

Bicycle Today

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**Electric Bicycle
Market Analysis
and Prospective
Trends**

**The Taipei
International
Cycle Show 2019**


**Products New
Europbike Preview**






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E-MTB HUB

BOOTH B1-203
EUROBIKE

D791SB-B15

ALLOY J-HOOK HUB
WEIGHT 153G
SEALED BEARING 2
GAUGE 13
O.L.D 110
AXLE 15
AXLE MATERIAL ALLOY
CENTER LOCK: D791SB-CL-B15



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- OVERSIZE AXLE DESIGN

ALLOY J-HOOK HUB
WEIGHT 382G
SEALED BEARING 4
GAUGE 13
O.L.D 148
AXLE 12
AXLE MATERIAL STEEL
PAWLS 4
XD DRIVER COMPATIBLE



N

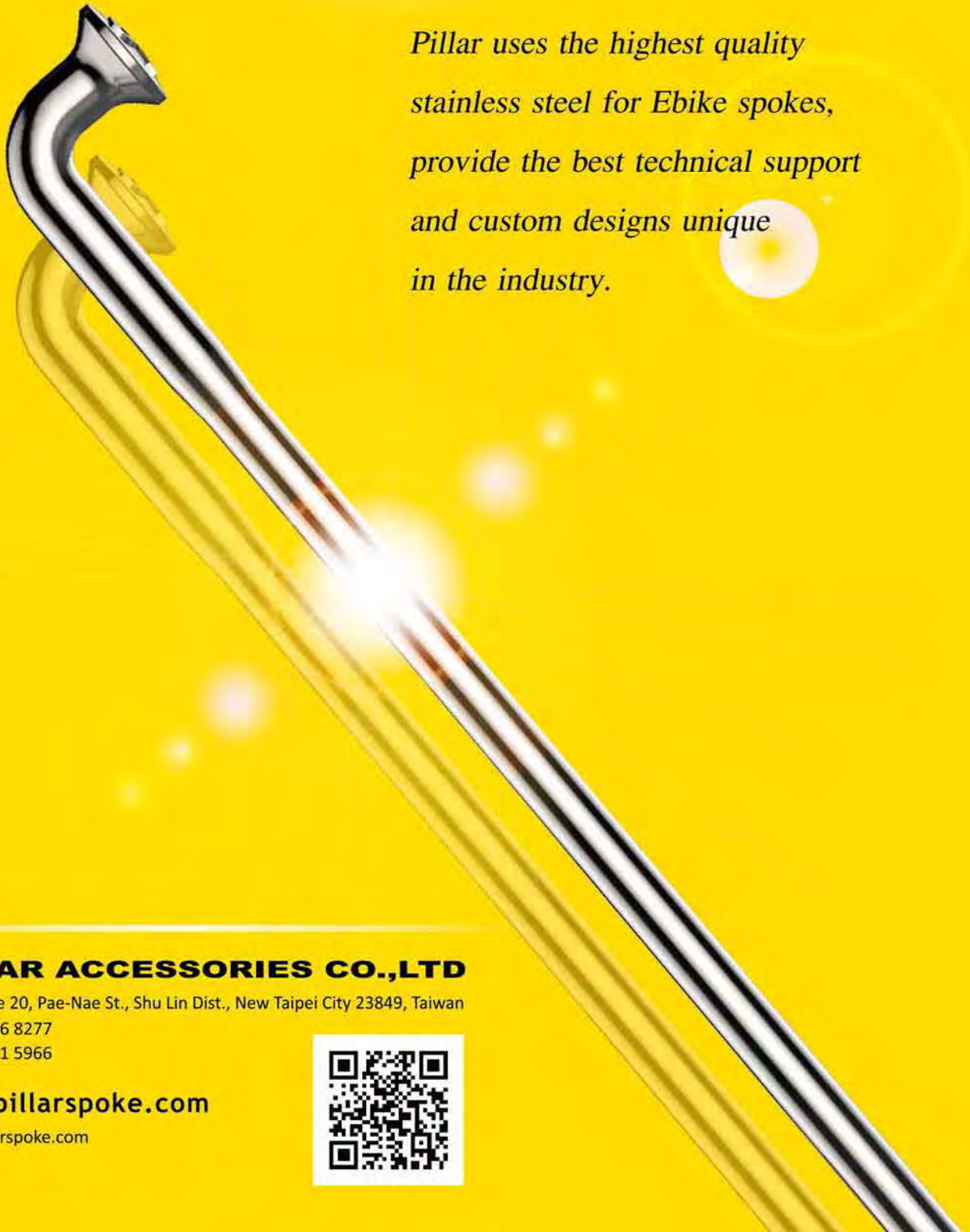


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E-Bike Front Transmission Parts

Design front transmission parts compatible with Brose/Bosch/Bafang/Yamaha/Shimano...etc.



BAFANG
M800/M600/M500
M420/M400/M300

BOSCH GEN4
BHV04

BOSCH GEN3
BHV03

COMP
VK180

FAZUA
FZV01

SHIMANO E8000/7000/6100/6000/5000
SHE80/SHE70/SHE61/SHE60/SHE50

YAMAHA PW-ST(V1)/PW-X(V2)
YAV01/YAV02

Brose, Bosch Gen2, Continental, Nidec, DAPU, Ananda are Compatible



CL:45mm

CL:47mm

CL:50mm

CL:53/56mm

CL:65/68/72/75mm

E-Bike front transmission with Belt Drive System

The E-Bike Spider design to compatible with Gates/Continental Belt-Drive system and rear internal hub system (Shimano, Nuvinci & Rohloff). The belt drive system belt line is very sensitive.

The crankset is designed to provide below table belt line to compatible with internal hub system.

Note

1. Each motor series have compatible Spider to fit
2. Compatible with Shimano/Nuvince/Rohloff Internal Hub system
Some internal hub system belt line is small. Need to adjust move
3. motor center to Non-drive side.



EC38

EC40

E7
E-Bike Carbon
Crankarm

EC39

ET38-SML

E7-S1
E-Bike Carbon
Crankarm




EC33

ET39-BFG

E7-S2
E-Bike Carbon
Crankarm

Noted: Crankarmoffset Option : F0 , F2 , F5 , F9 , F10 , F13 , F17 , F20 , F25 , F30
Interface Option : JIS , ISIS , BNI , SML , BFG(BafangM800)

Single and Double E-Chainring List

E-Bike Double Ring Specs Table					E-Bike Single Ring Specs Table					
E-Series	Model #	Teeth Combination	BCD	Chainline	E-Series	BCD104	BCD130			
						Teeth number	Teeth number			
MTB	23101CS	36/22	104/64	49 or 52	1/8" 3/32" 11/128"	32-48	40-53			
	23901CS	36/26	104/64	49 or 52						
	23001CS	38/24	104/64	49 or 52						
	24201CS	38/28	104/64	49 or 52						
	21701CS	40/28	104/64	49 or 52						
Trekking	24001CS	44/32	104	49 or 52	Photo					
	24501CS	42/28	104/64	49						
	24601CS	44/30	104/64	49						
	24101CS	48/36	104	49						
Road	20801CS	53/39	110	44	Chainguard Option	32-48	40-53			
	23301CS	52/36	110	44						
	22001CS	50/34	110	44						
	22701CS	48/36	110	44						
	23201CS	48/32	104/64	44				Photo		
	21901CS	46/34	110	44						
	25501CS	46/30	104/64	44						
	25601CS	44/28	104/64	44						

NOTE : NWseries Chainrings only Available for Even Teeth

Double Chainring Option: Specs:Larger Alloy Ring/ Smaller Steel Ring

Spindle Bolts and Chainring Bolts Option



BL-S01

BL-S02

BL-S03

BL-A06

BL-S04-A(RH)
BL-S04-B(LH)

BL-A10(RH)

• M8x0.75
(L 7.5/8.5/10/14/16mm)



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LEADTEC Raises Consumer Identity



LCS-7152 E-BIKE

Material	Alloy 6061 T6
Process	3D Forged
Extension	90/110 mm
Steerer	28.6 mm
Barbore	31.8 mm
Angle	20° / 35°

LCSP-32 E-MTB

Material	3D Forged AL7050
Outer Diameter	30.9 / 31.6 mm
Length	386 / 435 mm
Travel	386 / 125 mm 435 / 150 mm
Insert Length	386 / 210 mm 435 / 235 mm
Offset	0 mm

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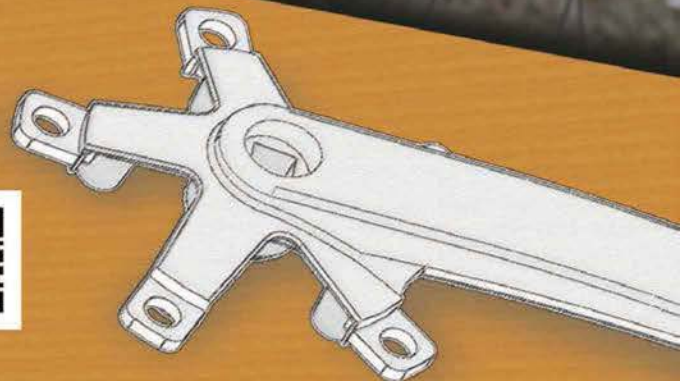
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E-mail: shun@s-shun.com www.s-shun.com





ACCORD

ACC-FAZ

- **Material:** AL 6061
- **Steerer:** 1-1/8" to 1.5" tapered
- **Seatpost:** 31.6mm
- **Disc brake:** Flat mount bracket
- **Motor system:** Fazua
- **Tire:** 700x32C
- **Rear axle:** 12 x 148mm



ACC-SSP

- **Material:** Carbon fiber
- **Routing:** Internal routing
- **Head tube:** 1-1/8" to 1-1/2"
- **Seat post:** 31.6mm
- **Size:** 47/49/51/54/57/60cm
- **Weight:** 1150+/-45g
for size 54cm
- **BB system:** BSA
- **Finish:** UD/3K



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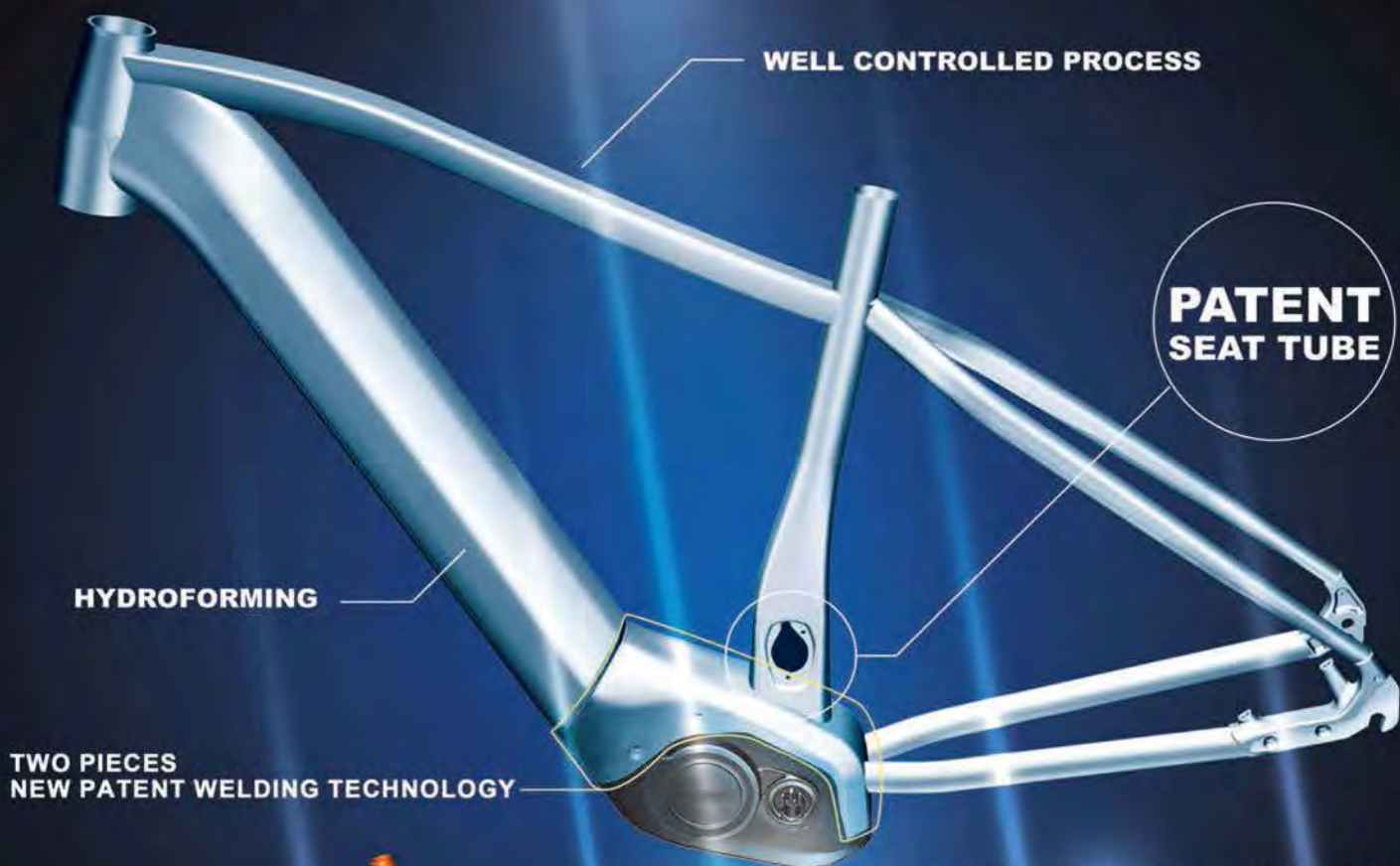
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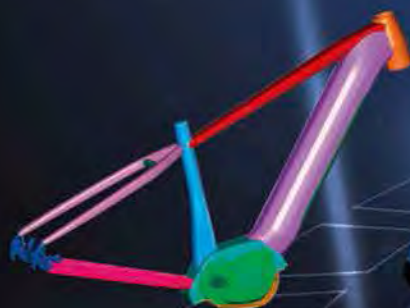


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SIZE 266 x 150 mm

D3053MF



D100602754

WEIGHT 585g
SIZE 270 x 188 mm

D3123MF



D100602756

WEIGHT 444g
SIZE 270 x 190 mm

D3153MF



D100602755

WEIGHT 421g
SIZE 281 x 172 mm

D3736MF




D100602757

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SIZE 274 x 144 mm

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Taiwan Factory

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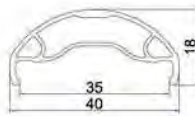
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Song Than Industrial Zone II
Tan Dong Hiep Commune,
Di An District, Binh Duong Province,
Vietnam Postal Code:824843
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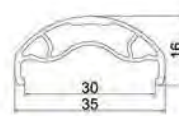
Size	Weight(g)	ERD(mm)
29"(622-35)	607	601
27.5"(584-35)	556	563
26"(559-35)	543	538

Holes: 32H/36H
Option:
Joint: Pinned



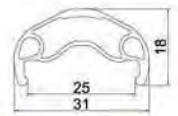
Size	Weight(g)	ERD(mm)
29"(622-30)	520	605
27.5"(584-30)	498	567
24"(507-30)	439	490
20"(406-30)	353	389

Holes: 32H/36H
Option:
Joint: Pinned



Size	Weight(g)	ERD(mm)
29"(622-25)	558	602
27.5"(584-25)	525	564
26"(559-25)	501	539
20"(406-25)	367	386

Holes: 28H/32H/36H
Option:
Joint: Pinned



Size	Weight(g)	ERD(mm)
26"(559-26)	603	533
24"(507-26)	540	481
20"(406-26)	439	380

Holes: 28H/32H/36H/48H
Option: Eyelets/GSW/CSW
Joint: Pinned



Size	Weight(g)	ERD(mm)
29"(622-19)	514	594
27.5"(584-19)	484	556
26"(559-19)	462	531

Holes: 24H/28H/32H/36H
Option: Eyelets
Joint: Pinned



Size	Weight(g)	ERD(mm)
700C(622-24)	553	600
27.5"(584-24)	516	562
26"(559-24)	495	537
24"(507-24)	449	485

Holes: 28H/32H/36H
Option: Eyelets/Double Eyelets
Joint: Pinned



Size	Weight(g)	ERD(mm)
29er/700C(622-19)	534	601
27.5"(584-19)	500	563
26"(559-19)	475	538
24"(507-19)	434	486
20"(406-19)	350	385

Holes: 28H/32H/36H
Option: Eyelets
Joint: Pinned



Size	Weight(g)	ERD(mm)
700C(622-24)	588	606
27.5"(584-24)	555	569
26"(559-24)	530	544
24"(507-24)	480	492
20"(406-24)	385	390
16"(305-24)	290	290

Holes: 28H/32H/36H/48H
Option: Eyelets/GSW/CSW
Joint: Pinned



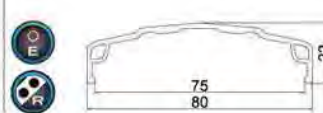
Size	Weight(g)	ERD(mm)
26"(559-24)	530	544
24"(507-24)	480	492
20"(406-24)	385	390
16"(305-24)	290	290

Holes: 20H/28H/32H/36H/48H
Option: Eyelets/GSW/CSW
Joint: Pinned



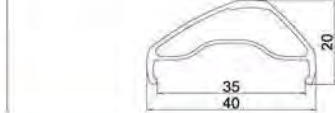
Size	Weight(g)	ERD(mm)
26"(559-75)	900	536
24"(507-75)	880	484
20"(406-75)	710	383

Holes: 32H/36H
Option: Eyelets/Reduce Weight Holes
Joint: Pinned



Size	Weight(g)	ERD(mm)
29"(622-35)	571	597
27.5"(584-35)	542	559

Holes: 32H
Option:
Joint: Sleeved



AS-T31



Size

Size	Weight(g)	ERD(mm)
700C(622-31)	615	587
27.5"(584-31)	597	549
26"(559-31)	561	524
24"(507-31)	500	472

Holes: 28H/32H/36H
Option: Eyelets
Joint: Sleeved



AS-T30



Size

Size	Weight(g)	ERD(mm)
29"(622-30)	529	597
27.5"(584-30)	486	559

Holes: 32H
Option:
Joint: Sleeved



AS-35P



Size

Size	Weight(g)	ERD(mm)
27.5"(584-35)	599	559

Holes: 32H
Option:
Joint: Pinned



AS-30P



Size

Size	Weight(g)	ERD(mm)
29"(622-30)	594	597
27.5"(584-30)	540	559

Holes: 32H
Option:
Joint: Pinned



AS-25P



Size

Size	Weight(g)	ERD(mm)
29"/700C(622-25)	518	601
27.5"(584-25)	492	563
26"(559-25)	466	538

Holes: 28H/32H/36H
Option: Eyelets
Joint: Pinned



A-325D




Size

Size	Weight(g)	ERD(mm)
700C(622-19)	590	579

Holes: 28H/32H
Option:
Joint: Pinned




A-320



Size

Size	Weight(g)	ERD(mm)
700C(622-19)	650	578
26"(559-19)	580	515
24"(507-19)	530	464
20"(406-19)	425	362

Holes: 28H/32H/36H
Option: GSW/CSW
Joint: Pinned



A-S300




Size

Size	Weight(g)	ERD(mm)
29"/700C(622-19)	630	579
27.5"(584-19)	600	541
26"(559-19)	570	516

Holes: 28H/32H/36H
Option: Eyelets/GSW/CSW
Joint: Sleeved



A-M4



Size

Size	Weight(g)	ERD(mm)
29er/700C(622-19)	545	596
26"(559-19)	495	533
24"(507-19)	445	481
20"(406-19)	360	380

Holes: 20H/24H/28H/32H/36H
Option: Eyelets/GSW/CSW
Joint: Pinned



A-M3



Size

Size	Weight(g)	ERD(mm)
700C(622-19)	585	588
26"(559-19)	525	526
24"(507-19)	475	474
22"(457-19)	440	424
20"(406-19)	385	372

Holes: 20H/24H/28H/32H/36H
Option: GSW/CSW
Joint: Pinned



MT-66



Size

Size	Weight(g)	ERD(mm)
29er/700C(622-23)	650	599
26"(559-23)	585	536

Holes: 32H/36H/48H
Option: Eyelets/GSW/CSW
Joint: Pinned



EMP-50



Size

Size	Weight(g)	ERD(mm)
20"(406-45)		16"(305-45)

Holes: 28H/32H/36H
Option:
Joint: Pinned



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PATENT DESIGN



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Differential Gear

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PATENT DESIGN

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E-Bikes a Smokin' Hot!

