March 9, 2022

TAIPE SHOW DAILY CYCLE SHOW DAILY

PREVIEW/DAY 1



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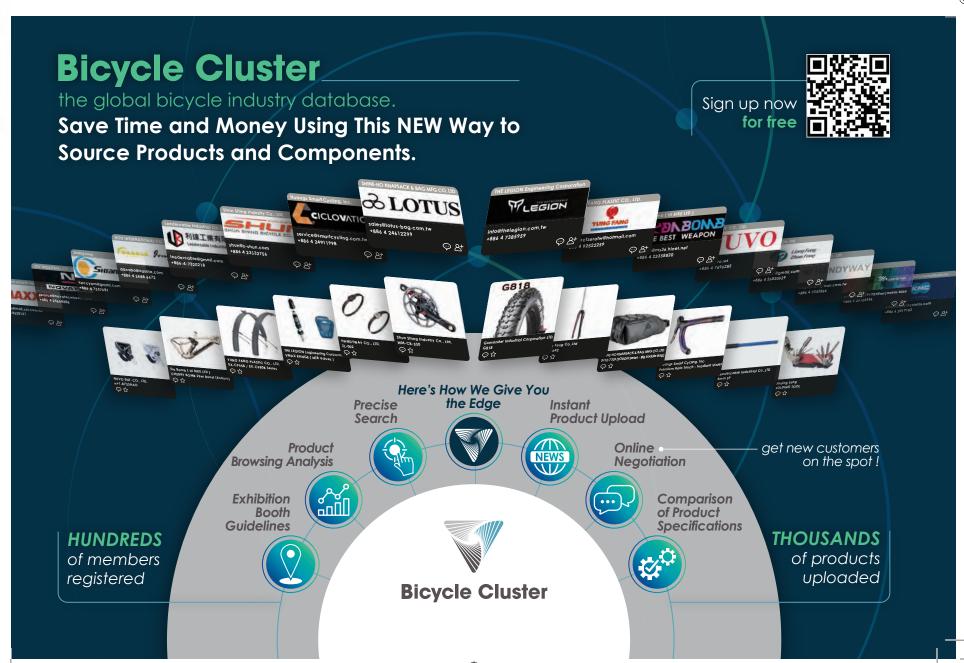
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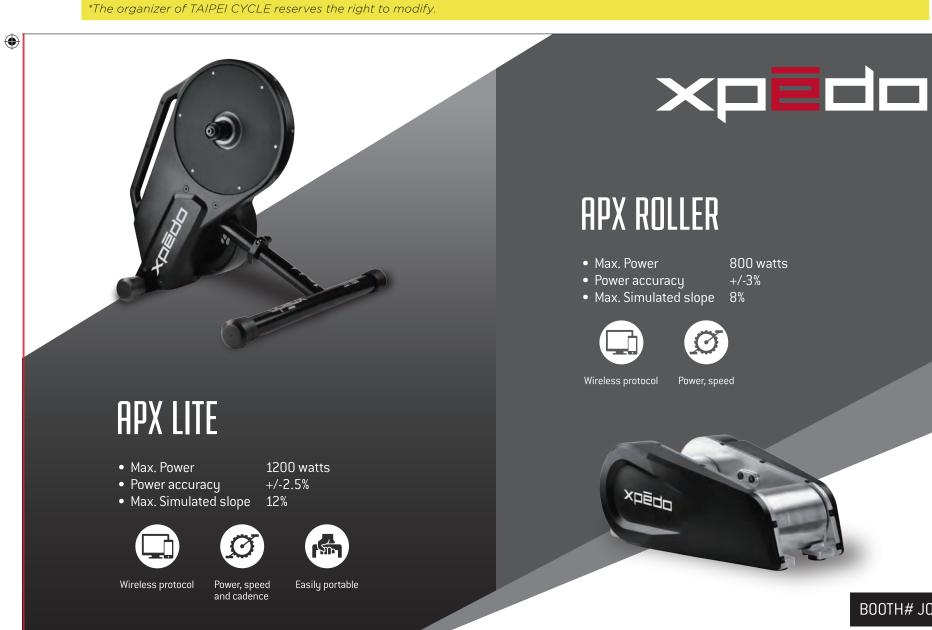


TAIPEI CYCLE 2022	Show Profile	
Organizer	Taiwan External Trade Development Council	
Exhibition Dates	March 9 ~ March 12, 2022	
Main Themes	 Bicycle supply chain: bicycle parts and accessories Complete bicycles Overseas exhibitors and international brands 	 e-Bikes and drive units: e-Bikes, electric motor, battery, electric parts and components Cycling lifestyle and fashion: cycling accessories, bike tour services, smart cycling services, startups, fashion show, TAIPEI CYCLE+ salon
Unique Show Features	 A hybrid show, both on-site and online. The long-awaited gathering of the world's leading B2B cycling industry leaders. Direct access to cycling's leading global brands and manufacturers. The gateway event for brands to reach the Asia-Pacific markets. 	 A hub to exhibit and see the latest designs, innovation and R&D in cycling. The one stop shop event to conduct business with stakeholders all across the global supply chain. Witness the intersection and collaboration of the electronics and cycling industries through connected technologies.
Exhibition	TAIPEI CYCLE Show: 638 exhibitors/ 2111 booths TAIPEI CYCLE DigitalGo: 207 exhibitors.	https://online.taipeicycle.com.tw/
TAIPEI CYCLE Key Exhibitors	Giant, Merida, Ideal Bikes, Darfon (BESV), Shimano,	SRAM, KMC, Pacific Cycles, KTM
Events	TAIPEI CYCLE d&i awardsPre-show press conferenceTAIPEI CYCLE FORUMOutdoor Taipei (outdoor event)	
Theme Pavilions	TAIPEI CYCLE d&i awards Pavilion	
Free visitor services	Online & onsite registrationIn-hall wireless InternetShow publicationsShow APP	Information CentersMuslim prayer roomLegal consultation service





TAIPEI CYCLE 2022	DigitalGo Calendar* https://online.taipeicycle.com.tw/						
WEEK ONE: THE REUNION	7	8	9	10	11		
THE REUNION			Show Daily 1	■ Show Daily 2 ■ Forum ■ Live Tour Market Day US *GCN(TBC)	■ Live Tour Market Day Europe GCN(TBC)		
WEEK TWO: ONLINE CONNECTIONS	14	15	16	17	18		
ONLINE CONNECTIONS	■ 1. E-Newsletter: TTS Match & d&I awards 2. DigitalGo's Bulletin board Announcement	TTS Match	TTS Match d&i award winners	TTS Match d&i award winners	TTS Match		
WEEK THREE:	21	22	23	24	25		
THE KNOWLEDGE BANK	■ 1. E-Newsletter: This week's feature exhibitors (schedules) 2. DigitalGo's Bulletin board Announcement	Video Feature: complete bike	Video Feature: Ebikes & Drive units Smart cycling devices	Video Feature: Bicycle Parts, Bicycle Accessories	Video Feature: Int'l brands & Cycling Services, Smart cycling devices		
WEEK FOUR:	28	29	30	31	1		
THE HIGHLIGHTS	■ 1. E-Newsletter: Highlights 2. DigitalGo's Bulletin board Announcement	Live Tour Video	Live Tour Video	Webinar video: Gina Chang Discover Market Trends and Marketing Strategies	Webinar video: Pacific Cycles, KTM Sharing experience: How to Integrate ESG into Business		
WEEK FIVE: THE WRAP UP	4	5	6	7	8		
THE WRAP UP	 1. E-Newsletter: Highlights 2. DigitalGo's Bulletin board Announcement 	Forum Videos	Market Day US & Europe Videos	Live Tour Videos			



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INNOVATION IS KEY TO LATEST ELECTRIC DRIVE SYSTEMS

After two intense years dominated by high demand for bicycles, components and parts, serious supply chain issues and price hikes in raw materials and freight costs, the Show Daily sat down with Gina Chang, Secretary General of the Taiwan Bicycle Association, to discuss how Taiwan's bicycle industry fared during the pandemic.



Gina Chang, Secretary General of the Taiwan Bicycle Association

series of three books that help its members to map their business, optimize their networking efforts and improve in terms of branding and aesthetics.

Show Daily: Which are the main trends TBA will be focusing on in 2022, and what are the challenges? Gina Chang: Improving the online presence of Taiwanese manufacturers, many of them small and medium enterprises, is key. We are also looking for ways to lower the carbon footprint of their production and make them greener. To qualify for eco certifications, the entire supply chain needs to be examined and to be optimized where necessary.

One big and constant challenge for Taiwan's bicycle industry that limits fast growth is to find staff in sufficient numbers, with qualified employees being particularly hard to find. One way to address this issue is to push for the automation of the production. Laurens van Rooijen

Show Daily: What is your assessment regarding the last two years? Gina Chang: Taiwan's bicycle industry has seen another year of strong growth in the e-bike segment in particular. Even under the impact of the Covid-19 pandemic, the market demand continues to soar. According to our export statistics the United States outpaces the EU region in terms of growth, which was a surprise for us. At the end of the third quarter, Taiwan had exported close to 750,000 e-bikes and 1.5 million conventional bicycles.

Show Daily: Where do you see the main challenges for Taiwan's bicycle industry?

Gina Chang: Due to the Covid-19 pandemic markets have been changing at a fast pace - faster than we could ever imagine. The ongoing trend towards e-bikes has been a chance and a threat at the same time. The rapid evolution of e-bikes has put small and medium companies under pressure due to high development costs. But as this segment is going from one high to another, most manufacturers want to be part of this booming business

Show Daily: What is your assessment of the most important markets?

Gina Chang: Europe is the biggest bicycle market in the world, so the competition is tight. To keep growing in this market we are looking at new generations and their interests, and also post-pandemic environment. Starting from a lower level, the markets in North America and in the United States in particular have shown a particularly dynamic growth, so that is very promising.

Show Daily: What is your assess- Show Daily: What other markets ment regarding the last two years? are on TBA's radar currently?

Gina Chang: Australia has been developing rapidly as of late, so we are surely looking into this market. As for Asia there are two distinctive markets, with Northern Asia (i.e. Japan, Korea, China and Taiwan) differing vastly from South Asia in terms of buying power and the technical knowhow of IBDs regarding latest technologies. So for South Asia in particular we need the right product and we also have to look into the right sales channels. This means less integration, less flashy features to ease both assembly and maintenance, and it may well mean opting for direct sales through the internet.

Show Daily: Apart from keeping track of market developments, what other assistance is TBA offering to Taiwan's bicycle industry?

Gina Chang: As physical meetings at trade shows such as the Taipei Cycle Show and the Taichung Bike Week have become much more complicated, keeping in virtual contact is key. We think many Taiwanese companies still have some room for improvement in terms of internet marketing and the online presentation of their expertise and products. For this reason, TBA has launched several online initiatives to coach our members and provide the know-how to show product abilities on camera for their existing and potential customers. After all, the product presentation online and at physical shows differ vastly. Also, TBA brought out a



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TAIWAN'S INDUSTRY SEES SOARING DEMAND BUT FACES INFLATION & RECRUITMENT ISSUES

NAVIGATING THROUGH THE PANDEMIC

The export numbers of Taiwan's bicycle industry have been impressive over the last two years. But it has not been all smooth sailing, as various consequences of the pandemic posed real challenges for manufacturers to meet existing orders and cover a globally increased demand.

hroughout 2020 and 2021. global demand for bicycles and related parts and accessories has skyrocketed. In 2020 demand grew by a whopping 30 percent globally. In 2021 growth may have been somewhat lower. but that's in comparison with that highly extraordinary year before. Pandemic-related travel restrictions, closed gyms and people looking to avoid public transport and the infection risk associated with it on their daily commute caused this increased demand for bicycles. Large cities such as Berlin or Paris repurposing road space as pop-up bike lanes further added to a situation where bicycles were jokingly referred to as "the new toilet paper" during the pandemic. An end of the current bicycle bonanza does not seem to be in sight as the EU plans to lower VAT on all kind of bicycles as part of its post-pandemic New Green Deal and the United States is likely to introduce the first ever federal tax credit for e-bikes.

Even under perfect conditions this strong rise in demand would have posed a serious challenge for Taiwan's bicycle industry. But the last two years served up a perfect storm for the kind of industrial production that relies on global supply chains. The cost of sea freight skyrocketed while its reliability went down drastically, due to closed ports and the backlog that followed suit. Manufacturers were facing a double-pronged challenge, first to get their respective products produced in time in the needed quantities according to their order book and then to get those products shipped to the markets where distributors and consumers alike were eagerly awaiting them. Since many Taiwan-based companies also run factories in China and Vietnam, they faced separate challenges there, including power cuts, lockdowns and closed factories.

How did key players of Taiwan's bicycle industry get through these two challenging years? Show Daily reached out to them to find out. First of all, TBA's impressive export numbers are confirmed by all of the companies contacted. A typical example is Giant Group, Taiwan's biggest bicycle manufacturer, as chairwoman Bonnie Tu explains: "The global demand for both regular bicycles and e-bikes was strong. As a consequence, our revenue grew by 10.3 % in 2020 year-on-year, and in 2021 it even grew by 16.9 % as we picked up the rewards of earlier investments." KMC Chain's Adrian Bleiler has a similarly positive estimate on how turnover developed: 'Over the last two years, KMC has experienced a continuous sales growth of 20 to 25 % as a result of heightened demand and strategic investments.

In terms of profit, for many companies things were not as rosy as the turnover increase might suggest. RST's global sales manager Susan Chang points to one major reason for this: "Due to the strong demand from the market, our turnover grew. But profits didn't see the same strong growth because the prices of raw materials increased a lot, and we had to absorb some percentage of this increase ourselves." Novatec's marketing manager Jeff Chen adds: "Since raw materials were not only in high demand with the bicycle industry but also with other industries, we had to fight for those and faced higher prices as a consequence." Another source of worries were logistics and sea freight, as Giant Group's Bonnie Tu points out: "Increasing tariffs and growing lead times in global ocean freight could bring some impact to both sales and profit growth. The same goes for the limited supply of bicycle components that is likely to lessen the production rate.

A long-lasting problem for industrial production in Taiwan is the lack of factory workers and qualified staff in particular. Various factors converged to amplify the issue as of late, including the government's tightening of rules on overtime hours. From March 2020 strict travel restrictions to keep the pandemic out caused more problems as Novatec's Jeff Chen points out: "As a manufacturer we very much rely on labor from South-East Asia. The travel ban and restrictions did have an impact on some of our production capacity. As a consequence, we could not increase staff at our Taiwanese factory as much as we would have liked. Even in China finding skilled workers is getting more difficult every year." Interestingly, RST managed to recruit additional staff, according to Susan Chang: "For both our factories in Taiwan and in China, we have been increasing our staff by 10 to 15 % over the last two years

It's not just the availability of raw materials and skilled workers that have been limiting the output of factories. Distancing rules and other governmental restrictions related to the pandemic also had an effect, as Velo Saddles' Vice General Manager Ann Chen points out: "To ensure the safety and health of our staff during the pandemic, we have not been increasing staff numbers in our factories. In Vietnam, last year's lockdown has postponed the opening of Velo Saddles' new factory. Instead of becoming operational in 2020, we had no choice but to reschedule and we now hope to start producing there in 2022." Giant Group's Bonnie Tu confirms the impact of pandemic-related restrictions as well: "Apart from stricter rules on overtime work and the general lack of factory workers,



Novatec's Jeff Chen

these restrictions lessened the output of the production. However, employees' physical and mental health are extremely important to us."

A proven way to lessen the dependence on recruitment and migrant workers is to invest in automation, and many manufacturers in Taiwan had started to do just that pre-pandemic, to offset the higher labor costs in Taiwan when compared to China or Vietnam. One example for this is KMC Chains, as Adrian Bleiler points out: "Automation investments in the last decade have allowed us to develop a stable long-term human workforce. Due to this no shortages of employees were experienced in 2020 and 2021." RST's Susan Chang also points at this way to mitigate bottlenecks regarding factory workers: Thanks to more and more automation, workforce shortages are not a major issue for our operations." And Jeff Chen explains: "Novatec has been investing in automation to replace simple jobs. We have been working with students from surrounding colleges and universities to find better skilled staff for the future as well."

But automation is not a feasible option for every manufacturer as Velo Saddles' Ann Chen explains: "We are doing our best to increase the capacity through higher efficiency and automation, but due to the level of customization that Velo offers to its customers there are still many tasks in our production that



Susan Chang , RST global sales manager

require human labor." This points at a weakness of robots that are highly efficient in producing large amounts of standardized items but that cannot compete with human beings in terms of flexibility. The impact of the pandemic on the daily business of





Adrian Bleiler of KMC Chain

Ann Chen of Velo

Taiwan's bicycle industry could have been much more serious if it were not for two factors: by reacting swiftly and imposing strict immigration controls early on, Taiwan managed to keep Covid out for more than a year and only faced one serious wave of infections thus far. So far the country has seen no lockdowns.

