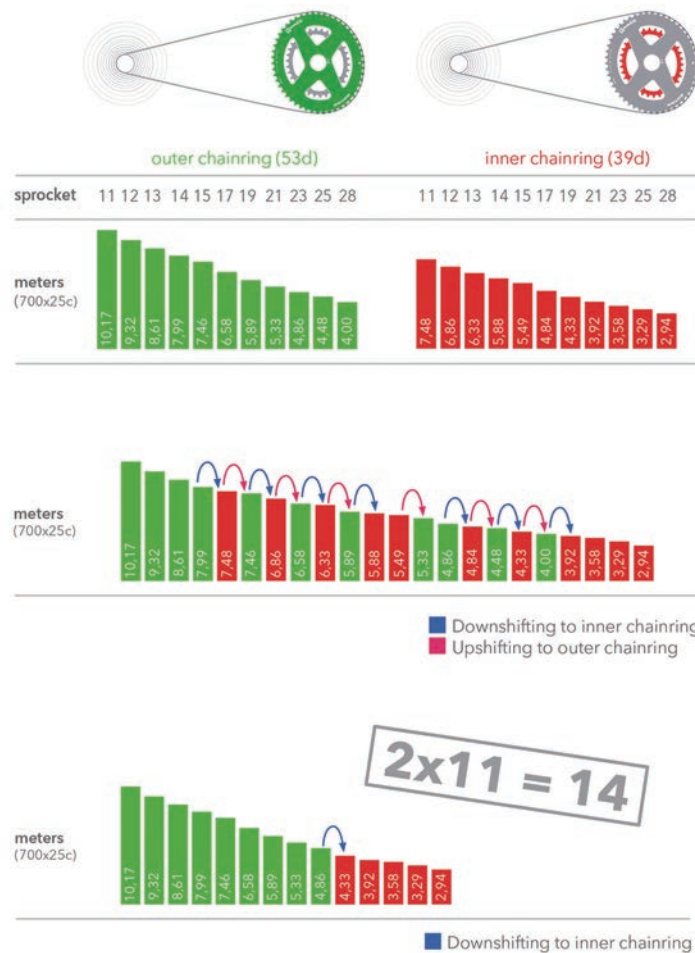
The use of a 1x13 drivetrain offers cyclist some benefits, including being able to bypass the traditionally challenging front derailleur shift on 2x drivetrains, and allowing riders to focus on fluid rear shifting with reduced chance of chain loss or chain suck. Additionally, a simplified 1x chainring without front derailleur means reduced weight and mechanical complexity with improved aerodynamics. Furthermore, in comparison to existing 1x12 MTB systems, Rotor's 1x13 system offers a larger gear

range and more gear choices.

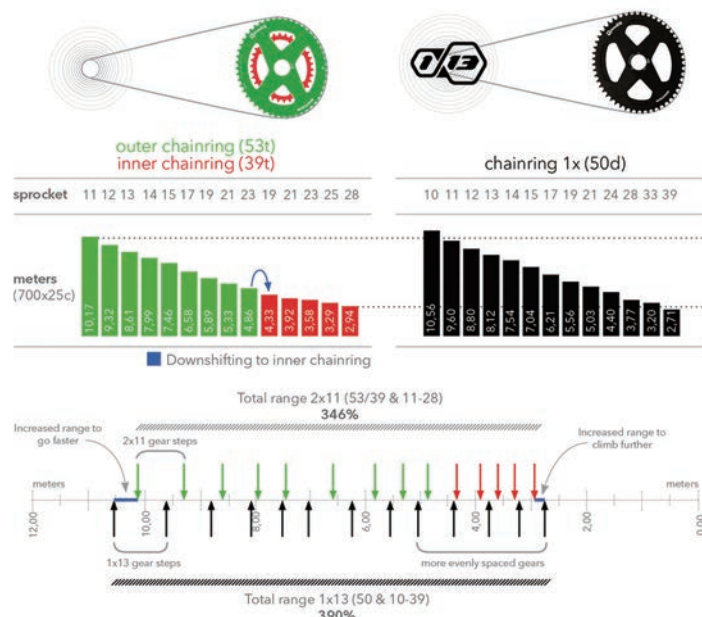
Rotor provides four different cassettes sizes to accommodate different spectrums of riders. For road riding the company offers a 10-36 cassette, as well as one with slightly wider 10-39 ratio. Then there's a 10-46 which can be used for gravel or mountain

biking, and finally, the widest range 10-52 cassette for off-road bikes.

Additionally, the spacing and size of the cogs is the same as a 12-speed cassette, so the 1x13 cassette can use a 12-speed chain such as KMC's X12. 



▲ Rotor's believes its new 1x13 cassettes will be suitable for both road and off-road bikes.



Taiwan KT's Cutting-Edge New Products

Taiwan KT, which is constantly committed to the innovation and development of hubs, have launched new products for the 2019 market, including a hub for one-piece wheels and an e-bike hub. The products are at the cutting edge of the market, and many design patents have been applied for.

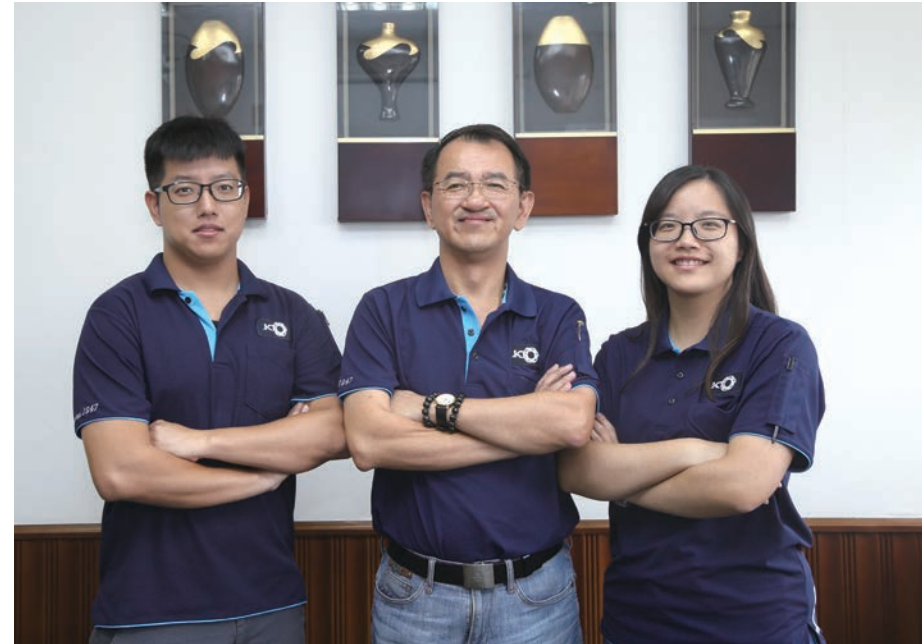
One-Piece Wheel hub

KT's patented One-Piece Wheel hub, features a revolutionary innovation in hub technology. Working with KT's Inter-Gear 3-speed hub or dynamo hub, installation is seamless, tool-free and takes just moments to ensure a connection that is 10 times stronger than ever before. Simply insert the hub into the wheel, then fasten the lock ring to ensure a secure fit.

The hub can be used with one-piece wheels, which saves the maintenance of spokes, reduces costs, and requires no calibration during assembly. It is very convenient and time-saving, so it is suitable for shared bicycles or public bicycles. The front hub dynamo has a weight of 598 grams and the rear hub has a weight of 1,070 grams.