Analysis of major E-bike market in Europe and America



re

The value of the global e-bike market reached a new peak of 1.475 billion US dollars in 2018. It was also a milestone in the innovation of e-bike - the new e-bike motor ventures set a new record again. PERSISTENCE publishes a research report predicting that the e-bike market will grow to \$8.5 billion in 2025. Another market regulator - TECHNAVIO, expects the global e-bike market to grow at a CAGR of 23%, especially in North America. MARKETSSANDMARKET analyzes e-bike markets, evaluating e-bike related industries, including the battery industry (lithium battery, lithium ion polymer, lead-acid), the motor industry (center, drum), industry (pedal assist, power supply on-demand). Major regions (Asia Pacific, Europe, and North America) are predicted to have a compound annual growth rate of more than 9% by 2025 and will reach 3.86 billion US dollars by 2025.



In addition to the increasing consumer choices of e-bike for entertainment and adventure activities, the factors for the booming sales of e-bike are the traffic congestion due to rapid urbanization, as well as the growing awareness of environmental protection. E-bikes are also increasingly used in many areas such as logistics and e-bike rental services. Pedelec dominated the market, comprising 88.32% of the global market in 2018. E-city bikes still dominate the market. Analysts expect speedy pedelec to be

the fastest-growing e-bike in the market. When the speed reaches 45 km/h, the motor will stop supplying power. It will help e-bike replace cars to become the favorite mode of transportation for new generations.

Although most reports show that the Asia-Pacific region will dominate the e-bike market, upscale e-bikes are still the trend in Europe and the United States. The style and taste of European and American e-bikes still dominate the future design of e-bikes. Even

though “Made in Europe” is a desired feature, quality, stable production and delivery schedule are also provided by Taiwanese manufacturers. All manufacturers focus on the tastes of European and American consumers. In the Asia-Pacific region, mainland China have been the largest exporter of e-bikes in the world. However, since the US-China trade war and the EU anti-dumping tax began, the number of e-bikes exported to Europe and the United States has dropped substantially. However, benefiting from years of

E-bike Market-Growth Rate by Region (2019-2024)



Source: Mordor Intelligence



the motorcycle ban in China, a large number of inexpensive e-bikes have been sold in China increasing the sales in the global e-bike market.

Overview of European E-bike market

Europe is the major market for all the E-bike manufacturers in the world. According to the statistics of Eurostat, EU imported 1,157,613 E-bikes in 2018, an increase of 17.8% compared to the import of 982,922 units in

the previous year. Last year, the total value of imported e-bikes was close to 650 million Euros, an increase of 20.9% compared to the 2017 imports of 537.5 million Euros. The number of “Made in Europe” e-bike is increasing. The European-made e-bikes comprises more than 50% of the EU’s major imports. For two consecutive years, from 2017 to 2018, non-European-made e-bikes comprised 60% of the total imported e-bikes in Germany, the Netherlands and Belgium. The sales in Belgium, Germany, Italy and Spain all

grew by 30,000 e-bikes or more.

China is the largest supplier of e-bikes in the EU, accounting for more than 70% of the total imports of e-bikes. According to the EU’s imports registration for Chinese e-bikes issued



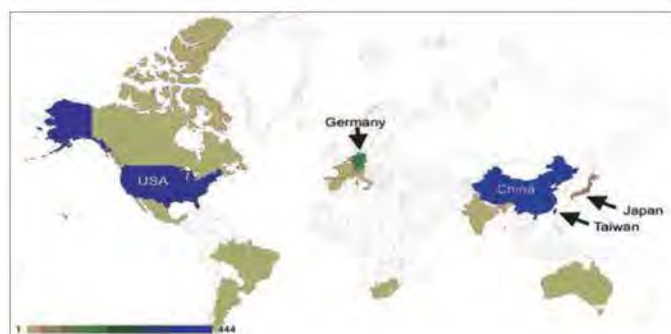
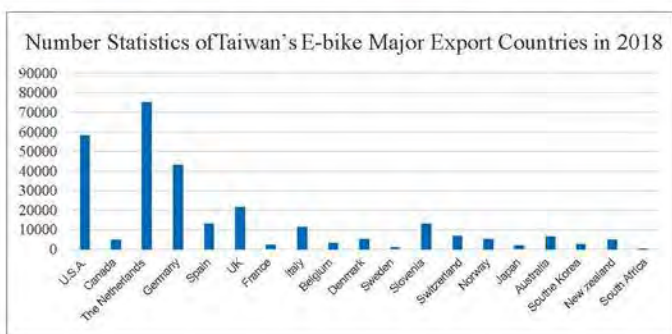
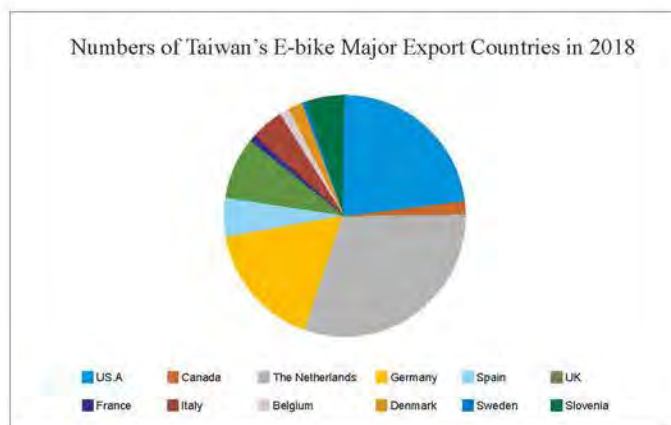
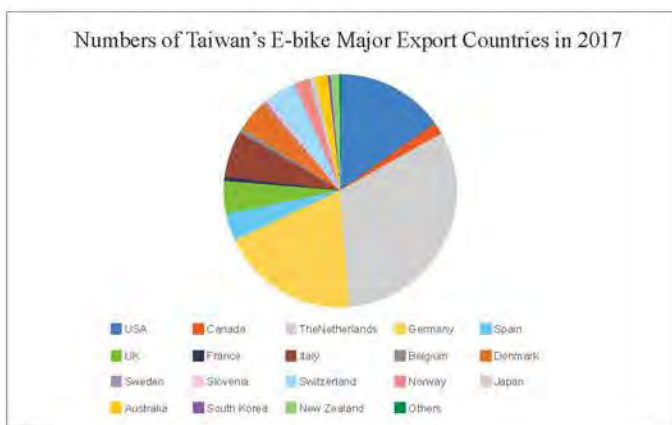
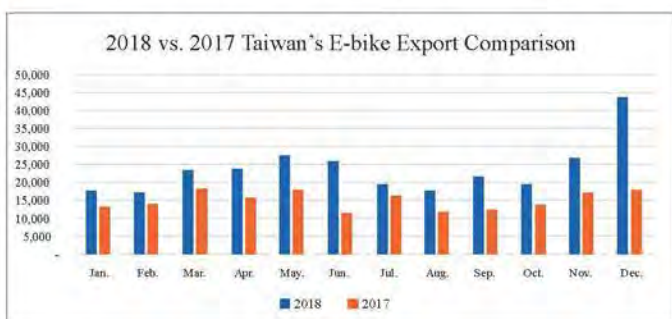


on May 3rd this year. Chinese e-bike factories and related enterprises will be taxed with 27.5% to 83.6% temporary anti-dumping duties from July 19th. In addition, as the US-China trade war escalated, the United States announced a list of further tariffs imposed on China, and proposed to implement a 10% tariff on imports on

about 200 billion US dollars' worth of goods from China. This latest list also covers the bicycle industry, which will reduce the supply of bicycles from China to the US and Europe. With the expectation of anti-dumping duties, the import of Chinese e-bike has been rising for four months since the second quarter of 2018. Following

would be imposed, the imports of e-bikes from China has continued to decrease. In order to achieve a balance between supply and demand, the EU will actively look for manufacturers in Europe and Asia.

Taiwan is EU's second biggest import source of e-bikes. At present, more than 70% Taiwan's e-bikes are exported to Europe. In 2018, the EU imported 214,008 e-bikes from Taiwan; an increase of nearly 70% compared with 2017. The number of Taiwanese sales to Europe was also stimulated by anti-dumping measures. Although the average unit price of Taiwan's e-bike is close to 1,000 Euro,





which is much higher than the average import price of 397 Euro for Chinese e-bikes and 484 Euro for the average unit price of e-bikes from Vietnam, it is expected that Taiwan's e-bikes will be in short supply. .

IBDs are the major access dominating e-bikes sales in Europe. The Eurobike theme has always been

bound with e-bikes in the past couple of years. E-bikes of every brand occupied the most eye-catching center in their booths. According to the European e-bike report released by MAXIMIZE, the European e-bike market is expected to grow at a compound annual growth rate of 18% between 2018 and 2026. It is expected that Germany, France and Italy will be the top three

in the European e-bike market. The e-bike report released by Technavio explains that the European e-bike market is emerging due to the rise of new business models, such as car sharing, resulting in a decline in car sales and an upswing of e-bike sales. Technavio senior analyst pointed out that the internet will lead and enhance the e-bike sharing service and become a part of the seamlessly integrated transportation service. The e-bike has been linked to the transportation system to become the last mile solution.

The European Cyclists Federation (ECF) estimated that the EU will sell at least 150 million e-bikes from 2019 to 2030. Kevin Mayne, CEO of European Bicycle Industry, said: "E-bikes are leading Europe to transform its transportation system and is also changing our industry. We are strengthening the role of the green economy every





day through high-quality work.... It is almost certain that traveling with e-bikes is replacing traveling by car.”

German Market

The statistics from the Zweirad-Industrie-Verband (ZIV) shows that the German e-bike share of the market

is nearly 35% in 2017. It grew by 36% in 2018. The annual sales of 980,000 e-bikes comprise 23.5% of the entire bicycle market; more than 90% of which are the e-bikes that run 25 kilometers per hour with an output of 250 watts; approximately 0.5% is high-speed pedelec. Germany is still the

largest importer of e-bikes from non-EU countries with a total imports volume of 293,138 units last year, which is 25% more than the 233,298 e-bikes imported in 2017.

ZIV predicts that e-bikes will comprise about 35% of the German bicycle market for the long term. The ZIV general manager believes that the e-bike industry’s innovation combined with excellent weather conditions make the e-bike market hot. The Technavio report pointed out that the German e-bike market is still dominating the European market in 2022 with approximately a 29% market share. The German-made e-bikes are extremely popular in Europe. In 2018, exports increased by 51% and the number exceeded 440,000 units. There are many reasons for the surge in e-bike sales





in Germany. Among them, innovation, integrated batteries and drives, aesthetic design, high-quality materials, and the popularization of electric modules, including electric models for youth cars and racing cars. In addition, large-scale logistics service have more and more e-cargobikes enhancing the landscape of the city. In 2018, the

German e-bike market share was the following: 36.5% for e-touring bike, 33% for e-city bike, 25% for e-mountain bike, 4% for e-road bikes, 0.5% for speed pedelec and 1% for others.

Taiwan exported nearly 43,000 e-bikes to Germany, comprising 5% of German e-bike imports. The aver-

age unit price was 1122.07 US dollars. Compared to 34,000 e-bikes in the same period of 2017; the sales volume increased by 24.2%, and the average unit price decreased by 21%.

British market

According to the customs trade statistics of the British Ministry of Fi-





nance, the number of imported bicycles in the UK in 2018 increased from 62,544 to 63,673 in the same period of 2017 with an increase of about 1.8%. Total sales were increased from 37.7 million pounds in 2017 to 41.4 million pounds with an increase of around 9.5%. The number of e-bikes entering the UK from the EU also increased significantly. Its sales share was increased from 44% to 51%. The number of imported e-bikes was increased from 62,544 to 63,673, an increase of

46% compared with the same period in 2017.

The main reason for the strong growth of imported e-bikes in the EU is that the number of Chinese-made e-bikes has been reduced by nearly 30% due to anti-dumping duties, from 32,160 units in 2017 to 23,008 units in 2018.

HMRC statistics shows that, although the number of e-bikes exported from the UK compared with the 1.8% increase in imported e-bikes in the

country is not large, it is significant. From 2017 to 2018, the number of exported e-bikes rose from 7,331 units to 9,464 units, an increase of 29%. Total sales increased from 3.9 million pounds to 6.35 million pounds, and total sales increased by 63%.

Taiwan exported more than 20,000 e-bikes to the UK in 2018 with an average unit price of 705.19 US dollars. Compared with 8,429 e-bikes in the same period of 2017, the sales





number increased by 147.92%, and the average unit price decreased by 47.82%.

Halfords UK expects to sell 1.5 million e-bikes in the UK by 2050, based on the company data, population, car registrations and recent data from the Society of Motor Manufacturers & Traders (SMMT). London, Liverpool, Belfast, Bristol and Birmingham are also considered as important e-bike battlefields.

The British government issued a report “The Road to Zero” in 2018. The goal is that 50% of new vehicles must be ultra-low carbon emission vehicles by year 2030, and most new vehicles sold by 2040 will be 100% zero

emissions. The UK government committed to providing nearly £1 billion to promote innovative clean energy projects including electric vehicle subsidies and speeding up the installation of charging facilities.

“C2w Support” developed by the UK government, have been helping employees buy bicycles and e-bikes for cycling to work. The scheme is to refund the tax that employees paid on purchasing bicycles. This tax subsidy has been in operation for more than 20 years. C2W Support recently announced that they have authorized third-party suppliers through the FCA (Financial Conduct Authority) to include e-bikes worth more than 1,000 pounds as a new bicycle provided by

employers. This would save approximately 25% to 39% of bicycle and accessory costs for employees.

Swedish Market

In Sweden, cold weather usually hurts bicycle sales. The hot and rainless super summer in 2018 caused the great sales of e-bikes in Sweden. In addition to the weather, the Swedish government’s additional subsidies for e-bikes have made e-bike sales number grow significantly exceeding 50%. According to the statistics of the Cykelbranschen (Swedish Industry Association), the total sales of e-bikes in Sweden exceeded 100,000 units from September 2017 to August 2018, with a market share of nearly 20%, which is calculated according





to the average price of 1,650 Euro of Swedish e-bikes. The overall market is between 180 million and 200 million Euro. In order to reduce the flow of cars, the Swedish government decided to invest 1 billion krona (97 million Euro) in subsidies, from 2018 to 2020, to provide 25% of the e-bike cost (up to 1000 Euro) for each citizen to purchase one e-bike. Such subsidies have encouraged other EU nations and become the EU's subsidy benchmark. They also indirectly contribute to the implementation of various e-bike incentives in countries such as Norway, France and the United Kingdom.

In Sweden, city bikes and standard bikes make up the lion's share of the

domestic bicycle market. However, the sales of e-bikes and mountain bikes continue to grow. In general, large channels such as IBD and BILTEMA stores are expanding and taking market share of over 80% while smaller stores' turnover declined slightly.

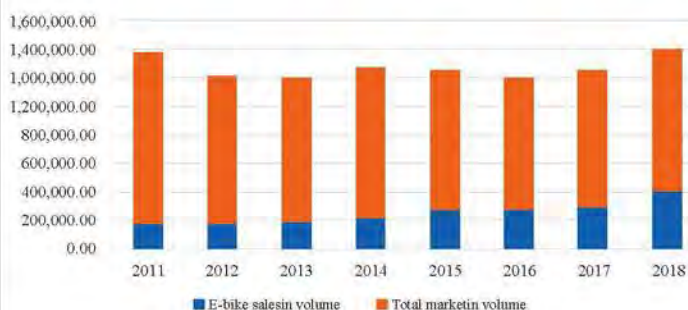
The government subsidy program also expedites the booming of the local industries. The biggest manufacturer Cycleurope of Sweden estimates that the annual production of e-bikes will be increased to 30,000 units in the next few years, accounting for more than one-third of the annual production capacity of the Varberg plant. In addition, local manufacturers such as Walleräng, Skeppshultcykeln and

Monark Exercise are also expanding the production capacity of e-bikes.

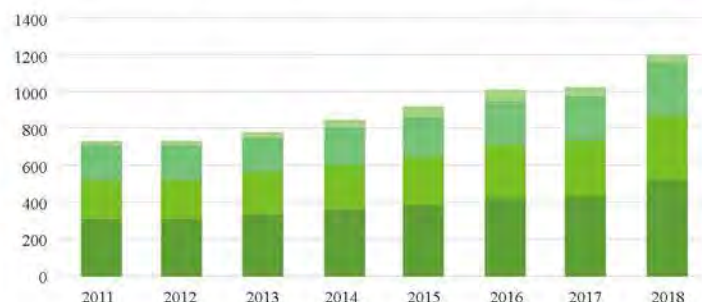
Dutch Market

Thanks to the e-bike, sales numbers showed positive growth for the first time in the past four years in the Netherlands. In 2018, the sales of e-bikes in the Netherlands increased by nearly 38% or nearly 404,400 units. The market share of e-bikes was boosted to 40% from 31%, and the total value increased by 5.7%, more than the proportion of traditional bicycles. In 2018, the Dutch e-bike category accounted for two-thirds of the total turnover of the bicycle market, and reached the amount of 823 million Euro. Among which, import from

Market Share E-Bikes in the Netherlands 2011-2018



Average Retail Price Dutch Market 2011-2018





non-EU countries were 215,455 units – not a significant difference in number compared to the previous year.

Bicycle Access – Dynamo Retail Group assert that although Dutch e-bike sales have been growing over years, there’s no sign that the market is saturated. The group surveyed 301 stores in the Netherlands and compared the 1st quarter of 2019 with the same period in 2018. The sales value of electric city bikes for the first quarter of 2019 grew by 43.7%; electric travel bikes grew by 34.4%. Even traditional bicycles such as city bikes and

road bikes had a fairly good growth rate of 6.4% and 13%.

Wouter Jager, Retail Director of Accell Group, expect that sales of e-bikes will continue to grow because of the rise of environmental awareness and elderly Dutch people’s enthusiasm for e-bikes for commuting once they had experience with them. Due to the popularity of e-bikes, the average purchase price of new e-bikes has risen to 1,207 Euro in 2018, an increase of 18% compared to the previous year. The average retail price in 2011 was only 734 Euro. Although IBDs are still

the main sales channel (comprising 76% of bicycle and e-bike sales in the Netherlands), the sales of online stores are increasing gradually year by year.

In 2018, Taiwan exported more than 76,000 e-bikes to the Netherlands, with the average unit price of 1,342.74 US dollars. Compared with 56,000 units in 2017, the sales number increased by 33.85%, and the average unit price increased by 11.8%.

French market

According to statistics from the French Bicycle Observatory, French





e-bikes comprised 13% of the total market of 2.7 million units in 2018. Compared with the same period in 2017, e-bike sales increased by 21% and sales numbers reached 338,000 units. 60% of them were city bikes. Although the number of units comprise 13% of sales, the value of those sales in dollar terms is 40% of the bicycle market. In 2018, the average retail price increased slightly by 0.5% to 1,585 Euros. Total sales value is 535 million Euros, comprising over 40% of the total value of the bicycle market. The average retail price of bicycles and e-bikes is 493 Euros, an increase of 7.4% over the previous year. The main reason for the increase average price is the high value of e-bikes. This also encouraged French manufacturers and retailers to develop e-bikes more systematically. Among French e-bikes, France imported 77,089 units from non-EU countries in 2018, an

increase of 38% compared to 55,879 units imported in 2017. The increase in imports benefitted chiefly from the subsidy policy proposed by the French government to stimulate the sales of e-bikes. In addition, the total imports value of e-bikes in France increased by 73%.

The earliest popular e-bikes in France were e-MTB which changed the mountain bike riding style completely. Now the electric wave is surging forward to the cities. The European anti-dumping laws passed in the summer of 2018 have decimated the imports of Chinese e-bikes. French brands of e-bike are booming. Federico Musi, CEO of French manufacturer LOOK said that LOOK launched its first e-bikes in the spring. They focus on making the price of e-bikes four and a half times that of traditional bicycles.

Didier Faibis, store manager of Altermove in Saint-Mandé, said, "For European brand sellers, it is a great service to provide customers with guaranteed after-sales service and spare parts. It is pointless if the sale is unmaintainable or repairable." The price of an e-bike averages out at 1,585 Euro, which is much higher than the average price of 337 Euro of a traditional bicycle. However some municipalities provide subsidies to promote this new environmentally friendly transportation. The price will be more acceptable for customers.

According to a survey by Inddigo, 70% of French people who buy e-bikes have given up their cars for travelling between home and work. This amazing sales result is credited to the French central government's subsidy of 50 million Euro (200 Euro for each e-bike). Nevertheless, the subsidy





budget decreased to 5 million Euro in 2018, restricted to families who failed to meet a minimum income level. According to Le Parisien newspaper, e-bikes will sell 1 million units a year in France by 2025, which will radically change the look of the city center.