In addition many manufacturers in Taiwan were lucky (or wise) to have invested in new production facilities both domestically and abroad before the pandemic struck, making it easier to absorb the increased demand and to avoid a cluster risk for their operations. As for a time line for a return to some

kind of normal, the managers contacted by Show Daily were reluctant to risk a statement - not all that surprising two years into a pandemic that keeps surprising the world with new mutations. Until this is the case, it's best to follow the advice of Velo Saddles' Ann Chen: "When

the world is changing, we must be

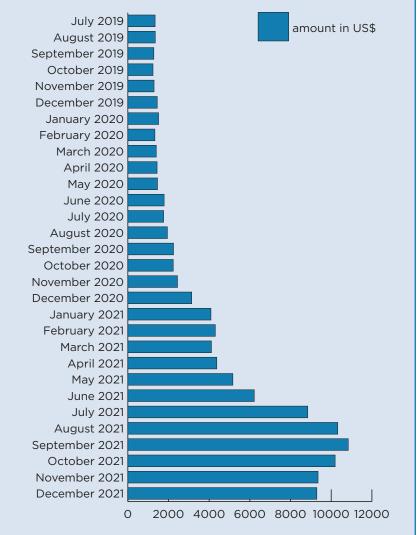
prepared for ourselves to follow up and adopt to the changes at hand." With this in mind, let us all hope that suppliers, manufacturers, distributors and bicycle dealers soon will be able to meet again. Plenty has happened since the last meetings in person, so there is no lack of topics to discuss. Laurens van Rooijen

FREIGHT COSTS SOAR

When the MS Ever Given drifted off her trajectory and blocked the Suez Canal for a full week in March 2021, it looked like a fitting metaphor for the chaos inflicted on logistics, and sea freight in particular, by the Covid-19 pandemic.

With its advanced division of labor, complex supply chain and often large distances between factories and markets, the global bicycle industry depends heavily on sea freight. As an island nation and a key player in this global industry, Taiwan naturally is no exception and it was not spared from issues such as a lack of containers and temporarily closed harbours that caused massive backlogs. For example, Merida Industries could not ship 15,000 finished bicycles at the end of September 2021 due to a lack of containers. These bicycles were missing in the result for the third quarter as a consequence. Merida was not alone in facing these logistics issues. Delays regarding the estimated date of delivery were commonplace throughout the industry - sometimes caused by a lack of components and parts and sometimes caused by bottlenecks regarding sea freight.

As always, there are some winners in times of trouble as well. When a product or service is scarce in a market economy, prices go up. The prices for 40-foot standard shipping containers increased almost tenfold globally, with even steeper hikes on the most popular routes from Far East to the West coast of the United States and to the European harbors of Rotterdam and Hamburg, respectively. These routes make up 44 % of all cargo being exported from Far East. Year-end bonuses for some employees of major freight forwarding companies show how the business boomed during the pandemic. Evergreen Marine Corp., Taiwan's largest container shipper, paid up to 40 months salary as bonus to certain employees. At Yang Ming Marine Transport Corp. the numbers were a bit lower, but a 12 month salary bonus is still a nice year-end bump. Laurens van Rooijen



The index represents a market rate for freight for any given shipping lane for a 40' container. The index is based on aggregated and anonymized real-time business data from global freight carriers, freight forwarders, and shippers that use the WebCargo by Freightos freight rate management platform. The values are an average of the five business days of the last full week in each month.

TAIWAN'S EXPORT NUMBERS 2021

E-BIKE EXPORTS TOP US\$1B IN 2021

In years past, e-bikes have been the driving force of Taiwan's bicycle industry to keep growing the volume of its exports despite declining units. As the numbers from the Taiwan Bicycle Association (TBA) show, e-bikes have become a billion-dollar business, topping the export volume of conventional bicycles in 2021 for the first time.



or almost one and a half years Taiwan managed to stay out of the grasp of the Covid-19 pandemic. But from mid-May to the end of June 2021 the country faced a first serious wave of local infections. These resulted in restrictions such as mask-wearing mandates and strict immigration and social distancing rules that naturally had an impact on industrial production as well. At the same time the pandemic disturbed global logistics and sea freight in particular, making it hard for many producers to get their goods to their markets. Despite these disturbances, Taiwan's well-oiled industry kept producing bicycles at full steam. It had no choice but to do so as demand continued to be very high - shortages in bikes in 2020 had led pretty much all bicycle distributors to up their forecast as dealers rushed to increase their pre-order for 2021.

A close look at Taiwan's bicycle export numbers from January to November 2021 (the numbers for the entire year 2021 will only be presented in late February at a press conference of TAITRA) shows

that the already strong numbers of 2020, when exports grew by 18 % in volume and 14 % in value compared to the year before, have been far exceeded. Until the end of November 2021, 914,020 e-bikes were exported from Taiwan, exceeding the entire previous year's 760,000 units by far. When comparing the period from January to November, Taiwan's e-bike exports grew by 34 % in units with the average value going up by 2% to USD 1325.16 and the overall export volume growing by 36.7 % to USD 1,211,220,985. Even without the month of December Taiwan's e-bike exports thus have exceeded a billion USD in value for the first time.

Last year Taiwan's exports of ebikes to the EU grew by a relatively moderate 15.5 % to 482,689 units and by 18 % in volume to USD 625,4 million. The numbers were way more spectacular for the NAFTA region and the United States in particular. E-bike exports to the United States grew by 68 % to 255,332 units and by a staggering 79.5 % in volume to USD 352.4 million. As for the average value of exported e-bikes the











United States come in slightly higher at USD 1380.13 - whereas the EU comes in at USD 1295.75 -. A look at Asia and the Southern hemisphere shows that China with 18,661 units, Australia with 12,020 units and Japan with 9,755 units were the most important export markets in these regions, albeit at a much smaller scale and closer to Switzerland's 8,416 units.

The dominance of both the EU and NAFTA markets is obvious as they account for more than 80 % of Taiwan's e-bike exports in 2021. Announcements to lower the VAT on all kind of bicycles as a part of the EU's revised New Green Deal and plans to introduce a federal tax credit for e-bikes in the United States for the first time ever should keep demand at a high level for years to come in these two key markets for Taiwan's e-bike exports. Still, due to logistical factors most of the e-bikes assembled in Taiwan are built around Asian-made motors, ranging from Shimano, Yamaha and Panasonic to Bafang, MPF and TranzX, while most of the e-bikes with Europeanmade electric assistance systems from the likes of Bosch or Brose are assembled in Europe. Challenging this pattern will not be an easy task.

It's not all about E-bikes however and Taiwan still exports plenty of conventional bicycles as well, ranging from kids and utility bicycles to sophisticated road and mountain bikes. For this category the NAFTA region is Taiwan's most important export market. And while the export units are much higher, the average value is significantly lower. Still the overall volume of exported conventional bicycles summed up at USD 1,208,050,974. A total number of 1.84 million units were exported from Taiwan between January and November 2021, about twice the number of e-bikes exported. 820,065 units or 44.5 % went to the NAFTA region - in this market the number of exported bicycles grew by 26.7 % compared to the year before. Since the average value rose by almost 10 % to USD 671.80, the export volume for conventional bikes

grew by an impressive 39 % to USD 550.9 million. The average value of exported bicycles is much higher in Canada and Mexico than in the United States, so those anti-dumping duties imposed on China by the United States do have an effect.

With 505,810 units the EU absorbs another 27.5 % of Taiwan's exports of conventional bicycles. This number grew by 21.3 % compared to the year before, accounting for an export volume of USD 287.3 million. While the average value of conventional bicycles exported to the EU dropped by 12.8 % to USD 568.05, this value shows a big variance within the EU, ranging from USD 107 in Portugal to USD 2336.65 in Ireland. For conventional bicycles, Asia and the Southern hemisphere are still important markets for Taiwan's bicycle industry, with Australia accounting for 85,145 units and Japan adding 59,874 units and South Korea 29,122 units and China 28,356 units respectively. With all these countries, exports of conventional bicycles saw a slight decline in average value. This surely can be credited to competition from a number of Southeast Asian countries.

Last but not least. Taiwan's bicvcle industry also exports a wide variety of components and parts. And since demand has been growing globally, these components and parts were in high demand around the world. When compared to the vear before, the tonnage of exported bicycle parts grew by an impressive 44.15 % to 68,264.25 metric tons. As for the value of these exports, the growth was even bigger at 58.2 %, accounting for a volume of USD 2,259,668,545 - just a bit less than the value of the combined exports of bicycles and e-bikes. As the largest category by far, frames and forks account for 37 % of this export volume. The only parts categories to show low growth in exports in 2021 were inner tubes and bicycle chains, hinting at the high domestic demand to build all those bicycles and e-bikes that have been sent from Taiwan to the entire world. Laurens van Rooijen



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OVERVIEW: E-BIKE DRIVE SYSTEMS

INNOVATION IS KEY TO LATEST ELECTRIC DRIVE SYSTEMS

E-bikes have become a driving force of Taiwan's bicycle exports. But supply shortages have extended lead times massively, so the number of motor manufacturers exhibiting at the Taipei Cycle Show is lower than usual. All the same, there are some interesting products on display.



Shimano Steps CRG EP800

At the Taipei Cycle Show, **Shimano** MO814 Is putting its main emphasis on components and the latest iteration of its electronic Di2 shifting for the road bike flagship Dura-Ace in particular. But there is some innovation in terms of the range of Steps mid-motors as well. To cater to the dynamic cargo bike market the Japanese component manufacturer presents two Steps CRG mid-motors - one based on the new EP8 model with a maximum torque of 85 Nm and one based on the mid-end Steps 6100 version with a maximum torque of 60 Nm. While the hardware of these two motors remains unchanged, the firmware has been optimized to deliver more support and more torque in particular so handling a fully-loaded cargo bike (that can

easily weigh up to 250 kilograms) gets easier. The CRG cargo versions have been tuned to deliver more torque at low speeds and cadences, so it gets easier to get going and up to speed.

By supplying Croatian e-mountainbike maker Greyp with its top-of-the-line MPF 6 mid-motor, Tainan-based Unique Product and Design Corporation NO414 attracted a lot of attention for its MPF Drive brand. And its flagship motor ticks many boxes: while it may be a bit heavier than the offerings of Bosch and Shimano, this extra weight is caused by the fact that all internal moving parts are made of metal and run in an oil bath. This results in two major advantages: first the MPF 6 mid-motor is very low on maintenance as its use on a fleet of





FSA System HM 1.0 hub

rental e-mountainbikes from Greyp has shown. The second advantage of the all-metal internals is the extra portion of torque that this midmotor delivers. Officially the torque maxes out at 95 Nm, but it can be lowered to 80 Nm for less sporty applications. With its combination of high torque and low maintenance the MPF 6 mid-motor would be a good match for many cargo bikes as well

With its FSA System HM 1.0, parts and components maker Full Speed Ahead MIO12 is aiming at the other extreme regarding e-bike drive systems. The motor has been built into the compact rear hub, delivering 250 Watt and 42 Nm of torque. This hub features a six-point IS disc brake mount and a standard HG body. Adding to the stealthy looks of the FSA System HM 1.0 are the minimalist controller that has been designed to fit into the top tube and a slim in-tube battery with a capacity of 250 Wh. If needed, a bottle-

shaped range expander battery can be linked up to the system's CAN bus to double the range. For additional information on the exact charging status of the battery or the distances covered, FSA also has a smartphone app. Apart from weighing less than 4 kg, the biggest advantage of this system is the low q-factor that will even make competitive cyclists smile.

As a classic OE partner, JD Components J0717 makes sure to cover all needs in terms of e-bikes. And it does so pretty well with two products of its TranzX brand: the R16 is a compact hub motor that only weighs 2 kg and delivers 250 Watt and 45 Nm of torque, making it an ideal match for lifestyle-oriented urban bikes or road bikes with electric assistance. Apart from its compact size, the R16 also shines with low noise and vibration levels - and it is available for both disc or rim brakes. For manufacturers focusing on mid-motors, TranzX has the









M17 as a powerful unit capable of delivering up to 85 Nm of torque at a weight of 3.2 kilograms. As a supplier of complete drive systems for e-bikes, TranzX also has two controllers with LCD displays and Bluetooth connectivity, an in-tube battery with a capacity of 504 Wh and various cadence and torque sensors in its portfolio. Last but not least OE customers can customize logo and decal areas to further add to the looks of their e-bikes.

As a full-service development partner and R&D company, **Hyena** Inc. N1014 provides all drive system parts, an app for consumers and service software for brands looking to get into the lucrative e-bike market. OE customers get to choose from different packages for city, trekking or road bikes. All systems are based on hub motors that deliver 250 Watt power and 40 Nm of torque and fit standard cassettes. As for the batteries, Hyena has units that fit under the carrier, semi-integrated designs or particularly slim

in-tube batteries with a lower capacity. You also get to select from handlebar-mounted displays with all control buttons, low-profile handlebar units with some LED lights and a minimalist control unit that fits into the top tube for the road bike package. The latter also comes with dual sensors for a natural feel when pedaling. So far Hyena Inc. only offers bottom brackets with square taper axles, but they are working on a splined axle for the road package as well.

TranzX R17

tors N0326 has set up shop in Taichung to be close to potential OE customers and to avoid antidumping duties aimed at China. And since the domestic market for ebikes is still pretty small, the midmotors of DP Motors conform with relevant international regulations and certifications such as EN15194 and ISO13849 certification. As for the latest generation of mid-motors. DP Motors offers the choice of two models that aim to deliver

350 Watt for North America. Positioning itself as an alternative to the mid-motors of the big suppliers, Chinese brand Ananda DigitalGo only has upped its game with its new top-of-the-line C230 offering. Built for the use on e-mountainbikes, this mid-motor combines a compact build and a low weight of 2.7 kilograms with

over 100 Nm of torque - more than most mid-motors on the mar-ket. As for the voltage and the maximum watts, OE customers can choose from options fitting for the relevant regulations of the EU or the United States, respectively. Thanks to the ISIS axle standard

the choice of cranks that fit Ananda's mid-motor is abundant, and the tiny TFT display and controller to switch between the five support modes is tailored for use in terrain, offering strong contrast for easy readability. As a supplier of complete drive systems, Ananda also has battery solutions that fit into the downtube e-mountainbikes and offer up to 520 Wh of capacity, weighing in at approximately 3.5 kilograms.

more compact option the MO65MD model weighs in at 2.5 kg and delivers up to 200 W support and 60 Nm torque. For those looking for more power the M080MD model is

the obvious choice, cranking out up

to 80 Nm torque. As for the power

output, DP Motors offers the choice of 250 Watt for EU legislation and Laurens van Rooiien



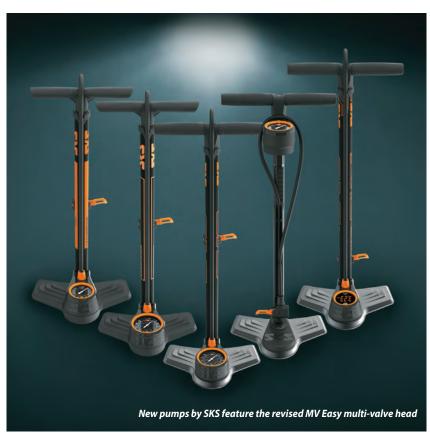




OVERVIEW: TOOLS AND PUMPS

ESSENTIAL WORKSHOP TOOLS MATCHED TO NEW TECHNOLOGY

Every dedicated mechanic will have perennial tools that would be recognisable to anyone working on bikes twenty or thirty years ago. Yet, as technology moves on, so do the tools needed to service and repair bikes.



riven by the increasing uptake of new features like tubeless tyres or lightweight proprietary parts, dedicated solutions for problems such as mending tyres without inner tubes or achieving reliable torque settings are just two ways the tool market is evolving.

Of course, one thing that's been a constant almost since the bicycle's invention is the need to keep your tyres pumped up. Along with its range of compact multi-tools, a trip to the **SKS** M0514 stand offers an excellent opportunity to see the German firm's recently overhauled range of floor pumps. Famous for launching the indestructible Renkompressor in 1966, SKS has now released a slew of five new models, each featuring its revised MV Easy multi-valve head. The cheapest of the quintet is the Airkompressor Compact pump. Made of light yet robust plastic, above it sits the full-size Airkompressor 10.0, which is equipped with a large precision gauge for optimum readability. Sitting a level above this, the Air-X-Plorer has an exceptionally sturdy metal base, steel main tube, and a high-pressure rating for higher usage applications. Taking inflation up to an even more sizable 12-bar, the even more premium Airmotion offers an extra-long hose and softtouch handle to ensure getting there is a comfortable experience. Finally, bringing its pumps right up-to-date, SKS' Air-X-Plorer Digi incorporates a smart digital pressure gauge for instantly readable



Shianglong Cycletool offers a spectrum of compact tools for tubeless tyre repair

values and exact inflation.