Press-fit ratchet ring for e-bikes

The high torque, press-fit ratchet ring is designed for e-bikes and features 4 pawls and v-springs. A Cr-Mo Anti-Bite press-fit plate prevents free wheel bite. It is cold-forged and has been treated with a hardening process to make it extremely rigid. Additionally, a Pawl housing cover ensures that the pawls are not



▲ From left : Assistant of General Manager, Alex Chen; President, Hubert Chen and Assistant General Manager, Natalie Chen.

displaced, allowing the force of the bite to be in the same vertical line. Patents have been applied for on the design of these special features.

If the traditional hub designs are used in e-bikes, they may quickly become

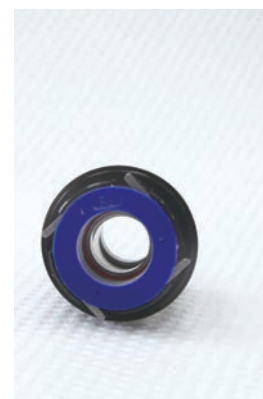
damaged due to insufficient rigidity. KT's ratchet ring has excellent durability and has been on the market for three years, during which time no customers have reported any problems with damage. **WIG**



▲ The press-fit ratchet ring is used for better durability.



▲ The One-Piece Wheel hub, can be used with dynamo hubs on the front wheel. The Inter-Gear 3-speed hub specification can be selected at the back.



▲ Pawl housing cover.



▲ The Anti-Bite plate is cold-forged from Cr-Mo steel and undergoes a hardening treatment.

Bafang's Latest Drive Systems

Bafang, one of Asia's leading manufacturers of e-mobility components and complete e-drive systems, has been developing components and complete systems for electric vehicles for 15 years. The company focuses on all global e-mobility trends of the future: be it as an individual e-bike, e-scooter or for public bike sharing schemes. At this year's TBW, Bafang will be displaying its latest drive systems.

M800 mini mid drive system for e-road bikes

The emergence of new categories, such as gravel bikes which are ridden at lower speeds and over hillier terrain, coupled with a growing older population road bikers has led Bafang to develop the new motor—M800 mini mid drive system for e-road, e-gravel and e-cyclocross bikes.

Bafang believe that the form factor of this new mini-size motor creates new and significant design opportunities for bike brands across the globe who are developing 'e-road racing style' bikes, including gravel and cyclocross concepts. One of the key advantages of the new drive unit is its low weight, at less than 2.3 kg, but with a 200 W rated output power and a max torque of 55 Nm. The electronics and 200 Wh inTube battery add just 2 kg more. This takes the total system weight to less than 4.4 kg, including display and remote shifters.

Functionality is key, paired with quiet and smooth operation controlled by dual torque and speed sensors. The motor offers single and double chainring compatibility (chain wheel size 44T or 34/50T), and while it can easily be set to the

EU legal limit of 25 km/h, with its maximum speed of 45 km/h the system is also capable of use on speed pedelecs. The pedaling assist level can be set in five steps controlled by 1 or 2 satellite shifter pods, which can be individually placed on the drop handlebar. The 2.2 inch TFT color display offers up to 10 settings.

Since an e-road bike will very quickly exceed the 25 km/h (EU) legal motor assist speed threshold, the drive has been tuned to perform optimally when starting off and accelerating, as well as on short sprints and steep climbs. For the US and other regions, the speed limit can be set at 32 km/h or 45 km/h instead. But, whatever the exact limit, most important is that when the limit is reached, the drive train unit runs almost resistance free. Thus the rider's own pedaling effort above the limit speed is not affected. This will typically be when riders are pedaling in the upper 20s to mid-30s km/h speed range.

The battery pack, with a capacity of 200 Wh, might at first sound a bit on the small side. But because battery capacity is used only on ascents and when starting/accelerating within the speed limit, this battery capacity

will be more than sufficient even for longer trips (50 to 150 km or more).

This development is also a clear indication of the design approach which Bafang and the e-road bike industry are taking for e-road bikes: the motor's assistance is intended only for longer or steeper climbs, and less for continuous assistance in 'normal' riding conditions. Bafang sees a growing number of performance-oriented consumers, and therefore also manufacturers, who will appreciate these advantages, especially for the fast-growing categories of gravel and cyclocross bikes.

Bafang M420

The well-established M400 (formerly Max Drive) system has been given a facelift and introduced as the M420, offering new options for modern-styled urban and trekking bikes. The clean, compact drive system for modern city and trekking bicycles uses the same frame mounting interface, comes with a rated power of 250 W, the same powerful 80 Nm performance and a EU-legal speed limit of 25 km/h. Compatible with the 450 Wh InTube or various rack type



▲ Bafang M420 drive system

▲ Bafang's M800 mini drive system for road and gravel bikes

▲ Bafang M-Series: M500 & M600

batteries, and with a number of new displays (with Bluetooth and USB-out functionality), designers have ample opportunity to create contemporary looking city and trekking bikes.

Bafang M-Series: M500 & M600

Last year Bafang introduced a platform of three mid motors to cover the full range of global speed and wattage restrictions. The M500 system is rated at 250W, while the M600 can have either 350 or 500W motors. These motors offer peak torque values of 95 Nm (M500) to 120 Nm (M600).

The complete range is now available for OEMs to test and specify, including versions which are EU compliant for 25 km/h (Pedelec) and 45 km/h (S-Pedelec), plus USA versions for limits of 20 mph to 28 mph.

With industry-leading system weights of less than 3.0 kg and 3.4 kg, ISIS drive BBs, customization of motor covers and alloy bash guards, and potential for private labelling, Bafang can set new standards for global e-drive manufacturers.


 WG

DDK Present Memory Gel Saddle

Memory Gel is DDK's new concept in saddles that brings together the extra comfort of the well-known DDK Memory Foam with the new eco-friendly Physis Gel. The company claims the result is by far the most comfy and green saddle you have ever tried.

The new DDK Physis Gel is a lightweight, recyclable and eco-friendly material used in its Tubes System Design. With aeration channels to eliminate moisture and sustain the pressure from the rider's hips, the design improves rider comfort, while the

elastic function of the seat reduces drag. Designed to perfectly fit to human hips, this system improves comfort levels for a longer and pain-free ride.

DDK's Memory Foam is a guarantee of comfort: the pressure-relieving benefits of this material prevent pressure sores and minimize pain in sensitive areas. The Memory Foam is not only extremely light-weight, but also durable. 



▲Central pressure point with PHYSIS gel Tubes System Design minimize the pain for a pain-free ride.

WHAT'S INSIDE?



DDK COVER

PHYSIS GEL®

MEMORY FOAM

SUPPORT FOAM



▲PHYSIS gel Tubes System Design on seat bones to guarantee comfort and longer rides.



We Embrace Innovation and Keep Moving Forward.



LIME BOOM



HOLO BLACK



RACING RED



Drive Unit : BOSCH Gen 2
Battery : BOSCH PowerTube 500

ALTERNATIVE OPTIONS IN ALUMINUM VERSION AND SYSTEM



Drive Unit : SHIMANO E8000 / E7000
Battery : DARFON E4COC

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 strength and extreme 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.




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TranzX' Mid-Motor Trendsetter

Based on the recognition that more and more young cycling enthusiasts are discovering the advantages and joy of e-bikes, TranzX has launched a range of price-sensitive trendy e-bikes to provide both fun and mobility for younger, design-conscious buyers.

Last year, TranzX first unveiled its Mavis F15 e-bike touting a front motor and an attractive roadster design optimized for urban commutes. Emphasizing highly interconnected features, and coming with a user-friendly DP29 BLE-enabled smart display, the bike won on IF Design Award 2018. This year TranzX will be presenting its latest version—the Mavis M16 model.