Swiss market

The Swiss e-bike maker Stromer's slogan "Made in Europe" is a typical example of a trend in e-bike manufacturing. Stromer moved all the assembly lines from Asia back to Oberwangen in the suburbs of Bern, Switzerland, at the end of April this year, even though the hourly labor cost of assembly in Taiwan of 15 Swiss francs is less than half of the 35 Swiss francs in Switzerland. Since the assembly cost of the bicycle is only 1/10 of the total cost, future production locations will be closer to the sales market, providing easier access to components. Time difference issues are easily resolved and product specifications can be adjusted in

less time. Since Stromer started business in 2009, it finally turned a profit for the first time in 2018. CEO Jakob Luksch emphasized that Stromer is making efforts to become permanently profitable. At present, Stromer has 80 employees in Oberwangen, 25 of them work for the assembly lines, with a daily capacity of about 60 units.

Taiwan exported 6,804 e-bikes to Switzerland in 2018, with an average unit price of 1,947.77 US dollars. Compared with 8,035 units in the same period of 2017, the sales number decreased by 15.32%, and the average unit price decreased by 1.15%.

Italian market

The size of the e-bike market expanded by 16.8% to 173,000 units in 2018. Imports from non-EU countries increased sharply to 118,683 e-bikes,

an increase of more than 90%. The total value also increased by 37%.

"In the sharing economy, the success of two-wheeled mobile solutions does not stop Italians from buying bicycles." Confindustria ANCMA president Andrea Dell'Orto said while introducing 2018 market statistics. "Approximately 1,595,000 bicycles and e-bikes were sold in 2018, a decrease of 5.5% compared to 2017." The overall decline in market sales only involved sales of regular bicycles, with a decrease of 7.6%. Confindustria ANCMA is the National Association of Bicycles, Motorcycles and Accessories Industry of Italy, and sales of e-bikes have grown up to two digits. The production of e-bikes has also increased significantly.

According to the report from ANCMA, "The production of e-bikes





in Italy has soared 290% to 102,000 units. This is the result of the EU's anti-dumping duties levied on Chinese-made e-bikes." The total production of bicycles and e-bikes remained basically unchanged in 2018. It is 2,445,000 units. The growth in Italian e-bike production is also reflected in export statistics. The export value of e-bikes increased to 42 million Euro in 2018, an increase of 300% over 2017.

Taiwan exported more than 11,000 e-bikes to Italy, with an average unit price of 1,805.03 US dollars. Sales increased by 2.18% compared with the same period in 2017. The average unit price decreased by 4.9%.

Belgium

The biggest bicycle show in Belgium, Velofollies, found that the

Belgians have embraced e-bikes. Since the government reduced taxes, 252,000 e-bikes were sold in Belgium in 2018, a growth of 14% over the previous year. The e-bike market share is close to 50%. Women bicycle owners account for more than 65% of the Belgian market. The average retail price of e-bikes continues to rise: from an average sales price of 2,325 Euro in



2017 to 2,370 Euro in 2018. Imports from non-EU countries fell sharply to 150,000 units, a decrease of nearly 20%.

E-bike sales, competition categories, rentals and exhibitions have become important stages for European cycling events. It is hard for other

countries to understand that commuting to work by bicycle is not just a common sight in Europe, but is imbued with a unique European cultural flavor. A big incentive for the physically challenged European, or those just simply wishing to indulge in some leisurely exercise is the ease with which one can take up e-biking. Very little to

no practice is needed. The YouGov - Shimano STEPS study shows that throughout Europe, the main reasons for considering commuting to work by e-bikes are "maintaining health" (34%), "protecting the environment" (30%) and "saving money" (30%). Taiwan exported more than 3,000 e-bikes to Belgium in 2018, with an





average unit price of 1309.42 US dollars. Compared with the sales number in 2017, it has more than quadrupled. The average unit price has decreased by 25.1%.

Spanish Market

In 2018, Spain imported 119,519 units from non-EU countries, almost three times the number of 2017 imports of 41,163 units. However, the

import of e-bikes in April last year exceeded 85,000 units. Possibly the main reason for the increase was that importers wanted to seize the last opportunity to import e-bikes from China and avoid soon to be imposed additional tariffs. The total import value of e-bikes in Spain was 25 million Euro in 2018, which was only 9.3% higher than the import value of 23 million Euro in 2017. The average unit price

of Spanish e-bikes last year was only 211.34 Euro, far lower than the EU average price of 561 Euro.

A Spanish YouGov study of 14,606 adult respondents, concluded that 39% of the 46.5 million Spanish people are willing to ride e-bikes to work. The results of this study suggest that the Spanish e-bike market will soar in the next few years, especially





considering that the total sales of e-bikes in Spain are currently way behind other EU countries, such as Germany and the Netherlands. There were only 40,000 e-bikes sold at the end of 2016, and an estimated 100,000 units sold in 2018. In the next three to five years, this number will be doubled. Similarly, the e-bike market is on the rise in Italy. According to the industry association ANCMA of Italy, there

were 155,000 e-bikes sold in Italy in 2017. Shimano STEPS study shows that, 33% of the population are willing to ride e-bikes to work.

North American e-bike market

In the United States, the IBD e-bike sales are much lower than in Europe. Although many famous brands provide good quality products, many

experts speculate that the acceptance of e-bikes is not as entrenched as that of traditional bicycles. Is this the reality?

A famous brand like Trek currently only retains their own e-bike products in Europe. As John Burke, CEO of Trek Bicycle Corp, said in his open letter to the bicycle business in February this year: "America is just at the





beginning of its e-bike revolution. According to NPD data, e-bike sales were up 79% in 2018. ...In good retailers in the U.S., e-bikes now represent more than 10% of total sales. We could be looking at a business in the near future where e-bikes represent 30% or more of sales. It is safe to say that e-bikes could represent a greater growth opportunity than mountain bikes did in the late 80s and early 90s or carbon road bikes in the early 2000s."

At the Chicago E-Bike Summit, sponsored by BPSA and PeopleForBikes in February this year, the retail data (capture) experts at the NPD Group estimated e-bikes as a \$143 million market in 2018. This estimate is consistent with BPSA's sales data. Actually the BPSA / NPD numbers only reflect a part of e-bikes sold.

US market research firm NPD Group's estimates, plus the sales from other retail organizations, indicate

that sales of e-bikes were up by 79% and sales are 8 times what they were in 2014. In 2018, the size of the US e-bike market increased from US\$190 million in 2014 to US\$340 million, and will reach US\$2.06 billion in 2025. The compound annual growth rate between 2019 and 2025 is predicted to be 29.19%.

The statistics of EBD (the retail organizations selling e-bikes) and





EIBD (retailers may be selling some non-IBD brands) are not in the range of traditional statistics. A former IBD retailer, the current light e-bike association founder Ed Benjamin said the definition of the e-bike category is vague and cannot be correctly counted. Therefore, search the US customs bill of lading records. In addition to the reference of a precise HS code for e-bike, there are about 30 similar product codes compared to import records. NPD extrapolates from the POS system in a select number of well-established and major bicycle shops and

other retailers. Therefore, it is heavily slanted towards the brands. However, there are currently 120 to 150 active brands promoting and selling e-bikes in the USA (about 70 to 75% of the market). These participants include established IBD, major EBD brands and bicycle share brands such as Pedego, Radsport and Stromer. (including Jump Bike), and startups, usually sold consumer-direct, these sales changes are almost out of BPSA statistics.

At the BPSA / PeopleForBikes E-Bike Summit in February, a data

(capture) report from NPD showed the leading brands of EIBD as Trek, Specialized, Electra, Raleigh and Giant, in that order. It is a major shift from 2015, when the leaders were Stromer, Raleigh, Specialized, Haibike and Trek. Obviously, the acceptance of products in the US market is still unsettled and constantly changing. In terms of access, the EIBD and EBD markets are roughly the same in size. For the booming e-bike market, traditional shopping venues such as Wal-Mart and those of large sports brands are relatively small players in the





e-bike field, which provides opportunities for general brick-and-mortar retailers. In non-IBD, for example, Rad Power is entirely consumer-direct. Another brand Pedego came from the auto industry, and brought that model of selling cars to the e-bike industry. In exchange for that exclusivity, Pedego retailers have a protected-by-contract exclusive sales area and enjoy sales support from what IBD brands tradi-

tionally provide.

In summary, the sales of e-bikes in North America in recent years are far fewer than those in Europe. Moreover, customers do not follow traditional purchase channels so new business models have the opportunity to test this emerging market. At present, Taiwan's e-bike exports to North America exceed 20%. In 2018 compared with

2017, exports increased by 108.91%. It is expected that the acceptance of e-bikes in the North American market will increase.

Asia-Pacific e-bikes are still export-oriented

The Asia Pacific region has a couple of the fastest growing economies in the world and has adopted regulatory actions to attract equipment man-





ufacturers to produce e-bikes in these countries. For example, the Indian government announced “Fast Adoption and Manufacturing of Hybrid Power and E-Bike Projects” (FAME). Production of every e-bike will receive a subsidy of 22,000 rupees. Local governments in Taiwan also provided an average subsidy of TWD\$20,000 towards the purchase of an e-bike. The leaders of original equipment manufacturers have already established a complete industrial cluster in the Asia Pacific region to meet the growing demands for bicycles and e-bikes, especially in Taiwan. In 2018, Taiwan exported 286,000 e-bikes worldwide, including more than 200,000 units to

Europe, which is nearly three-quarters of the export market. The average unit price of each e-bike is approximately 1,300 US dollars.

Trend in the Future

Taiwanese manufacturers have a very good industrial base, and the challenge of shifting from the bicycle industry to the e-bike is easier than for other unrelated industries who are attempting the same shift. But it is easy to fall back into the traditional bicycle sales and manufacturing.

Facing key issues such as “Made in Europe”, “China-US Trade War” and “Anti-dumping Duties”, several major trends should be considered:

1. Alliances with local business firms help solve the problem of insufficient awareness in the local market.
2. It is important to set-up shipping warehouses and adjust delivery lead-time: Shorten delivery times and provide shipping flexibility.
3. Introducing more advanced technical processes and environmentally friendly materials will meet aerospace standards, auto standards and EU standards as product selling points.
4. Trying new business models to develop new markets-for example, setting up direct-to-consumer sales and after-sales service networks-make local operations more straightforward. ○



INTRODUCING CADEX, AN ALL-NEW BRAND OF ULTRA-PERFORMANCE CYCLING COMPONENTS

Developed in partnership with world-class pro racers, this new line of premium cycling products includes WheelSystems, tires and saddles



Following a multi-year development phase, which brought together engineers, biomechanics experts, professional race teams and athletes to rethink the possibilities of high-performance cycling products, CADEX components are coming to market. A limited collection of new CADEX products was unveiled on July 4, at a global launch ahead of the 2019 Tour de France.

The CADEX project began in 2016 as an ambitious attempt to develop superior cycling components for pro racers. The brand name stems from a “moonshot” project by Giant in 1985 that pioneered the application of carbon fiber material for bicycles. Decades later, CADEX has been reimaged as a new category of cutting-edge components.

To kick off the project, a team of engineers, biomechanics experts, pro athletes including WorldTour squads racing the Tour de France, world championships and major one-day classics, along with pro Ironman triathletes was assembled. Their mission focused on three key objectives: advance the research of the bike and rider in motion; explore the next generation of material technologies; and invest in breakthrough

production processes.

This project, and the prototype components that were developed, tested and raced at the pro level over the past two years, was labeled #overachieve. Under the #overachieve umbrella, new WheelSystems, saddles and tires have been created, tested and ridden by pro athletes including Olympic champion Greg Van Avermaet of CCC Team, Australian Ironman pros Tim Van Berkel and Sam Appleton, and road racers from the CCC-Liv Team including three-time road world champion Marianne Vos.

“The CADEX staff has been very open to our feedback and suggestions,” said Van Avermaet. “Since our first CCC Team training camps in the winter through the spring classics and now the Tour de France, we have worked together to develop and refine these products to perform the way we need them to under the most demanding training and racing conditions.”

Jeff Schneider, head of product and marketing for CADEX, said working with pro teams and racers has played an integral role in the development process.

“We’ve been fortunate to have valuable insights from top pro athletes, along with their mechanics and technical staffs, from the very beginning of this project,” said Schneider. “We started by rethinking everything, finding new ways to research how components like wheels, saddles and tires could be radically improved with new materials and production techniques. From there we put prototypes to the test in the lab and under demanding training and racing conditions.”

The debut lineup of CADEX components includes new WheelSystems, tires and saddles. These new components are available for aftermarket starting later in September and will also be specified on a limited number of premium 2020 Giant and Liv bike models. ○





SELECTING THE PERFECT DROPPER FOR YOUR RIDING

Choosing the proper equipment is critical in every aspect of cycling and this could not be more true when it comes to choosing a dropper seatpost.

Droppers are a relatively new category of bicycle equipment but they have fast become must-have gear to enhance all types of offroad riding and even some gravel and road riding as well. In this article we will review some of the important things to keep in mind when choosing a dropper post.

CATEGORY

When choosing a dropper, it is important to decide what your primary riding category will be for it. Droppers generally are not transferred from bike to bike except when upgrading parts so one good clue to help determine your riding category will be to look at the intended use of the bike on which it will be installed. Is your bike a mountain bike with 150mm or more of suspension travel? This would call for a dropper suitable for Enduro and All Mountain riding such as KS's





LEV Integra. Is your bike a hard tail with a steel frame? You will likely need a shorter travel dropper, possibly in 27.2mm diameter like KS's LEV 272. Is your bike built for gravel or bike packing? You may want an ultra-short travel lightweight model like the 65mm LEV Carbon.

COMPATIBILITY

Droppers all fit inside the bike frame's seat tube but beyond that, there are several factors to consider to determine which dropper will be most compatible with your bike frame. Most modern dropper posts are designed for internal cable routing with a cable actuated remote mounted at the handlebar. If your frame does not have internal cable routing, some models offer externally routed cables. A dropper post needs a certain amount of the seat tube to be straight as the portion of the dropper that inserts into the frame can be relatively long. Ensure your frame has enough straight section of seat tube and consider a dropper with a short total insertion length. All KS models feature a minimum amount of insertion length compared to most other brands. Additionally, droppers are made to fit a variety of seat tube diameters, typically from 27.2mm, 30.9mm, 31.6mm and 34.9mm. KS offers droppers to fit all these common seat tube diameters.

TRAVEL & MAXIMUM RIDE HEIGHT

The next area to consider is your natural ride height. This would be equivalent to your saddle height with a conventional (non-dropper) seatpost. You should choose a dropper that offers the maximum amount of travel you desire yet allows you to achieve your ideal maximum ride height. For example, if your maximum ride height only leaves 100mm of seatpost exposed out of the frame, you will likely not be able to fit a dropper with 175mm of travel. KS droppers are available in several models and travels from 50mm to 200mm with numerous travel options in between.

REMOTE

There are several styles of remotes available and the choice for type of remote largely depends on personal preference and budget. Most modern mountain bikes utilize 1x drivetrains which means there is space on the handlebar where the front shift lever used to be to accommodate a dropper remote without creating additional clutter to your bike controls. Underbar remotes such as KS's Southpaw series are available in stand-alone clamps but are also available to fit SRAM Matchmaker and Shimano I-Spec fittings. The Southpaw series comes in

carbon and alloy variants to fit budgets of all types. For an even more economical solution, KS offers the Westy which is a full alloy underbar remote designed to perform reliably yet not be too expensive.

WEIGHT vs. DURABILITY

Within each category and budget for droppers, there are often multiple models to choose from. Typically less expensive droppers are less reliable and heavier while more expensive droppers are lighter weight, more reliable and more serviceable for longer overall lifespan. Some models offer great value at either end of the price spectrum such as KS's Rage-i. The Rage-i has a style, weight and features on par with droppers twice the price while the KS LEV-Ci offers the most premium materials and construction using carbon fiber and titanium components throughout.

PRO TIPS & ADVICE

After considering all of the above factors, the best way to get the most from your dropper is to have it installed and regularly maintained by a qualified and authorized bicycle mechanic. KS has authorized distributors and service centers in over 45 countries and regions worldwide with hundreds of dealers who are authorized to sell and install KS products. ○

DESIGN MEETS HERITAGE

eONE-SIXTY



The last three years have been an exciting time for MERIDA and in particular for the performance e-bike range, as the eONE-SIXTY dominated the test and review world and also collected a fair few rewards along the way. However, all good things have to come to an end. So, the time has come to say goodbye to the 'old' eONE-SIXTY and welcome its successor - the eONE-SIXTY. That is actually

not the complete truth, but we will go into that later on.

The new eONE-SIXTY is a complete overhaul of its predecessor, incorporating the latest standards, like the neatly integrated internal battery, introducing a long list of new and exciting features yet maintaining and even improving on the unparalleled and often highly praised riding characteristics of the 'original' eONE-SIXTY. Our e-enduro bike offers proven in-build shuttle service (courtesy of the

Shimano E8000 power unit), and due to the perfectly tuned MTB geometry and low centre of gravity, it offers agile handling performance as you would normally only expect from a non-assisted bike.

The heart of the bike is the new carbon frame. Carbon was chosen to give the new eONE-SIXTY a super stiff and robust frame, without adding any weight to the overall construction. The large battery opening offers a real challenge when it comes to maintaining



frame stiffness, but the use of carbon and specific layering have managed to keep the stiffness while even reducing weight in comparison to its predecessor. Besides that, the material offers real design freedom, which clearly shows in the striking appearance of the bike.

However, carbon is not a great thermal conductor, which needed to be considered in the design process. To guarantee the optimum operating temperature of the battery, we have developed our THERMO GATE,

which works like a chimney and allows the warm air to dissipate through the openings near the head tube. This enables the battery to perform at its best, in any condition.

A further challenge with integrating the battery into the main frame is the accessibility of the power unit for transport, external charging or to replace it with a new/full battery. We have put lots of effort into our two-component battery cover, the ENERGY GUARD, making sure that it protects the battery,

keeps things nice and quiet and also offers super-fast and easy yet secure access to the battery when for example a sway is needed. Its tight fit makes it completely rattle proof, and Shimano's two-lock mechanism (Allen key, followed by pressing of a release button) prevents accidental battery release while making the removal fast and straightforward.

With regards to the power units, the eONE-SIXTY comes with the trusted E8000 motor from Shimano STePS



and offers up to 70 Nm of natural and intuitive power delivery and features a super compact Shimano 8035 battery with 504 Wh. The battery (or rather a 2nd one) can easily be transported in a 15l backpack, giving the eONE-SIXTY impressive reach for longer tours or more runs.

One of the strongest attributes of the 'original' eONE-SIXTY and often praised by the riders and the cycling press, has been the well-rounded geometry. The essence of its playful, yet stable handling was certainly something we wanted to keep in the new version of

the bike while adding further improvements to take it to the next level. The new eONE-SIXTY is standing on two different wheel sizes: a 29" (2.5" wide) wheel at the front for improved 'rolling over obstacles' behaviour and precise steering and a 27.5" (2.6" wide) at the rear for maximum traction and comfort and a playful/agile character (due to the shorter 27.5" wheels chainstays). Further to that, we have slackened the head angle to 65.5° and lowered the bottom bracket for even better control at high speed. The original eONE-SIXTY was optimised for 175mm cranks. However, the new bike is designed for

165mm cranks allowing us to lower the bottom bracket even further. To optimise the climbing performance, we also slightly steepened the seat angle by.

To keep things quiet and organised, the eONE-SIXTY has internal cable routing throughout with the additional new feature of an internal clamp in the inside of the downtube. This clamp also provides a fixing position for a water bottle cage. The new frame has space for a 0.75l bottle to be fitted into all sizes, and space for even bigger bottles in the L and XL frame. Five sizes are on offer to allow all riders to find the perfect fit. We



also managed to create plenty of dropper post insertion depth, so that a size M frame can be equipped with a 150mm and an L as well as XL frame even with a 170mm dropper post. Boost standard for increased stiffness is standard on all models which also helped to create plenty of tyre clearance in case riders want to 'beef' up on their rubber. Finally, a feature introduced in our high-end XC bikes finds its way back onto our eONE-SIXTY. To prevent the fork from damaging the down tube, in case of a crash or an extreme turning angle, we have added an internal block system into the 1.5" head tube, that prevents the fork

crown from hitting the down tube.

The eONE-SIXTY carbon is available in 4 different specification levels, from the Shimano XTR and Fox factory equipped top model, the 10k, via the 9000 and 8000 all the way through to the more wallet-friendly 5000 bike. All four models feature the same frame, motor and battery. Prices will vary from below € 5 to below € 10k. Please check the details with your national distributor.