Besides pumps, the advent of tubeless tyres has left many riders needing a new host of tools to keep their tyres in top condition. With this in mind, Shianglong Cycletool K1133 has recently expanded its range to offer a spectrum of compact and brightly coloured tools for tubeless tyre repair. These include carry-along plug kits, which nicely match its equally bright CO2 inflators. Likely to become increasingly standard items in rider's saddle packs or jersey pockets, their low weight and small size are sure to win them fans.

Also offering a neat solution for tubeless riders, Kronyo's K0401 beautifully compact tubeless tyre repair kits are housed in a CNC machined aluminium capsule. Perfect for popping into your saddlebag, each contains a needle and five tyre sealing strips. With the cap-



Kronvo's compact tubeless tyre repair kits

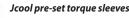
sule's head forming a convenient handle for operating the needle, this can be specified in either a 4mm or 3mm diameter. Ideal for getting yourself back underway if your tubeless tyres suffer a puncture while you're out riding, Kronyo also offers a vast range of workshop tools. These include its tyre repair bag, which covers various instruments, adaptors, inflators, and patches for working on all sorts of tyres and tubes.

With bike frames and components increasingly switching to carbon fibre, plus the rise of complex proprietary parts, mechanics need to be mindful of working to the correct torque ratings. Helping them do just this is Eclatora Technology DigitalGo Only. Producing a broad spectrum of digital display torque wrenches, these are suitable for both professional and home mechanics. Creating standard full-size tools for maximum leverage, the firm also offers multiple compact wrenches. Usable with a selection of interchangeable bits, each features



both a digital display and buzzer function. Once pre-set to the desired torque, both combine to alert their user when this is reached. Similarly helping riders and mechanics set up their components to

the correct torque is Jcool K1206 Minimalist in style, its pre-set torque sleeves slot onto the end of an Allen key or driver to provide one of three colour-coded torque settings. Preventing further tightening once either 4, 5, or 6Nm settings are reached, each promises an accuracy of +/- 5%. Also launch-



Torque tool. An adjustable torque wrench covering between 3-10Nm. its foldable handle results in an incredibly compact package. This includes ten of the most common bits accommodated around the tool's base for easy storage.

Of course, once you've rounded up a workshops' worth of quality tools, you'll need somewhere to store them all. Taiwan-based Hazel DigitalGo Only, part of Best Friend Enterprise, creates a range of beautiful yet robust cases from FSC certified wood. From specialist individual tool cases to larger rollerstyle systems, its wooden trolley uses traditional mortise and tenon construction backed by CNC engineering. Attractive and functional, it can support up to 400kg of tools across its six separate drawers. Fully lockable, it combines perfectly with Hazel's extensive range of foam-cut tool storage options and is available to custom order.

(



Hazel's robust cases in FSC certified wood

Finally, helping mechanics clean up once the job is complete, Donzee's K1034 RIDOF wipes easily remove oil, grease, silicone, paint, grime, and adhesives from your hands. Available in various pack sizes, these range from continuous rolls of 336 sheets for busy commercial workshops down to individually wrapped sachets ideal for cleaning up following a roadside repair. Safe and non-toxic, they've been tested and certified by Swiss safety experts SGS.





Link to Strength

► **High Tensile Strength**Exceeding international tensile-strength standards by 50%.

► Industry-Leading Chain Life & Durability

Redesigned protective bushings cover pins to reduce abrasion and high-load wear allowing chains to last over twice as long.

► Innovative Plate Design

Wider and thicker unique O-Shaped plates which increased strength, stability, and provide anti-chain drop assurance.







KMC (KUEI MENG) International Inc. www.kmcchain.com

f KMC Chain

KMC Chain Europe N. V. www.kmcchain.eu

f MC Chain Europe

KMC Chain American Co. www.kmcchain.us

f 💌 🔟 KMC Bicycle Chain

NEW PRODUCTS

BAFANG H700 AUTOMATIC DUAL SPEED DRIVE SYSTEM Bafang's H700 built-in automatic speed system. The motor automat-

A-PRO **E-CARGO EG4A-B11**

A-Pro promotes sustainable : development and environment-friendly transport with this e-cargo model. The EG4A-B11 E-Cargo features an integrated design (the motor and downtube combine together). It offers a clean appearance with integrated cable routing. The modular cargo platform can be adapted for a child seat, while the motor assist system has a dual battery setting for endurance. With the E-Cargo, outdoor life is more interesting.

dual speed rear drive system is a

clean, compact and dynamic rear-

motor that aids urban commuting for eCity segment. The H700 rear motor is not only equipped with the deceleration system that

Bafang is known for, but is also in-

tegrated with the automatic dual motor. www.bafang-e.com



HAFNY E13 APPROVED **E-BIKE MIRROR**

ically adjusts the gearbox ratio by

detecting the speed of the vehicle

during cycling, so that the rider

can get a better cadence without manually shifting and experience greatly improved riding comfort

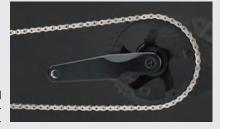
without affecting the power of the

The HF-M901L/R-FR08 is designed for 45km/h e-bikes. The mirror has a hollow design to decrease the weight and improve wind resistance. The body is made of fiber-reinforced nylon, and can fit 14.8~23mm inside the diameter of the handlebars. The mirror has three pivot joints which can be adjusted to any desired angle. Available in HD glass lens and Antiglare blue lens. www.hafny.com.tw 10400



KMC E-CARGO CHAIN

e-Cargo Chain has unparalleled high tensile strength, exceeding international tensile-strength standards to achieve a market-leading 1350kgf which is 30% higher than other KMC e-Bike chains and 50% higher than industry standards. Unique O-Shaped inner and outer plates are strengthened by 13% JOII8 & DIGITALGO



and 20%, respectively. Wider and thicker plates allow for increased strength, stability, and provide an-

SKS GERMANY COMPIT ANYWHERE

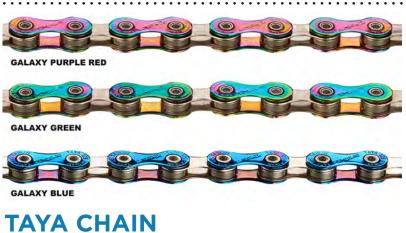
This mobile phone holder is simple, fast and universal; with a robust hook and loop fastener and two locking rings, the COMPIT ANYWHERE mobile phone holder can be mounted securely on the handlebars, stem or top tube. The system can also be easily attached to buggies and removed again.

The 30 cm long, rubberised hook and loop fastener ensures a perfect hold; the locking rings are slip-resistant and protect the surface. Thanks to the tilt adjustment, the position of the mobile phone can be optimally adjusted to ensure good readability from any angle.



TAYA CHAIN ROLLERLESS CHAIN SERIES

rollerless chain sewith ries the innovative de sign without rollers, save 8% weight comparing to the current mod-Furthermore, the grease storage within the O-shape container prolongs the chain's selflubrication, which nificantly slows down chain's wear, extendina the life of K0610



GALAXY SERIES

TAYA's galaxy series with the unique surface treatment on the chain plate captures the sparkle into your cycling journey. The mirroring and glossy surfaces also ensures end-users to eas-

ily rinse and maintain chains. There are three color choices of the galaxy series including blue, green, and purple-red.

K0610

STAN'S **NOTUBES** CREST MK4 RIM

The Crest MK4 rim features a new asymmetric version of Stan's patented BST tubeless design, creating a stronger, more balanced wheel. The 25mm internal width is optimized for gravel and XC use. The 6069 welded aluminum construction and reinforced spoke holes ensure lightweight durability. Available in 20", 24", 26", 27.5", and 29" sizes, the rim includes a 3-year warranty.

www.notubes.com



TAIPE! CYGLE 15 Wednesday, March 9, 2022

NEW PRODUCTS

WELLGO B366 PEDAL

Unique one-piece claw design helps to create better performance for mud shedding while riding in muddy environments. The oversize platform not only gives better support, but also helps create endless possibilities for riding enjoyment.







MESSINGSCHLAGER AIR BELL forced

With the Air Bell, Messingschlager offers an optimally hidden security solution using the tiny Apple® AirTag tracking device. The Air-Bell accommodates the AirTag unobtrusively and invisibly. Fitting any standard bicycle handle-

forced plastic bracket with an aluminum bell housing. The AirTag can be tracked via Apple's "Find my" network - all over the world. Battery life is over one year and it is waterproof to IP 67. The price also makes sense as iOS users can purchase a tracking system for around 60 euros for the bell bar with a diameter of 22mm, it and the AirTag, with no follow-up consists of a strong fibre-rein- costs.



ONCA 6. 0-CA-S-29er

The ONCA 6.0-CA-S-29er Fully is design for conquering extreme terrain. The slim, muscular look is reminiscent of an Leopard. The carbon fiber chassis is manufactured utilizing EPS technology and High Modulus Carbon Fiber. EPS Tech is an unique forming technology which provides superior strength and extreme lightweight. Combined with a #6061 Aluminum chain stay the complete frame is lightweight, stiff and responsive. The heart of the frame is the power drive, a SHIMANO EP-800 motor with its new in-tube battery.



Meet us at booth I0608





野寶科技股份有限公司 A-PRO TECH CO., LTD. 台中市大甲區幼九路16號 Tel:+886-4-26821688 NO.16, You 9th Rd., Dachia Dist., Taichung City 437, Taiwan Fax: +886-4-26821699 Email: apro-sales@aprotek.com.tw

BICYCLE CLUSTER: A DEDICATED B2B SEARCH ENGINE

A POWERFUL TOOL FOR FAST AND EFFICIENT PROCUREMENT

Facing an ever-changing global market and the impact of Covid-19, business models and sales behaviors have changed. How can global bicycle manufacturers accelerate their digital transformation so that customers can get new product information as soon as possible? How can they increase business opportunities and keep up with the latest market changes?

Ifred Tsai, founder of bike industry portal Bicycle Cluster L1109 + DigitalGo, thinks the most important thing is to assist buyers, product managers and developers to find products or suppliers quickly and efficiently. Bicycle Cluster (www.bicyclecluster.com) is a B2B digital service platform focusing on the global bicycle industry. "With the cluster effect and digital advantages, we expect to become the most practical bicycle database for industry partners, helping buyers to search for products more accurately and efficiently. Suppliers can find potential customers more quickly and become the best partner of global exhibitions. As of now, hundreds of members have registered and thousands of products have been uploaded," Tsai said.

Precise Search — Quick Links

The Bicycle Cluster platform provides the most direct and precise search for buyers. Searches are based on product and specification

keywords enabling buyers, procurement specialists and R&D personnel to find suitable products. They can also make detailed specification comparisons of similar products on the same page, and the online real-time dialogue solves the problem of two-way communication, which also improves efficiency.

Bicycle Cluster provides an exclusive page for each supplier to show-case their brand and display product images. New product information is thus more immediate and global buyers can become aware of the latest information without delay. Suppliers can also know how many views each product gets by using the platform's browsing data analysis, gaining insight into market development trends and formulating development strategies.

Bicycle Cluster is divided into three membership levels: Standard, Plus, and Pro. Each membership level is allocated a maximum number of products that can be upload-

ed and other advanced functions. Standard members can use the platform for free after registration.

Due to the Covid-19 pandemic many global bicycle exhibitions have been forced to cancel their events with no face-to-face interaction between manufacturers and customers. Bicycle Cluster functions like an year-round online exhibition, connecting the entire global bicycle industry. Registered members can use the platform to maintain communication with customers and release new product information at any time.

Virtual Reality integration

In addition to online promotion, Bicycle Cluster also hopes to cooperate with physical exhibitions. Through the integration of the virtual and the real, global buyers can search products while also participating in physical exhibitions, quickly finding the exhibition map and then the way to the booth where a



Bicycle Cluster founder Alfred Tsai

product of interest is located.

Looking to the future, Tsai said Bicycle Cluster will leverage its key advantages and develop more functions according to the needs of members with the aim of becoming the key database of the bicycle supply chain and the best partner for exhibitions.





OVERVIEW: DRIVETRAINS

MORE ELECTRONICS, **FEWER CABLES**

More electronics, fewer cables and more cogs per cassette: these are the main trends in drivetrains to be seen in Taipei.



Shimano DA Di2 CS-R9200

Shimano M0814 has launched the third generation of its electronic Di2 shifting with the Dura-Ace and Ultegra groups simultaneously. Its most important features are 12-speed cassettes and a strict focus on electronic shifting. Thanks to the eTube smartphone app there are extended customization options for the Synchro shift, Semi-Synchro shift and Multi-shift modes, and you are also free to configure the shift buttons as you like, including additional satellite shifters. To cater to owners of expensive custom bikes wanting to upgrade to the latest technology, Shimano offers both the new Dura-Ace and Ultegra groups with cable-actuated side-pull rim brakes as well.

Only those who opt for hydraulic disc brakes get to enjoy the biggest innovation of the third Di2 generation, however. Shimano has gone for a semi-wireless solution. with the shift levers sending wireless signals to the

front and rear



himano DA Di2

FD-R9250

Shimano DA Di2 RD-R9250

are connected to the system's central battery that fits into the seat tube or seat post. To charge this battery, a cable is linked to the rear derailleur while the two shift levers work with CR1632 batteries that are easy to source when needed. The 12-speed cassettes are available with 11 to 30 and 11 to

34 teeth, respectively. While they offer a bigger range, the emphasis is on narrowly spaced gears and they are still meant to be combined with a front derailleur.

Better yet, they are compatible with HG bodies.

For the performance mountain bike segment, Shimano has gone for 12 speed drivetrains with their own Microspline standard. But for e-mountain bikes, the Japanese company opts for a different way: offered at the XT and Deore levels, the Link Glide drivetrain comes with cassettes with 11 gears and less range. The spe-

cially shaped cogs and a fitting chain result in a lot more durability, which is important due to the additional torque dished out by mid-motors. And compared to Shimano's latest

performance mountain bike groups, the Link Glide drivetrain offers effortless operation and silky smooth gear changes, putting a clear emphasis on comfort.

As a pioneer in term of wireless electronic shifting, **Sram M0612** has been expanding its AXS eTap offerings to lower price points step by step, down to the GX Eagle. But since Sram is producing much more than just drivetrains, the American-Taiwanese component maker has

5 SRAM Reverb AXS Xplr

gone all-in for the booming gravel market with its XPLR package. As for the drivetrain, Sram covers three price points with Red, Force and Rival versions. With cogs ranging from 10 to 44 teeth, the range offered by the 12-speed cassettes is large enough to go for a one-by set-up with direct mount chainrings available from 38 to 46 teeth. For rough terrain, Rock Shox adds

> short-travel susfork pension dubbed Rudy and a shortstroke, wiredropper less post dubbed Reverb AXS XPLR, while Zipp supplies a choice wheels ready for wide tubeless tires and a flared Service Course handlebar made of aluminum.

While Shimano and Sram are arguing for or against the need of a front derailleur, Belgian start-up Classified Cycling at Ceepo In-

ternational, M0910 has come up with a solution of its own that combines the clean looks of one-by builds with the range and narrowly stepped gears of systems with a front de-railleur. The true innovation of the Powershift system is a lightweight, two-gear planetary transmission built into the rear hub. The electronics of the shifting buttons fit into the handlebar and send their signals wirelessly to the lever of the rear axle and then to

According to Classified Cycling, it only takes 14 thousandths of a second to change gear with no danger of dreaded chain sucks that could ruin your ride or even your precious frame. The 0.7:1 ratio of the transmission mimics the ratio of conventional chainrings on road

SRAM Xplr Rival AXS

bike cranks with

a front derailleur. When combined with 11- or 12-speed cassettes, you get the full and narrowly spaced gears of a conventional build, also the clean looks. To make upgrading easier for consumers, Classified Cycling has added a complete wheel offering with carbon aero rims either 35 mm or 50mm deep. At last year's Eurobike, Classified Cycling won one of the prestigious Gold Awards for its Powershift system.

With its aftermarket brand TRP, Taiwan's manufacturing brake heavyweight Tektro DigitalGo expanded into the drivetrain business back in 2019 with the launch of the G-Spec DH7 rear derailleur and shifter. Purpose-built for the small SRAM Xplr vet prestigious downhill Rudy. market, this system could handle seven gears. One

year later TRP added the G-Spec TR12 rear derailleur and shifter that were aiming at the much larger trail bike and enduro markets. For 2022, Tektro is upping its game in the drivetrain market with the launch of the E-Drive 9 system for e-bikes. This offering is not limited to a shifter and rear derailleur but also includes purpose-built ninespeed cassettes with steel cogs ranging from 11 to 46 teeth. For more durability, the smallest three cogs can be replaced separately. And the derailleur comes with the same ratchet-style clutch mechanism to keep the chain from derailing. As a Tektro product, the E-Drive 9 system strictly aims at the OE market and will not be sold on the aftermarket for now.