The new e-bike features the same stylish looks as the F15, but is built to meet market demand for increasingly popular mid drive motors. The Mavis M16 is powered by TranzX' M16, a mid motor that has long been acclaimed for its reliability, and it also features the same specific battery installation that can be found on the Mavis F15.  WG



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Vietnam's Growing Attraction

Vietnam has become a top overseas investment location for Taiwan's bicycle industry due to its advantages for exports to Europe. In recent years, numerous companies in the industry have continued to buy land and build plants in Vietnam. Even China's largest assembly plant is establishing a factory in Vietnam's Binh Duong Province and plans to begin assembly of e-bikes by the end of the year.

Vietnam is a socialist country with political and social stability. It has a total population of 92 million, of which Buddhists account for 50%. Vietnam's economic growth rate was 6.21% in 2016, and its citizen's average income was US\$2,215. Vietnam's capital is Hanoi, which has a population of approximately 7 million, and is the seat of the central government. Ho Chi Minh City is the largest city in southern Vietnam, and has a population of roughly 8 million; Ho Chi Minh City is currently building a metro system.

The FTA advantage

Vietnam is the ASEAN member that has signed the most free trade agreements (FTAs) with other countries, and has currently signed bilateral trade agreements

with over 40 countries, including China, Japan, Korea, and the Eurasian Economic Union, etc. Since these agreements provide preferential exemption from tariffs, they have encouraged Vietnam to boldly pursue economic deregulation. Vietnam has also signed an FTA with the EU, but it has not yet taken effect. Vietnam is currently negotiating the Regional Comprehensive Economic Partnership (RCEP) with the ASEAN states and China, Japan, South Korea, Australia, New Zealand, and India and a free trade agreement with the European Free Trade Association (EFTA), which includes Switzerland, Norway, Iceland, and Liechtenstein.



Taiwanese firms in Vietnam

Taiwanese firms have chiefly invested in southern Vietnam, including in Ha Tinh Province, Binh Duong Province, Dong Nai Province, and Ho Chi Minh City, and have already established complete industry supply chains in such

labor-intensive industries as shoemaking, weaving, bicycles, motorcycles, and wooden furniture. Many people in the Taiwanese bicycle industry have noted that while the advantages of manufacturing in Vietnam include inexpensive, young labor, and inexpensive land; most raw materials need to be imported, and are



▲ HL Corp President, Jim Liao said that the company's Vietnam plant has started trial production of aluminum alloy forks. He also noted that local steel is more expensive and imports must be relied upon.



▲ VP Components President, Victor Lin pointed out that with the drastic changes in the market and production environment, companies must keep pace with the times and make significant adjustments.



▲ Sun Rise Vietnam Factory is located in Hoi An and has been in operation for 4 or 5 years. The picture shows Associate Manager, Tsai Bing Yen.

more expensive in China. For instance, HL CEO Jim Liao noted that Vietnam provides opportunities, but raw materials are a major bottleneck.

Management problems

The chief management challenges in Vietnam include a lack of knowledge of the language, strikes, employee management, lack of technicians and skilled workers, and low loyalty. To manage Vietnamese employees, it is therefore necessary to blend in, perform localization, interact socially with local people, and promote local people to serve as staff.

Economic special zone legislation

Because it allows foreign investors to lease Vietnamese land for 99 years under preferential terms, the new investment bill passed by the Vietnamese government last year has induced a wave of protests. According to current Vietnamese law, foreign firms investing in Vietnam ordinarily may only lease land for 50 years; this may be extended in special circumstances, but may not exceed a maximum of 70 years. According to members of the public protesting the new

policy, foreign investors will have excessively long right to land in special economic zones, which may have a harmful impact on national sovereignty, politics, and immigration management.

Establishing a Taiwan industrial park

Seeing the promise of investment in Vietnam, DDK and three Taiwanese firms have jointly initiated an 80-hectare Taiwan industrial park development project in Binh Duong Province, and held a groundbreaking ceremony on November 25 of last year. According to DDK president Tsai Wen Jui, the park has currently reached 80% occupancy. Because the park has brought together the experience and capabilities of Taiwanese firms in Vietnam, Tsai expects that it will entice even more companies from Taiwan and China to invest in Vietnam and establish plants within the next two or three years.

Hanoi to ban motorcycles by 2030

Vietnam is second only to Thailand in terms of number of motorcycles per capita. In order to ease traffic congestion and reduce air pollution, the



▲ French company, Decathlon also has an office in Vietnam responsible for purchasing. In the middle is Purchasing Director, Didier Morelle.

Vietnamese government announced last year that would ban motorcycles in the capital city of Hanoi by 2030. Hanoi has a population of 7 million and contains 5 million motorcycles. Motorcycles have become a leading means of transportation for most families, and it's common to see an entire family riding one motorcycle. It will be by no means easy for the government to eliminate motorcycles

Recent situation of the Taiwanese bicycle industry

Taiwanese bicycle firms in Vietnam are located exclusively in Ho Chi Minh City and nearby provinces, including Binh Duong Province, Dongng Nai

Province, Tây Ninh Province, and Long An Province. Close to 70% of companies are located in Binh Duong Province. Early arrivals in Vietnam included Asama, Alhonga, DDK, Sheang Lih Cycle, Song Tain, Wang Sheng, Branc, Tsai Yarn, Yaban, Astro Eng.Viet, Sonics, Gold Well, Olympic, Shuan Hwa, Vertech, and Shang; relative newcomers include Sun Rise, SR Suntour, A-Pro, Thunder, Standwell, HL-VT (Zoom), Yung Shyang, Astro's new plant, Jiang Ding's new plant (expected completion by the end of the year), A-Forge, Kalloy, and J.D. (expected completion by next spring); Hua Chin has purchased land, Taioku is beginning a pilot operation, and Transart has leased a plant, and expects to



▲Taiwanese bicycle companies in Vietnam are very united, hospitable, and frequently interact with each other. From left: Tsai Yarn Assistant General Manager, Mao Lee; Yaban President, Andy Wang; Alhonga Assistant General Manager, Charlie Shih; DDK President, Richard Tsai; Decathlon Purchasing Director, Didier Morelle; Sunny Wheel President, Tony Hsu; Astro President, Jeff Chang-Liaw and Astro GM, Samuel Hu.

go into production in the near future.

Dongng Nai Province has the next largest concentration of Taiwanese firms, including Kenda, KMC, VP and VIP. Ho Chi Minh City contains Strongman, Co-Union, and Taifa (Cian Fa); only Ideal is located in Long An Province, and it has not yet begun production; Tây Ninh Province has A&J, Link Fortune, and Alex and TTC, which have recently purchased land. Meanwhile, Asama, A&J, Strongman, Alex, and TTC are

currently operating plants in neighboring Cambodia.

Cable guide producer Jagwire, established a plant in the northern city of Hanoi 10 years ago; this plant chiefly produces cable guides for motorcycles. Germany's Schwalbe has also established a plant in Vietnam; this plant went into production in 2015, and chiefly makes bicycle tires and inner tubes. France's Decathlon has opened an office in Vietnam, and purchases many products from the country. 🌐WG



▲ Thong Nhat President, Ruan Yo Shan. Thong Nhat assemble all kinds of bicycles, mainly for domestic use.



▲ In 1994, Strongman set up a factory in Ho Chi Minh city. It also has a factory in Cambodia.