Going back to our statement of saying goodbye to the 'original' eONE-SIXTY. For all fans of the

aluminium version, and to be able to offer more affordable versions of the eONE-SIXTY platform, we are happy to announce that two models of the aluminium eONE-SIXTY with semi-integrated battery will remain in the range in form of the eONE-SIXTY 800 SE and eONE-SIXTY 500 SE.

And finally, as with all our e-bikes, the eONE-SIXTY, and all its components have been tested, and certified to an increased system weight of 140kg, assuring the rider that the bike has been pushed well beyond the legal requirements.○

FPD

FUTURE PRODUCT DESIGN®



Leading the industry Moving Onward Eastern European market

FPD sets up Delivery Warehouse in Bulgaria

The delivery warehouse in Eastern Europe is the idea that Frank Zhao, the Deputy General Manager of FASTEN PRODUCT (FPD), had in 2015 Taichung Bike Week. Because FPD has been deeply involved in the Eastern European market and is trusted by local customers, FPD resolutely moved pivoted toward the Eastern European bicycle market. FPD fired the first shot in the Eastern European bicycle market.

Being Close to Customers, Providing instant services

In order to be closer to the needs of European customers and provide more immediate customer services, Frank conducted a survey of appropriate locations of the Eastern European market, and decided to set up the FPD's Eastern European delivery warehouse in Sofia - the capital city of Bulgaria. Next, FPD will launch its own "Made in Europe" brand and establish a strategic principle of

adjusting domestic market supply and demand from domestic demand in the European market. Although FPD has many options for setting up delivery warehouses in Eastern Europe, including popular locations such as Poland, Hungary, Slovakia, Romania and other countries, were in the list of original considerations, In the end, he chose to settle down in Bulgaria. One of the reason is FPD has good customer who had long and excellent relationship in Bulgaria. Bulgaria's strategic location and excellent transportation links to

major European cities make it an ideal place to set up a delivery hub. Furthermore, Bulgaria enjoys a stable political environment and boasts highly qualified workforce. And of course being a member of the EU, Bulgaria benefits from duty-free exports to neighboring countries.

Localized manufacturing offers “Made in Europe” goods

FPD will use local Bulgarian residents to fill management and sales positions in the delivery warehouse. Frank asserts that this move fully demonstrates FPD’s commitment to expanding the local bicycle market in the long term. It would be a better management for an international firm employing local residents who would naturally be more familiar with the business practices and needs of the regional market could accelerate FPD’s adaptation and assimilation. FPD’s delivery warehouse has been established for more than half year – its program is on the right track as expected and will be operational in a short time. FPD can not only instantly collect immediate feedback from local customers, but also nearby small-medium-sized customers would be willing to use FPD’s products. Frank said, “Made in Europe” is the major trend of the bicycle market. FPD’s delivery warehouse here is only the first step towards “Made in Europe”. After accumulating enough demands from the local customers, they will be considering setting up a factory in Europe in the future to increase the flexibility of developing products. Relatively, it will improve customer satisfaction and dependence on products. Despite the difficulties of being a pioneer in the Eastern European market, Frank insisted that FPD should set-up a warehouse in the Eastern



Europe under the influence of multi international political competitions. Start from “PEDAL” as its main product to enable their long-term efforts to be rooted in the local area and growing healthily. An online shopping platform will be set up to provide customers with a more convenient way to purchase in the future.

Transferred to Europe, creating a new own brand

Although FPD is a well-known brand in the OEM market, consumers still have the myth of pursuing name brand. Therefore, setting up a delivery warehouse in Bulgaria is the first step for FPD to promote its own brand towards “Made in Europe”. From brands OEM to having own brands, the roles of product development, positioning, and production lines are all different from the original OEM role. Frank said that FPD wants to promote its own brand. First of all, he needs to stand on the front line of the sales department to understand the customer demand on products and purchasing habits, then directly send the feedback to the production to adjust the status of the products in time, responding to customer and

market demands. The entire industry environment is consumer-oriented at this stage. With respect to consumers’ high acceptance of internet shopping, and the normal psychology of being impatient, FPD will set up a B2C online shopping platform this year that will allow shoppers or consumers to purchase FPD products more quickly and conveniently. Frank said humbly, FPD is still continually working on the direct communication of customers. In addition, he emphasizes that the priority for setting up the delivery warehouse in Bulgaria is for the Eastern European market, so that it will not crowd out the orders from the original orders of the Asian region. It has opened up FPD to more market opportunities as well as the industry vision since the Bulgarian warehouse set up.





Proximity to the pulse of the European Market means Instant Service for Customers

Why choose to set a delivery warehouse in Bulgaria? Frank says, it is to be closer to the pulse of the European customer market in order to improve service quality. Compared to other bicycle manufacturers who are still located in Asia, FPD certainly put European customers' minds at ease. Bulgaria is located in the Balkans. The population is about 7.1 million with fairly high labor force quality. The bicycle assembly industry is developed. Small and medium-sized bicycle companies are everywhere in the country. The local bicycle manufacturers combined with Taiwan component manufacturing technology, has been one of the main channels for exporting to European countries. In addition, since Bulgaria joined the European Union in 2007, it benefits from duty-free exports to other EU member states. Based on these factors, Frank is more determined to set-up the European delivery warehouse here. Bulgaria is bordered by Greece, Turkey and other countries. Due to the developed of bicycle industry chain in Bulgaria, many orders from the Western European bicycle market will be placed to Bulgaria. Taiwan has been the top ten importer of Bulgarian bicycles for many years. Bicycle tires

and components made in Taiwan, are quite popular in Bulgaria, and, is the blue ocean strategy that Taiwan bicycle manufacturers are actively rushing into.

Product quality reaches the automotive industry standard The Ace in hand appears in Zhangpu county, Fujian

Quality, has always been the core value of Taiwan's bicycle industry, and it is a fine tradition that FPD is proud of. FPD set-up the facility at "Zhangpu Bicycle Industrial Park in Fujian" in 2014, including operating of the Heat Treatment Division in 2015. The Heat Treatment Division of Zhangpu Plant has also obtained ISO/TS-16949 certification. The relevant quality process technology has also been extended to all the factories in FPD. The high-quality heat treatment technology is an important ace of FPD in the competition.

FPD's heat treatment technology adopts a high-standard continuous carburizing furnace and is equipped with complete inspection instruments and related equipment. The entire heat treatment production process has its own complete and rigorous standard process, product history, production

condition parameters, etc. Also passed ISO/TS-16949 certification (the rules are stricter and more complicated than ISO9001 certification), the specifications have reached the quality requirements of the automotive industry processing process. It mainly supplies heat treatment processing business for customers such as bottom bracket, brake coaster hub, forging and the well-known Japanese brand chain and automobile screws.

The current global market layout of FPD is based on the European market, US market and Japanese market. Due to the strict quality requirements from customers, they improved process automation and integrated-manufacturing by creating smart factories, automated machines, integrated machines, and smart transiting, to optimize production cost. Replace production equipment with new ones, and invest in different processing equipment, to reduce process tolerance and improve quality. In this way, starting from the establish-



ment of the warehouse in Bulgaria, FPD is gradually solving the problems of small order customers and rush orders large customers. In this kind of strict quality control, more and more customers trust and choose FPD.

Conclusion

From the bicycle head parts, bottom bracket assembly and even the famous pedals, FPD did not quit any battle. Frank Zhao, the Deputy General Manager of FPD, hopes to work steadily, step into other products in the future while respecting all production technology, costs and process specifications, to create high-end components synonymous with FPD. For the future of the bicycle market, Frank Zhao said confidently that he is optimistic about the Japan, middle Eastern and European market. FPD will lay out emerging markets such as Russia and Central/South America.

FPD has come all the way from Asian OEM to European manufacturing, from OEM to its own brand, has been adhering to the sincere service attitude of stable quality, punctual delivery, continuous product innovation, and



putting the customer first. FPD has worked

very hard in the bicycle industry for many years for hoping FPD brings the best products and services continuously to the global bicycle market. ○



Twin-Frame Bicycle



Both the primary bicycle and the auxiliary bicycle are ordinary bicycles. The juxtaposing link contains a turning bar, an articulation mechanism and a combining rod. There are three holes on the top tubes for connecting the bicycles with the mechanism. The design of this model enables the users to make choices according to their needs by providing various combinations of components.

If the auxiliary bicycle is rode by an adult, a supplementary handlebar can be installed on the combining rod that is between the articulation mechanism and the auxiliary bicycle body. If a child is seated on the auxiliary bicycle, a dinner plate can be installed on the combining rod to serve as a dining table, and the adult seat can be replaced with a child seat. Riders may also replace the adult seat with a pet basket when they would like to take their pets on a bicycle ride.

The relative inventions have received I 366533 patent of Taiwan, three patents (US 7,967,312 B2, US 7,874,566 B1, and US 8,146,937 B2) in United States, and three patents (No.859756, No.1132402, and No.1188273) in China (P.R.O.C.). Other patent applications have been public in Europe and India.

The twin-frame bicycle can be provided for children, the elderly or the physically handicapped to ride. If the

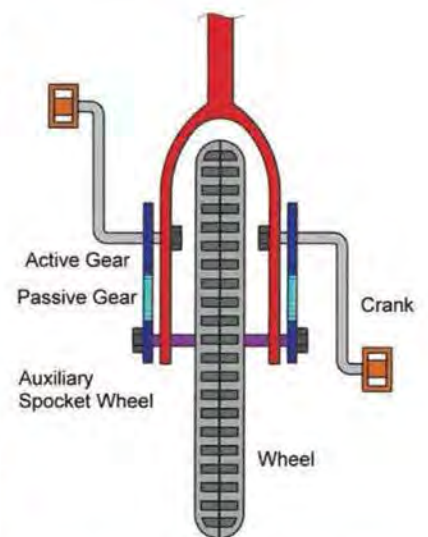
auxiliary bicycle is rode by an adult, a supplementary handlebar can be install on the combining rod that is

between the articulation mechanism and the bicycle body. If a child is seated, a dinner plate can be installed

on the combining rod.



bicycle and bicycle



pedals drive wheel through gear unit

One articulation mechanism is disposed between a primary bicycle body and an auxiliary bicycle body, wherein the articulation mechanism serves in synergy an articulation parallelogram and a resilient tension mechanism counteracts the deformation of the articulation mechanism to maintain equilibrium. Both ends of the articulation mechanism will be fixed on

the bicycle bodies with two screws, the spring tension will be adjusted with another screw.

The primary bicycle is responsible for the safe operation of the vehicle. The design of this model enables the users to make choices according to their needs by providing various combinations of components.

Young children are physically unable to pedal the bicycle. Likewise, pets have no ability to step on the pedal of a bicycle, so it is economic for riders to select a unicycle. The primary bicycle is responsible for the safe operation of the vehicle. A regular bicycle and a multifaceted sidecar are connected by articulation mechanism.

As to a dual riding and driving tricycle in juxtaposing link, it has the same motion form of a regular bicycle. Therefore, when it turns or moves on rough and uneven surface, it can still keep moving stably and at a limited inclination angle, but will not overturn. In addition to its strong structure, the bicycle body can be dismantled and assembled rapidly. ○



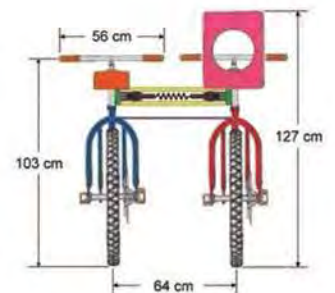
articulation mechanism



combining rod and handlebar



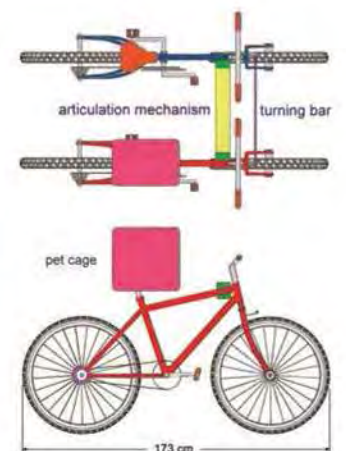
bicycle and sidecar



dual riding and driving tricycle



chainless bicycle





Taipei Cycle Show – The world’s second largest bicycle show.

The 2019 Taipei Cycle was held on March 27th at the Nangang Exhibition Hall. Combining with the 46th Taipei International Sporting Goods Exhibition (TaiSPO), Taipei Cycle was held at 3 locations, on the 4th floor of the Nangang Exhibition Hall 1 (TaiNEX1), the second building (TaiNEX2) and the World Trade Center. The industrial development trend with the smart innovation and ecosystem application are the main axis.

This exhibition attracted 1,409 domestic and foreign manufacturers

to participate in a total of 4,720 booths, making it the only one-stop omnidirectional shopping platform for the sporting goods in Asia. This platform has a foreign participation rate of 27%, attracted 5,614 overseas buyers and 11,409 domestic visitors. The top three buyers in this year are still mainland China (including Hong Kong) accounting for 25.57%, Japan 9.85% and USA 8.8%. The 2nd hall of Nangang Exhibition was first opened this year to solve the long standing problem of insufficient booths and different places.

In response to the trend of industrial electrification and intelligence in recent years, Taipei

Cycle has expanded the scale of the “Light Electric Vehicle” and “Taipei Cycle + Pavilion” at the Nangang Exhibition Hall 1 this year. The Internet of Things and smart wearers are integrated across the field to respond to the emerging business opportunities of the industry from the vertical production chain to the ecosystem, and to build a complete ecological chain to the global electric bicycle market. Taipei Cycle also organized the “Motor System Zone” in Nangang Exhibition Hall 1, which included electric bicycle related products such as lithium batteries, charging devices, electronic control systems, motors... etc., echoing the growing electric bicycle market.



Incorporating with the new open of Exhibition Hall 2, the organizer arranged the whole Exhibition Hall 2 as the bicycle components exhibition hub. There were 607 major component manufacturers in Taiwan, building 1,950 booths to fully display the research and developing energy of the bicycle industry in Taiwan. This year's exhibition returned to the annual premiere launch. International important brands such as SRAM, Mach 1, and Abus supported the adjustment of the schedule, and said that they will continue to participate the Taipei Cycle Show in the future. The world's leading tire manufacturer Good Year exhibited for the first time this year. They consider the Taipei Cycle is the platform for the newly developed products in Asia. They appreciate the

quality of buyers. And will continue to exhibit. The Italian classic bicycle brand De Rosa participated in the exhibition for the first time, were amazed by the unexpected results.

DEMO day took place on the day before the main show (March 26). The 3rd session riding test was held at the Huazhong Riverside Park in Taipei. There are 13 brands who participate the Demo. The bikes for demonstration are in various ranges which including road bikes, mountain bikes, electric bicycles and folding bikes. There are four major events which by manufacturers booths, riding lanes, indoor cycling and city corridor. On-site exhibition of solid tires, electric folding bikes, USB portable generators, drop posts... etc. which caused lots of exclaiming.



It totally attracted 535 domestic and foreign buyers to participate this year.

The opening ceremony of this year's exhibition was held in the





second hall. The Taipei Cycle has invited Mr. Jian-ren Chen, the Vice president of R.O.C.; Mr. Zhi-Fang Huang, Chairman of the Foreign Trade Association; Mr. Wen-Sheng Zeng, Vice Minister of the Ministry of Economic Affairs; Ms. Hiromi Kawamura, PR Secretary of the Organizing Committee of the Tokyo Olympic Games and many other distinguished guests. In the opening ceremony speech, Vice President, Jian-ren Chen, said that the participation of bicycle index manufacturers has enabled the world to see the manufacturing capabilities of Taiwanese products. The World Economic Forum report lists Taiwan, Germany, the United States and Switzerland as the world's four super-innovation countries. Quality and high

value are well-known. The bicycle industry in Taiwan is not afraid of the challenges of the market. The spirit of continuous innovation has brought into the global supply chain and is the highlight of the global industry. The Vice Minister of Economic Affairs, Wen-Sheng Zeng, added the "Welcome Taiwanese Investment Return Action Plan". By setting up a single window, government provide customized services, integrate land, water, electricity, manpower, taxation and funds... etc., and tailors the investment program for companies who interested in returning to Taiwan.

Zhi-Fang Huang, chairman of the Foreign Trade Association, said bicycles and sporting goods combine modern people's new lifestyle and

emphasis on health, and re-shape the new industry chain through the combination of smart machinery and capital communication technology. Zhi-Fang Huang also expects that the bicycle industry will continue to transfer production capacity back to Taiwan in the production of high-end products. This trend is extremely clear.

E bike shaping the Taiwan bicycle industry's future.

"Electric bicycles" is undoubtedly the most important topic of this year's exhibition. The EU anti-dumping duties and US tariff factors affect China's bicycle exports. In order to





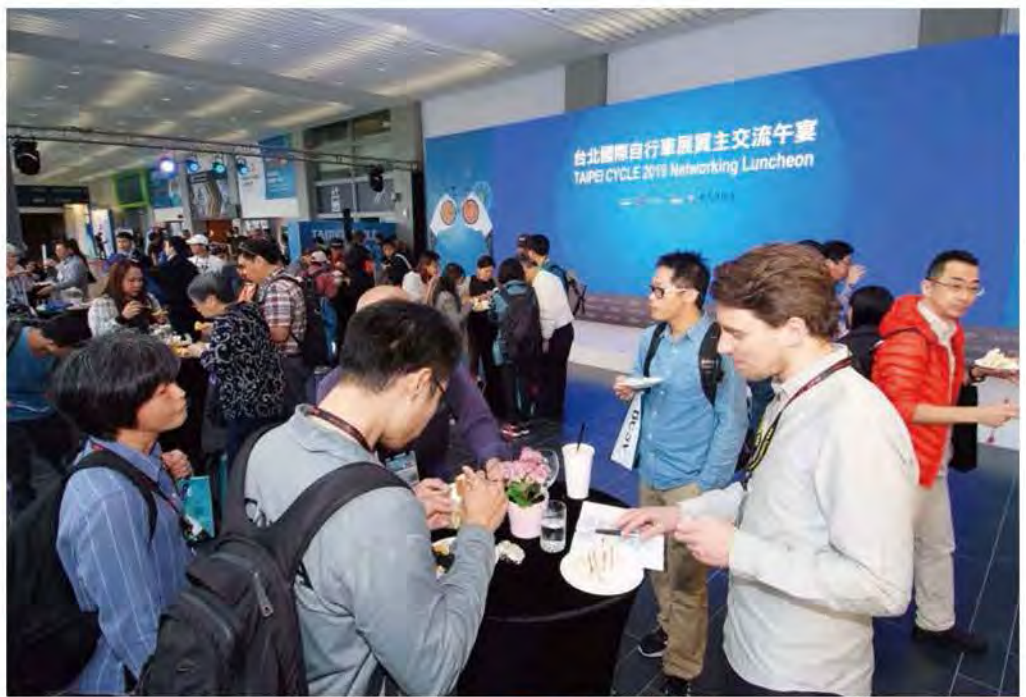
balance supply and demand, Europe and the United States are actively looking for alternative Asian manufacturers. This brings Taiwanese manufacturers more new business opportunities. As you can see everywhere in the exhibition, various manufacturers display customized electric bicycle. Many Taiwanese OEM bike manufacturers and parts manufacturers are currently investigating and producing E mountain bikes, E road bike and electric bicycle related parts. Customizing and electrification shape

Taiwan bicycles industry's future. Mr. Ma, the former president of R.O.C., who likes sport, also came to the exhibition after the opening ceremony, showed his high interest to the demonstration of the innovation.

On 28th and 29th, at the International Industry Forum (Taipei Cycle Forum) held in Room 401 of Nangang Hall 1. The Taipei Cycle invited Jan Van Zanen(Mayor of Utrecht, Netherlands), Mark Sanders (Director of MAS Product Design, UK), Stephan Esser (SQLab CAD

designer, Germany), Richard Conroy(Director of New York Bike Education, USA), Susanne Brusch(CEO of Pedleec Adventures, Germany), Marian Baukowitz(4C Consumer Insight), Manuel Marsilio(General Manager of European Bicycle Industry Association), Morten Kabell(Well-known Danish city designer), Kevin Mayne (The Director of European Cycling Union (ECF)) and other multinational industrial giants have come up with the theme of "Bicycle Design", "Cycling Culture", "E-bike Trend" and "Future City Blueprint".





The discussion includes bicycle design. Global cycling culture, smart sports, electric bicycle trends, sports and fitness, and even future urban blueprints... etc., are the design concepts that continue the interactive learning of the forum last year. The topics focus on the core of the industry and closely follow the exhibition entity activities, echoing the smart riding trends presented by the exhibition. Match the Taipei International Bicycle Show Innovation Design Awards Retrospective and Riding Test Experience Day, through the substantial interactive exchanges, focused on the soft and rich industry

knowledge and trend information for the global bicycle industry's annual development event, attracting nearly 200 listeners on the spot. The discussion is warm and enthusiastic.