Another Taiwan-based manufacturer looking to ride the wave of high demand and increase its sales is Drivetrain Tech Solutions M0304. With C-Drive, it has been offering an affordable belt drive solution for utility and children bicycles for years. Under

TSD22 Day 1.indd 18 26/02/2022 18:12







its Geardrive brand, it has developed value-oriented drivetrains that have been mounted to bicycles sold at Walmart in the United States for three years now. While the shifters are built in China, all the other parts are made in the company's factory in Changhua. For 2022, the drivetrain offering has been expanded to include a steel crankset with a direct mount chainring fitting tapered bottom bracket axles. Since Geardrive focusses on one-by drivetrains, there's no need for a front derailleur.

Offering 8, 9 or 10 gears these drivetrains are aimed at price-sensitive volume markets, also in Asia. According to company founder Adrian Chen, they are a smart and affordable way to upgrade existing bicycles with double or triple chainring set-ups. For the 2023 model year, Drivetrain Solutions intends to Tech launch 1x11 and 1x12 drivetrains

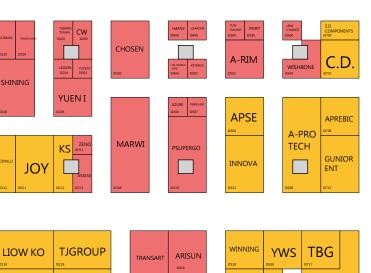
DTS Geardrive 9s Sprocket

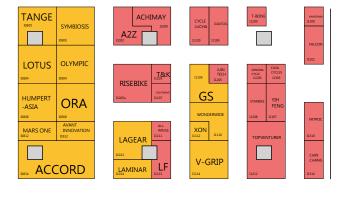
at higher price points as well. One product category that has seen a significant rise in demand by OE customers from both Europe and Northern America are Geardrive's cassettes. Offered in 8 to 11 speed versions for road bikes and 8 to 12 speed versions for mountain bikes, these cassettes feature a durable silver-nickel plated finish. Since the smallest cog has 11 teeth all cassettes fit on HG bodies. And the best thing is that the lead times for these items are relatively short, certainly when compared to the offerings of the market leaders.

Laurens van Rooijen

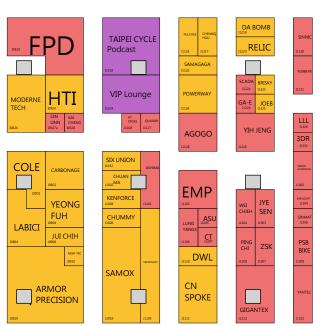
FLOORPLANS

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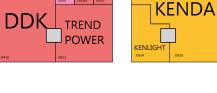
ALLIGATOR

KMC

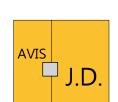
CHAIN

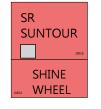
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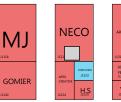


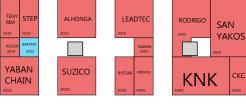
□ VELO











WELLGO

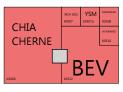


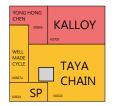




J'Z K1308

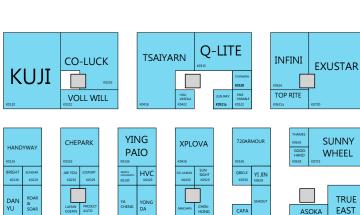






VP	Y.S. PAINT	G-MA	JEN DUO K1105	YUNG FANG	JCOOL K1206	U-JOIN K1305
	HENG HIN	KCNC	J-MEX K1109 XING YI FENG K1111	DIRECTION KILLO	HENKEL K1212	





SUPER B	NU	VO		TA'		SE	IKI		CHE SHIA		MICROLITE	
	K0916					K1116					K1316	
KOR16 TOPACTION	LIKE HOME		1	CHING CHERN	CHEWREN	ENCHESS	EMFISS		GHL	HER- MAO	NEW EPIC K1322 GREAT	
KOR24	K0922	FAXSON K1023		K1022	K1121	K1122	K1221		K1222	K1321	EAST K1324	
	HOME		ı					ı			SR GROUP	
SINOX	SOON K0928 SHENG	ASSIZE K1027		INGENIUS K1028	EVERGREAT K1127	HIMOUNT K1128	ARTSUN K1227		ORIVER	MILLION CARE	K1326 FENG ZE	
K0828	JEN K0930	FOX K1029		JUVIN K1030	Y1 5HEANG K1129	CHENG K1130	TGS K1229		K1228	K1327	YUAN K1330	
RUDY OPEN ROAD	YA MEI	RAISE WINGS K1031 T. K. CHIN		DONZEE	S-GWIGLONG	GHEIKE	U-POWER		DOTS	GREAT YO	SOLINK	



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Exhibitor List Physical show Only

Booth number	Company name
M1102	3D PRINTING TECHNOLOGY CO., LTD.
11330	3DR INTERNATIONAL LTD.
N0529	3MEN TECHNOLOGY CO., LTD.
0608	A-PRO TECH CO., LTD.
0502	A-RIM ENT. CO., LTD.
1002	A2Z DESIGN & DEVELOPMENT INC.
0814	ACCORD ENTERPRISE CORP.
N1010	ACETRIKES INDUSTRIAL. CO., LTD.
1000	ACHIMAY ENTERPRISE CO., LTD.
0423a	ACT TESTING INC.
_0302	AEGIS SPORTS INC.
1128	AGOGO BIKE CO., LTD.
_0526	AGS GLOBAL MARKETING INC.
_0406	AGUILA ENTERPRISES CO., LTD.
K0510	AI-KWANG TECH CO., LTD.
J0404	AIN TEC INDUSTRIAL CO., LTD.
_0410	AIRACE ENTERPRISE CO., LTD.
_0622	AIRBONE BIKE ACCESSORIES
K1102	ALRISMITH CO., LTD.
J0230	ALHONGA ENTERPRISE CO., LTD.
0621a	ALLIED INTERNATIONAL (1951) LTD.
_0501	ALPHA-ONE LEATHER PRODUCTS CO., LTD.
J1025a	AMENTUM INDUSTRY CO., LTD.
J1224	APEX CREATIVE CO., LTD
_0515	APEX PRODUCTS CO., LTD.
0708	APREBIC INDUSTRY CO., LTD.
0508	APSE ENTERPRISE CO., LTD.
M0314	ARGON 18 INC.
0418	ARISUN INTERNATIONAL CO., LTD.
_1017a	ARKIETECH ENGINEERING CO.
J0810	ARMOR MANUFACTURING CORPORATION
J0810	ARMOR PRECISION CO., LTD.
_0924	ARSAM SPORTS
NO612	ARTHUR AND JUDY INTERNATIONAL CO., LTD. TAIWAN BRANCH
K1227	ARTSUN INDUSTRIAL CO.,LTD
N0407	ARYEN MOTOR & AERONAUTICS CO., LTD.
J11O1	ASHIMA LTD.
_1115	ASIANA INTERNATIONAL CO., LTD.
K0634	ASOKA INCORPORATION
0313	ASSESS INDUSTRY CO., LTD.
<1027	ASSIZE TECHNOLOGY CO., LTD.
N1127	ASUKA AUTOTRONICS INC.
M1118	ATECH TOTALSOLUTION CO., LTD.
0912	AVANT INNOVATION LTD.
J0618	AVIS INTERNATIONAL LTD.
M0132	AXMAN ENTERPRISE CO., LTD.
J0433	BAIWIN CO., LTD.
J0104	BARADINE RUBBER IND. CO., LTD.
N1114	BEARS BIKE CO., LTD.
M0513	BIKETECH CO., LTD.
L0217	BIKMEN CO., LTD.
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Booth number	Company name
L0609a	BO WELL ENTERPRISE CO., LTD.
L1028	BONDI TECHNOLOGY LIMITED
K0130	BRIGHT ADVERTISING ENTERPRISE CORP.
N0918	BRIGHTSTAR TECHNOLOGY CO., LTD.
11323	BRISKY TECHNOLOGY CO., LTD.
L0226	BRYTON INC.
10702	C.D. COMPONENTS CO., LTD.
K0534	CAFA CORPORATION
M1006	CANE CREEK CYCLING COMPONENTS
M1109	CAPTAIN SCIENCE CORPORATION
J0902	CARBONAGE TECHNOLOGY CO., LTD.
10628	CARBOTEC INDUSTRIAL CO., LTD.
M0930	CAROL CYCLE INDUSTRIAL CO., LTD.
11305	CASA CYCLES ENGINEERING INC.
J0204	CASTELLO CYCLE CO., LTD.
M0910	CEEPO INTERNATIONAL LIMITED
N1124	CELXPERT ENERGY CORPORATION
J1207	CENTURY METALS CO., LTD.
K0616	CHANCE GOOD ENT. CO., LTD.
N1219	CHARGEON CORP.
K0810	CHENG SHIN RUBBER IND. CO., LTD.
10424	CHENG YI ENTERPRISE CO., LTD.
J0203	CHENG'S ENTERPRISES CORPORATION
L0510	CHENGFENG PRECISION TECHNOLOGY CO., LTD.
L0726	CHENN DAA CO.,LTD
11217	CHENNQ HOU CO., LTD.
K0226	CHEPARK ENTERPRISE CO., LTD.
K1216	CHERN SHIANQ ENTERPRISE CO., LTD.
K1121	CHEWREN INDUSTRY CO., LTD.
K0408	CHIA CHERNE INDUSTRY CO., LTD.
L0505	CHIEN GER INDUSTRIAL CO., LTD.
L0122	CHILILON ENTERPRISE CO., LTD.
K0531	CHIN-HONG BATTERY CHARGER CO., LTD.
L0309	CHINA-STAR WORLDWIDE CORP.
K1022	CHING CHERN INDUSTRIAL. CORP.
J0634	CHIUH SHENG CO., LTD.
10300	CHOSEN CO., LTD.
J1002	CHUAN MA INC.
J0604	CHUHN-E INDUSTRIES CO., LTD.
J1006	CHUMMY ENTERPRISE CO., LTD.
10812	CIAN FA PIPE INDUSTRY CO., LTD.
10112	CIONLLI INDUSTRIAL CO., LTD.
K0502	CKC ENVIRONMENTAL TECHNOLOGY CO.,LTD.
L0424	CLEAN & GREEN TECHNOLOGY CO., LTD.
J1112	CN SPOKE
K0430	CO-UNION INDUSTRY CO., LTD.
J0901	COLE PRODUCTS INC.
M0404	COLMAX BICYCLE TAIWAN LIMITED
L0210	COLOURY ENTERPRISE CO., LTD.
M0510	CONTINENTAL REIFEN DEUTSCHLAND GMBH
N0130	COPPERCELL TECHNOLOGY CO., LTD.
L0206	COUNTRY LIFE LTD.
N0202	CSK PROFESSIONAL
10299	CW BEARING
N0920	CYBER MOTIONS INTERNATIONAL CO., LTD.
N1206	CYCLE CHRIS CO.,LTD.





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Booth number	Company name
11100	CYCLE LUCHA CO., LTD.
M1130	CYCLE-BAY INTERNATIONAL CO., LTD.
L0108	CYCLING & HEALTH TECH INDUSTRY R&D CENTER
K0628	CYY SPORTING GOODS CO., LTD.
K0132	DAN YU SPORTS CO., LTD.
L0413	DANKEN ENTERPRISE CO., LTD.
N0812	DARFON ELECTRONICS CORP.
N0112	DARFON INNOVATION CORP.
M0903	DARSON J&B ENTERPRISE CO., LTD.
L0202	DEAMARK LIMITED.
11322	DG RUBBER CO., LTD.
K1306	DIBAR TECHNOLOGY CO., LTD.
10599	DIGIRIT INDUSTRY CO., LTD.
NO231	DING SHI INTERNATIONAL LIMITED
K1110	DIRECTION TECHNOLOGY CO., LTD.
L0402	DOLIDE LIMITED COMPANY
K1034	DONZEE ENTERPRISE LTD.
K1034	
M0304	DOTS EYEWEAR INC., DRIVETRAIN TECH SOLUTION INC.
10100	DURMAS ENTERPRISE CO., LTD.
J1110	DWL BICYCLE CO., LTD.
L0710	DYNAMIC COMPOSITE TAIWAN LTD.
N1129	E-ASSISTED GO TECHNOLOGIES INC
M0330	E-TIDE TECHNOLOGY CO., LTD.
L0711	EASTERN CABOT ENTERPRISE CO., LTD.
J1304	EASYLIGHT E-O TECHNOLOGY CO., LTD.
N0624	ECOICS TECHNOLOGY CO., LTD.
K1221	EMFISS INC.
K1122	ENCHESS INTERNATIONAL CO., LTD.
K0216	ENTERPRISE CO., LTD.
L1011a	ERIS CYCLE INTERNATIONAL CO., LTD.
N1117	EUROCYCLE ASIA COMAPNY LTD.
K1127	EVERGREAT OPTICAL IND. CO., LTD.
L0525	EVOLVING CONCEPTS LTD.
K0329	EZSPORT CO., LTD.
M1020	FAIRLY BIKE MANUFACTURING CO., LTD.
11302	FALCON CYCLE PARTS CO., LTD
L0510	FASTACE PRECISION TECHNOLOGY
K1023	FAXSON CO., LTD.
M1202	FEDAL ENTRPRISE CO., LTD.
K1330	FENG ZE YUAN AIR TOOLS CO., LTD.
L0901a	FINA INTERNATIONAL CO., LTD.
L0504	FIVE BIG ENTERPRISE CO., LTD.
L0314	FOOTLAND INC.
J1020	FORMULA ENGINEERING INC.
J1323	FORTUNED -TRADING CO., LTD.
L1231	FOSS WORLDWIDE INC.
NO430	FOUNDER ALUMINUM CO., LTD.
K1029	FOX EYEWEAR CO., LTD.
10820	FPD INDUSTRY CORP.
M0932	FRED & JEAN ENGINEERING CO., LTD.
M1233	FREE GO TECHNOLOGY CO., LTD.
L0223	FRICO DEVELOP CO., LTD.
L0423	FRONTIER SPORTWEAR INTERNATIONAL CO.,LTD
L0201	FU AN INDUSTRIAL CO., LTD.
NO401	FU CHENG CYCLE INDUSTRIES CO., LTD.
11118	FUL CHEE ENT CO., LTD

Booth number	Company name
M1012	FULL SPEED AHEAD
J0302	FULL TECH. CO., LTD.
10523	FULLKING INDUSTRIAL CORP.
L0305	FUTUREYE COMPANY
K1005a	G-MA ENGINEERING CO., LTD.
11226	GA-E INDUSTRIAL PRECISION CO., LTD.
M0312	GARMIIN TACX
11206	GENERAL CYCLE CO.
J1130	GENERAL PRECISE MACHINERY CO., LTD.
K1132	GENG HUNG CO., LTD.
11205	GG CO., LTD.
N1031	GI FAR TECHNOLOGY CO., LTD.
J0930	GIANT WELL INTERNATIONAL LTD.
L0810	GIANTEC DESIGN CO., LTD.
L0106	GIFTSTART CO., LTD.
J1212	GIGANTEX COMPOSITE TECHNOLOGIES CO., LTD.
J1205	GIN TER INDUSTRY CO., LTD.
K1222	GING HWA LONG HARDWARE INDUSTRY CO., LTD.
N1029	GLOBAL PROSPERITY TECHNOLOGY
J1124	GOMIER MANUFACTURING CO., LTD.
11208	GOOD TAIWAN INTELLIGENT CO., LTD
11106	GRAND STAR INDUSTRIAL CORP.
N1106	GRANDWAY POWER TECH CO., LTD.
K1324	GREAT EAST INDUSTRIAL MATERIAL CORP.
N0802	GREAT GO CYCLES INC.
K1331	GREAT YO CO., LTD.
L1213	GUMONDER INDUSTRIAL CORP. LTD.
10400	HAFNY INTERNATIONAL CO., LTD.
N0330	HAN-WIN TECHNOLOGY CO., LTD.
LO411	HANDY SOCKS CO., LTD.
K0126	HANDYWAY CO., LTD.
J0425a	HANTAI IMPREGNATION ENTERPRISE LTD.
K0307	HCT ENTERPRISE CO., LTD
L0323	HEMMING CORPORATION
J1324	HENG YEN ENTERPRISE CO., LTD.
K1212	HENKEL TAIWAN LTD.
J1325	HER SHENG INDUSTRY CO., LTD.
K1321	HER-MAO PRINTING CORPORATION
L0132	GREENWAY TECHNOLOGY CO. LTD.
L0231	HERRMANS BIKE COMPONENTS
11218	HI BIKE LTD.
N0830	HIIN INDUSTRY CO., LTD.
K1128	HIMOUNT INDUSTRIAL CO., LTD.
K0928	HOME SOON ENTERPRISE CO., LTD.
N0723	HON LIN HEAVY INDUSTRIES CO., LTD.
N1018	HONEY HOPE HONESTY ENTERPRISE CO., LTD.
K0422	HOU INTERNATIONAL CO.
11028	HSIN TA ELEMENTS LTD.
N1028	
10924	HSIN TU TECHNOLOGY CO., LTD.
	HSING TA INDUSTRIAL CO., LTD.
10728	HSONG HSING INDUSTRIAL CO., LTD.
10728	HSU SHENG BICYCLE INDUSTRIAL CO., LTD.
L1111	HUANG WEI TECHOLOGY ENTERPRISE CO., LTD.
J0102	HUANG'S HO PRECISION CO., LTD.
K0429	HUBBLEVISION CO., LTD.
L0703	HUEL CHUN ENTERPRISES CO., LTD.
10808	HUMPERT-ASIA INTERNATIONAL CO., LTD.