Bicycle Factories in Vietnam

A&J



Astro



Alhonga



A-Pro



Bor-Yueh



Asama



Ebon



DDK



HL-VT



Kenda



臺灣自行車登山王挑戰 Taiwan KOM Challenge

對愛好自行車運動的騎士而言，山是一種精神，騎上山巔是一種自我實現。「臺灣自行車登山王」從花蓮七星潭太平洋濱，經太魯閣高聳深邃的高山峽谷、直達臺灣公路最高點—合歡山武嶺，海拔落差 3275 公尺，全長 105 公里。路程穿越峽谷直抵高山頂端、通過多種不同氣候地帶、歷經曲折蜿蜒的彎道攀登至山頂，是全世界少有的高難度路線。如史詩般令人屏氣凝神的這條路線，每年都吸引眾多國際好手來台參加，能完賽的都是徹底而純粹的英雄！誠心推薦想體驗臺灣與花蓮之美的朋友：這絕對是讓您嘆為觀止、此生必訪的自行車路線！

If you are interested in a daring high-mountain cycling challenge you are welcome to go on a ride that will take you from sea level to an altitude of 3,275 meters. This is a grueling ride, part of which is through the scenic world wonder Taroko Gorge, for true Kings of the Mountains(“KOM”)!

- 10/24 (三) 暖身場-陽明山登山王挑戰
Oct.24th (Wed.) Yangmingshan Cycling Challenge
- 10/26 (五) 臺灣自行車登山王挑戰
Oct.26th (Fri.) Taiwan KOM Challenge

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KMC



VIP



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VP Components



SR Suntour



Wang Sheng



Tsai Yarn



Yaban



Merida 2018 H1 Revenue Grows 28%

Changhua, Taiwan - Merida Group has announced financial results for the first half of 2018 showing that sales revenue increased by 28%. The profit before tax in Q1 was up 5% from the previous year, but this was offset by the new increased corporate income tax. This growth has continued into Q2's on sales and profits. The first half profit was NT\$1.13 billion, up 81% compared with a year earlier. The EPS was NT\$1.84, up 23% from a year ago.

Merida reported that the Chinese domestic market has stayed stagnant in the first half of 2018. Sales to the US and Europe have been good on high end bicycles and e-bikes. The

growth on e-bikes in particular has been impressive. Merida's Taiwan factory has shipped around 450,000 bikes with the sales amount of over NT\$10.7 billion in the first half of 2018, figures which are 27% and 47% higher than the previous year respectively.

While Merida's first half results have been better than 2017, the 2nd half of the year is the traditional peak season for the bicycle industry. Merida's Taiwan factory is running at full capacity and is planning to achieve more growth in the coming 2nd half of the year.

WG



Introducing the New Brose Drive C: Pure Riding Pleasure in the City

New to the product range: the Drive C for pure riding pleasure in the city.

Whether commuting to work or simply cruising through town, the **Drive C** delivers a harmonic riding experience. It is the perfect everyday companion for the urban jungle.



The innovative design of the Brose e-bike drive gives every rider what they want: real riding pleasure with optimal performance and no annoying background noise. Thanks to a precise sensor system, the drives adjust to your individual riding style and provide exactly the right amount of extra power: dynamically and harmoniously, yet extremely quietly and with hardly any vibration. A feeling of cycling instead of a moped-like ride.

When no electric drive support is required, the Brose dual freewheel technology comes into its own: the motor and transmission are completely decoupled. The result is no pedalling resistance for a natural riding feeling!

The product family Brose Drive is designed to meet the individual requirements of various types of e-bikers. Each of the five drive models has its own character: efficient, quick, sporty, agile, or harmonic.

Extensive tours or a short evening spin after work: the **Drive T** is the perfect all-rounder. This highly efficient drive is ideal for daily e-bike use and longer distances.

Based on the Drive T the **Drive TF** was developed for cyclists who love speed. It supports riders up to a speed of 45 kilometres per hour. Long-distance e-bike commuters really get their money's worth with this drive.

This high-performance drive has 15 percent more torque than the Drive T at higher cadences and an even more sensitive response. This makes the **Drive S_{Alu}** particularly suitable for advanced tours, especially for e-mountain bikers on demanding trails.

The **Drive S_{Mag}** is the first e-bike drive with magnesium housing. E-bike riders can enjoy the maximum power of 90 Newton meters over a wider cadence range. The new „Flex Power Mode“ delivers an even more agile e-mountain bike riding experience.

Visit us!
Evergreen Hotel
Room RM-322



The new Brose Drive C for a harmonic riding experience in the city.

Our diagnosis and service tool for dealers: maintenance made convenient and efficient

Brose is breaking new ground with a specially developed diagnosis and service tool for dealers and workshops. From mid-2019 onwards, the new service tool will enable a fast and precise diagnosis and maintenance of Brose drives. In addition to that, Brose is consistently expanding its worldwide partner network.

E-bike Product Gallery

Avin

Waterproof connectors

Avin make waterproof connectors for e-mobility solutions as well as many other applications. Used for connecting the battery to the motor for battery swapping systems, Avin can customize designs.

The A1 series can be up to 4P 8S (Mix & Match selection) with a maximum current of 60A, and has waterproof and dustproof ratings of IP68. The A2 series features multi angle insertion to male from 90 to 180 degrees with



a current of 30A and IP66. rating Both series have a flammability rating of UL94V0.

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www.avertronics.com

Apro

ERDP6.0CA-S 275+

The ERDP 6.0CA-S 275+ is designed for conquering extreme terrain. The slim, muscular look is reminiscent of an off-road motorcycle. The carbon fiber chassis is manufactured utilizing High Modulus Carbon Fiber and NJW—a unique forming technology from Apro which provides superior strength and extreme lightweight. Combined with a #6061 aluminum rear triangle the complete frame is



lightweight, stiff and responsive. The frame is suitable for a Shimano E-8000 motor with the new in-tube battery, and there is also an option for the Darfin battery available early 2019.

+886-4-26821688
www.apro-tek.com

Asia Bicycle Trading Company

E6

Asia Bicycle Trading Company have a 27.5" Plus frame made from 6061 alloy. H/T size is 1-1/8" and the upper is 1-1/2". The frame is for use with Shimano's E8000 drive system, and hub specifications are 148mm x 12mm (e-thru).



Arc EV Tire

Propulse

Arc EV Tire believes it's Propulse is the new standard by which tire specifications for two-wheel electric vehicles will be judged. After extensive development and testing, the Propulse uses Arc's proprietary Ingenuit-e compound, which considerably lowers rolling resistance, thereby extending riding distance. Available in e-bike, e-scooter and e-moto sizing, Arc EV Tires are



engineered specifically for the weight and performance demands of two-wheeled electric vehicles. Using beads with higher tensile strength, as well as sidewalls that increase lateral stiffness.

www.imb2b.com/ebook/catalog/motor/gmdtire_2018/

Asia Bicycle Trading Company

E3

Asia Bicycle Trading Company have a 27.5 eMTB frame made from 6061 alloy. H/T size is 1-1/8" and the upper is 1-1/2". The frame is for use with Bosch drive systems, and hub specifications are 142mm x 12mm (e-thru).



Bear Pawls

BEB-004

The BEB-004 rear hub from Bear Pawls was engineered specifically for the high torque demands of eBike drivetrains. Each of the six single-sprung pawls in the cassette uses two engagement points to distribute drive forces throughout more of the drive ring. The hub flanges have been optimized to allow for easier threading of spokes making the wheel stronger and faster to build, thereby increasing production capacity. Contrary to conventional hub architecture, the BEB-004 uses a precision-ground, high strength steel axle



with concentricity tolerance better than 0.01mm for maximum wear resistance and long-running performance. Available interchangeable drive systems are compatible with either Shimano or SRAM cassettes with axle compatibility varying from 5mm QR to 12mm through axles.

+886-4-25606996
http://bearpawls.com

Bike Hand

YC-38BB

The YC-38BB is a 2-in-1 e-bike wrench for Bosch systems. It can be used to install and remove the lock ring of Bosch electric bicycle motor. It's suitable for a Bosch Classic Line, Active and Performance systems.