In 2018, both the export volume and amount of Taiwan's electric bicycles grew by more than 50%. The total export volume of electric bicycles is up to 286,400 units, with an annual growth rate of 57.92%. The sales exceeded 10 billion Taiwan dollars for the first time. The export value of the whole industry exceeded 3.12 billion US dollars, and the export volume of the complete bike reached 2.513



million units. The average unit price of complete bike exceeded 668.42 US dollars, and the average unit price of electric bicycle exports reached 1,318.72 US dollars. This indicates the importance of Taiwan bicycle industry in the world bicycle supply chain. After the opening of the Nangang Exhibition Hall 2 this year, the scale of the exhibition will be expanded, and the scale of the exhibition will increase by more than 30%. During the Taipei

Cycle exhibition, the 2019 Smart City Exhibition was held at the Nangang Exhibition, which is the second largest in the world. Two of the world's top three exhibitions were held at the same time, the scale is unprecedented and the exhibitions also promote each other's popularity.

The 2020 Taipei Cycle will be held from March 4th to 7th. The theme of the event will be "Wisdom

x Bicycle x Life", which will take place in the Nangang Exhibition Hall 1 and Exhibition Hall 2, and covering complete bicycles, OE parts and accessories. Manufacturers such as electric bicycles, motor systems, smart applications and cycling services will participate. According to the announcement of the 2019 Copenhagen Bike Friendly City Index, Taipei City was listed for the first time in the top 20 in the world, becoming the





second Asian city listed after Tokyo, Japan. The government has announced 2021 as the year of bicycle touring in Taiwan. Cycling becomes part of life. In view of this, the Taipei Expo in 2020 first planned the “Cycling Service Zone”, and will invite bicycle touring, cycling community, cycling training and other manufacturers to exhibit, showing more possibilities for bicycles. “Electric Bicycle” and “Smart Application” are the two important highlights of the exhibition in 2020. The exhibition has an “Electric Bicycle and Motor System Area”. It is expected to invite more than 150 local and foreign electric bicycle manufacturers to exhibit, including electric bicycle, motor, battery, Chargers, power management systems and other related products. “Smart Riding Zone” shows the smart technology related to bicycles, including smart wearable devices, Internet of Things and big data applications, using the

latest technology to improve the riding performance and application value of bicycles. To meet the wide needs of the consumer customization market.

Part of the exhibition, Fashion Show will be added first time in 2020. Cycling will be the mainstay, and the most popular products including bicycles, parts, accessories, and smart wear will be introduced through the catwalk shows.

After adding the 2nd Exhibition Hall, the 2020 Taipei Cycle Show will include the Nangang Exhibition Hall 1 (TaiNEX1) and Exhibition Hall 2(TaiNEX2). The total booth units will reach 4,000. It is expected that the growth of the booth will exceed 30% within 4 years. The expansion of the scale of the exhibition will inevitably attract more buyers from all over the world and create a performance peak of the exhibition.○



TAIPEI CYCLE

March 4-7, 2020

TaiNEX 1 & TaiNEX 2 
(Taipei Nangang Exhibition Center, Hall 1 & Hall 2)



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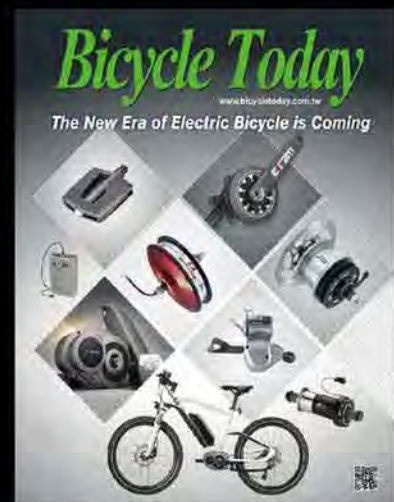
The 30th China International Bicycle Fair
China International E-bike & Parts Fair 2020
China International Motorcycle & Parts Fair 2020
Shanghai International Outdoor Cycling Products Fair 2020

**VENUE : NATIONAL EXHIBITION
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SCALE : 150000M²/6500BOOTHS

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2019

第二十九届中国国际自行车展览会 THE 29TH CHINA INTERNATIONAL BICYCLE FAIR

第十九届中国国际自行车展览会
China International Bicycle Fair
第十九届中国国际电动车及零配件展览会
2019 China International E-Bicycle Fair
第十九届中国国际摩托车及零配件展览会
China International Motorcycle Parts Fair
第十九届上海国际户外骑行装备展览会
China International Outdoor (Cycling) Equipment Fair

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OPENING CEREMONY



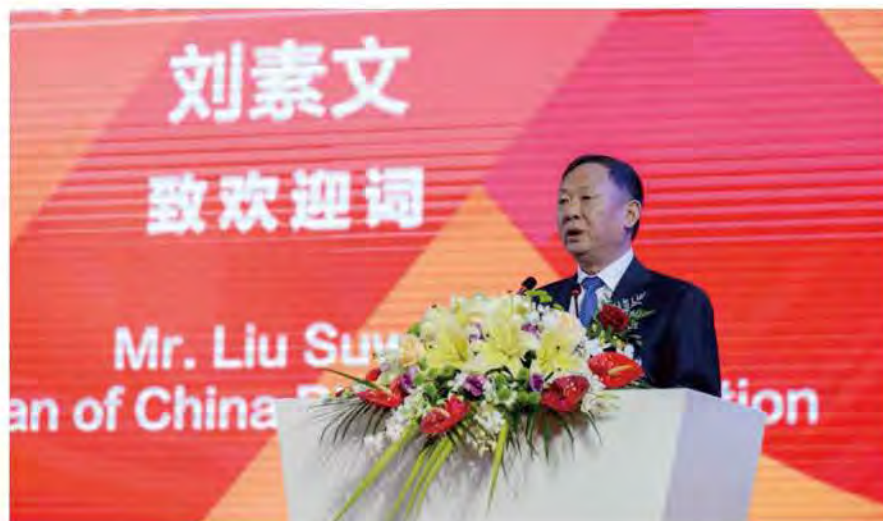
Shanghai Show - Submit to circumstance, Seek new juncture.

The 2019 China International Bicycle Fair was held at the Shanghai National Exhibition and Convention Center from May 6th to 9th, 2019, covering the Hall 1, Hall 2, Hall 3, Hall 4.1, Hall 5.1 and North Hall. A number of well-known bicycle brands and component manufacturers, thousands of companies from more than 20 countries, participated this Shanghai Show to display their latest products. In addition to bicycles, parts and accessories, organizer also set up Electric Bicycles, Juvenile Bicycles and Outdoor Cycling Equipment pavilions.

The theme of this year's Shanghai show was "Strengthening by Innovation, Promoting on Development". The size of the exhibition was 150,000 square meters, attracting 1,224 companies to participate the exhibition by 6,375 booths. Comparing with last

year, there is a decrease of 9.82%. There are 6,018.5 booths exhibited by domestic manufactures, with a decreasing by 9.18% from last year. And 356.5 booths exhibited by 98 foreign exhibitors, from 25 countries, with a decreasing of 15.79%. Throughout the Shanghai Show, the number of electric bicycles displayed is with big increase if compare

with last year. But the visitor this year is down by 23.87% compared with 2018. Some exhibitors said that many companies were greatly affected by the Sharing Bikes which declined hugely since last year. Therefore, they have to strive to get out from the predicament this year and try to get more export business.





Opening of the Shanghai Show – China Cycle Innovation Prize

On the 6th, Mr. Chung-Ho Chang, the chairman of the China National Light Industry Council, participated the show and announced the opening of the show. Mr. Su-Wen Liu, the director of China National Light Industry Council and also the chairman of China Bicycle Association, said after nearly 30 years of developing, China's position in the world is becoming more and more important. Shanghai Show is open to everyone as a sales platform. It is expected that the bike industry can submit to market regulations and catch all opportunities by making adjustments. This is the proper way to go for the moment.

At the opening ceremony, "2019 China Brand Day" was held. The top 10

selected companies were awarded. "2019 China Brand Day" is based on the theme of "China brand" and "World sharing". And take the consumption experience of private brand as the main form. The organization of the China Bicycle Association has selected 10 bicycle and electric bicycle brands. The "China Cycle Innovation Prize" was awarded at the ceremony. Among them, Giant, Merida, other brands and Jiang Nan University (Design Institute) jointly exhibited the theme of "Boost Brand Innovation, Conduct Industry Development", emphasizing only fashion, convenience and high quality can meet consumers' growing demand of a beautiful cycling life.

Show Highlight

During the exhibition, the organizer has set an outdoor experience area in the sunny atrium. The visitors can borrow a helmet by ID card and explore the riding trial. Visitors can

experience road bikes, mountain bikes, city bikes and fashion electric bikes which provided by many famous brands' booth on the spot. There are two circular cycling trail which allow the riders to play around. There are also some well-known local professional riders who bought the activities of "Master interaction - How to ride the bicycle", an interesting on-site cycling training.

The well-known brand, Giant, promotes Ride Life and Giant APP with the theme of "Beautiful Riding & Playing", emphasizing Smart Riding as the main axis. Running through bicycles, shops, riders, internet and the need of Chinese consumers, integrating Giant's products, store services, and riders' activities through the cloud and big data, enable every rider can enjoy the riding.

Giant plans to launch precise marketing program. Combining with the channel resources of the dealers/stores and the surrounding service





resources, provides a cross-platform multiple operation mode. So each rider can get one-on-one care and service. In Hall 2, Giant exhibited the interactive cycling theme. Promoted TCR brand as gents bikes range and LANGMA brand as ladies bikes range. Encourage people to ride bikes together but not single person and enrich cycling life.

Merida's brand new Challenger SL7 was exhibited, with a more rigid frame and in sandblasted anodizing finish which is more metallic look. Mr. Chun Chu, who participated

in the Merida Challenger Team in the South African Cape Epic Mountaineering Marathon, was also invited and attended the signature event.

Market Glance

On May 9, The 29th China International Bicycle Fair was successfully concluded at the Shanghai National Exhibition and Convention Center. In just 4 days, a total of 1,224 companies from 26 countries and regions participated in the exhibition. Under the factors of sharing bicycle collapse, EU anti-dumping duty... etc., Shanghai





Show is the wind direction balloon of Chinese bicycle industry.

According to the statistics of the China Bicycle Association, the total bicycle production quantity in 2018 was 73.201 million sets, down 17.1% than previous year. The quantity of bicycles exported was 59.272 million sets, up 5.1% than previous year. On Electric bike side, the total production quantity was 32.776 million sets, up 5.8% than previous year. And quantity exported was 1.877 million sets with a growth of 10.4%.

Undoubtedly, Shanghai Show is the most important OE bike show in

China. However, the market is in the recovery period after sharing bicycles collapsed. Most manufacturers feel unpredictable about the market. In Hall 2 complete bike pavilion, there are lots of electric bicycles. In Hall 3 International Brand Pavilion, the visitors are very few. However, the major manufacturers are promoting electric bicycles and Juvenile bicycle extremely in the Shanghai show. Many exhibitors also said that despite now is the cold winter in the bicycle industry, and the domestic demand market is seriously declining, it is believed that the China market will be completely consolidated shortly and the business will rally soon. ○



2019 Eurobike Taiwan Pavilion Guidance

The Taiwan bicycle industry has been devoted to brand marketing and high-end products in the international market, and has become the global production center of

high-end bicycles and components. Taiwan's bicycle industry has a leading position in the global bicycle industry; and Taiwan bicycle suppliers are indispensable exhibitors in all important bicycle trade shows. Especially in recent years, Taiwan's bicycle industry has been devoted to R&D and has launched many eye-catching new designs one after another. These designs have received world class awards such as the iF Design Award and the International Bicycle Design Competition. As of now Taiwan is not only a leading bicycle producer, but also an innovator in the global bicycle industry; just as the saying goes: "Think bicycle, Think Taiwan."

Being the first specialized bicycle news medium in Taiwan, Bicycle Today has played the role of connecting international buyers and the Taiwan bicycle industry since 1984. We provide the latest industry news, and you can see us in many international bicycle shows such as EUROBIKE. Buyers are welcome to pick up the free Taiwan Bicycle Guide (TBG) and our European/ American Special

Editions, which contain new product information and industry news, from our own stand.

Trade visitors are more than welcome to visit our booth at A6-413 in 2019 EUROBIKE.

By visiting joint stands organized by Bicycle Today, you'll be able to view the best of the Taiwan bicycle industry in the most efficient way. Our well-organized stands display all kinds of complete bicycles, components and accessories; every single piece is selected from Taiwan's best. You will also have many opportunities to communicate directly with manufacturers from Taiwan. This year we have 31 exhibitors in EUROBIKE, which are located in Hall A6, from booth No. 308, 310-321, 406-423.

With the guidance of Bicycle Today, you can easily gain the best deals in the shortest time and spare yourself the hassle of touring around the wide exhibition grounds. We also provide consultation services concerning Taiwanese suppliers, which help you to choose the most suitable business partners.

For your convenience, we would like to give you a brief preview and introduction of our exhibitors before the upcoming big show – EUROBIKE, which starts on the next page. All the exhibitors look forward to showcasing

their state of the art technology and their top of the line products- mountain e-bikes for example, which are very hot in the U.S. market right now. If you have any further inquiries or concerns, you are more than welcome to visit the exhibitors directly or simply contact us. We are looking forward to meeting you on the exhibition grounds, and we wish you a great and successful visit.

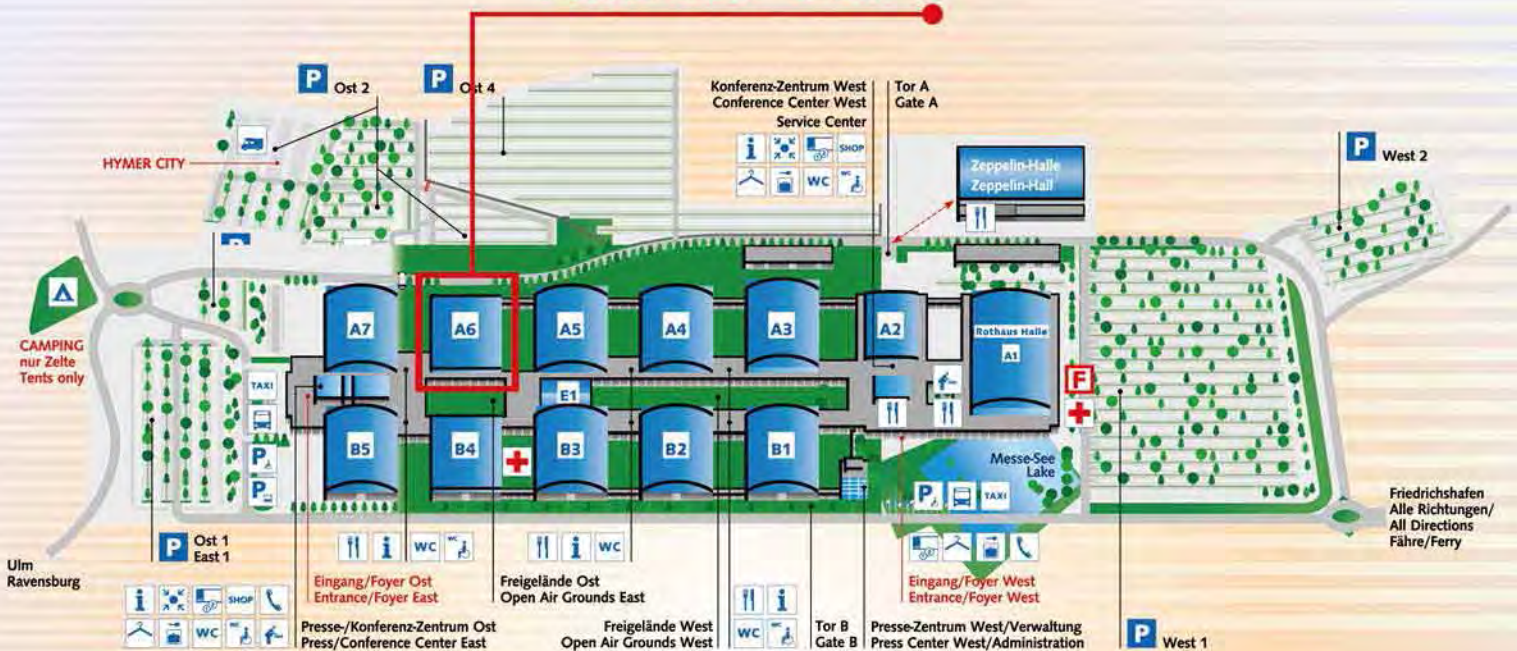




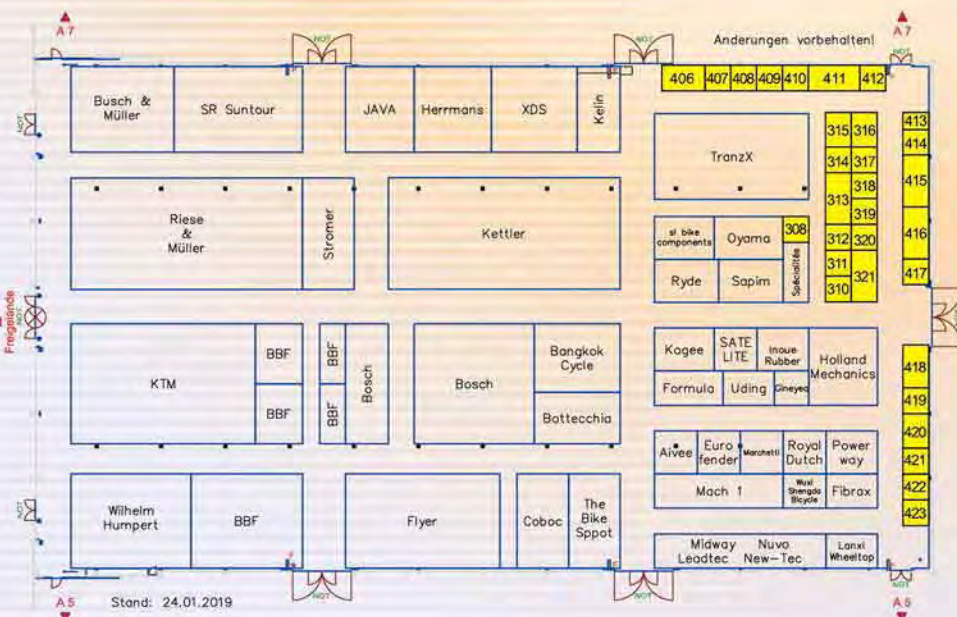
EUROBIKE PREVIEW

Location Map

Bicycle Today MAGAZINE Hall A6-413



Halle A6*EUROBIKE 2019



COMPANY NAME	BOOTH NO.
Acetrikes Industrial Co., Ltd.	A6-316
A-forge Enterprise Co., Ltd.	A6-407
Asia Bicycle Trading Company	A6-321
Bicycle Today Magazine Co.	A6-413
Elite Energy Co.,Ltd. — ELXEY	A6-313
Eternity Industrial Co., Ltd.	A6-314
GHL Hardware Industry Co., Ltd.	A6-318
Gomier Manufacturing Co., Ltd.	A6-419
Heng Feng Bicycle Co., Ltd.	A6-420
High Cedar Enterprise Co., Ltd.	A6-414
Hsin Lung Accessories Co., Ltd.	A6-412
Huang Chieh Metal Composite Material Tech Co., Ltd.	A6-311
Hubsmith Co., Ltd.	A6-410
J-MEX Inc.,	A6-408
Jedan Internatlonl Co., Ltd.	A6-422
Kamigawa Co., Ltd.	A6-421
King Ritz Enterprise Co., Ltd.	A6-421
King Roof Industrial Co., Ltd.	A6-409
Lung I Technology Co., Ltd.	A6-406
Order Center Industrial Corporation	A6-416
Reynolds Technology Ltd.	A6-320
Rodrigo Industrial Corp.	A6-418
San Yakos Enterprise Co., Ltd.	A6-411
Shun Shing Bicycle Co., Ltd.	A6-310
Taiwan Chengfeng Precision Technology Co., Ltd.	A6-415
U-Logis Co., Ltd.	A6-417
U-Power Collection Ent. Co., Ltd.	A6-423
WIW International Co., Ltd.	A6-308
Yeu Chueh Industry Co., Ltd.	A6-312
Yu Hub Industrial Co., Ltd.	A6-315
Yung Fang Plastic Co., Ltd.	A6-319
Yung Shyang Chemical Industrial Co., Ltd.	A6-317



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 Rear Derailleur: Shimano 10 speed
 Brakes: Disc brake



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Weight: 413g



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TYPE: 27.5" MTB Frame
MATERIAL: Alloy 6061
REAR HUB: 142mm x 12 mm Thru-Axle
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TYPE: 700C City Frame
MATERIAL: Alloy 6061
OLD: 135mm
E-Bike Bafang System



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CAPER

FRAME: ALLOY 6061-T6 TAPERED, W/ DISC BRAKE, INTERNAL CABLE
SIZE: 15, 17, 19, 21 inch
DERAILLEUR: SHIMANO DEORE 10SPD
MID MOTOR: MPF 6.0 250W 36V, WATER-PROOF CONNECTOR
DISPLAYER: 5 SPEED PAS



SPRINT

FRAME: ALLOY 6061-T6 TAPERED, W/ DISC BRAKE, INTERNAL CABLE
SIZE: 15.5, 17.5, 19.5, 21 inch
DERAILLEUR: SHIMANO DEORE 10SPD
MID MOTOR: MPF 6.0 250W 36V, WATER-PROOF CONNECTOR
DISPLAYER: 5 SPEED PAS



AGILE

FRAME: ALLOY 6061-T6 TAPERED, W/ DISC BRAKE, INTERNAL CABLE
SIZE: 15, 17, 19, 21 inch
DERAILLEUR: SHIMANO DEORE 10SPD
MID MOTOR: MPF 6.0 250W 36V, WATER-PROOF CONNECTOR
DISPLAYER: 5 SPEED PAS



HOVER

FRAME: ALLOY 6061-T6 TAPERED, W/ DISC BRAKE, INTERNAL CABLE
SIZE: 14 inch
DERAILLEUR: SHIMANO DEORE 10SPD
MID MOTOR: MPF 6.0 250W 36V, WATER-PROOF CONNECTOR
DISPLAYER: 3 SPEED PAS



EXD

FRAME: ALLOY 6061-T6 TAPERED, W/ DISC, INTERNAL CABLE
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DISPLAYER: 5 SPEED PAS



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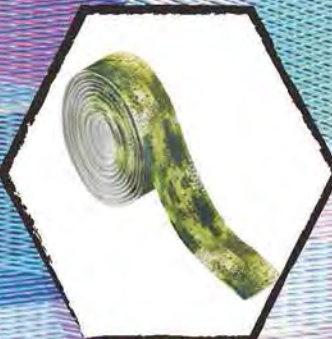


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- up to 20 lm
- 550mAh Li-polymer
- up to 90HRs



BKS-G3

- 10 Super Bright SMD LEDs
- up to 35 lm
- 420mAh Li-polymer
- up to 50HRs
- ISO 6742-1/3/5
- StVZO Ready



BKS-G4 Rack

- 16 Super Bright SMD LEDs
- up to 55 lm
- AAA Battery*2
- up to 40HRs
- ISO 6742-1/2/3/5
- StVZO Ready



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BOOTH NO.
A6-408



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BOOTH NO.
A6-422

Z-1906
SUPER BIG PEDAL

Platform
Body: Die casting CNC finished
Bearing: Ball bearing
Spindle: Cr-Mo
Pin: Mold Pins/Replaceable Pins
Color: Any color
Size: 104mmx125mmx26mm
Weight: 556g/prs.