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Booth number	Company name
L0513	HUNG CHUNG TIEN INTERNATIONAL CO., LTD.
L0626	HYDRAKNIGHT INNOVATION CO., LTD
N1217	I3DPRINT TECHNOLOGY CO., LTD.
L1018	IBARAKI PREFECTURAL GOVERNMENT
NO314	IGUS TAIWAN COMPANY LIMITED
K0834	IKS ACTION EYEWEAR CO., LTD.
L0603	IN-TEK CORP.
L1211	INFOWIN INFORMATION CO., LTD.
K1028	INGENIUS CO., LTD
N1024	INNOR COMPANY
NO126	INNOVA RUBBER CO., LTD. INSKEY ENERGY TECHNOLOGY CO., LTD.
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N0621	INTERTEK TESTING SERVICES TAIWAN LTD.
K1109	J-MEX INC.
J0717	J.D. COMPONENTS CO., LTD.
K1308	J'Z SPORTS CO., LTD
K0230	JAE YOU CO., LTD.
L0205	JAEGER DIGITAL PRINTING CO., LTD.
L0714	JALCO INDUSTRY CO., LTD.
K1206	JCOOL CO., LTD.
K1105	JEN DUO TRADING CO., LTD.
L0224	JENG-AN BUTTON CO., LTD.
L0931	JET RIDER CO., LTD.
N1118	JETER COMPANY
10522	JETSET IND. CO., LTD.
J1123	JHU YI MACHINERY INDUSTRIAL CO., LTD.
J0510	JIAN SHENG BICYCLE CORP.
J0201	JIANG DING TECHNOLOGY CO., LTD.
L1313	JIEN TSUN MACHINERY INDUSTRIAL CO., LTD.
L1011	JINN YEH INDUSTRIAL CO., LTD.
N0201a	JIU LING CO., LTD.
L0720	JIUN YIH BICYCLE INDUSTRIAL CO., LTD.
K0229	JIUNDAR INDUSTRIAL CO., LTD.
M0604	JOE'S NO-FLATS
J0134	JOGON INDUSTRIES CO., LTD.
N0530	JOIN TEK CORPORATION CO., LTD.
N0203a	JONQ TYAN ENTERPRISE CO., LTD.
L0516	JOVIAL BIKE COMPONENTS LTD.
10211	JOY INDUSTRIAL CO., LTD.
L0617	JR SHENG INTERNATIONAL CO., LTD
J0908	JUI CHIH MACHINERY INDUSTRIAL CO., LTD.
K0521a	JUN RAY ELECTRONIC TECHNOLOGY CO., LTD.
K1030	JUVIN ENT. CO., LTD.
J1303	JYE SEN ENTERPRISE CO., LTD.
K1116	JYIN SHENG CO., LTD.
N1120	K. S. TERMINALS INC.
10928	KAI CHENG INDUSTRIAL CO., LTD.
K0705	KALLOY INDUSTRIAL CO., LTD.
11300	KAMIGAWA CO., LTD.
K0402	KANGWAY INTERNATIONAL CORP.
10327	KARBONA PARTS INC.
L1001	KASHIMA BIKE INTERNATIONAL CO., LTD.
K1010	KCNC INTERNATIONAL
M0534	KEEGO MOBILITY CO., LTD.
J0610	KENDA RUBBER INDUSTRIAL CO., LTD.
J1004	KENFORCE INTERNATIONAL CO., LTD.
51004	NEW ONCE INTERNATIONAL CO., LID.

Booth number	Company name
J0614	KENLIGHT TRADING CORP.
10503	KEYENCE TAIWAN CO., LTD.
J0525	KIDEN TRADING LIMITED COMPANY
J1229	KING FLY PRECISION LTD.
L0220	KING HER FENG INDUSTRIAL CORP.
N0132	KING RITZ ENTERPRISE CO., LTD.
L0418	KING ROOF INDUSTRIAL CO., LTD.
10132	KINGTEC TECHNICAL CO., LTD.
N0714	KINLIN INDUSTRIAL CORPORATION
M0830	KTM FAHRRAD GMBH
M0830	KTM-BIKES INTERNATIONAL (SINGAPOREO PTE. LTD. TAIWAN BRANCH
K0120	KUJI SPORTS CO., LTD.
L0421	KUSO TOP INTERNATIONAL CO., LTD
L0301	KWO LIN CO., LTD.
N0630	KYNAMIC INC.
J0804	LABICI SPORT INC.
11012	LAGEAR ENT. CO., LTD.
11014	LAMINAR ENT. CO., LTD.
L0126	LAMINAR ENT. CO., LTD. LANDING ENTERPRISE CO., LTD.
L0311	LEADTEK RESEARCH INC.
K0108	LEE CHI ENTERPRISES CO., LTD.
L0926	LEE DUO INTERNATIONAL CO., LTD
L0926	LEE DUO TRADING CO., LTD.
10204	LEGION ENGINEERING CORPORATION
N1210	LEKUMA TECHNOLOGY INC.
10927a	LEN LINN INDUSTRIAL CO., LTD.
L0905a	LI YI DA CO., LTD.
11113	LIANG FENG MACHINERY CO., LTD.
M0409a	LIGHTSKIN
11107	LIGHTWAVE BIKES INTERNATIONAL INC.
K0922	LIKE HOME INTERNATIONAL ENT. CO., LTD.
L0514	LIMOTEC LIMITED
L0615a	LIMOTEC METAL INDUSTRY LIMITED
L0802	LING YUH ENTERPRISES CO., LTD.
10600	LINK CHANCE CO., LTD.
10118	LIOW KO CO., LTD.
L0425	LITEMOVE TECHNOLOGY CO., LTD.
11328	LLL INTERNATIONAL CO., LTD.
N0930	LONGWIN TECHNOLOGY CO., LTD.
K1002	LOONEY-MAX ENTERPRISE CO., LTD.
L0502	LOXON LOCK
N0114	LT. MEXLLER INTL CO., LTD
K0232	LUENN DUENN INDUSTRIAL CORP.
L0313	LUFT TECH CO., LTD.
J1106	LUNG YANGS CO., LTD.
L0118	LUNGE INDUSTRY CO., LTD
K0432	MACHAN INTERNATIONAL CO., LTD.
N0528	MADY ENTERPRISE CO., LTD.
F0503	MAGURA ASIA LIMITED CO.
N0526	MAINSHINE INTERNATIONAL CO., LTD.
K0208	MAN DAI ALUMINUM CO., LTD.
	MARUDEAN CO., LTD.
K0508	·
10308	MARWI TAIWAN INDUSTRIAL CO., LTD.
L0728	MATRIX METAL CORP.
10128	MAXWAY CYCLES CO., LTD.
L0218	MEGA PRODUCTIONS CO., LTD.





Booth number	Company name
L0523	MEGAJOY ENTERPRISE CO., LTD.
M0232	METALLICA INTERNATIONAL CO., LTD.
M0902	METRO TYRES LIMITED
K1316	MICROLITE CO., LTD.
J1105	MICROSHIFT AD- ENGINEERING INC.
J0504	MIDWAY PACIFIC CORP.
M0320	MING CYCLE INDUSTRIAL CO., LTD.
L0701	MING SUEY PRECISION IND. CO., LTD.
L1309	MING-JING TECH CO.,LTD
11310	MITROC FORTUNE CO., LTD.
J1118	MJ CYCLE INTERNATIONAL CO., LTD.
10824	MODERNE TECH CORPORATION
J0603a	MORTOP INTERNATIONAL CO., LTD.
N0532	MPS ENERGY INC.
N0824	MYCARR LIGHTING TECHNOLOGY CO., LTD.
N1223	MYKIA INTERNATIONAL CO., LTD.
J0401	NAMMAX CORP.
J0325	NAN HOANG TRAFFIC INSTRUMENT CO., LTD. NARO DELTA LLC.
N0601	
J1218	NECO TECHNOLOGY INDUSTRY CO.,LTD.
M1229	NEO-MAC MACHINERY CO., LTD.
L0804	NEW AN LUN LAMP (SHENZHEN) CO., LTD.
K1322	NEW EPIC GROUP CO., LTD
M1230	NEW GOOSE BERRY ENTERPRISE CO., LTD.
L0909a	NEW LOOK EYEWEAR CO., LTD.
J0910	NEW-TEC (YUNG-ZHEN) SPORTING GOODS COMPANY
K1228	O-RIVER CO., LTD.
10904	OLYMPIC PRO MANUFACTURING CO., LTD.
N0924	ONECOOL CO., LTD.
K0933	OPEN ROAD SOLUTIONS, INC.
10908	ORA ENGINEERING., LTD.
N1002	OULLON CO., LTD.
M0501	OUTBRAKER (HS CO., LTD.)
N0512	OVERLORD INDUSTRIES CORP.
J0509	OXO-PRO LTD.
L0409	PAULTEX HOSIERY LTD.
M0530	PEAKBUYER CO. ,LTD.
J1208	PING CHI INTERNATIONAL LIMITED
J0426	PIRNGDER INDUSTRY CO., LTD.
11124	POWERWAY INDUSTRIAL CO.,LTD.
10410	PRO SUPERGO INT'L CORP.
M0804	PRO-LITE INTERNATIONAL LTD.
M0202	PROBOR TIRES, INC.
M1101	PROCHEM PACIFIC CORPORATION
L0814	PROHERO GROUP CO., LTD.
K0331	PROJECT AUTOPARTS CO., LTD.
N1218	PROMISE SUCCESS CO. LTD
J0126	PROPALM INDUSTRY CO., LTD.
J1308	PSB BIKE INDUSTRIAL CO., LTD.
K0515	Q-LITE CO., LTD.
L0712	QBEST CYCLE INDUSTRIAL CO., LTD.
K0530	QBICLE INC.
N0620	QQE TECHNOLOGY CO., LTD.
11127	QUAXAR ENGINEERING CO., LTD.
K1031	RAISE WINGS ENTERPRISE CO., LTD.
M0310	RANGPUR METAL INDUSTRIES LTD BANGLADESH

Booth number	Company name
K1130	RAY CHENG INDUSTRIAL.CO.LTD
L0705	RECON CO., LTD.
11220	RELIC INTERNATIONAL INC.
M1212	RI FEI TENG CO., LTD.
N0503	RIKULAU CO., LTD.
J1117	RIM MASTER INDUSTRIAL CO., LTD.
I1005a	RISEBIKE INDUSTRY CO., LTD.
M0602	RITCHEY ASIA CO., LTD.
J0430	RODRIGO INDUSTRIAL CORP.
M0703	RTI SPORTS GMBH
K0302	RYSTAR INTERNATIONAL CO., LTD.
N0329	S-SHINE TECHNOLOGY CO., LTD.
10700	S.D. COMPONENTS CO., LTD
L0225	SAFETY PLANET GROUP CO., LTD.
L0401	SAING EI CORP.
J1016	SAMOX COMPONENTS CO., LTD.
J0530	SAN YAKOS ENTERPRISE CO., LTD.
M1120	SANFA BICYCLE INDUSTRIAL CO., LTD.
M0411	SANTA CRUZ BICYCLES
M1103	SATE-LITE (FOSHAN) PLASTIC CO., LTD.
11224	SCADA INTERNATIONAL CO., LTD.
K0631	SEAOUT WEAR CO., LTD.
L0232	SGS TAIWAN LTD.
J0304	SHA DAR ACCESSORIES CO., LTD.
10104	SHEANG LIH CYCLE INDUSTRY CO., LTD.
10228	SHENG AN CO., LTD.
L0307	SHENG CHUAN INTERNATIONAL CO.LTD.
K0930	SHENG JEN IND. CO., LTD
N0226	SHENGHO MOTOR CO., LTD.
M0316	SHENYANG BICYCLE INTERNATIONAL CO. LTD.
K1133	SHIANGLONG
M0814	SHIMANO INC.
J0824	SHINE WHEEL IND., CORP.
10804	SHINE-HO KNAPSACK & BAG MFG CO., LTD.
J1030	SHUN SHING BICYCLE CO.,LTD.
K0614	SHUTTER PRECISION CO., LTD.
N0302	SHUZ TUNG MACHINERY INDUSTRIAL CO., LTD.
K0330	SIMPLE LOCKSMITH CO., LTD.
N1130	SINCERE LIMITED
L1020	SINCERE PHOTO & DESIGN INC.
J1306	SINMAT TECHNOLOGY CORP.
11318	SINNIC INTERNATIONAL CO., LTD.
K0828	SINOX COMPANY LTD.
11032	SIX UNION MACHINE ENTERPRISE CO., LTD.
M0514	SKS METAPLAST SCHEFFER-KLUTE GMBH
L0214	SMART CO., LTD.
K1332	SOLINK INTERNATIONAL MANUFACTURES CO., LTD.
M0634	SOLU INTERNATIONAL CO., LTD. SOURCE SOLUTIONS INTERNATIONAL LTD.
L0717	
L0310	SOXLINK CO., LTD.
M0610	SPANK INDUSTRIES CO.,LTD.
N1319	SPRING MING CO., LTD.
M0612	SRAM LLC
L0932	STANTON BIKES
K0520	STARWINN CYCLE CORPORATION
J0229	STEP SOLUTION CO., LTD.





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6 SHOW DAILY TAIPEI CYCLE

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Booth number J0630	Company name SUN RACE STURMEY-ARCHER INC.
K0529	SUN SIGHT GLASSES CO., LTD.
N1006	SUNNES INT'L CO.,LTD.
NO614	SUNNY CROWN ENTERPRISES CO., LTD.
K1326	SUNRISING ECO-FRIENDLY TECH. CO., LTD.
N0501	SUNUP ECO CO., LTD.
K0816	SUPER B PRECISION TOOLS CO., LTD.
10900	SYMBIOSIS GLOBAL CO.,LTD.
M1004	SYNERGY SOURCING & TRADING CO., LTD.
K1229	T.G.&SON CORP. LTD
11105	T&K ENTERPRISE CO., LTD.
N0102	TA JONG INDUSTRIAL CO., LTD.
N0626	TAFA INTERNATIONAL CORP.
N1202	TAI KWA CYCLE INDUSTRIL INC.
10528	TAI LOU METAL INDUSTRY CO., LTD.
10404	TAI-WORLD-MFG.CO.,LTD
10717	TAIWAN BICYCLE GROUP INC.
M1201	TAIWAN FU LUNG CO., LTD.
N0229	TAIWAN HIGO ELECTICAL SYSTEM CO., LTD.
10218	TAIWAN JOHNSON INDUSTRIES CO., LTD.
J0509a	TAIWAN SELF-LOCKING FASTENERS INDUSTRY CO., LTD.
10200	TAIWAN TEAMA TECHNOLOGY CO., LTD.
10800	TANGE INTERNATIONAL CO., LTD.
L0828	TANGE SEIKI CO., LTD.
L0918	TANNUS INTERNATIONAL
N0426	TD HITECH ENERGY INC.
N1131	TDCM CORPORATION LIMITED
10428	TEAMSUN CO., LTD.
J0130	TENY RIM ENTERPRISE CO., LTD.
M1010	TH INDUSTRIES CO., LTD.
10199	THINKCHANGE COMPOSITE CO., LTD.
K0532	TIN ROAD CIVIL ENGINEERING CO. LTD.
M0509	TOKEN PRODUCTS INC.
K0824	TOP ACTION TECHNOLOGY INC.
K0621a	TOP RITE INTERNATIONAL CO., LTD.
L1203	TOP SCREW METAL CORP.
M0702	TOPEAK INC.
M0110	TOURISM BUREAU NORTH COAST & GUANYINSHAN NATIONAL SCENIC AREA ADMINISTRATION
10417	TRANSART GRAPHICS CO., LTD.
M0810	TRELLEBORG SEALING SOLUTIONS TAIWAN CO., LTD.
J0512	TREND POWER TECHNOLOGY PRIVATE LIMITED - TAIWAN BRANCH
J1302	TRIPOD ALUMINUM CO.,LTD
K0418	TSAIYARN TRADE DEVELOPMENT CO., LTD.
10500	TUN HAUNG CO., LTD.
K1305	U-JOIN COMPANY LIMITED
K0902	U-LOGIS CO., LIMITED
11122	U-MOUTH ENTERPRISE CO., LTD.
K1231	U-POWER COLLECTION ENTERPRISE CO., LTD.
10232	UFOR ENTERPRISE CO., LTD
M0630	UNI-VICTOR INTERNATIONAL CORP.
NO429	UNICABLE CO., LTD.
NO414	UNIQUE PRODUCT & DESIGN CO., LTD
N0502	UNITED ENGINEERING CORP.
L0326	UNITIDE INDUSTRIAL CO., LTD.
K0210	VANITIVEITNIESS INTERNATIONAL ENTERROISE CO LTD

VANTLY FITNESS INTERNATIONAL ENTERPRISE CO.,LTD.