DNP

LY-1107XFN

LY-1107XFN is a freewheel for 7-speed e-bikes, available in 11-28T, 11-30T, 11-32T, 11-34T options.

+886 2 2995-8777
www.dnp.com.tw



DNP

LY-1111MFN 11-34T

LY-1111MFN 11-34T is a freewheel for 11-speed e-bikes, available only in 11-34T.

+886 2 2995-8777
www.dnp.com.tw



GWA

GWA09C E-Cargo Bike

Originally launched in 2008, GWA's e-Cargo Bike has evolved into different models. The latest model GWA09C, has reverse drive and Bluetooth functions. The GWA09C offers a direct drive rear motor for high torque applications and allows both forward and reverse gear operation. The bike supports a bottom bracket torque sensor and offers re-gen function when speed

limitation is reached. Additional options are available for an add-on Bluetooth Low Energy (BLE) junction box and the selection of R37 or R45 battery packs. The standard bike includes a home-based diagnostic tool.



High Power

HP0240W Series

High Power claim its battery charger is best for electrically powered wheelchairs, scooters, motorcycles and all types of electric vehicles and equipment. The charger utilizes a microprocessor to control the system and can be

connected to a battery indefinitely without harming it. The charger automatically checks the battery until it is fully charged.

+886-2-25536219
www.high-power.cn



Innova Rubber

Flint

Innova's Flint is 700X38C designed for e-bikes. The flat tread design reduces rolling resistance, improves the grip and saves electricity. Innova claim that the Sport Guard of 3.5mm thickness is perfect for puncture protection. The maximum speed is 25km/h and maximum load is 150kgs for one bike.

www.innovatires.com



Imeier

IM 16

Imeier's IM 16 is a folding e-bike with 16" wheels. According to Imeier the aluminum alloy x-shaped frame can be folded in just 1 sec. Coming in an anodized silver finish the bike has a gross weight of 25.5kg.

+886-2-88262908
www.imeier.tw



Merida

Espresso

Espresso combines day-to-day usability with staying fit and healthy. Merida offer an array of frame and specification tyres: the Espresso with the classic 'diamond' frame, the Espresso L (low) with a heavily sloping top tube and the Espresso City models with a low step through frame. All bikes are fully equipped or are ready for a rear rack, mud guards or a kick stand to be fitted. Up to now, the Espresso exclusively relied upon the proven combination of E6000 motor and matching battery. While keeping this option, the range will now also have the powerful E8000 setup of motor and battery.

+886-4-8526171
www.merida-bikes.tw



Merida

eOne-Sixty

In 2017 Merida's engineers took the One-Sixty and added a built in shuttle service to create the award and test winning eOne-Sixty! This 160/160 mm enduro full suspension e-bike with its all-aluminium frame delivers a host of features like complete internal cable routing with 'Smart Entry' cable access, 650b+ tyres, Boost Standard wheels, a Shimano E8000 Steps motor and fun focussed agile and playful geometry (reach for a M frame is 440 mm).

+886-4-8526171
www.merida-bikes.tw



Massload

Alloy Electric Rear Carrier CL-639

Massload's CL-639 is its new MIK (adapter CL-QS1) system design and also Bosch rear battery pack carrier. Riders can click on whatever luggage they want in just 1 second and transport it with great stability. The maximum load weight is 25kg for 26", 700C, 28" bikes. People are not allowed to sit on the rack and baby seats are prohibited.

www.mik-click.com



Novatec

D791SB-B15 / D162SB-SL-B12

eMTB systems put large amounts of torque onto the hub, which is responsible for transforming that power into forward motion. To combat this power transfer, Novatec design eMTB hub concepts to focus on giving superior stiffness and durable performance. Novatec believe their hub combination is the perfect mid-level eMTB hub set. The D791SB-B15 weighs 154 grams and



the D162SB-SL-B12 XD driver 425g / 11S 457g.

+886-4-25668888
www.Novatecwheels.com

Prowheel

E-bike Crank & Chainrings

Prowheel has launched crank and chainwheels for e-bikes. Crank lengths are 165, 170, 172.5 and 175mm. The Finish is black sand powder coating. The Weight is 490 grams/pair. According to Prowheel, its chainring is made from steel. It has a BED finish. The BCD is 104mm. The chainguard is alloy. The finish is black sand anodized. It is for 38T

chainrings. The size is 104mm. The spider is 13T mounting interface. It is made from 6061-T6 aluminum. BCD is 104mm. The spindle bolt is crmo and weighs: 45 grams/pair. All of the above products are for Bosch Gen 3 motors.

+886-6-2825791 www.pro-wheel.com

2018 PROWHEEL E-BIKE DESIGNED FOR BOSCH Gen 3

2018 PROWHEEL E-BIKE DESIGNED FOR BOSCH Gen 2

E-BIKE CRANK

EB03-R-BN1
EB03-L-BN1
LUBRICATE WITH OIL
FINISH: BLACK SAND POWDER COAT
WEIGHT: 490 GRAMS

EB04-R-BN1
EB04-L-BN1
LUBRICATE WITH OIL
FINISH: BLACK SAND POWDER COAT
WEIGHT: 490 GRAMS

STEEL CHAINRING

PRO-38T-1
CHAINRING MATERIAL: STEEL
CHAINRING FINISH: BED
BCD: 104MM

SPIDER

SPIDER: 6061-T6
MOUNTING INTERFACE: 13T
MATERIAL: AL 6061-T6
FINISH: BLACK SAND ANODIZED
BCD: 104MM

CHAINGUARD

AG62
CHAINGUARD MATERIAL: ALLOY
CHAINGUARD FINISH: BLACK SAND ANODIZED
PICK-UP CHAINRING SET
BCD: 104MM

SPINDLE BOLT

CRMO M10
WEIGHT: 45 GRAMS/PAIR

E-BIKE CRANK

EB03-D3-R-1S15
EB03-L-1S15
LUBRICATE WITH OIL
FINISH: BLACK SAND POWDER COAT
WEIGHT: 490 GRAMS

EB04-D3-R-1S15
EB04-L-1S15
LUBRICATE WITH OIL
FINISH: BLACK SAND POWDER COAT
WEIGHT: 490 GRAMS

STEEL CHAINRING

PRO-38T
CHAINRING MATERIAL: STEEL
CHAINRING FINISH: BED

SPIDER

SPIDER: 6061-T6
MOUNTING INTERFACE: 13T
MATERIAL: AL 6061-T6
FINISH: BLACK SAND ANODIZED

MODEL	CRANK	SPIDER	CHAINRING	CHAINGUARD	SPIN	CL	BCD
EB03-288A-611	EB03	S11	PRO-38T-1	AG62	X	47.5	104
EB04-288A-611	EB04	S11	PRO-38T-1	AG62	X	47.5	104
EB03-167-03	EB03	X	167	X	O3	47.5	X
EB04-167-03	EB04	X	167	X	O3	47.5	X
EB03-167-03	EB03	X	167	X	O3	47.5	X
EB04-167-03	EB04	X	167	X	O3	47.5	X

Richmond

E-MTN FS-Carbon

Richmond describes its E-MTN FS-Carbon as a 'hardtail carbon full suspension eMTB'. Featuring the Shimano E-8000 Steps drive system and an integrated battery design, the bike also comes equipped with Sram's NX Eagle drivetrain.

www.richmond-bikes.com



Richmond

E-MTN C Team

Richmond E-MTN C Team is a hardtail carbon eMTB with the Shimano E-8000 Steps drive system and an integrated battery design.