Replaceable Pins



Replaceable Pins



Mold Pins

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Fixed Differential Gear Device with 22T sprocket,
Axle length modifiable
Include 36Hx14G hubs, a disc brake and holder sets.
Suitable: Electric Tricycle, Manual Tricycle, Four Wheel
Utility Vehicle.

BB-988SS

Description:
This BB set speed sensor uses infrared sensing technique.
The photodiodes is embedded inside the BB set. It is fully protected by the
shaft case.

Intelligent electric component and circuit design detects only forward
movement and
generate corresponding speed signal.

This design is fully compatible with the original 68MM length BB shell.
Signals: 10P, 24P, 48P; Left side sensor is available .



BB-TS-03

For original frame and standard 68mm BB shell.
Torque detection from both crank.
Chain Wheel Adopter is available for different specification of chain wheel.
Patented design.



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BC-6425



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Model: SG18-D76

- 275" 4-Links Suspension MTB
- 6061 Aluminium Alloy
- 165mm Shock W/38mm Travel
- Frame Travel:144mm
- Shimano Central Motor Built-in Battery
- 275" 3.0"*Tires Compatible
- 12mm Through Axle Dropout

**SPEED FORWARD
FRAMES BRAVE RIDE**



Model: ST-1803

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- Carrier Battery
- BaFang Central Motor
- 700*45C Tires Compatible
- IS Disc Brake Dropout



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BOOTH NO.
A6-416

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BOOTH NO.
A6-320



VINCERE: 700C E-MTB

Alloy Frame 700C & 700C Alloy Fork
Caliper Brake
Deraillleur: 1 SPD
Motor: Shengyi, 36V 250W



TRIUM: 20" E-Tricycle

Alloy Frame & Mozo Susp. Fork Alloy Crown
Oil Disc Brake Zoom
Deraillleur: Shimano 7 SPD Rear
Motor: Bafang 48V 500W

CHEETAH: 20" FOLDING E-BIKE

Alloy Frame & Steel Fork Double Crown
Oil Disc Brake Tektro
Deraillleur: Shimano 7 SPD Rear
Motor: Bafang 48V 500W



QUATTRO ROUTE: E-WHEEL CHAIR

Frame: front 10" rear 20" & Steel Susp. Fork
Front Disc Brake
Motor: 36V 350W



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In our company you can find all bicycles parts, traditional one, BMX, MTB, Racing but also prestigious material as ALLOY 6061, 7005, Carbon or TITANIUM, through us you can purchase in TAIWAN or CHINA. Our head quarter is in TAIPEI but we have also offices in SHENZHEN and SHANGHAI.



Our success in this market is the result of the way we consider it; We don't work with buyers or makers but in both sides we have partners and we try to join their request. Be one of us, we wait you in our team. Bring us your requests, your dream, your wishes and your orders, we will try to satisfied it in short time and with smile and happiness.(Attached is the picture with our French Agent Mr. Charles Gagne)



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 BOOTH NO. A6-310

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 OLD 135 ~ 148mm
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93-083-1080

Motor Type: Shimano E8000
Process: Forging + CNC / Squeeze casting
Weight: 601g / 595g
Material: 6061 Aluminum / A356.2
Under cover: 6061 Aluminum (145g)

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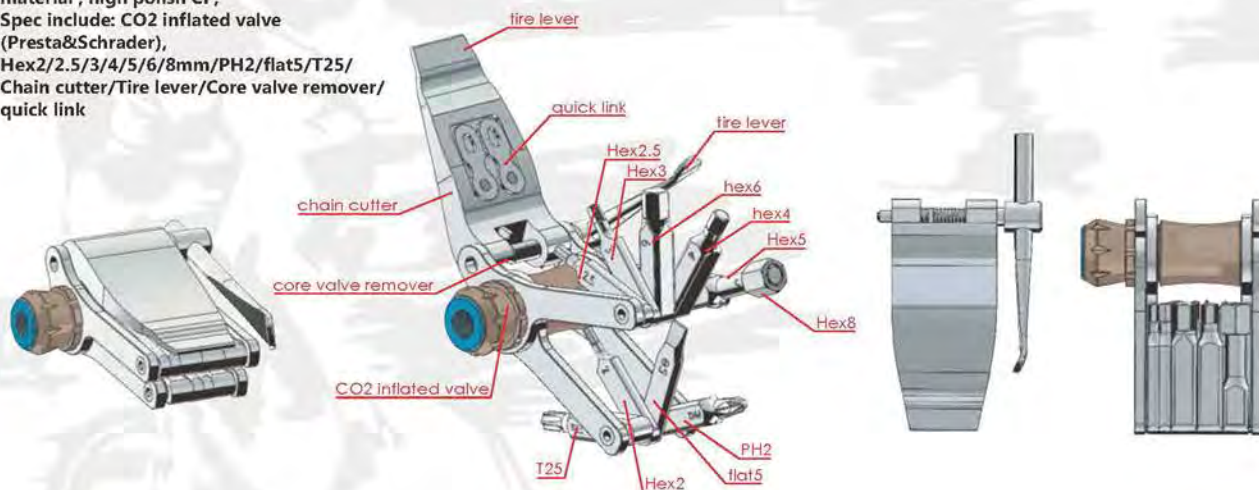
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EUROBIKE
BOOTH NO.
A6-308

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- Building the best quality into all aspects of our business
- Treat customers as partners
- Long-term vision and strategies
- Culture of continuous improvement



PERMETEC developed an ISO compliant process to ensure quality control throughout the entire manufacturing process. We have a comprehensive in-house quality control structure that is fully integrated with each process-from initial received material analysis through three dimensional precision measurement checks. Throughout each process, our state-of-the-art testing machines-strength and performance evaluations, guarantee a stable and dependable supply of high quality products.

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EUROBIKE
BOOTH NO.
A6-312

For gravel bike, CL-R27X is the rear hub with SRAM XDR 12 speed free hub and Shimano center lock system, spec with thru axle M12, spacing 142W. The free hub engagement is with 6 pawls, 72T design.



CL-R27X

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Safety Disconnect Clip & Quick-Release



9101006

1. Fits angle adapter
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FB-L
L-Type

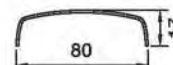
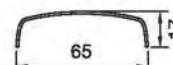


FB-LS
M6 single holes



WHEEL SIZE

26" / 700c / 29"



unit : mm



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ISO 9001:2000



ISO 14001:2004



BOOTH NO.
A6-317



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BOOTH NO.
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PRODUCT NEWS

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CVM: Cross Velo MINI

Buttery-smooth cycling experience with crossover elegance. Here we introduce this 20" wheel steel, the Cross Velo MINI. We've merged the best of a chromoly mini velo with the quietly smooth GATES Caron Drive belt, into a sleek, minimal modern design.

- Frame: 4130 CrMo Butted, 3510g
- Fork: Alloy
- Internally routed shift cable
- Internal Gear Hub: Shimano Alfine/Nexus series
- Gates Carbon Drive system
- Chrome plated silver with matte black paint
- Alloy anodized color scheme available

O.L.D.=135mm: Shimano Alfine/Nexus Compatible
RC=412(+/-12)mm: Gates 55T/60T, 24T/22T
451mm (20") Rim: 25/37mm width Tire



CVM_01



CVM_02

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Feature:

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Traditional one piece forging motor bracket
Weight: 583g



New two pieces welding motor bracket
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Safety Lever, E-Bike use



NEW

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HJ-N5022ADC



Bracket material	Melt-forged alloy
Lever material	Melt-forged alloy
Shifter	Twist & Thumb
Weight	260g / pair
TW	x
VN	-



Lock device



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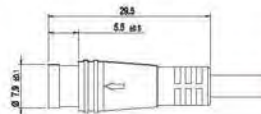


NEW

HJ-5022ADC
HJ-5022ADV



Bracket material	Melt-forged alloy
Lever material	Melt-forged alloy
Shifter	Twist & Thumb
Weight	260g / pair
TW	x
VN	-



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The frame design for dual module options for e-bike system of Shimano STEPs and Brose. The battery is installed from the bottom of the downtube, so the downtube opening is not required. The stiffness of the frame can be advanced by 15%, and brings much better riding experiences.



ERDP6.0A-B 29

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WEIGHT 1880g
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F:28H, M15 x 110 R:28H, M12 x 148"
RIM COLE® Carbon, Profile:22.5mm
QR COLE® Design Forged Alloy Ends, one-piece shaft

C38 CX

TYPE Clincher
WEIGHT 1640g
HUB DSA2s patented design, Cold Forged Alloy
Body
SPOKE Straight Pull, Aero Type 2.0/1.8/2.0mm
F:24H, R:24H
RIM COLE® Carbon, Profile:38mm
QR Thru Axle F:M12 x 100 R:M12 x 142



IBEX CB 29

C38CX

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MODLE: 19M

TYPE: 29" MTB E-Bike Frame
FORK: Rockshox
MOTOR: 36V 350W
BATTERY: 36V14.5Ah
SHIFT: Shimano Deore 10- Speed
E-Bike Bafang Mide- drive motor system



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CHING CHERN INDUSTRIAL CORP.



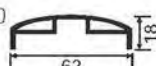
CC#751
Size: 38T,42T
Material: Alloy (1.2mm) & Steel (0.8mm)

CC#973

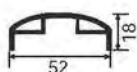
Tire: 700x23C, 25C, 28C, 32C
Material: Alloy



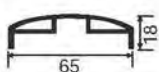
Tire: 1.75, 1.95, 2.0
700x40C, 45C
Material: Alloy



Tire: 1.5-1.75
700x35C, 38C, 40C
Material: Alloy



Tire: 2.0, 2.125
700x45C
Material: Alloy



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DURMAS ENTERPRISE CO., LTD.

20" eFAT BIKE

20" Alloy Frame/Fork, Rear Mounted Brushless Gear Hub
36V/250W(BaFang), Battery 36V 10.4AH(Samsung) Lithium-
ion Battery, 36V 15A integrated controller. Max. speed
EU:25km/h USA:32m/h, Disc Brake F/R, Shimano 7S, Kenda
Tire 20" x 4.0



black



red

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FOMING BICYCLE PARTS CO., LTD.

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DESIGN IS ENCASED
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Not only to dealers but also end users who are having trouble with measuring their axles or what they actually need to replace them while RapiLock Axle provide a measurement guide including 3 different axle lengths: 105/147/154mm along with 6 different thread pitches P1.0/P1.5/P1.75 and lengths. With mentioned system, it could cover up to 40 different standards. The axle is designed with a built-in lever. When the lever is not needed to install the axle, it is completely hidden inside the axle body. In this position, the appearance of the bike will be concise and it will also increase the reliability of the locking system by avoiding impact with the lever.



Tel: 886-4-25605818
Fax: 886-4-25605806
E-mail: fcjerry@ms45.hinet.net / skewer@fulchee.com
www.fulchee.com

GOMIER MANUFACTURING CO., LTD.

TR-716E

SPEC:

Length : 207CM

Width : 85CM

Height : 111CM

Max Load : Rider 100Kg Cargo 100Kg

F.Frame : Steel \ R.Frame : Alloy

Wheel Size : F 20"/R 26"

Rear Derailleur : Sunrace 9 speed

Motor : Bafang MMG 332 250W 36V

Battery : 10.4AH 36V



TR-716E

TR-6000E

SPEC:

Length : 185CM

Width : 110CM

Height : 42CM

Max Load : Rider 100Kg including rider

F.Frame : Alloy \ R.Frame : Steel

Wheel Size : F 24"/R 24"

Gear : Rear Derailleur Shimano 6 speed

Motor : Bafang MMG 360 250W 36V

Battery : 10.4AH 36V



TR-6000E

Tel: 886-4-26872771/5, 26876270

Fax: 886-4-26881232, 26889149

E-mail: gomier@ms4.hinet.net

www.tricycle.com.tw

GRAND STAR INDUSTRIAL CORP.

GS-9132B11TD

saddle

Size: 260X260mm

GS-3010B11

saddle

Size: 300X300mm

GS-917-2B2D

saddle

Size: 210X222mm

235X298mm



GS-9132B11TD



GS-917-2B2D



GS-3010B11

Tel: 886-4-8654639 / 8654909

Fax: 886-4-8653099

E-mail: gslee@ms18.hinet.net / kslijugs@163.com

www.grandstar.com.tw

GUMONDER INDUSTRIAL CO., LTD.

Model: G912

Size: 20x3.0; 24x3.0; 26x3.0

G912 is the best choice for e-cargo bike.

Load up to 150kg per one tire.



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GUNIOR ENTERPRISE CO.,LTD.

ITEM NO: TB-0010

TRAVEL BAG

This Travel Bag is perfect for the traveler if you are looking to pack LIGHT, or are only traveling for a week.

And this is not only a Travel Bag, it also can be a Backpack.

It has many pockets designed for items you need, like water bottles, clothes, shoes and valuables...

And it's the perfect size carry on for flights.

Size: 21"*13"*10"



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HANDYWAY CO., LTD.



CHL-518



UL-816N BL-768 Bracket

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E-mail: sales@handyway.com.tw
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HIGH CEDAR ENTERPRISE CO., LTD.

HCV-E6AW-FRP (DP)

- ★ digital printing (we can do customized design)
- ★ tacky feeling/cushion touch
- ★ color your bike

HCV-6AW-LZ-AA37

- ★ PU w/random pattern (not printing)
- ★ We can do customized colors
- ★ good water absorption on wet condition
- ★ tacky feeling on dry condition



HCV-E6AW-FRP (DP)



HCV-6AW-LZ-AA37

Tel: 886-4-26267955/9
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HUANG CHIEH METAL COMPOSITE MATERIAL TECH. CO., LTD.

Model: F01001-160

- Material: Stainless Steel and Aluminum alloy
- Disc Rotor Mount: 6-Bolt.
- Less noise and less fade due to improved heat dispersion.
- Rotor contact surface has been developed for excellent pad clearing and cooling which increases pad performance and life.
- CNC alloy spider supports rotor surface, increasing rigidity and reducing weight.
- Size available: 140/160/180/203 mm.

Model: CAM-02-160

- Rotors are harder to bend because of a reinforced inner spider ring
- Easy rotor removal to aid in transport or shipping
- Weights less than a 6-Bolt due to a reduced side area
- Material: Aluminum alloy Ceramic coating
- Disc Rotor Mount: center lock
- Size available: 140/160 mm.



Model: F01001-160



Model: CAM-02-160

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E-mail: sales@hc-m.com.tw
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HUBSMITH CO., LTD.

HS-MB05R

Spoke Hole : 24/28/32 H
O.L.D. : 148mm
Axle O.D. : ø15mm
Axle Material : Alloy 7075 T6
Hub Material : Alloy 6061 T6
Flange P.C.D. : 47mm/58mm
Sealed Cartridge Bearings : 4pcs
Weight : 272g

HS-MB05F

Spoke Hole : 24/ 28/ 32 H
O.L.D. : 110mm
Axle O.D. : ø20mm
Axle Material : Alloy 7075 T6
Hub Material : Alloy 6061 T6
Flange P.C.D. : 47mm
Sealed Cartridge Bearings : 2pcs
Weight : 171g

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Disc Hubs



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IDEATION INDUSTRIAL CO., LTD.

HN-CTR049C Gravel Handlebar

MATERIAL	UD Carbon
BAR BORE	Ø31.8mm
WIDTH	420/440/460mm
DROP/REACH	Compact 129/1196
FLARED	25°
WEIGHT	266g (440mm)
COLOR	UD Matt Carbon

SP-CT014C

MATERIAL	Alloy Head with UD Carbon Tube
LENGTH	350/400mm
SIZE	Ø27.2/30.9/31.6mm
OFFSET	24mm
WEIGHT	250g (27.2x350mm)
COLOR	UD Carbon



HN-CTR049C Gravel Handlebar



SP-CT014C

Tel: 886-2-28825255
Fax: 886-2-28813322
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JA-2000E1

20" electric bicycle, frame and front carrier integrated design. 36V, 250W, 11.6AH. Can be customized.



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JOY INDUSTRIAL CO., LTD. (NOVATEC)

PRODUCTION NAME: D162SB-SL-B12-11S

BOOTH NUMBER: B1-203

PRODUCT DESCRIPTION

Designed for E-MTB riders, Novatec provides a series of E-MTB hubs D162SB, D332SB and D902SB which consist of middle level hub to high-end level products equipped with 2 bearings and 4 bearings versions and the axle specs with 148TA, 142TA, 141QR and 135QR versions. Presented here is D162SB-SL-B12-11S, using oversized pawls with wide press-fit ratchet ring design and oversized steel axle to increase the strength performance. All E-MTB hubs are also available with Micro Spline from Jan. 1st, 2020.



D162SB-SL-B12-11S

PRODUCTION NAME: E-DIABLO XL 29

BOOTH NUMBER: B1-203

PRODUCT DESCRIPTION

Our new wheelset for E-bikes is E-DIABLO XL 29 with an inner width of 30mm, the internal design inspired from our bestselling Diablo rims. And built on the specifically designed for E-MTB hubs, D902SB-B12, the features for this boost spec hub are equipped with oversized pawls with wide press-fit ratchet ring design, oversized steel axle and steel freehub body offered the durable and strengthen performances. The standard spec for D902SB also provides 12x148mm with 4 bearings allowing you enjoy the fast and smooth ride forward.

Weight: 2292g



E-DIABLO XL 29

Tel: 886-4-25668888
Fax: 886-4-25661185
E-mail: service@novatecwheels.com / service@joy-tech.com
www.novatecwheels.com / www.joy-tech.com.tw

KAMIGAWA CO., LTD.

Z-1417

Platform

Body: Die casting CNC finished
Bearing: 1 DU+1 Sealed
Spindle: Cr-Mo
Color: Any color
Size: 100mmx105mmx19mm
Weight: 350g/prs.



two-tone with vacuum

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Fax: 886-4-26870300
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MACINA PROWLER SONIC

THE ACE UP YOUR JERSEY SLEEVE.