VAZALAB

Booth number	Company name
M0709	VEE RUBBER CORPORATION LTD.
M1204	VISIONARY INJECTION ENGINEERING LTD.
K0222	VOLL WILL ENTERPRISE CO., LTD.
K0806	VP COMPONENTS CO., LTD.
J1326	VT HARDWARE CO., LTD.
K1310	VULCAN SPORTS CO., LTD.
M0302	WAHOO FITNESS
L0407	WEI CHAN INTERNATIONAL ENTERPRISE CO., LTD.
J0830	WEI HAU ACCESSORIES CO., LTD
L0208	WEI RONG ENTERPRISE CO., LTD.
N0420	WEI SHENG MARKETING CO., LTD
10331	WEI ZHUN ENTERPRISE CO., LTD.
K0607a	WELL MADE CYCLE TRADING LIMITED
J0418	WELLGO PEDAL'S CORP.
J0225a	WEWAY INTERNATIONALCO., TW
N1230	WHAICHEN PRODUCE CO., LTD.
N0602	WHEELER INDUSTRIAL CO., LTD.
J0122	WHOLE MAN ENTERPRISE CO.,LTD.
L0818	WILDERNESS TRAIL BIKES, INC. TAIWAN BRANCH (U.S.A.)
J0226	WINDNER CARBON TECH. CO., LTD.
10518	WINNING ENTERPRISES CO., LTD.
L0324	WINRIDE INTERNATIONAL CO., LTD.
10604	WISHBONE ENTERPRISE CO., LTD.
N0508	WIW INTERNATIONAL CO., LTD
10499	WOEI FANG PRECISION INDUSTRY CO., LTD.
10222	WOEI FONG MACHINERY WORKS CO., LTD.
L0426	WOHO BIKE ACCESSORY CORP
11110	WONDERWIDE LIMITED
L1024	WOOD FIELD POWER MACHINE CO. LTD.
L0322	WYNIST EYEWEAR CO. LTD.
M0802	X - FUSION SHOX
K1111	XING YI FENG INDUSTRIAL CO., LTD
K0426	XPLOVA INC.
L0308	XU SHENG WANG ENTERPRISE CO., LTD.
K0332	YA CHENG CO., LTD.
K0932	YA MEI TECHNOLOGY CO., LTD.
K0102	YABAN CHAIN INDUSTRIAL CO., LTD.
J1312	YANTEC INDUSTRIES
K0507a	YAW SHENG MACHINERY CO., LTD.
L0806	YE CHOU INDUSTRY CO., LTD.
J0904	YEONG FUH BICYCLE INDUSTRIAL CO., LTD.
K0629	YI JIN ENTERPRISE CO., LTD.
K1129	YI SHIANG ENTERPRISE CO., LTD.
J1318	YICHENG SPORTS CO., LTD.
11307	YIH FENG METAL INDUSTRIAL CO., LTD.
11228	YIH JENG ENT. CO., LTD
10122	YOAN TECHNOLOGIES CO., LTD.
N1101	YOHO CITY INTERNATIONAL LTD.
K0431	YONG DA INTERNATIONAL CO., LTD.
K0606	YONG HONG CHEN ENTERPRISE CO., LTD.
L1025a	YONG TENG TECHNOLOGY CO., LTD.
NO514	YOTA CYCLES CO., LTD.
K1101	YOUNG SING BALL BEARING CO., LTD.
M1134	YU ZHAN METAL IND CO. LTD.
L0212	YUAN LUNG METAL IND. CO., LTD.
10618	YUAN WEN SHING INDUSTRIES CORP.



K0210 M0402



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Booth number	Company name		
10303	YUCENT ENTERPRISE CO., LTD.		
M1030	YUH JIUN INDUSTRIAL CO., LTD.		
K0906	YUNG SHYANG CHEMICAL INDUSTRIAL CO.,LTD.		
10627a	ZEIT BICYCLE INDUSTRIAL CO., LTD.		
M1226	ZEKTOR POWER TECH. CO., LTD.		
L0319	ZIYU ENTERPRISE CO., LTD.		
J1307	ZSK STICKMASCHINEN GMBH		

J1307		ZSK STICKMASCHINEN GMBH
Both	phys	sical and online show
K0526	Sparts Sunglesses	720 INTERNATIONAL LIMITED
N0522		ABONMAX CO., LTD
L0709		ACCURATECH AUTOMATION CO.,LTD
N0814	AIKEMA	AICOTECH CO., LTD.
J1034		ARIX ENTERPRISE CO., LTD.
N0214	GOVERN TRICH E X H B 2 D made Cult from contain	ASIA BICYCLE TRADING COMPANY
L1009a		ASIA BIKE MEDIA CO., LTD.
J0601a		ASIA SEIKO COMPOSITE MATERIAL CO., LTD.
J1026		AVERTRONICS INC.
10408	LANK AZZAL	AZURE BIKE INTERNATIONAL LTD.
K0512		BEV INTERNATIONAL CORP.
N0719	BALLISTIE	BIXETEC INTERNATIONAL CO., LTD.
M1104		BRAKCO INDUSTRY CO., LTD
M1234	Professional Bicycle CHAININ Manufacturer	CHAININ TECHNOLOGY CO., LTD.
11114	1111	CHEN WHUA INTERNATIONAL CO., LTD.
11314		CHIN CHANG PLASTIC INDUSTRY CO., LTD.
L1109	Bicycle Cluster	CRITICAL CLUSTER CO., LTD.
J0410		DDK GROUP CO., LTD.
K0522		DESIGN CO., LTD.
M1210		DNM INDUSTRIAL CO., LTD.
N0326	O/O DRIVE POWER UNIT	DP MOTORS CO., LTD.
M1329		DURAPRO INTERNATIONAL CORPORATION
N1108	DOSUN :	EISO ENTERPRISE CO., LTD.
N0632		ELITE ENERGY CO., LTD
J1102		EMP INC.,
K0720	EXUSTAR	EXUSTAR ENTERPRISE CO., LTD.
M0520		FRITZ JOU MFG. CO., LTD.
L0318	73one	FRUITSHOP INTERNATIONAL CO., LTD.
M0820	GIANT GROUP	GIANT GROUP
N1220		GIATEX CYCLE CO., LTD.
M0429		GLORY WHEEL ENTERPRISE CO., LTD.
11199	€ 90lf(fl	GOLFCEL INDUSTRIAL CO., LTD.
10712		GUNIOR ENTERPRISE CO., LTD.
N0320		GWA ENERGY, INC.
J0110	satori	HSIN LUNG ACCESSORIES CO., LTD.
M1001a	hubsmith.	HUBSMITH CO., LTD
11111	All-wings	HUGA TECHNOLOGY ENTERPRISE COMPANY
N1014	 H HYENA	HYENA INC.
M0120	CCIDEAL	IDEAL BIKE CORPORATION
10718		IDEATION INDUSTRIAL CO., LTD.
L1027a	IMOTEK	IMOTEK INC.
L1209	Inf @ trade	INFOTRADE MEDIA CO., LTD.
N1214		JEE ANN BICYCLE CO., LTD.
11325	MADE IN JAPAN - Eate CENTON Fectory -	JOEB LTD.
N0220		KHGEARS LIMITED
10212		KIND SHOCK HI-TECH CO., LTD.

Booth number		Company name
J0118	KMC	KMC CHAIN INDUSTRIAL CO., LTD.
K0401	KRÖNYO	KRONYO UNITED CO., LTD.
M0830		KTM-BIKES INTERNATIONAL (HK) CO., LTD. TAIWAN BRANCH
J0330	Leadtec Co., Ltd.	LEADTEC CO., LTD.
L1209	?XÇ	LIXING CHAIN CO., LTD.
M1220		LIYANG GLOBAL LTD.
N1102		LTI CORP.
J0218		MAJUN INDUSTRY CO.,LTD.
M0620		MERIDA INDUSTRY CO., LTD.
N1030		MICROPROGRAM INFORMATION CO., LTD.
K1016	MING TAY.	MING TAY HARDWARE IND. CO., LTD.
10507	Nan Hai	NAN HAI INDUSTRIAL CO., LTD.
M0502		NISHIYAMA / JAPAN WIND TUNNEL MFG.
K0916		NUVO ENT. CO., LTD.
K0802	NEXEII	OTRAJET INC.
N0312		PACIFIC CYCLES INC.
J0517	prologó	PROLOGO (VELO EUROPE S.R.L)
L0102		QEF DESIGN CORP.
K0507		RICH SOU TECHNOLOGY CO., LTD.
K0231		ROAR & SOAR INTERNATIONAL CO., LTD.
N0230	♥ ROXIM	ROXIM TECHNOLOGIES, INC.
J0733	RST	RST GREENERGY TECHNOLOGY CO., LTD.
M1110	SAN FANG Fit Your Ride	SAN FANG CHEMICAL INDUSTRY CO., LTD.
M0529		SIN CHANG HUNG INDUSTRY COMPANY
J0818	STELLOUS .	SR SUNTOUR INC.
10423		SUN CHANG INDUSTRY CO., LTD.
K0725	© SUNNYRHEEL	SUNNY WHEEL INDUSTRIAL CO., LTD.
K0202	richmond	SUZICO LIMITED
11200		T-BONE INTERNATIONAL COMPANY
K1033		T. K. CHIN COMPANY LTD.
L1111a		TAIWAN CYCLIST FEDERATION
M0433		TAIWAN LANDON INDUSTRIES CO., LTD
K0610		TAYA CHAIN CO., LTD.
K0626		THAMES CO., LTD.
L1105		TIMEDIA SOCIAL CO.
11212		TOP VENTURER INTERNATIONAL LIMITED
K0732	B ike	TRUE EAST ENTERPRISE CO., LTD.
N0618		UNITE CREATIVE DESIGN CO., LTD.
J0518	() VELO	VELO ENTERPRISE CO., LTD.
L1005	No.	WHEEL GIANT INC.
J0525a	@wintuck	WINLUCK CYCLE CORP.
11112		XON LTD.
K0326	© °	YING PAIO ENTERPRISE CO., LTD.
10328	YOZÜ	YO ZU METAL CO., LTD.
10206		YUEN I INDUSTRIAL CO., LTD.
K1106	Q Village Room	YUNG FANG PLASTIC CO., LTD.
L1023a	77 °	Z.J CO., LTD.
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DigitalGo Only

	DigitalGo only	ACTION TRADING INT'L LTD. TAIWAN BRANCH.(HONG KONG)
	DigitalGo only	ACTIVA HEALTH TECH CO. LTD.
	DigitalGo only	ALATECH TECHNOLOGY LIMITED
	DigitalGo only	ALEX GLOBAL TECHNOLOGY INC.
	DigitalGo only	ALLOTEC CO., LTD.





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Booth number		Company name
DigitalGo only		ALU-MATE METAL INDUSTRIAL CO., LTD.
DigitalGo only	ANANDA	ANANDA DRIVE TECHNIQUES (SHANGHAI) CO., LTD.
DigitalGo only	ANANDA	
,		ASTRO TECH. CO., LTD.
DigitalCo only		BEST FRIEND ENTERPRISE CO., LTD.
DigitalGo only		BESTZONE INDUSTRY CO., LTD.
DigitalGo only	Lie I L J	BETO ENGINEERING AND MARKETING CO., LTD.
DigitalGo only		BVA
DigitalGo only	and the	CHUHN CHUAN CORP.
DigitalGo only	⊿≡ ス	
DigitalGo only		CLARKS CYCLE SYSTEMS LTD.
DigitalGo only	_	CRANKGEARS INTERNATIONAL LTD.
DigitalGo only	Serops.	CROPS CO., LTD.
DigitalGo only	CABIC	CYBIC SPORT INTERNATIONAL CO., LIMITED
DigitalGo only	DAH N.	DAHON GLOBAL CO., LIMITED.
DigitalGo only		DEESTONE CORPORATION PUBLIC COMPANY LTD
DigitalGo only		DEL REY INTERNATIONAL MERCANTILE PARTNERS, LLC
DigitalGo only	<i>DynaPack</i>	DYNAPACK INTERNATIONAL TECHNOLOGY CORPORATION
DigitalGo only		E-MA INTERNATIONAL CORP.
DigitalGo only		ECLATORQ TECHNOLOGY CO., LTD.
DigitalGo only	©Elebike®	ELEBIKE CO., LTD.
DigitalGo only	ENERMAX	ENERMAX TECHNOLOGY
DigitalGo only	INVIS	ENVIS INT. CO., LTD.
DigitalGo only		ESPECTRUM INT'L CORP.
DigitalGo only	Everbliss Green	EVERBLISS GREEN CO., LTD.
DigitalGo only	ALCON BRIANNE	FALCONCYCLE TECH CO., LTD.
DigitalGo only		FEDERAL SPORTING GOODS MFG. CO., LTD.
DigitalGo only		FOREVER MACHINE INDUSTRIAL CO., LTD.
DigitalGo only		GATES CORPORATION
DigitalGo only		G-MAX INTERNATIONAL CO., LTD.
DigitalGo only		GLG SPORTS ONLINE STORES
DigitalGo only		GOLDEN CARBON COMPOSITE CO., LTD.
DigitalGo only		GREAT MACHINERY-ELECTRICITY CO.,LTD.
DigitalGo only	DATI	GRUPO WEILICO CO.,LTD
DigitalGo only		HAKA CO., LTD.
DigitalGo only		HARTEX RUBBER PVT LTD
DigitalGo only		HENG FENG BICYCLE CO., LTD.
DigitalGo only		HK TOBEST INDUSTRY CO.LTD
DigitalGo only		HOLI BICYCLE (KUNSHAN) CO., LTD.
DigitalGo only		HUSAR INTERNATIONAL CO., LTD.
DigitalGo only		HWA FONG RUBBER IND. CO., LTD.
DigitalGo only	ZOU	IMEIER GREEN TECHNOLOGY CO., LTD
DigitalGo only	ICYLII	IRWIN CO., LTD.
DigitalGo only	.	IUVO INDUSTRY CO., LTD
DigitalGo only		JEDAN INTERNATIONAL CO., LTD.
DigitalGo only	JETM/G	JET MING INTERNATIONAL CO., LTD.
DigitalGo only	BLACKCAT THE	JINDE RUBBER (FUJIAN) CO., LTD
DigitalGo only		JINHUA STARS ALLOY RIMS CO., LTD.
DigitalGo only		JOB INTERNATIONAL LTD
DigitalGo only		JOY KIE CORPORATION LIMITED
DigitalGo only	JOYKIE	JOY TAI INT'L CORP.
DigitalGo only		KING PEY INDUSTRY CO., LTD.
DigitalGo only		KING RACK INDUSTRIAL CO., LTD.
DigitalGo only		KOC INDUSTRY CORP.
-		
DigitalGo only		KOOL SPORTS INTERNATIONAL CO., LTD.
DigitalGo only		LEECHE INTERNATIONAL SPORT CO., LTD

Booth number		Company name
DigitalGo only		LEGEND TECHNIC CO., LTD.
DigitalGo only		LIFU BICYCLE CO., LTD.
DigitalGo only	m ri	LIH JAW INDUSTRIAL CO., LTD.
DigitalGo only		MARECHAL INTERNATIONAL CO., LTD.
DigitalGo only		MEI LAN (HONG KONG) CO., LIMITED
DigitalGo only		METRONOME LLC
DigitalGo only		MIT CYCLE SOURCING LTD.
DigitalGo only		MM BICYCLES CO.,LTD.
DigitalGo only	Piets	NIEUWSFIETS MEDIA & EVENTS
DigitalGo only		NINGBO DOUYU PLASTIC CO., LTD.
DigitalGo only		NOBLE GLORY CORPORATION LIMITED
DigitalGo only	OGKadem	OGK CO., LTD
DigitalGo only	DÜRO Bag	ORDER CENTER INDUSTRIAL CORP.
DigitalGo only	PreDisc	OREDISC PRECISION CO., LTD.
DigitalGo only	表稿工意取附有限 表明	PRETTY WHEEL INDUSTRIAL CO., LTD.
DigitalGo only	LANGE WAY	PT TERANG DUNIA INTERNUSA
DigitalGo only		R&N CYCLE CORP.
DigitalGo only		RALSON (INDIA) LIMITED
DigitalGo only		RISING PUBLISHING CO. LTD.
DigitalGo only	Rul King Bectronics Ltd.	RUI XING ELECTRONICS LTD.
DigitalGo only	DSI Tyres	SAMSON RUBBER INDUSTRIES (PVT) LTD.
DigitalGo only		SAMUEL INDUSTRIAL CO., LTD
DigitalGo only	SAZ	
DigitalGo only		SHENG LI SPRING INDUSTRIAL CO., LTD.
	ダイアログボック	SHIZUOKA PREFECTURE
DigitalGo only	SHOW	SHOW DAILY
	≜SIGMP.	SIGMA-ELEKTRO GMBH
9		SPANNINGA
DigitalGo only	Keep ahead of light.	SPEEDHIGH LTD.
		SPORT PRESS SRL
DigitalGo only		
DigitalGo only		SPORT SERVICE SRL
DigitalGo only	Æ.	SPORTS PLUS HELMET CORPORATION
DigitalGo only		STARTS JUMP CO., LTD.
DigitalGo only		STRONGMAN PRODUCTS CORP.
DigitalGo only		SUNSTAR TAIWAN ENTERPRISES CO., LTD.
DigitalGo only		TAIOKU MANUFACTURING CO., LTD.
DigitalGo only		TAITRA
DigitalGo only		TAIWAN HODAKA INDUSTRIAL CO., LTD.
DigitalGo only		TBS GROUP CORPORATION
DigitalGo only		TEKTRO TECHNOLOGY CORPORATION
DigitalGo only		TG BAO LAN LIMITED.
DigitalGo only		THOTHLIFE
DigitalGo only	TOTEM	TOTEM BIKES SRO
DigitalGo only	Q <i>EE</i> *	TOWER POPULAR IND. CO., LTD.
DigitalGo only		ULAC CORPORATION
DigitalGo only	,	UNITRADE CYCLE INC.
DigitalGo only	₩hiizU	UNIWILL TECHNOLOGY INC.
DigitalGo only		VMN MEDIA / BIKE EUROPE
DigitalGo only		WHIILFLY INCORPORATED
DigitalGo only		WULER BICYCLE INDUSTRIAL CO., LTD.
DigitalGo only		YAESU PUBLISHING CO. LTD.
DigitalGo only	ALAGA	YEONG TON INDUSTRIAL CO., LTD.
DigitalGo only		YEU CHUEH INDUSTRY CO., LTD.