www.richmond-bikes.com

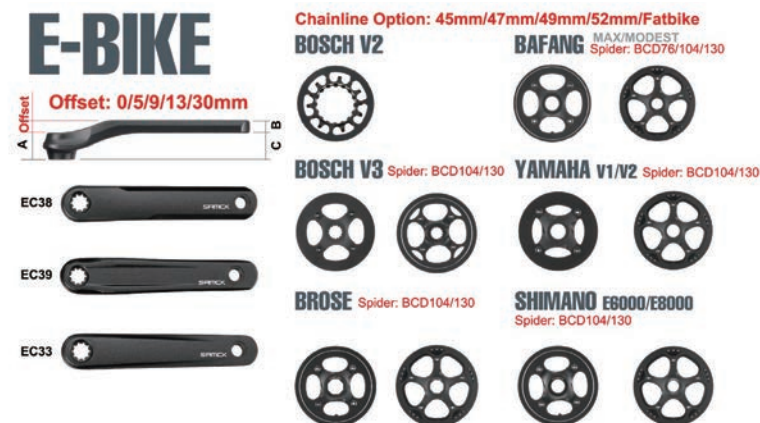


Samox

Samox has launched a range of e-bike parts including crankarms, spiders, chainrings and chainguards compatible with different motors. Samox is able to offer customers the following products with different chainlines (e.g. 45/47/49...76mm), different offset of crankarms, different teeth profile/material chainring (narrow/wide, regular teeth, alloy or steel). Chainrings are available in single chainring 28T~53T and double chainring options of 40/28T, 44/30T, 50/34T etc.

+886-4-8314959

www.samox.com.tw



Sunnywheel

KC-111 Cargo box

Sunnywheel's cargo box allows notebook computers to be placed in the storage compartment with no worries while the cyclist rides. According to Sunnywheel, many objects can be placed into the unique storage compartment. Another unique feature is the pivot design top cover which Sunnywheel claim can be opened to any angle.

+886-4-761-6188

www.sunnywheel.com



Sunnywheel

Cable Storage Tech

The innovative design of cable storage provides a simple clip lock for the power transmission line system of all e-bikes. Designed with a light and modern appearance, the fender is a totally new piece of technology.

+886-4-761-6188

www.sunnywheel.com



Taya Chain

11s Onze Galaxy

Taya has launched an 11-speed Galaxy chain suitable for both MTB and road bikes. The company's patented technology allows the chain to surpass ISO standards and extend its life. The chain features Taya's 360 degree riveting, DHT super hardening as well as "Deep plate chamfer" designs. A unique "Nano-Galaxy-Coating" bonds a special nano material to the chain plates giving the chain anti-scratch, wear resistant, and easy maintenance features.

+886-6-2703166

<https://tayachain.com/>



Taya Chain

Tolv-12s Ti-Black Gold 12-Speed chain

This is Taya's top 12-Speed chain for MTBs. The company claims its exclusive DHT (Diamond Hard Tech) self-lubricated hardness treatment applied to the pins strengthens the hardness to over HV1800, 30% harder than many high-end chains on the market. Taya also claim the "Patented "Sigma+" Quick-



Link has its durability doubled by the special block design, and reusable gain."

+886-6-2703166
<https://tayachain.com/>

Unique

MPF Drive System

This mid-drive system was first introduced to the public in 2003 with a 24V motor and NiMH battery to comply with Japanese E-Bike regulations. Now, MPF Drive has released Version 6.0 with IP67 for various applications including for city bikes, trekking bikes, commercial bikes, road bikes, mountain

bikes, off-road bikes, cargo bikes, fat tire bikes and even for water-bikes. The 36V motor delivers 60-75 Nm torque and has a nominal power of 250W.

+886-6-2536766 ext.6808)



Yancpro

Raiser

Raiser is a good solution for riders who enjoy riding in the mountains, and also like commuting in the city. Equipped with 27.5"/2.1 tires and 300W assist. output, Raiser gives riders a proper riding experience all the time.

+886 7 821-2773
www.yancpro.com



TRP

HD-E840-2

The all-new HD-e840 utilizes a completely new design to offer a brake engineered specifically for eMTB. Rotor thickness was expanded to 2.3mm-lowering heat buildup by 8% and reducing rotor deformation by 15%. The caliper utilizes an open top design for easy pad replacement when working with the added weight of an eMTB and also features TRP's World Cup-winning ceramic/steel hybrid pistons offering the ideal blend of lightweight heat management and smooth, reliable actuation. The lever is equipped with an indexed Tool-Free Reach Adjust.

+886-47683999
www.trpcycling.com



Vertech

93-083-880SM

Made from 6061 forged aluminum with CNC processing, Vertech's 93-083-880SM is a motor housing for Shimano's E8000 weighing 650 grams.

www.verttech.com.cn



Yaban

MK410RB

Designed for e-bikes, city bikes, fixed-gear, BMX and all single speed bicycles, Yaban's new patented MK410RB is a solid bushing type single speed chain which the company claims has 10 times the chain life of normal chains and offers over 20,000 km service life without replacing. The wide inner plates construction offers an anti drop function and 1,200kgf high tensile strength. MK410RB combines easy maintenance, great rust resistance, high durability and excellent cost performance. ⚙️WG



New Product Gallery

Prowheel

RPX11-44T-TT

With forged alloy cranks available in lengths of 170, 172.5 and 175mm, the RPX11-44T-TT crankset is compatible with 11-speed systems. The chainring is available in 50T, 48T, 46T, 44T, 42T, 40T, 38T and 24T versions, and comes in an anodized sand-blasted black finish. The crankset is compatible with PW-BB68+ / PW-BB86 BB sets.



Splendor Hotel
14F, Summer Room

CST

Jack Rabbit II (C1747N)

With Jack Rabbit, CST's goal was to make an already great tire, even better. A special 'over-lay' bridge was added to the pattern to ensure fantastic control with unparalleled grip and speed. This combination makes the Jack Rabbit II a true high performer.



Xpedo

APX Pro

The APX Pro is a smart trainer with adjustable stand and is compatible with most types of bicycle. Users can plan training programs easily every day by using the manually adjustable resistance design and wireless connections. Features include: Power, speed and cadence transmitted via a wireless connection, a 5-degree hub yaw angle to give the simulation of a real riding experience and a built-in cooling system to prevent heat affecting power output.

☎ 0800-378789

🌐 www.xpedo.com

Tempus Hotel
5F, VIP Room



APRO

ERDP 6.0CA-S 275+

The slim, muscular look of the ERDP 6.0CA-S 275+ is reminiscent of an off-road motorcycle. The carbon fiber chassis is manufactured utilizing EPS technology and high modulus carbon fiber to provide superior strength and extreme lightweight. Combined with a #6061 aluminum rear triangle, the complete frame is lightweight, stiff and responsive.

☎ +886-4-26821688

🌐 www.apro-tek.com

Evergreen Hotel
Room 321



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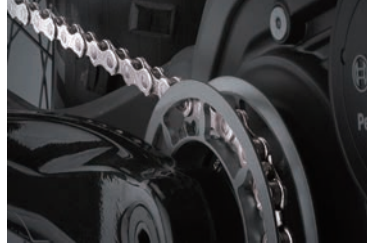
WWW.ALEXRIMS.COM



KMC

eBike Chain

KMC's eBike series chain is the brainchild of intensive technical collaboration with renowned e-bike motor brands in order to be the perfect chain solution for all central motor and hub systems. The e-bike chain is able to cope with higher torsional stress and endure over 1,000kgf of tensile stress generated by central motor systems. KMC's sturdy and stable eBike chain empowers riders to easily conquer rugged trails and harsh riding environments.