For 2020 our development team has literally gone 'All In' with the MACINA PROWLER. This bike has been thought through, conceived and trimmed to perfection down to the last detail. 180 mm suspension travel at the fork and 170 mm suspension travel at the rear quickly make it clear that this bike is intended for demanding trail and enduro use. The carbon frame is fitted with the proven DiMMiX tyres: 29" wheel at the front for optimum handling and riding stability paired with the 27" PLUS tyres at the rear for best power transmission and traction, show all its advantages in difficult terrain. With the MACINA PROWLER and its powerful fourth generation Bosch Performance Line CX engine, as well as the slim integrated Bosch PowerTube 625 Wh battery, you have the 'Royal Flush' of your biker clique!

frame	Macina Prowler Dimmix Performance Carbon Front/Alloy Rear SLL-LTE 170mm; PT625 Bosch Gen.4/M-0136
fork	RockShox Lyrik Ultimate 29" 180mm
shock	RockShox SuperDeluxe coil Select+ 250x75
motor	Bosch PERFORMANCE CX Gen.4-25km/h/ 75Nm
battery	Bosch PowerTUBE 625Wh hor.
rear derailleur	Sram XX1 Eagle AXS 12speed
wheel F	DT Swiss HXC 1200 Spline 30 Carbon CL 110-15TA 622x30TSS TLR
wheel R	DT Swiss HXC 1200 Spline 30 Carbon CL 148-12TA 584x30TSS TLR



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Fax: 886-2-25015879
E-mail: cy_yang@ktm-bikes.com.tw
www.ktm-bikes.at

LEADTEC CO., LTD.

LCS-7152 E-BIKE

Material Alloy 6061 T6
 Process 3D Forged
 Extension 90/110mm
 Steerer 28.6mm
 Barbore 31.8mm
 Angle 20°/35°

LCSP-32 E-MTB

Material 3D Forged AL7050
 Outer Diameter 30.9/31.6mm
 Length 386/435mm
 Travel 386/125mm 435/150mm
 Insert Length 386/210mm 435/235mm
 Offset 0mm



20°



LCS-7152



LCSP-32

Tel: 886-4-7691125
 Fax: 886-4-7697206
 E-mail: leadtec-sales@umail.hinet.net
 www.leadtec.com.tw

NECO TECHNOLOGY INDUSTRY CO., LTD.

Product name: NECO8

Description: USUALLY HEAD PARTS HAS 5PCS OR 8PCS, BUT FOR NECO8 ONLY TWO PCS, EASIER FOR ASSEMBLING, AND REDUCE THE RISK OF MISSING PARTS

Product name: NECO11

Description: the Neco 11 has built in rectifier, Provide voltage regulation and stable current, Neco11 built in USB hole in side, u can use it for your electronic product, Such as Mobile, Gps and so on .

Stand number at the show: A5-403



NECO8



NECO11

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NUVO ENT. CO., LTD.

n+1-BC106P-D-MB

n+1-BC106C-D-MB

Function: With tool case and built-in mini tool box (included patches for rubber repair, chain tool) that's easily accessed with a simple push. Included is a precision full metal function mini tool that is comfortable in the hands for repairs.

B733AAO

Dome Size: 43mm

Handlebar size: 22.2 or 25.4mm

Material: Alloy top with alloy base

Weight: 43g

B733APQ

Dome Size: 43mm

Handlebar size: 19.2-31.8mm

Material: Alloy top with plastic base

Weight: 37g



n+1-BC106C-D-MB



B733AAO



B733APQ

Tel: 886-4-7696285-7

Fax: 886-4-7696288

E-mail: nuvo@nuvo.ws

www.nuvo.ws

PRO SUPERGO INTERNATIONAL CORP.

MODEL : SCO-005

Motor : 300W

Battery : 36V/4.0AH · 36V/6.0AH · 36V/7.5AH · 36V/7.8AH(LG)

Charging time : 4-6H

Display : LED

Frame Material : Aluminum alloy +ABS+PC

Climbing Degree : 15°

Max speed : First Gear:15km/h, Second Gear: 22km/h

Third Gear: 28km/h.

Brake form : Front : E-brake

Behind : Disc brake

Voltage : 36V

Resistance : IPX4

Carton Size : 112*15.5*53.5cm

Max load : 100KG

MODEL : SCO-006

Motor : 300W

Battery : 36V/4.0 AH · 36V/6.0AH · 36V/7.5AH(LG) · 36V/7.8AH(LG)

Charging time : 4-6H

Display : LED

Frame Material : Aluminum alloy

Climbing Degree : 15°

Max speed : First Gear:15km/h, Second Gear: 22km/h

Third Gear: 28km/h.

Brake form : Front : E-brake

Behind : Disc brake

Voltage : 36V

Resistance : IPX4

Carton Size : 117*30.5*47cm

Max load : 100KG



SCO-005



SCO-006

Tel: 886-2-22861939 / 22874013

Fax: 886-2-22868595

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Bicycle frame in the car use
 Applicable length 1080mm~1450mm
 Can use two bicycles Must be paired with RC-111



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RIM MASTER INDUSTRIAL CO., LTD.

PATENT



PATENT



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RODRIGO INDUSTRIAL CORP.

We, team OPTIMIST (Rodrigo Industrial Corp.) have dedicated ourselves to E-Bikes in recent years and have been successfully recognized by our customers. We spend lots of efforts and money in R&D to satisfy your need for E-MTB, E-City and E-Folding bikes. We look forward to serving you soon.



E-TRICYCLE TRIUM 48V/500W/13AH

Frame: Front 20", Rear 24" Alloy
Fork: 20" Sus. Fork, Alloy Crown Steel Leg w/Lock-Out
Rim & Tire: Alloy Rim, Kenda K1188, 20"4.0
Rear Hub: Alloy, 36H*12G, Disc Brake
Brake: F/R Alloy Disc Brake 160mm Rotor
Brake Lever: Alloy
R/Derailleur: Shimano RD-TY300, 7 SPD
Pedal: Wellgo B-249DU
Crank set: Prowheel PRO-V42PP-2
Motor: Bafang FM-060-500DC 48V*500W Alloy
Battery: 48V13AH, Samsung Cells, w/GPS Index System
Controller: Lishui, Brushless /Hall 48V/500W/19A
Display: SW900-2
Sensor: Bigstone V12L

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E-mail: headoffice@bikeoptimist.com / rodrigo@ms8.hinet.net
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Frame: Front 20", Rear 24" Alloy

Frame: Alloy Semi-Integrated Frame, Rear Disc Brake
Fork: Steel Fork with Alloy Crown and Blade, Thread, Disc Brake
Rim & Tire: Alloy Rim, Kenda K1188 20"4.0
Front Hub: KT SL5F 36H*13G*135W
Brake: Tektro M280 F/R Alloy Disc Brake 160mm Rotor
Brake Lever: Tektro EF550-RS + EF-555RT, Alloy w/Waterproof Cable
R/Derailleur: Shimano RD-TY300, 7 SPD, Direct Attachment Type
Crank set: Prowheel PRO-V42PP-2
Motor: Bafang C060-250DC 20" Rear 36V350W
Battery: 36V10.4AH, Samsung Cell, w/Charger
Sensor: Bigstone V12L

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Pillar Spokes uses the highest quality stainless steel for all of the spokes products. Now introduce Pillar Ebike spokes ranging from PSR reinforced plain gauge to specialty heavy duty spoke that fits any standard 14gauge rim. Pillar is the answer to your spoke needs.

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SS-8003

Direct mount crankset

Chaining:

34, 36, 38, 40, 42, 44T.

6061/T6 alloy pressed

Crank: Forged 6061/T6 alloy

Length: 165, 170, 172.5, 175mm

Speeds: 9-12s



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SPORZA INTERNATIONAL CO., LTD.

FLIGHT GRIPS

STM-01HR

Wide Diamond Pattern

Unique pattern allows anti slip with optimal comfort.

Material

This FLIGHT grip is thin and is made of high resistance rubber that feels good with or without gloves.

BONUS PACK

Includes grip, lock clamps, snap cap ends plugs, all hardware needed for installation and carbon head spacers.

PATENTED LOCK-ON SYSTEM

Patented lock-on grip system design ensures 100% slip free performance and simple no-hassle installation and removal.

STM-02HR

Dual Design Pattern

Dual directional-groove allows firm grip when you're in your bestrides!

Material

This Flight grip is thin and is made of high resistance rubber that feels good with or without gloves.

BONUS PACK

Includes grip, lock clamps, snap cap ends plugs, all hardware needed for installation and carbon head spacers.

PATENTED LOCK-ON SYSTEM

Patented lock-on grip system design ensures 100% slip free performance and simple no-hassle installation and removal.



STM-01HR

STM-02HR

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Fax: 886-4-24632795

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TAIWAN HODAKA INDUSTRIAL CO., LTD.

Characteristics of FTX system

01. Intuitive and bionic
02. Immediate response, no idle angular travel
03. Natural start up, climb and accelerate (even at high speed)
04. Reliable power cut-off when intended
05. Freedom of bike design – maintain your own style
06. Flexible components – battery, motor, display
07. In-tube battery allows cleaner design



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TAIWAN JOHNSON IND. CO., LTD.

ELECTRIC FOLDING BIKE ELECTRIC DOWNHILL BIKE

Taiwan Johnson Group is a private held business based in Taiwan operates three core businesses: designs, develops and sourcing products for customers worldwide, and on the other: operates an extensive logistics network and distributor serving major brands in and beyond Asia. Own brand is also an important business of TJG, ZERONINNE and MCC Cycle. As technologies and materials continue to advance, RD team at MCC Cycle continue to look for ways to come up with perfect cycling components, pushing it up to another notch.



ELECTRIC
FOLDING BIKE



ELECTRIC
DOWNHILL BIKE



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TAYA CHAIN CO., LTD.

E-MTB 12S Galaxy

TAYA, who with torque resistance for e-MTB, releases 12-speed chain. It's exclusive DHT hardness treatment applies on pins to strengthen the hardness over 460 Riveting, 30% harder than average. Nano Coating make cleaning much easily under all condition. During Euro Bike show 2019, we will display these great chain in our booth A5-205, and also held a party for each of you.



E-MTB 12S Galaxy

EL-ONZE-117

Brand new 11 speed chain will take the market by storm, with none roller design brings not only mute effect but also the most smoothly shifting experience ever.

The lightest weight in the world, got only 250gram, 20% less than other chain.

Self lubricant-groove design makes the chain life 20% longer, 10000km be proof.



EL-ONZE-117

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SPOKE HOLE 28/32
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AXLE 12MM
SEALED BEARING 4PCS
PALWS 3
WEIGHT 272G



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DER115

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P.C.D. 58/58
AXLE 12MM
SEALED BEARING 5PCS / 1 OVERSIZED SEALED BEARING
PALWS 5
WEIGHT 374G
OPTION : CENTER LOCK VERSION : DER1C5
OPTION : SRAM XD DRIVER : DER1X5 368G
OPTION : 12X142 : DER214 363G

TSAI JUNG ENTERPRISE CO., LTD.

IB-RA17 PakRak Road Bike Carrier

Clamp-on rack for road bikes or other bikes without mounting holes. Frame-seatpost mounted for light, top loads.

- For 26"-29" frames
- Fully height and length adjustable
- Fits various diameter and shape tubing

Features Suitable for bikes without mounting holes. Fits most 26"-29" bicycle frames, and various size or shape tubing. Clamps and straps equipped with non-slip, non-scratch pads. Carries up to 7 kg (15 lb). Reflector or taillight attachable. Material Durable TIG-welded, heat-treated, anodized aluminum, durable plastic.

Bike Compatibility Road, MTB, E-bikes, etc.

Bag Compatibility PakRak IB-BA11, IB-BA15, IB-BA21, IB-BA22. Other strap-attached bags.

670 g



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Fax: 886-4-7994996

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U-LOGIS CO., LTD.

14-218-560 series

Adjustable dropout with optional hangers

Process: Forging + CNC

Weight: Left dropout 137g. Right dropout 116g.

Material: 6061 Aluminum

Hangers: 14-218-100L for disk brake/14-218-100AL for V brake

14-218-100R for RD/14-218-100AR for normal

14-218-120L /R for through axle

Belt bike option: 14-218A-560SM

We are experienced in making E-bikes components like motor bracket, dropouts, cable guide...etc.



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YING PAIO ENTERPRISE CO., LTD.

BICYCLE REPAIR KITS



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VELO ENTERPRISE CO., LTD.

Velo e-Bike saddles increase comfort, functionality & performance

We know. We know. E-this, e-that, and e-something-else. It seems like every company and marketer is racing to slap an e-label on their products to move into the e-bike category, whether there is an actual consumer need, or related product innovation, or not.

But in some cases, there is a surprising, or maybe not immediately visible need for a product to be adapted to meet the needs of an e-bike rider. Take saddles, for instance. Most riders, and especially enthusiast cyclists, have a preferred saddle type. Sometimes it's a specific brand and model. Other times, maybe it's more like a shape or an amount of padding, a width or a cover material, or some combination of these elements.



Intuitively, bike riding is bike riding, and pedaling is pedaling, and a favorite saddle type should transfer seamlessly from completely human powered cycling to e-biking. But Velo have found that not to be the case for a few simple but important reasons. Foremost, because e-bikes provide a power boost, e-bike riders spend more time pedaling seated; there's less need for them to stand to generate power. And because riders don't have to pedal as hard to achieve a given speed, they put less of their weight on the pedals and more onto the saddle. Finally, e-bikes themselves are heavier, and place greater durability demands on saddles, as the saddle is used to lift or otherwise move the bike around for parking, storage, maintenance or transportation. For riders, this means switching from a standard bicycle to an e-bicycle will often have them looking for a saddle that offers somewhat more support and comfort. And it means that they need a saddle that is up to the task of being a key lifting point for a heavier machine.

Velo has addressed these needs through their e-saddle line, which incorporates three e-bike specific features into the designs. First, the Reverse ArcTech rail mounting system allows the entire saddle shell to conform to the rider's weight and pedaling style, increasing comfort without requiring a significant increase in padding, and keeping saddle weight and bulk to a minimum while delivering the necessary performance. Second, Velo e-bike saddles incorporate Atmos Shaping Technology, which enables the saddle cover to smoothly integrate with the shell, improving saddle durability. Finally, saddles with the i-Carry design incorporate a handle within the back of the saddle to more easily lift and guide the bike by the seat.

By paying attention to the details, and specifically, the needs of e-bike riders, Velo has leveraged the experience and capability developed through being the industry's leading saddle manufacturer for the majority of their more than forty year history into creating a line of saddles that makes cycling more enjoyable, more comfortable, and more convenient while delivering increased performance. View the entire offering here: <https://www.velosaddles.com>



Velo's Unrivaled Injection Molding Advantage

Since Velo's founding, the company has built up an unparalleled degree of technical knowledge, professionalism and reliability in the manufacturing of its saddles. However, perhaps less well known is that the company also uses its accumulated knowledge and technology to provide Taiwan's premier injection molding services for the OE production other parts based on customers designs.

Recently more and more globally-acclaimed customers have been discovering that the extent of Velo's expertise is not limited to saddles, grips, handlebar tapes and that the company is also able to offer the advantages accumulated over 40 plus years to produce any injection part.

No substitute for being No.1

Velo is not shy about innovating for the future. Its previous developments for saddles include such ground-breaking tech as double and triple density injection molding techniques, ArcTech and Wing Bow saddle suspension systems and the O-Zone cooling system. These innovative philosophies and advanced production techniques have been passed on to the company's OE production of other injection-molded products.

Velo is able to boast that it can produce injection-molded parts of any shape the customer desires. Additionally, the company is able to accommodate a wide range of state-of-the-art production techniques including inserts of different materials such as metals or even magnets. Double and even triple density injection products, where two or three different densities of plastic—usually one harder and the other softer, are injected on the same machine are also offered, as well as a complete range of color availability.

You name it, Velo can make it

For many years, Velo has been producing OE injection-molded parts to customers' designs, clients including many of the most renowned brands in the world. This wide spectrum of products ranging from fairings to fenders, downtube protectors and chain stay protectors to chain guards. Velo even manufactures parts for customers outside the bike industry, regularly supplying such products as hand guards or knee protectors to clients in the motorbike industry.

The burgeoning growth in e-bike sales worldwide has also led to Velo producing an increasing number of parts for electric assist bikes including motor covers, motor protectors, battery covers and battery protectors. With Velo's injection processes, the sky really is the limit for customer product designs.



Unrivaled capability and service

Velo employed over 2000 people worldwide. The company's main plant in Taiwan employs over 1000 people and has over 100 cutting-edge injection molding machines turning out precision parts 24 hours a day. Velo factories in Kunshan and Shenzhen further enhance and expand the company's production capabilities and capacity.

All tooling is carried out at the Taiwanese plant where Velo is able to take advantage its many years' experiences and CNC machines to rapidly and professionally open molds based on customer designs.

Bringing together all of these advantages, Velo is able to offer unrivaled service, cutting-edge technical innovations, and an unlimited choice in customer-designed injection products.

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Top cyclists keep emerging in Tour de France 2019.

New products bring new features.



The Tour de France 2019 took place grandly from July 6 to July 28. It was the 106th edition of this contest as well as the centenary of the yellow jersey. The Tour de France has always been the annual event that cycling lovers don't want to miss. The start of the 2019 Tour (Grand Départ) was at Brussels, Belgium outside France. The Stage 6 of the contest at La Planche des Belles Filles was the first trial for the cyclist on the peak. The next few challenges came right after it on the peaks of Tourmalet and Foix Prat d'Albis. Finally, the spotlight gathered on the apex of Foix Prat d'Albis, when Tignes, Val Thorens and others were climbing the slope. Only the cyclists who excelled at this challenge had the opportunity to enjoy the highest honor of wearing the yellow jersey before the Arch of Triumph in Paris.



In this year's Tour de France, there were 7 flat stages, 5 hilly stages, 7 mountain stages (including 5 mountain-top finishes), 1 individual time-trial stage, and 1 team time-trial stage. Specifically, new cyclists emerged in this year. Many celebrated cyclists,

such as Chris Froome, Tom Dumoulin, Marcel Kittel, Mark Cavendish, John Degenkolb, Nacer Bouhanni, Fernando Gaviria, and more didn't join the tour, adding changes to the contest.

After Teunissen of TEAM JUMBO - VISMA won Stage 1 and took the yellow jersey. In stage 2 (TTT), TEAM JUMBO - VISMA seemed to have the god's blessing, dashing to stage 3 with the speed of 57km per hour. Stage 3 returned to the French border after the start in Belgium. The road in the begging section was flat. Later, it came to the hilly road + uphill to the apex at the finish line. Julian Alaphilippe, the

French's hope, went solo for 16km and took the yellow jersey in stage 3. Stage 4 was a flat terrain, Elia Viviani won shockingly at the finish line. Stage 5 was a hilly race, Peter Sagan, the former champion won the race. The race on the mountains began in stage 6. There were hills, more hills, and continuous climbing. All cyclists were exhausted. Finally, the real mountain climber excelled at the final line of the mountainous La Planche des Belles Filles. Dylan Teuns of Team Bahrain Merida got the yellow jersey. Winning the





championship in this stage, taking the 6th honors for Merida this year.

After a few sections of dangerous mountain climbing challenges, it reached the last week of Tour de France. The key stage that changed the results was stage 19. After the rain and hail, the road was frozen, with water puddles and landslides. During the race, the timing was paused. Only the time when cyclists reached Col de l'Iseran was counted as part of the total score. The yellow jersey was taken by Egan Bernal. Stager 20 was not affected by the bad weather. The mile-

age was shortened to less than half of the planned distance. Vincenzo Nibali, nicknamed "Shark of the Strait," of Team Bahrain Merida joined the attack team when it started. At the final line on the mountain top Val Thorens sprinted solo, cycling 12 km ahead of the legendary Alejandro Valverde and passed the final line, winning the championship for stage 20 of Tour de France 2019. It was also the second chapionship won by Bahrain Merida. In stage 20, Egan Bernal was ensuring to win the grand finals.

After the 21 stages and 3365.8km

of contest, the Tour de France 2019 concluded perfectly. In this year's Tour de France, there were severe weather, such as the high temperature of 40oC, hail, and even landslides that forced the contest to a halt. There were 176 cyclists in total, and 155 of them completed the contest. Finally, the Italian cyclist Pinarello Dogma F12 and the 22 years old Columbia cyclist Egan Bernal finished the 21 stages of contest with the time of 82 hours and 57 minutes, respectively, beating the sprinter and the last year's champion G. Thomas of Team INEOS by 1 minute and 11 seconds.