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e-Bike 雷機系統大觀園

瞧瞧這些全新的電機系統

帶來哪些創新



電動自行車已成為台灣自行車出口的主力車款。然而,近期因應供應 鏈缺料、缺件的問題,導致交貨時間大幅延長,也因此今年參加北展 的電機系統品牌也略低於往年。儘管如此,我們在展場上還是可以看 到全新亮相的電機產品。

Shimano MO814 在展場上的亮點, 成的磨損。其官方標示的最大扭矩為 生的 Steps CRG 中置電機。首先, 也非常適配於 Cargo 貨運自行車。 第一款是根基於 EP8 的全新電機系 統,最大扭矩可達到85Nm,另一款 作為全球專業操控套件領航者的Full 輸出上一樣可以游刃有餘。簡言之, 的電輔助力。

亞電動車品牌)。這款頂級電機雖然 款。 在重量上略重於 Bosch 和 Shimano 的系統,但以功能而言可說是並駕其 久鼎金屬實業 10717 長期作為品牌的 受中置電機所產生的大扭矩輸出所造 再者還俱備了低噪音及低振動水平,

以跑車來說是其全新發表的 Dura- 95Nm,並且可以透過軟體調校,將 Ace。但是,其新款的 Steps 中置電 扭矩調整到 80Nm,以適用於休閒或 機系統同樣帶來創新應用,推出了兩 通勤用車款。簡言之,這款 MPF 6 中 款專為 Cargo (貨運)自行車市場而 置電機結合了高扭矩和低維護成本,

則是根基於 Steps 6100 定位中級數 Speed Ahead M1012 ,近幾年也持續 的系統,最大扭矩可達到 60Nm。 拓展產品線,並帶來了 FSA System 以硬體規格來說,這兩款專為 Cargo HM 1.0 的後輪花鼓電機系統,顧名思 (貨運)而生的電機系統跟一般版本 義就是將馬達整合到後花鼓結構,可 並沒有任何改變, 而是透過韌體的優 提供高達 250 瓦輸出及 42Nm 的最 化及調校,針對特定情境需要大扭力 大扭矩。這款系統採用六孔碟盤鎖付 輸出的情況下,可以產生更大的馬力 以及標準 HG 棘輪座規格。而它的控 及扭矩,因此即便是一輛重量滿載約 制器整合在車架上管,不僅容易操作 250 公斤的 Cargo 自行車,在動力 而且富有科技感,而其長條圓柱型的 電池可以隱身於車架下管,達到近乎 CRG cargo 系列就是針對載重而特別 完美的整合性。此外,由於這套系統 調校的產品,尤其是在低速度、低迴 採用 CAN bus 架構,因此如有需要 轉速的情況下,可以為騎士帶來更大 額外電力的需求,可以在水壺架的位 置再加掛一顆增程電池。騎士也可以 透過下載專屬手機 APP, 進一步得到 穩正企業 NO414 是一間位於台南的 行車資訊以及電池狀態等。這款電機 中置馬達製造商,並推出備受關注的的最大優勢在於極輕的重量,整套系 MPF Drive 自有品牌,其MPF 6 頂 統低於 4 公斤,並且擁有較小的 Q-級電機系統供應給 Greyp(克羅埃西 Factor, 適配於競賽及專業運動用車

驅;而其增加的重量是來自於內部齒 OE 合作夥伴,提供各式電機系統以 輪元件都是採用金屬材質以及灌注充 滿足需求。其自有品牌 TranzX 的兩 足的潤滑油。這帶來了兩個優勢:首 款產品中表現出色:首先 R16 是一款 先, MPF 6 中置電機的維護成本非常 後置電機花鼓系統,僅重2公斤,提 低,這一點可以從 Greyp 品牌所營運 供 250 瓦輸出和 45 Nm 的最大扭 的租賃用 e-MTB 得到證明。第二點 矩,適配於城市休閒車款或是公路跑 優勢在於全金屬的內部結構,可以承車。其亮點之一在於精巧的外型設計,







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DP Motor's powerful M80MD





Hyena E-Trekking Classic System

讓客戶的品牌更顯高級感。

服務,包括電機系統、手機 APP、以 BB。 及服務軟體等,期許在蓬勃發展的電 車市場佔有一席之地。OE 客戶可以 成立於 2018 年的帝普電機 N0326 選擇。

選擇的車款系統配置,包括城市車、 已在台中開設辦公室,以貼近潛在

在規格上可以對應包括碟煞系統或是 Trekking 或是公路跑車等。所有系統 的 OE 客戶並避免針對中國的反傾銷 來自中國的 Ananda 僅參加線上風 將其 C 夾煞車。另一款亮點產品則是 M17 均基於花鼓電機,可以提供 250 瓦功 稅。此外,由於台灣電動自行車市場 定位為主流中置電機品牌的替代方案, 中置電機,在 3.2 公斤的系統重量下 率輸出和 40 Nm 的最大扭矩,並採 還很小,因此帝普電機的中置電機符 尤其是近期發布的頂規 C230 更彰顯 可提供高達 85 Nm 的扭矩。TranzX 用標準的棘輪座規格。至於電池的款 合 EN15194、ISO13849 等相關國際 其競爭力。這款專為 e-MTB 而生的中 作為 e-Bike 電機系統的解決方案,還 式,提供了包括貨架型電池、半整合 法規和認證。 至於最新一代的中置電 置電機,擁有精實的外型,重量僅 2.7 提供兩款搭載 LCD 螢幕和藍牙連接 式車架電池,或是容量較小的全隱藏 機,帝普電機提供兩種型號,透過整 公斤,可以帶來超過 100Nm 的最大 的控制器、一款容量為 504 Wh 的車 式管內電池等。關於控制器的款式, 合式扭矩和踏頻傳感器的無線傳輸, 扭矩,超過市場上的同級競品。至於 架管內電池,以及各種踏頻和扭矩傳 則提供了包括車把顯示器(搭載 LED 以及專屬調校的軟體,可以為騎士帶 電壓和最大功率瓦數,OE 客戶可以分 感器。最後,作為 OE 系統供應商, 螢幕以及按鈕),還有適配於公路車的 來自然推進的電輔助力。另一款體型 別選擇符合歐盟或美國相關法規的選 Tranzx可以允許客製貼標、Logo等, 車架上管的控制器,擁有更為簡約的 更為精巧的 MO65MD 重量為 2.5 公 項。在曲柄心軸規規採用 ISIS,因此 外觀。後者還配備了雙傳感器,可在 斤,可提供高達 200 W 的功率輸 可以適配的曲柄款式非常多。在控制 踩踏時提供自然、不爆衝的電輔助力。 出和 60 Nm 的最大扭矩。而另一款 器部分搭配了 TFT 螢幕,提供五種助 凱納 N1014 作為 e-Bike 系統與開發 到目前為止,凱納的 BB 僅提供四方 MO80MD則是提供更大的動力輸出, 力模式可發揮於不同地型,並且螢幕 服務商,為客戶提供軟、硬體整合的 軸規格,正極力開發適用於公路車的 它可以產生高達 80 Nm 的最大扭 的對比度很高、容易閱讀。Ananda 矩。 至於功率輸出,帝普電機提供符 作為 e-Bike 電機系統的整合方案,還 合歐盟法規 250 瓦和北美 350 瓦的 提供適合 e-MTB 的車架下管電池, 提供高達 520 Wh 的容量,重量約為 3.5 公斤。■ LvR

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EOCA 歐洲戶外保護協會 呼籲自行車產業共同努力

自行車可以更綠色,共同保護世界自然景觀

你有想過嗎?「跟你買自行車產品、零件的客戶、騎士們,他們 在世界各地騎乘的絕美生態騎乘環境,是由哪個單位來協助維護 環境的?」這是歐洲戶外保護協會(EOCA)聯合總經理巴斯科姆 (Tanya Bascombe)提出的問題。「誰在保護這些特殊地方受 威脅的生物多樣性,並確保其生態系統維持健康,以便它們能夠 吸收二氧化碳並有助減緩氣候變遷?答案揭曉,正是由 EOCA 協 助維護生態,而你也可以成為一份子!」

果你有在關注在中國舉行的 將可以獲得資助,並且得到來自不同 性,以及在格拉斯哥關於需要應對氣 保護效益。這些計畫必須協助保護、 候危機的議題。你就會意識到,現在 強化或恢復受威脅的棲息地或景觀, 式採購原物料外,還有運輸、廢物、 用水和許多其他層面需要考慮。 但是 你的客戶在哪裡使用你的產品呢?」 到潛在的資助計畫案,然後對這些計

經理 Catherine Savidge 解釋說: 尼泊爾環球小姐等!這一投票過程透 取決於在歐洲的營業額。另外,也通 的計畫案都受益,進一步推動計畫案 過與成員的募款活動籌集資金。然後, 的工作進展。」 EOCA 每年兩次邀請非營利組織, 為保護項目申請高達 30,000 歐元的 Arturo Balderas Torres (CIPAD 組 資金。符合各項審核標準的計畫案, 織)說道,在2021年的一項墨西哥計

久 COP 15,這場會議主要在討論 保護領域的科學顧問小組的支持,以 關於需要解決生物多樣性喪失的迫切 確保所資助的計畫案可以得到理想的 是時候重新評估公司的 CSR 企業社會 與當地社區合作並使當地居民從中受 責任,並確保是站在正確的軌道上。 益,為社區帶來正向的改變,包括應 「我們每一個人都可以發揮良能,巴 對氣候變化以及提供教育元素等。所 斯科姆說除了關注整個供應鏈中的碳 有計畫也必須跟戶外運動愛好者建立 排放,以及以合乎道德和可永續的方聯繫,因為我們之間是如此息息相關。

「透過完整的評估標準,可進一步得 畫案進行投票,」Savidge 繼續說道 「成員可以透過投票選擇要資助哪· EOCA 成立於 2006 年,是一個非營 些項目。另外,當民眾和戶外運動愛 利性會員組織,在全球擁有 150 多名 好者對於 EOCA 所支持的計畫案想發 成員,所有公司都生產和銷售戶外運 表意見,也可以舉行公眾投票。舉例 動用產品。到目前為止,這些成員已 來說,在 2021 年的投票獲得了極大 在全球 59 個不同國家/地區,共同 的關注,共獲得了近 140,000 張選 為保護項目投入了超過 400 萬歐元。 票。此外,近年來也受到許多名人的 加持,包括哥斯大黎加總統、大衛: 那麼 EOCA 是如何營運的呢?聯合總 艾登堡爵士、流行歌星、政治人物和 「EOCA 通過會員費籌集資金,金額 過國際媒體平台的廣宣,讓所有參與



Angofa草原保育地及自然林道



在英國的Cut Gate協助修復林道和保護泥碳沼澤

畫就是透過公眾投票成功獲取資金, 們的協助,使我們的社區能夠持續 並補充「我們對計畫案的熱烈投票反」改善林道小徑與野外生態的環境。」 應和參與方式感到非常驚訝,尤其是 年輕人參與佔了最多數。正因為如此, ADEPT Transylvania 於 2019 我們意識到其實有非常多人願意支持 年獲得 EOCA 的資助,其執行 有助於保護環境的計畫,以及在氣侯 長 Cristi Gherghiceanu 表 示: 變遷的緊急情況下,去關心森林和生 「EOCA 幫 助 我 們 將 Angofa 物多樣性。另外,我們也收到了來自 Wild Center 與登山自行車道串聯 墨西哥和世界其他地區的許多支持。 起來,增加了體驗大自然的人數。 這是一次奇妙而令人鼓舞的經驗!由 有了這個正向循環,我們更容易完 於我們在投票過程中獲得了承諾,執 成農村發展和生物多樣性保護的使 行該計畫對我們來說將是一項重要任 命。」

在不同的時間、不同的地點,EOCA造、供應、經銷、零售、推廣,或 都會根據當地的需求去資助計畫。其 是愛好戶外運動的族群,都歡迎貴 中包括在羅馬尼亞和南非建立自行車 公司加入 EOCA。EOCA 可以為您 道,通過生態旅遊加強對景觀的保護; 的公司提供客制化的環境保護捐贈 也透過與槳板愛好者、登山車騎士、 計畫,這也可為您的公司的實現企 徒步旅行者、衝浪者和滑雪者一起清 業社會責任,提供公司參與各種環 除環境中的塑料污染;在蘇格蘭、瑞 保議題的機會。您不用想得很複雜, 典、法國、印度尼西亞、西班牙和尼 從很簡單地支付會員費,到贊助您 泊爾等協助恢復、重新種植和保護森 公司願意投入的特定項目,EOCA 林。另外,也保護義大利和西班牙的 都可以透過其峰會 (summit) 會員 熊、英國的紅松鼠、婆羅洲的猩猩和 計畫,為您的公司找到和管理這些 泰國的大象的棲息地。

織)是 2020年 EOCA 資金的獲得 們都喜歡和享受自然。透過大家的 者,他說:「我們有責任為自行車騎 努力,相信我們可以比以前做得更 士、跑步者和徒步者提供靈感、訊息 多、更好。」 和工具,以保護和改善他們的林道小 徑及生態。為了實現這一目標,我們 更多有關 EOCA 的資訊請上網: 需要財務支持、各領域的專業知識和 www.eocaconservation.org,或發送 各個戶外運動品牌的支持。而 EOCA 電子郵件至 info@eocaconservation. 為我們帶來這些支持及資援,透過他 org 與我們聯繫

我們希望大家共同加入,無論你是製 項目。根據 Catherine Savidge 的 說法,「這是一個獨一無二的協會, Dom Ferris (Trash Free Trails 組 號召大家共同為維護自然生態。我

無線電變世代來臨

自行車的傳動系統,除了增加更多的飛輪齒數,近幾年高階 傳動的主流,是導入了電子化以及無線通訊,在北展你可以 看到這些無線電變帶來的全新體驗。



Shimano DA Di2 CS-R9200

盤配置的前變系統。值得一提是,新 款飛輪一樣兼容於以往的 HG 棘輪座 系統。

Shimano DA Di2 RD-R9250

Shimano MO814 的 Di2 電變邁進第 三世代,同時將創新科技導入 Dura-Ace 以及 Ultegra 套件。其中最為直 觀的亮點,在於邁入12速以及更快、 更精準的電變換檔。在軟體部分,使 用者可下載 eTube 手機 APP, 讓騎 士客制化設定全同步、半同步變速、 多重變速、變速速度和雙控把手快速 按鈕等偏好選項,以及設定衛星按鈕 等。而這兩套頂級傳動系統,不僅提 供油壓碟煞的規格,也另外提供C夾 制動的選擇,讓愛好經典風韻的層峰 車友,一樣能與時俱進。