Innova-Pro

Podium E-MTB Tire 27.5X2.6

For fast e-bikes, Innova has developed a special tire construction and compound. An all terrain pattern design with tubeless ready construction, the premium compound offers the dependability of excellent grip combined with high mileage use. The construction features 'Sport Guard 3.5mm' and 'Side Guard' to provide superior puncture protection. The tire is ECE-R75 certified and approved for vehicles up to 50 km/h.

+886-4-7521037

www.innovatires.com



Splendor Hotel
15F, Pearl Room

Zoom Launch Flanders Bar

Named after the famed Spring Classic, Zoom's Flanders dropdown bars are stiff yet have enough compliance for precise handling and vibration release.

The aluminum butted handlebars have bigger oval uppers (34mm x 28.6 mm) which offer 60% more support to the rider's palms, while a wider bar bore means it is easier to equip stem, computer mounts, clip-on aero bars or other accessories. Featuring a 6 degree back sweep to easier maintain aero position on the bike, a maximized upper width also allows for wider holding contacts.

The Flanders is available in widths of 380, 400, 420, 440 and 460 mm, and in silver or sand-blasted black anodized colors. WG



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The Splendor Hotel Taichung
booth no. 1160

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perfect with ER-1 disc brake



CL-32SB



CL-31SB



ER-1/ER-1R



DRA



Y-5A



YD-01



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Specially designed for E-bike



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- 展會地點: 台中金典酒店 (The Splendor Hotel Taichung)
- 攤位號碼: 1048



- TAIPEI CYCLE 2018
- 10.31-11.3
- Nangang 4F L0006



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www.stars-rim.com

International Dining in Taichung

International visitors to Taichung Bike Week will be able to find an almost endless variety of local Taiwanese cuisine to sample, most of which are excellent, and some of which are, frankly, bizarre. However, there may come a time when one may wish to taste something from home, or to sample meals from other exotic locations. If this is the case, Taichung has you covered. Some of the following restaurants may be just what you need.

Mori Teppanyaki Restaurant

The Mori Teppanyaki restaurant contains first and second floors plus VIP areas. Although all dining areas are in compartment spaces, the VIP compartments include an elevated Japanese-style courtyard garden and tableware consisting of Merandi handmade wine glasses made from Swarovski Crystal. The spacious atmosphere, yet ample privacy make the restaurant ideal for parties, company dinners or entertaining distinguished guests in private settings.

There are two major features about the food. Mori Teppanyaki's "oil-free cuisine" depends entirely on the freshness of the ingredients combined with the chefs' cooking skills and precise control of heat and timing. The chefs also only use French sea salt, Himalayan rose salt, and truffle salt for seasoning. Additionally, the restaurant's "analytical beef cuisine" makes full use of the distribution of fat in the beef. Taking advantage of the texture of the meat and proportion of fat, seven kinds of beef layering and frying are offered, highlighting the delicious freshness and tenderness of the ingredients.



Chillies Indian Restaurant 淇里思印度餐廳

This Indian restaurant is very popular, both with locals and foreign visitors, due to its tasty and authentic cuisine. They have a large number of dishes available, both vegetarian and non-vegetarian, to fit all your dining needs. In addition, it is located in a very nice area, quite close to the Fine Arts Museum in Taichung. While it is not inexpensive by Taichung standards, it is well worth the trip.

📍 No. 47 Chunzhong Street, West District, Taichung
 ☎ +886 4 2377 0007
 🌐 www.facebook.com/CIRTaichung#_=_
 📞 1100-1345; 1700-2045
 📍 No.156, Chaofu Rd., Xitun Dist. | Near by Hotel Lin & Chaoma bus station., Taichung 40757, Taiwan
 ☎ +886 4 2251 7111 🕒 17:00-22:00

Le Moût Restaurant 樂沐法式餐廳

The menu at this beautiful restaurant speaks with an impeccable French accent, thanks to the dedication and experience of chef-patron Lanshu Chen. She trained at Ferrandi in Paris and

worked in restaurants under leading French chefs such as Jean-François Piège, Jérôme Chaucesse and Patrick Pignol. A stint at Thomas Keller's The French Laundry followed, before she set up her own restaurant in the heart of Taichung in 2008.

📍 No. 59, Cunzhong St, West District, Taichung
 ☎ +886 4 2375 3002
 🌐 www.lemout.com 🕒 Monday and Tuesday are closed.

Pizza Rock Taichung 搖滾披薩

Run by Canadian-Italian Ugo Ortolano and his Taiwanese wife Ruby, Pizza Rock boasts authentic Italian pizza in the heart of Taiwan. Called by some "the best pizza in Taichung", the cooks use the best ingredients possible to produce pizza like few others in Taiwan. No green pea or corn toppings here. They also serve delicious paninis and baked pasta dishes, if those are more to your taste.

📍 No. 202 Jing Cheng Road, Taichung
 ☎ +886 4 2310 0228
 🌐 www.pizzarock.com.tw 🕒 12:00-22:00

Mister India

Receiving very good reviews from almost every food website, Mister India is a small, cozy restaurant with a friendly, attentive staff. Specializing in curry dishes, owner Jagjit Singh wants all his patrons to have a full Indian meal experience. The food here is fresh, tasty, and of an exceptionally high quality. The owner has been known to give discounts to customers for no reason at all, other than he enjoys their company. Excellent value for your money.

📍 No. 6 Jingchen Road, Xitun District, Taichung
☎ +886 4 2320 8821 🕒 11:30-14:30; 17:30-21:30

La Fete French Restaurant 法月當代法律料理

This is a more high-end kind of restaurant, with meal prices reflecting that status. That, in addition to the rather limited selections in meals, tends to make this establishment somewhat specialized. The food they serve is uniformly excellent, but don't expect a wide choice. The décor and ambience are right out of a European bistro, and the service is quite friendly. Recommended for the more adventurous traveler.

📍 No.587 Huiwen Road, Nantun District, Taichung
☎ +886 4 2252 1680
🌐 <https://lafete163361754.wordpress.com/>
🕒 11:30-14:30; 17:30-21:30

Finga's 紐西蘭主廚特製異國料理

A combination restaurant/deli/cafe/grocery store, Fingas is a unique dining experience. They offer a fairly large variety of North American, Italian and Mexican meals, from burgers to sandwiches. Owned by New Zealander Derek Bruce, this restaurant offers excellent western style meals at affordable prices. The freshly baked breads are fantastic, as well. This is a great place for lunch or dinner.

📍 173, Xiangshang S. Rd., Sec. 1, Taichung, Taiwan
☎ +886 4 2472 0965 🕒 10:00-22:00

Frog Mexican Restaurant 青蛙墨西哥餐廳

There are several branches of Frog Restaurant in the downtown Taichung area, and all of them provide a good selection of Tex-Mex foods at reasonable prices. My personal favorites are the beef enchiladas or the chicken tacos. I've never had a disappointing meal here. They also offer a wide variety of bottled and draft beers. This is a great lunch destination, if you're in the mood for some tasty, cheesy, spicy Tex-Mex food.

📍 No. 30, Yude Rd., North Dist., Taichung City 40447, Taiwan
☎ +886 4 2203 0182 🕒 11:00-24:00

Uzo Bar and Restaurant

Greek/Mediterranean style food is on offer at this popular restaurant, presented in a relaxed, easygoing atmosphere. Go to this restaurant to get your falafel, hummus or baba ghanoush desires fulfilled. Everything here, including the burgers and a wide variety of appetizers, is fresh and tasty, so you can't really go wrong. Two unique things about this restaurant: it is open late (until 1:00am), and no service charges are included in the prices (although tips – somewhat rare in Taiwan – are appreciated).