Egan Bernal – The yellow jersey

Before this year's Tour de France, most cycling fans didn't know Egan Bernal, who was born in a mountainous area – Zipaquira, 42 km north of Bogota and at the elevation of 2650km above the sea-level in Columbia. International media was shocked by his performance, exclaiming "Astar is born!" He is the new yellow jersey, as well as the youngest

champion of the yellow jersey over the past 110 years. At the beginning of this year's Tour de France, Egan Bernal did not win much attention. It was not until the 3 stages before the grand finale, i.e. stage 19, when Egan Bernal won the yellow jersey for the first time because the distance was shortened from 130km to 59km due to the landslide. He took the lead and was the first to pass the final

line becoming the youngest champion in cycling in the history of Columbia.

Egan Bernal's championship scored the 7th victory for Team INEOS in the Tour de France over the past 8 years. The four-time champion Chris Froome was still rehabilitating because he was injured in a car accident in June so that he couldn't make the Tour de France this





year. Team INEOS announced that Chris Froome's recovery was far better than expected. It is hoped we can see him race in Tour de France next year.

Peter Sagan, the sprinter

In this year's Tour de France many young debutants emerged. Nevertheless, in the battlefield of sprinters, it was still the world of Peter Sagan, aka Tourminator, the 29-year-old Slovakian cyclist. He was riding an

American-made bike Specialized S-Works Venge, which was even tested with a wind tunnel built especially for this model. The new Venge is 8 seconds faster than ViAS. In addition to the aero effect that makes it top the road bike, its weight is 460g lighter, which should be one of the major reasons. Winning the world championship for 3 times, in this year's Tour de France he

won the first prize in 5 stages, adding up to 12 individual championships in his career. Finally, he won the yellow-green jersey for the sprinter for the 7th time over the past 8 years with the scores of 316 (2012-16; 2018-19). He is successful in breaking the record of E. Zabel,





who had won the green jersey for 6 times. To commemorate this record, Specialized had presented 100 limited edition S-Works Venge Disc Sagan 7x frames. They were the same as the Venge frame used by Peter Sagan in stage 21 in Tour de France 2019. These frames were sprayed by the same Italian artisan with the same design of the champion winning model of Peter Sagan. Its list price was NTD

210,000. All of them were sold out in 30 minutes after the release of the news.

Romain Bardet, the climber

Julian Alaphilippe, the French cyclist, that had endeavored to take the lead and wear the yellow jersey for 14 days, lost the yellow jersey in the 3rd stage from the grand finale. He missed the opportunity of being the second French champion





since B. Hinault in 1985. Nevertheless, he still encouraged many French people and contestants. In this year's Tour de France, 5 contestants out of the 15 cyclists that ranked the top 15 were French. Romain Bardet, the 28-year-old French Polka-dot jersey winner, made unexpected achievements. With the scores of 86, he became the climber champion in Tour de France 2019. The climbing bike used by Romain Bardet was the StockEU69, made by the Belgian manufacturer Eddy Merckx StockEU69. The kits were mixed with CP and Shimano. The other parts of the kits used were Mavic wheel stand the Rotor crank/power meter, when assembling this racing bike.

Taiwan made refined parts are always found in Tour de France

The CCC and Merida Team Bahrain Merida supported by the two major bicycle manufacturers in Taiwan – Giant and Merida respectively won the 14th and 15th places. Among them, V. Nibali the “Shark of the Strait” and D. Teuns the train took two championships in two stages – stages 20 and 6, respectively.

Giant and Liv announced their becoming the new collaborative partners of the CCC Team, which used GIANT TCRADVANCED SL during their training. The Central Taiwan Science Park





was chosen as the base for the global operating headquarters and R&D center, Giant sponsored CADEX – the presentation of high-end parts before the Tour de France 2019. The name CADEX originated from the pioneer of a daring and innovative carbon fiber frame released by Giant in 1985. The new products presented under the CADEX parts series included the wheel set, tire, and saddle. The new brand will be installed on the

high-end limited edition of Giant and Liv in 2020. After years of research and development, CADEX collaborated with engineers, biomechanics. Class 1 professional cyclist teams and athletes during the testing. After reconsidering all possibilities of bicycle products, CADEX parts and components were officially released in limited edition before the general public. In the past two years, in the domains of development, testing,

or contests, Giant has invited many professional cyclists, including Greg Van Avermaet, the champion in CCC, Tim Van Berkel and Sam Appleton, the Australian triathlon athletes, Marianne Vos the three times champion of the Road World Championship of CCC-Liv, and more to test the wheel set, saddle and tire. With their collaborations, cyclists that demand quality and maneuverability will have new choices.○





2019 Sea Otter Classic - No fence, Let the bicycle talk!

New peak of participant number



The Sea Otter Classic Carnival, the largest cycling event in North America, is not only a classic event in the bicycle industry, but also a carnival exhibition for American bicycle fans and a family-friendly carnival. Since the 1st session of the Sea Otter Classic Competition in 1991, this

year is the 29th annual Sea Otter Classic. The Sea Otter Classic Competition has now become the largest cycling event in North America.

This year's exhibition was held for 4 days from April 11 to 14, according to the organizer. This year's Sea Otter Classic Competition has reached a new peak, with a total of approximately

75,000 participants. The Sea Otter Classic Competition was held at the WeatherTech Raceway Laguna Seca in Monterey, Calif. Every year, a large number of national and Olympic star cyclists are invited to pilgrimage.

During the exhibition, in addition to professional-level cross-country MTB race, downhill race, short-distance





race, dual slalom race, endurance race, road single day + multi-day race, circuit road race, cross country road race and classical events such as time trials, as well as children's Kids' Track Race, Sea Otter Egg Hunt and other family-friendly funny games. The event attracted up to 10,000 professional and amateur players, including a variety of professional-level racers.

There are many types of competitions in the Sea Otter Classic Competition, such as the downhill race. Greg Minnaar, who won 18 championships in the downhill race, and Dan Atherton, who owns the brand AthertonBikes... etc., the celebrities from the cycling industry, participated the competition. Although the distance of the downhill track is short, but it is full of technical points such as curves, rocks, undulations. A large number of people gather at the turn where the technology point of the track. All the drivers have shown their special skills in the competition. Jump over the switchback track. Greg Minnaar, across the V10, and Steve Peat, the legend of downhill category, are the only two players in the race to





ride the double crown downhill.

Enduro race is a new force in cross-country mountain race. Enduro race combines the advantages of Downhill (DH) and Cross Country (XC). The main course is mainly the downhill, the proportion of the uphill is not large. And this competition tests racer's skill, confidence, vigor and endurance. There are 4 stages in this competition. In the first stage, the riders have to cross the classical downhill track of the Sea Otter classic. And the middle two stages, concentrates in the deep forest where adjacent to the venue. These two stages

are full of high-speed turns. McKay Vezina won the first place in the competition of the dual slalom race finally.

In the Cross-Country Mountain race (XC), Christopher Blevins, the American teenaged rider, who just had his 21st birthday, won the men's championship. The women's team was equally competitive. And Annika Langvad won the victory. Kate Courtney, who just transferred to the Scott-SRAM team, the MTB-Racing world champion, have suffered a mechanical failure shortly after the race beginning, got the third place.





In the electric bicycle race, Bosch eBike Systems and Bulls Bikes jointly held the fourth electric mountain bike race in the Sea Otter classic. And have updated one of the courses. The entire track is set up with a 500-foot climb for every 2.5 miles, testing the muscular endurance of all players! Downhill single-track is sharp swooping, with many obstacles along the way to prevent electric mountain bikers from speeding over 32 KM per hour!

Adam Anderson, Sales Manager of Bulls Bikes USA, said: "We expect we are the most challenging electric

mountain bike race while in the first year of our sponsorship of the Sea Otter Electric Bike Competition. Claudia Wasko, vice president and general manager of North America, said with the company's research and development in timing systems, integrated batteries, and the geometric design of the frame, the company's electric mountain bikes have been so famous with leading technology.

In the exhibition booth, all the manufacturers showed a variety of novel electric bicycles to attract people's attention. Specialized exhibit-





ed the latest Turbo Levo, the stylish appearance of matt black, suitable for cycling between the muds. And another exhibition created by Robert Egger Named Road Toad, with Hodaka-style mini electric bike. BMC from Switzerland emphasizes its traditional craftsmanship, exhibiting a full carbon fiber plus integrated driving system red Alpenchallenge AMP Cross and Aqua Blue Trailfox AMP SX, designed for adventurous players, simple design and practical electric bike.

kitchenware bags, encourage people to ride the electric bike for enjoying the tour. Giant is also synchronized with LIV to exhibited a variety of electric bicycles, equipped with new mid-mounted motor, including LaFree E+, Trance E+, Quick E+, and Road E+ ...etc.. The high performance evaluation was well received. The GIANT electric car series is also a frequent winner to the Taiwan National Boutique Awards.



Benno Boost E is the one emphasized loading function. With camping equipment bags and the

The German brand Fazua has released a lightweight electric bicycle motor system for road bike and mountain bikes. This motor system can





be hidden in the down tube of the frame. This lightweight motor can occupy 80% of electric road bikes and 80% of electric mountain bikes in Europe. Fazua said they will enter the North American market, and they plan to launch this light way motor electric bikes in the US and Canada this fall.

Arevo, a company in silicon valley, and Franco Bicycles showcased the world's first 3D printed carbon fiber integrated frame at the S9 booth at the

Sea Otter Classical Competition. They apply this onto the new generation of electric bicycle branded "Emery One" eBike. Arevo DNA™ developed manufacturing technology in 3D printing. And they own the patents of manufacturing and operation, with the intelligent void-free continuous carbon fiber process enhances the integrity and stability of the frame structure. In addition to optimization for various composite materials, the design and manufacture of the customized frame





takes only a few days, which greatly reducing Product development costs.

According to statistics from the organizers, there are more than 75,000 people participated 2019 Sea Otter Classic Competition, which including 9,000 athletes, 400 media representatives, 1,000 cooperative brand members, 8,500 campers and 6,500 students. The number of exhibitors from Europe, Australia, Asia and South Africa increased by 30%, including 40 electric bicycle companies, with more than 800 bicycles on display. This year's exhibition covers a total area of about 200,000 square feet. On-site exhibitions

include various types of bicycle such as road bikes, cross-country mountain bikes, urban bikes and bicycle-related equipment, accessories, and clothing. Many products are future bicycle developing trends, secret development for the new year, and even brand new products which are still under testing. This is an unexpected bonus to the participants and media.

Sea Otter Classic is one of the world's largest consumer bicycle exhibitions. The four-day exhibition attracted more than 450 bicycle-related exhibitors. The Sea Otter Classic Competition uses the unique display form of event + brand

release + exhibition, which makes more and more big brands are willing to participate and join the promotion list. Unlike the other trade shows, Sea Otter offers a good opportunity to ride a bicycle under the sun, more interesting and more enthusiastic than the other trade show located entirely in the convention center. With the long-term brand accumulating, the bicycle fans and bicycle industry players are deeply rooted and their influence is expanding widely. After nearly 30 years of developing, Sea Otter Classical Competition has become the largest leading bicycle show in North America. ○





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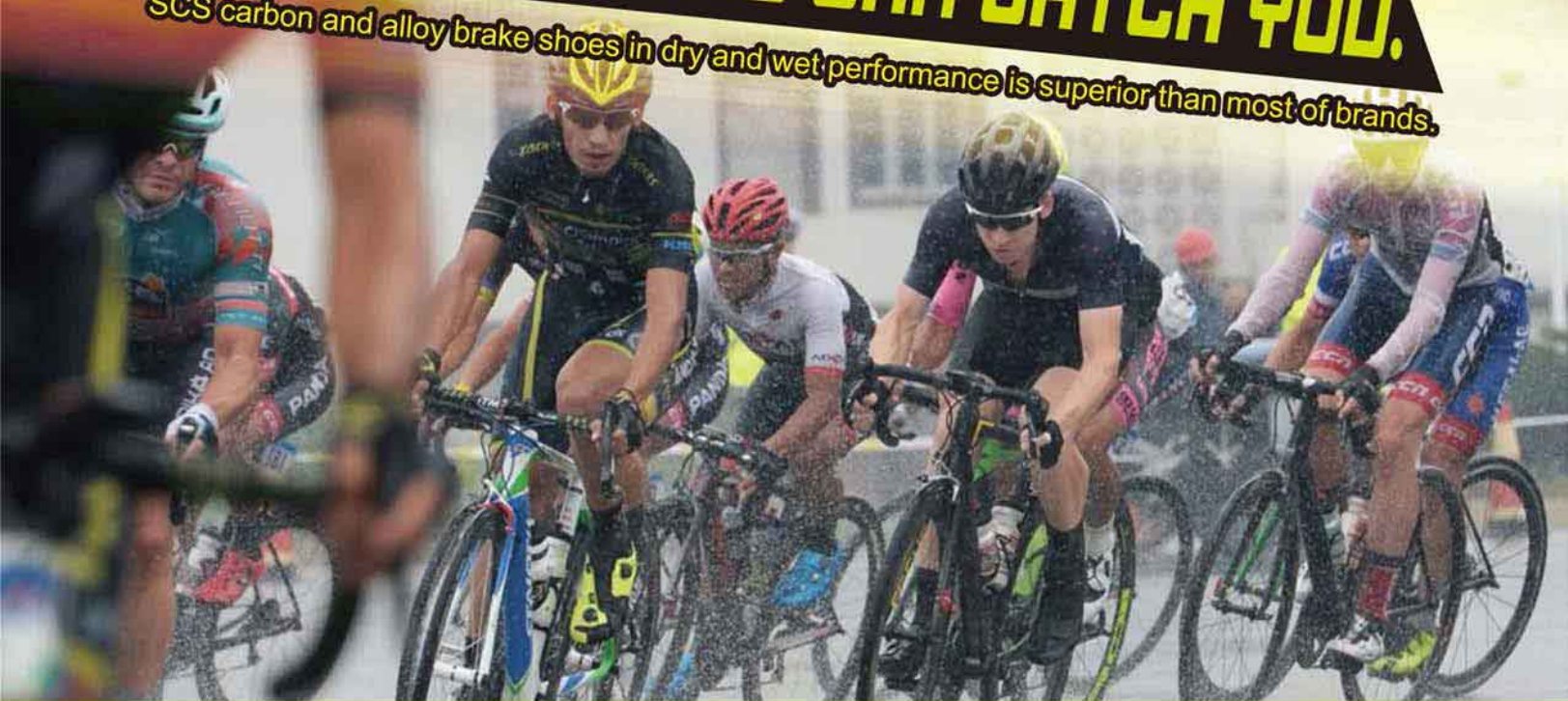


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NECO
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5

TOOL FREE
QUICK RELEASE
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Patented quick
release structure
design.



CHINA
PAT.

201620848170X



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ONE-PIECE
HEAD PARTS

Innovative design that simpli-
fies traditional, sturdy parts.



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Patented quick
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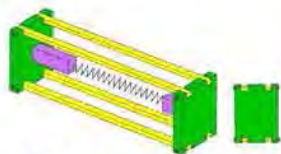
Tel: +886-4-8811738
Fax: +886-4-8812386

info@wheelmate.com.tw

Twin-Frame Bicycle Patents on Sale : Total US\$ 600,000

Market and Price	Title (名称)	Filed	Period (专利期限)	Process and Certificate
European Union US\$ 300,000	Twin-Frame Bicycle Patent Application: 11 161 941.7	2011.4.11	2018.2.21~2028.6.9 Bulletin 18/08 of 2018.2.21	Patent No. 2394896 Priority claimed: 2010.6.11/USA 814203
U.S.A. US\$ 300,000	Dual Riding and Driving Tricycle	2009.7.23	2011.1.25~2028.6.9	No.12/507,914 US7,874,566 B1
	Twin-Frame Bicycle	2010.6.11	2012.4.3~2028.6.9	No.12/814,203 US8,146,937 B2
P.R.O.C. US\$ 200,000	并列式脚踏车	2009.3.24	2013.2.6~2029.3.23	CN102036873A 发明第 1132402 号
	双车架脚踏车	2011.4.15	2013.5.1~2031.4.14	CN102275622B 发明第 1188273 号
Taiwan	并联式脚踏车	2009.6.30	2012.6.21~2029.6.29	No.201004835 发明第 1366533 号

Bicycle and Bicycle



One articulation mechanism is disposed between a primary bicycle body and an auxiliary bicycle body, wherein the mechanism serves in synergy an parallelogram and a spring counteracts the deformation of the mechanism to maintain equilibrium. Both ends of the mechanism will be fixed on the bicycle bodies with two screws, the spring tension will be adjusted with another screw. Therefore, when bicycles turn or move on uneven surface, it can still keep moving stably, but will not overturn.

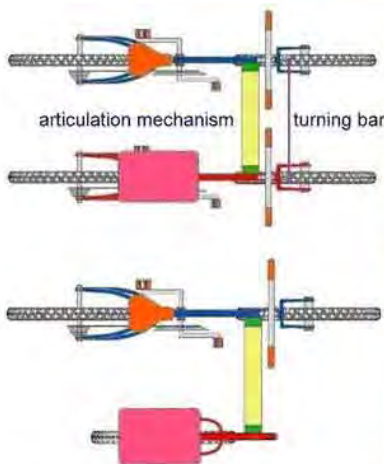


Both the primary bicycle and the auxiliary bicycle are ordinary bicycles. The juxtaposing link contains a turning bar, an articulation mechanism and a connecting rod.

If the auxiliary bicycle is rode by an adult, a supplementary handlebar can be installed on the connecting rod. It can be provided for child, the elder or the handicap to ride.



Bicycle and Sidecar



It is convenient and comfortable for riders to carry their child or pets out to go for a bike ride. Young children are physically unable to

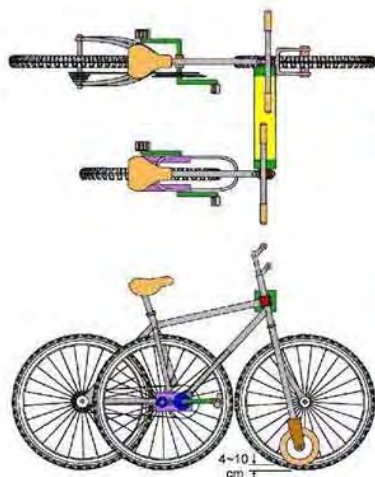
pedal the bicycle. Likewise, pets have no ability to step on the pedal of a bicycle, so it is economic and convenient for select a unicycle or, alternative, unicycle driven by motor.

make choices according to their needs. If a child is seated, a dinner plate can be installed on the connecting rod that is between the mechanism and the bicycle body.

The primary bicycle is responsible for the safe operation of the vehicle. The design of this model allows the user to

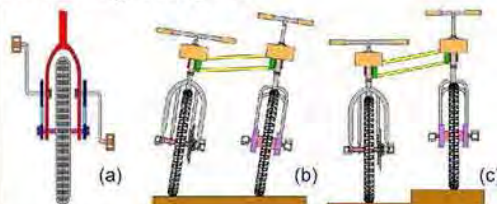


Dual Riding and Driving Tricycle



1 lock
2 adjust
3 loose
tricycle mode

1 loose
2 adjust
3 lock
bicycle mode



(a) pedals drive wheel through gear unit
(b) turning right
(c) uneven ground



Bike tow leash

Weight : 294 g

Material : Nylon + 30% GF

Rope length : 2.55 m



Use for :

1. For children to ease for climbing up hills .
2. Easy for parents to guid their child on the ride .

Assembled on (Head Tube)



Assembled on (Seat Post)



YUNG FANG PLASTIC CO., LTD

Add : No.306, Sec.4, Changnan Rd., Fengyuan Hsiang, Changhua Hsien 50241, Taiwan.

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COMPATIBLE TIRE
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COMPATIBLE BATTERY
500wh & 600wh

Alloy

G2 Range Extender

Range Extender Battery
360wh option



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Shimano



Model code: ASCSEA
Horst Link / Enduro

Carbon

Model code: ASBHA
Horst Link / Enduro



Alloy

Bosch

Model code: ASCBEA
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Carbon



ASTRO ENGINEERING CO., LTD.

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01. *Intuitive and bionic*
02. *Immediate response, no idle angular travel*
03. *Natural start up, climb and accelerate (even at high speed)*
04. *Reliable power cut-off when intended*
05. *Freedom of bike design – maintain your own style*
06. *Flexible components – battery, motor, display*
07. *In-tube battery allows cleaner design*

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Add: 4F., No. 100, Sec. 2, Chang'an E. Rd., Zhongshan Dist., Taipei City 104, Taiwan

Tel: 886-2-25052301 Fax: 886-2-25013598

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<http://www.hodaka.com.tw>