但是,如果您要完全享受第三代 Di2 的最大創新設計,也就是半無 線電變科技,直上油壓電變系統 是唯一選擇。Shimano 的半無線 電變,其原理是煞變把與前、後 變之間是透過無線訊號傳輸;而在前 變、後變與座管電池之間則維持電線 的配置。進入新世代,充電的方式也 改變了,要替座管電池充電,只需要 將充電線連接至後變即可充電;而搭 載無線傳輸的煞變把,則是分別配置

而在專業登山車傳動套件部分, Shimano 針對 12 速系統使用了專 屬 Microspline 棘輪座規格。但針對 e-MTB 部分,這間聞名全球的日本傳 動大廠就採取了不同的方式:e-MTB 傳動系統只提供 XT 及 Deore 級數, 並且使用 Link Glide 技術只配置 11 速 或是更少的速別。Link Glide 重新設 計的卡式飛輪齒片具備更厚的基底與 獨特的凹槽,可大幅改善 e-MTB 中 置馬達高扭力應用中的耐磨性。Link Glide 的定位可說是專為 e-MTB 而 生,不同於 Shimano 最新的專業登 山車套件,它更注重在經濟實惠以及

持久耐用的性能。

情況自行更換。在12

速的飛輪齒數部分,提

供兩種齒比配置,分別是

11-30T 以及11-34T。這

兩款飛輪齒比, 不僅涵蓋

了較大的齒比範圍,並且也兼

顧了變速換檔的綿密性,再搭配上雙





SRAM Xplr Rival AXS



可說是後發先至、暫居領導者的地位, 胖胖框輪組,以及一款更注重舒適性 一步步地將其 AXS eTap 科技下放到 的 Service Course SL 70 XPLR 鋁 級數更為入門的變速套件,目前在登 合金彎把。 山車部分,GX級數也導入了AXS電 變科技了。此外,近年來 SRAM 持 正當 Shimano 和 SRAM 還在討論公 續擴展事業版圖,讓這個美國品牌、 路車是否需要前變速器,來自比利時 台灣製造的變速器公司,積極投入 的新創公司 Classified Cycling MO910 持續蓬勃發展的 Gravel 市場,推出 提出了創新的解決方案,將電子無線 XPLR 變速套件系列。XPLR 系列同 變速箱整合進入了後花鼓,這可以 樣提供包括 Red、Force、Rival 共 取代傳統前變速器的功能。這款名 三種級數,不同於標規版的是,其飛 為 Powershift 的全新系統,不僅重 輪齒數加大到 10-44T,這樣的齒比 量輕,而且提供兩段變速。控制器可 足夠 1X 的配置去征服各種地型,而 安裝於公路彎把,並且透過無線傳輸 其直鎖式齒盤提供從 38 至 46T 的齒 將訊號傳送到後輪帶有接收器的貫通

口味的 Gravel 玩家, Rock Shox 推

談到無線電變的發展,SRAM MO612 ZIPP,則帶來了相容於無內胎系列的

片規格。對於喜愛挑戰崎嶇路況、重軸,再去控制後花鼓進行變速。

出 Ruby 短行程避震前叉,和一款名 根據 Classified Cycling 的說法,换 為 Reverb AXS XPLR 的短行程伸 檔只需千分之 14 秒,並且因為不需 降座管。而同樣隸屬於 SRAM 集團的 要前變換檔,因此不再擔心會因為掉 鏈而損傷了騎士寶貴的車架。而其變 速齒比為 O.7:1,可模擬公路跑車的前 變速檔位。在搭配使用現今主流的 11 速或 12 速系統,騎士可以得到 22 速 或 24 速的完整及綿密的齒比,並且 在外觀上更為簡潔及高級。為了方便 讓消費者升級, Classified Cycling 提供一整套的升級套件,內容包括了 一組空力碳纖維輪組,框高分別提供 35mm 或 50mm。在 2021 年的歐洲 展, Classified Cycling 憑藉這一套 Powershift 系統獲得了設計金獎肯

> **彥豪金屬 僅參加線上展** 是全球制動系 統的重量級品牌,而其針對售後市場 推出的 TRP 品牌,早在 2019 年即 推出 G-Spec DH7 DH 下坡車用7 速變速系統,零件包含了變把以及後 變。2020 年再推出 G-Spec TR12,

> > 也 就 是 12 速 的 MTB 變 速系統, 適用於林道越野 以及 Enduro 車款。來到 2022, Tektro 推 出 適 用

於電動自行車的 E-Drive 9 系統,以 提升其在傳動系統的競爭力。並且該 套件不僅包含變把以及後變,還包括



Tektro E-Drive 9 system

了專屬的 9 速鋼結構飛輪,齒速為 11- 來,其 C-Drive 一直為城市通勤車和 項,暫時不會在售後市場銷售。

產業缺套件的情況下前景看好。多年 不需要前變速器。

46T。為了提升飛輪的耐用性,提供 兒童自行車提供經濟實惠的皮帶傳動 了一個易於更換的 3 片齒輪組,以解 解決方案。而旗下另一個 Geardrive 的規格可適用於公路車 決最常見的電助力傳動系統的摩損問 品牌,更專注在入門級數的傳動系 8-11速,以及登山 題。變把配備相同的棘輪式離合結構, 統,該套件已經搭載於美國 Walmart 車 8-12 速, 具 以降低發生掉鏈的情況。Tektro E-的成車銷售三年以上。傳誠技研的零 有耐用的鍍銀 Drive 9 傳動系統目前只提供 OE 選 件主要在彰化生產,僅有變把是在中 鎳表面。棘 國製造。2022年,擴展產品項目增 加了鋼製曲柄組,齒片採用直鎖式設 傳誠技研 MO304 是另一個根基於台 計,以及帶有錐度的 BB 心軸。由於 灣的傳動套件供應商,在目前自行車 Geardrive 只提供 1X 單盤系統,因此

10 速,並且聚焦於對價格敏感而且量 11T。最後一點也很重要,在目前自行 大的亞洲市場。根據傳誠技研創辦人 車產業缺料及缺件的情況下,傳誠技 陳柏誠的說法,這些系統不僅聰明, 研可為客戶提供較短的交貨期。 而且經濟實惠,可以透過簡單的改裝 ■LvR 來將前齒盤升級為雙盤或三盤。談到 關於 2023 及未來的新品,傳誠技研 計畫進一步跨入 1x11 和 1x12 的高階傳 動系統。近期其銷量大幅增長的品項, 是 Geardrive 品牌的飛輪,主要需求 來自於歐洲及北美的 OE 客戶。飛輪

DTS Geardrive Rear Deraileur

上述的傳動系統提供8速、9速檔或 輪規格採用 HG系統,最小的齒數為



DTS Geardrive 9s Sprocket

專訪:TBA 秘書長 張蕙娟

引領台灣自行車產業走向未來

在過去兩年,自行車及其零件的需求旺盛,連帶讓供應鏈的訂 單滿手,以及面臨原物料和運費上漲,讓自行車產業帶來了機 會與挑戰。為此,Show Daily 採訪團隊有幸與 TBA 台灣自行車 輸出業同業公會秘書長張蕙娟 (Gina Chang) 進行專訪,透過她 的觀察及洞見來剖析疫情下的自行車產業表現。

產業的表現,您怎麽評價?

張蕙娟:台灣的自行車產業在電動自 **張蕙娟:**全球最大的自行車市場在歐 75 萬輛電動自行車和 150 萬輛傳統 預期前景看佳 自行車。

Show Daily: 您認為台灣自行車產 些其他市場? 業面臨的主要挑戰在哪裡?

張蕙娟:由於新冠疫情的持續衝擊, 們肯定會關注這個市場。至於亞洲, 使得市場端的需求及訊息一直在快速 區分為兩個獨特的市場,首先是北 變化,並且改變的速度比我們想像的 亞(包括日本、韓國、中國大陸和台 要快。大家都知道, 電動自行車早已 灣), 這些地區在消費力和專業知識 是發展趨勢,但這同時帶來了機會與 上,與南亞國家呈現出不一樣的水 威脅。可能的威脅在於開發電動自行 平。為此,特別是對於南亞,我們需 車,需要更高昂的研發費用,這會讓 要推出適合的產品以及銷售通道。這 中、小企業面臨更大的壓力。而另一 意謂著在產品定位上要更為入門及經 方面,機會則表示這可能會推向另一 濟實惠,著重於實用功能以及簡易組 波高峰,大多數的製造商都想在電動裝、維護,並且在銷售上可能導入網 車市場佔有一席之地。

Show Daily:過去兩年台灣自行車 Show Daily:您怎麼評估全球最重 要的市場?

行車領域又迎來了強勁增長的一年。 洲,所以競爭也很激列。為了在這個 即使是在新冠疫情的持續衝擊下,市 重要市場上持續增長,我們正極力發 場需求仍在繼續飆升。根據我們的出 掘新生代族群及探索其興趣,以及後 口統計數據,美國的增長速度超過了疫情世代可能帶來的轉變。另一方面 歐盟地區,這一點讓我們感到有些驚 我們也聚焦成長中的市場,例如美國 豔。截至第三季度末,台灣已出口近 (尤其是北美)的市場表現特別突出,

Show Daily: 目前 TBA 還關注哪

張蕙娟:澳洲最近發展迅速,所以我 路直購。



TBA台灣自行車輸出業同業公會秘書長張蕙娟

Show Daily:除了關注市場發展, Show Daily:2022 年 TBA 主 要 TBA 還為台灣自行車行業提供了哪些 關注哪些趨勢、可能面臨哪些挑戰? 協助?

張蕙娟:隨著台北展和台中週的舉辦 小企業)的網路形象是關鍵。另一方 在疫情下顯得更加複雜,如何掌握網 面,我們持續尋找降低碳排放的生 路通訊來宣傳及溝通是一大關鍵。依 產模式,讓製造變得更環保。為了 我們的觀察及淺見,許多台灣品牌在 要取得低碳生產認證,需要替整個 線上銷售以及網路行銷上,仍有很大 供應鏈進行體檢,並提出可能的優 的進步空間。基於這個原因,TBA 推 化方案。 出了幾項線上培訓課程,來指導我們 的會員,並為他們在面對現有和潛在 缺工也是一大挑戰,特別是要找到 客戶等,如何透過掌握鏡頭來替產品 合適的工作同仁尤其難,這也因此 說故事。畢竟,線上展和線下展的差 大大地限制台灣自行車產業的增長 異很大,尤其是在產品展示部分。此一力道。或許,透過導入自動化生產, 外,TBA 還推出了一系列共三本書, 可以緩解缺工的問題。■ LvR 幫助其成員包括規畫他們的業務、優 化網路作業以及品牌和美學的設計提 升等。

張蕙娟:提高台灣廠商(尤其是中

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2021年台灣自行車出口數量

電動自行車出口額 首次突破 10 億美元大關

在過去幾年,儘管台灣自行車產業的整車出口總量略有下調,但在電動自行車的類別仍持續飆升且後勢看漲。根據 TBA 台灣自行車 輸出業同業公會的統計數據, 2021 年的電動自行車出口總值正式突破 10 億美元, 首度超越傳統自行車的出口總值。

過去一年半的時間裡,台灣對於 **在**新冠疫情的控制得宜,在全球可 說是防疫模範生。但時間回到 2021年 的5月中至6月底,台灣面臨第一波 嚴重的本土群聚感染事件。為此,疾 管署陸續推動更為嚴謹的防疫措施, 包括配戴口罩、嚴格的機場出入管制、 保持社交距離等,這些防疫措施也對 工廠的產能帶來了衝擊。與此同時, 新冠疫情也打亂了全球物流和海運塞 港,導致在工廠製造完成的產品,難 以將貨物運往所需的市場。儘管有這 些干擾及挑戰,台灣的自行車產業依 舊全速前進地趕工。這主要是每間工 廠都滿手訂單,必須加速生產的腳步, 包括從代理商到經銷商都在 2021 年 12,020 輛和日本的 9,755 輛,上述 洲的組車廠進行組裝。在短時間內要 要市場,澳洲為 85,145 輛,日本為 上調了訂購量,因為他們不想再冒險 是這些地區佔比較大的出口市場,儘 改變這種模式並非易事。 回到 2020 年面臨無貨可賣,也就是 管規模比起歐美要小得多,但也接近 自行車缺料、缺件的窘境。

億美元大關。

來到歐盟國家,去年台灣的電動自行 車出口量增長相對溫和,增長 15.5% 至 482,689 輛,出口總額增長 18% 至 6.254 億美元。對於 NAFTA 北美 自由貿易協定地區,尤其是美國來說, 成長力道相當強勁。對美國的電動自 行車出口增長了 68% 至 255,332 輛,出口總額增長了驚人的 79.5% 至 3.524 億美元。至於電動自行車的平 均出口單價,美國略高為 1380.13 美 元,而歐盟國家為 1295.75 美元。 縱觀亞洲和南半球的國家的電動車出 口,出口至中國為 18,661 輛、澳洲的



於瑞士的 8,416 輛。

車出口數據顯示 (2021年的全年出口 加總就佔了佔台灣 2021年電動自行 勤車,或是專業競賽運動的跑車以 數據將在 2 月底於 TAITRA 貿協記者 車出口的 80% 以上,是出口市場的 及登山車。對於傳統自行車類別, 最後也非常重要的,台灣的自行車零 會上公布),與出口強勁的 2020 年 重中之重。目前歐盟頒布一套新政 NAFTA 北美自由貿易區是台灣最重 件出口也居於領導地位,以其高品質 的數據相較,2021年的出口量增長了 策 - 綠色新政,宣布降低各種自行 要的出口市場。但值得說明是,雖然 和多樣化規格而聞名全球。在這一類 18%,出口值提升了14%,一年比一 車的增值稅;另外,美國也針對電動 擁有較高的出口總額,但其平均單價 別,由於全球的需求一直在增長,也 年好。截至 2021 年 11 月,台灣共出 自行車推出聯邦稅收抵免的新政。藉 卻較低。總體而言,傳統自行車出口 連帶拉升對於零件的需求。與前一年 口電動自行車 914,020 輛, 遠遠超過 由這些友善政策的落實, 相信台灣的 總額仍為 1,208,050,974 美元。 統 相比, 出口自行車零件的噸位增長了 2020年的 760,000 輛。以這兩年 電動自行車出口在未來幾年,在這兩 計 2021年 1月至 11月, 台灣共出 44.15%, 達到 68,264.25 公噸。至 的1至11月進行比較,台灣電動自行、大市場的需求應該會維持強勁動能。 口 184 萬輛傳統自行車,約為電動、於出口總值,58.2%的增長令人驚豔, 車的出口總量躍升了 34%,平均出口 值得一提是,考慮到物流的方便性, 自行車出口數量的兩倍。 其中有多 總額達到 2,259,668,545 美元,僅略 單價增長 2% 至 1325.16 美元。整體 在台灣組裝的多數電動自行車,其電 達 44.5% (820,065 輛)銷往北美 低於傳統自行車和電動自行車的出口 出口總額增長36.7%至1,211,220,985機系統大多是使用亞洲品牌,包括自由貿易協定地區,較前一年相比增總值。再細分各零件的佔比,最大佔 美元。即便還未列入 12 月的出口值, Shimano、Yamaha、Panasonic 長了 26.7%。此外,平均出口單價也 比為車架和前叉的 37%。另一方面, 台灣的電動自行車出口也首次突破 10 、Bafang、MPF 以及 TranzX。另 拉升了近 10% 至 671.80 美元,使傳 成長放緩的類別是內胎和鏈條,這可

能,但是台灣出口的傳統自行車,依 降。這原因可能是來自於東南亞國家 回顧 2021 年 1 月至 11 月的台灣自行 歐洲和北美自由貿易協定市場,兩者 舊表現的可圈可點。從童車到城市通 的相互競爭。 一方面,歐洲品牌的電機系統包括統自行車的出口總額增長了39%至能說明了其他國家也重視自行車產業, Bosch 或是 Brose, 大多會選擇在歐 5.509 億美元, 這是令人印象深刻的 並導入在地化生產。■ LvR

表現。另一方面,出口至加拿大和墨 西哥的自行車平均單價遠高於美國, 因此美國對中國徵收的反傾銷稅確實 产生影響。

來到對歐盟國家的傳統自行車出 口總量,以 505.810 輛的數量佔 27.5%。這一數字與前一年相比增長 了 21.3%, 出口總額為 2.873 億美 元。雖然出口到歐盟的傳統自行車的 平均單價下降了 12.8% 至 568.05 美 元,但在歐盟國家之中卻呈現很大的 落差,從葡萄牙的 107 美元到愛爾蘭 的 2336.65 美元不等。另一方面,亞 洲及南半球仍是台灣自行車產業的重 59,874 輛,韓國為 29,122 輛,中國 為 28,356 輛。在所有這些國家中, 雖然電動自行車擁有驚人的成長動 傳統自行車的出口平均單價均略有下





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