📍 No. 22, Jingcheng 5th St, West District, Taichung
☎ +886 4 2327 3518
🌐 www.uzobar.com/Home.html
🕒 Tue, Wed, Thur: 6pm ~ 11:50pm Fri: 6pm ~ 12:50am
Sat: 5pm ~ 12:50am Fri: 5pm ~ 11:50pm
Mon: Closed

Little Italy Restaurant

Little Italy Restaurant has several franchises throughout Taiwan, but it is by no means a fast food establishment. This eatery is in the mid-price range, but the prices are quite reasonable for what you get. They offer a wide variety of pizzas, pasta dishes, and several steak/seafood/chicken meals which are prepared very well indeed. Add to the mix a friendly staff and an excellent choice of wines, and Little Italy is a sure bet for a great evening of dining.

📍 No. 130-1, Sec. 2, Zhonghua Rd., North Dist, Taichung
☎ +886 4 2208-1329 🕒 11:30-22:00

Find the Way Cafe 找路咖啡

A fairly unknown, small restaurant off the beaten path, Find the Way Cafe is quite a unique place. It has several very tasty meals on offer, surprising for such a tiny restaurant. Their coffee is very nice, as well, in addition to a good (but small) selection of wines and beers. The owner is very friendly, as are his two cats, that tend to wander around the restaurant as you eat. This is a fun little place, and the food is first rate.

📍 No.320 Dehua Street, North District, Taichung
☎ +886 4 2238 8199 🕒 11:30-20:30

Windsor Cafe

This restaurant, located in the basement of the Windsor Hotel in Taichung, specializes in buffet-style American cuisine. There is a wide selection of food available for the choosing. The seafood dishes, which are fresh and very tasty, are some of the most popular amongst the customers. This restaurant gets crowded – making a reservation is highly recommended.

📍 B1F, No. 610, Section 4, Taiwan Blvd, Xitun District, Taichung
☎ +886 4 2465 6555 (Hotel number)
🌐 windsortaiwan.com/en
🕒 11:30-14:00; 14:30-16:30 (Thu.-Sun.); 17:30-21:00

Ikki Japanese Restaurant 藝奇新日本料理

A (mostly) sashimi restaurant, this establishment is focused on seafood. While it does offer some very well-prepared non-seafood dishes (the stone grilled beef chuck steak is particularly good), the seafood, both raw and cooked varieties, really shine here. Moderately priced, they offer some excellent meals for two, which are a great value. Delicious food is readily found here.

📍 No. 95, Fuya Rd., Xitun Dist, Taichung
☎ +886 4 2461 6022
🌐 www.ikki.com.tw/Foreign/menu_E.htm
🕒 Time: 11:30-14:30 & 17:30-22:00

Le Rouge Burger Café 紅盒子漢堡咖啡店

Opened by a group of friends motivated by creativity and the desire to make delicious burgers, Le Rouge is a burger bar with a neo-industrial theme decor.

Burger patties are prepared with prime ground chuck beef, hand-patted and topped with French-style stir-fried onions and cheese. Favorite burgers include the Spicy Satan Burger prepared with chilis, wild pepper and Sichuan peppercorns; The Smoking Gun Burger grilled with cherry wood and the Classic Deluxe Burger.

📍 No. 6, Lane 56, Yongchun South Road, Taichung 408, Taiwan
☎ +886 4 2382 7057 🕒 12:00-21:00

Bella Roma

There are many 'Italian' restaurants in Taichung but Bella Roma has a claim on genuine authenticity. Italian wine store owner, Valerio Franchi opened the restaurant with the view to serving reasonably-priced cuisine from his home country. He pays special attention to all his ingredients, including fresh vegetables, handmade sausages and meats and high-end olive oil. The Bella Roma often receives rave reviews and comes highly recommended for anyone in central Taiwan craving genuine Italian food!

📍 No. 27, Lane 87, Sichuan Road, Xitun District, Taichung 407, Taiwan
☎ +886 906 469 648 🕒 18:00-22:00

Fleur de Sel French Restaurant & Bar 鹽之華法式餐廳

The Fleur de Sel may be the only restaurant in Taichung with a 'no set menu' manifesto. Believing that any ingredient has its best time of ripening and consumption, the chef selects fresh seasonal ingredients including seafood, meat and vegetables, and uses those to design a menu according to diners' preferences. Meals are differentiated by price ranging from NT\$1,880, NT\$2,880 and NT\$3,500 or above. The restaurant also only accepts diners with reservations and waiters and waitresses will be present at all times to provide explanations on the courses and other services.

📍 No.581-1, Shizheng Rd., Xitun Dist., Taichung 407, Taiwan
☎ +886 4 2372 6526 🕒 12:00pm-15:00pm; 18:00pm-22:00pm

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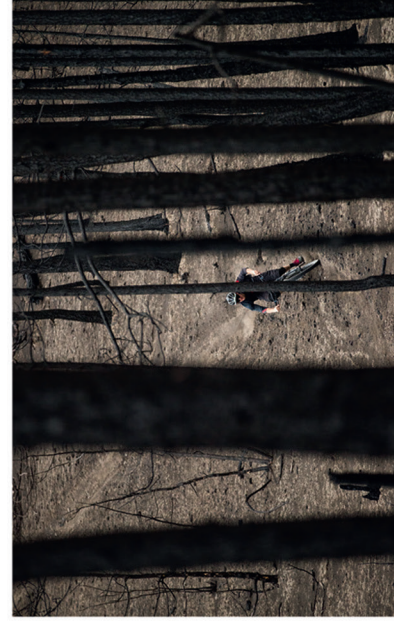
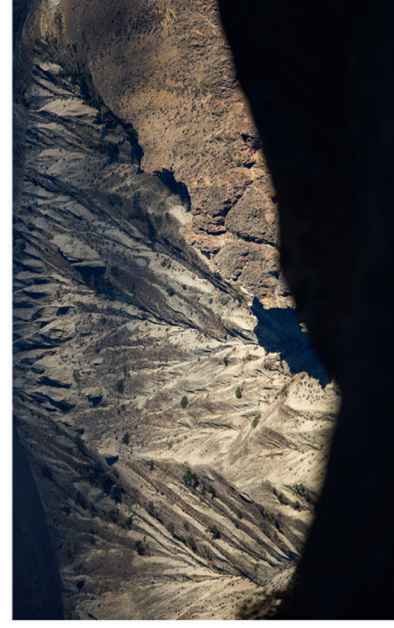
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PLUS

27,5"

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Rove (Neco3-1+Neco4+Rectifier)
Dynamo Hub Power
Generator-UPS System



NECO3-1



1. Dust Cover
2. Battery
3. Charger
4. Compression Plug

DC Electric Transmit Wire

Electric Rectifier

AC Electric Transmit Wire

NECO4

Patent No.China : 5257748

5Vx2A=10W

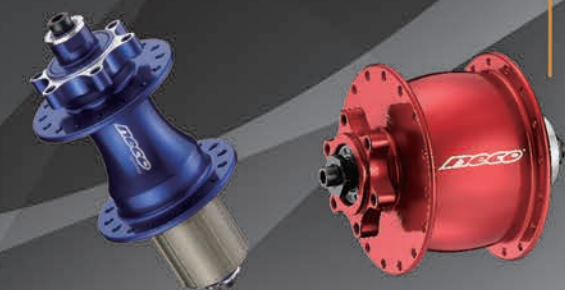
Global Maximum Bicycle
Dynamo Generator



NECO1

Intelligent Hidden Wire Headset

NECO1 Patent No. China: 4118628/Taiwan: M497135



NECO3

Intelligent Portable Charger

NECO3 Patent No.Taiwan: M509473/Germany: 202015104197



NECO5

Manual Pedals

Patent No Taiwan: 105211964

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