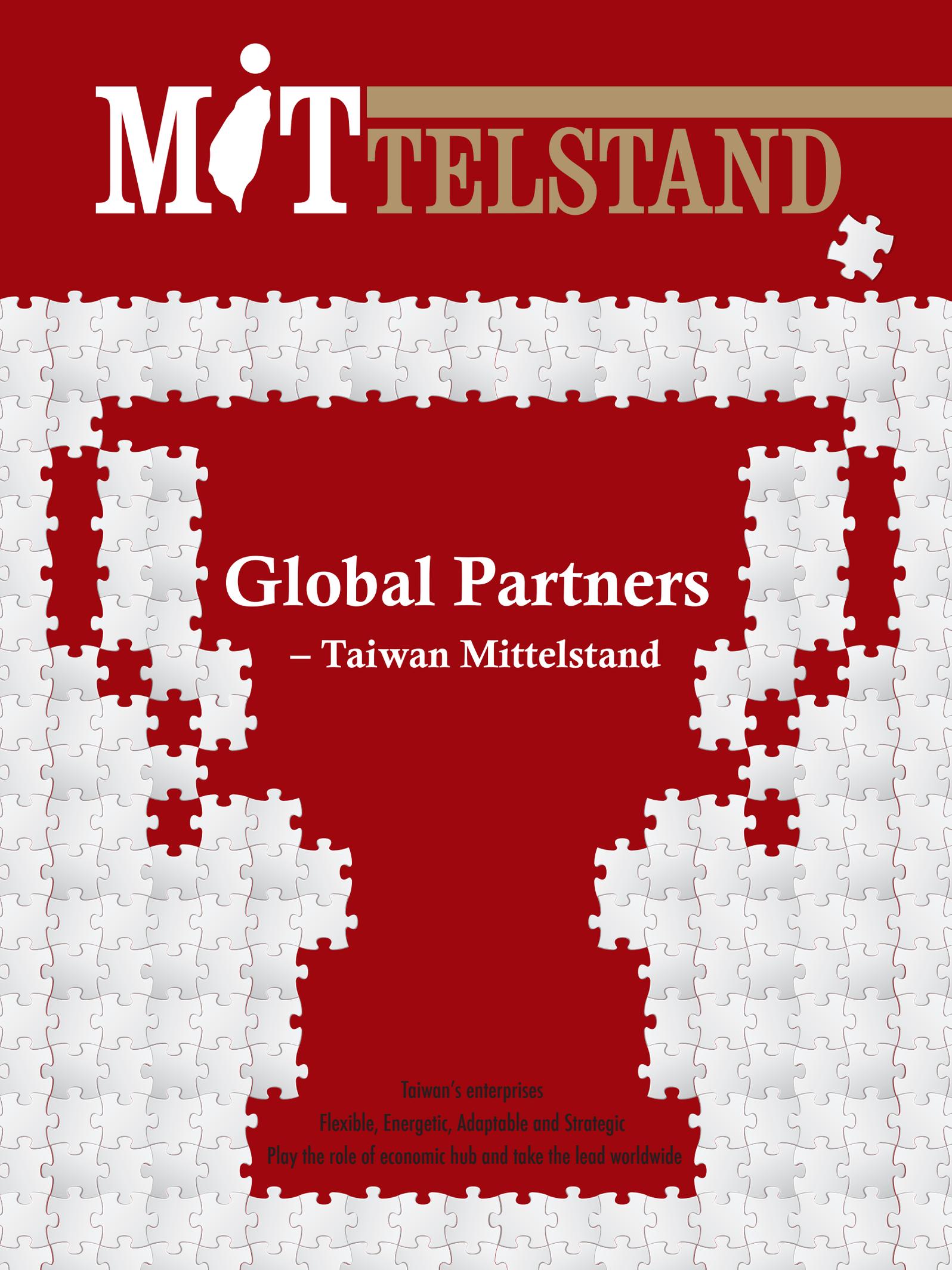


MIT TELSTAND



Global Partners

– Taiwan Mittelstand

Taiwan's enterprises

Flexible, Energetic, Adaptable and Strategic

Play the role of economic hub and take the lead worldwide

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Taiwan Mittelstand welcome global markets by innovation advantages

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Sharing the identical fame in management with Peter Drucker, the German management leader, Hermann Simon has long discovered in 20 years ago, that one of the main reason for Germany continue its growth and not influenced by recession was due to a group of professional Mittelstand which in fact specialized in their fields and hidden in various industries. He called this group the "Hidden Champions," who are the main energies to drive advancement and innovation for their country.

"Everyone has perceptive bias against the business world," suggested by Simon. Hidden Champions hold remarkable important positions in the economy. There may be 10,000 different demanding markets in the world, but only 200 are big while the rest 98% are small. Every small market has its leader, and these leaders are the "Hidden Champions." Hidden champions generate most of employment opportunities and cultivate the strength for long-term innovation in the society. These businesses have quietly become champions in their own domains, leading ahead among other competitors, gaining access in the international market, and occupying global market share over 70%.

"Other than large corporations, a nation needs Mittelstand's international competitiveness in order to gain nation's global competitiveness." Simon said. However, people have been neglected this aspect in the past.

Mittelstand Propel the advancement of small and medium business

There is a word in Germany known as "Mittelstand", which originally meant small and medium-sized businesses. It also has a hidden meaning which represent an company's expertise in certain fields with crucial technological competency. Such concept coincides with Taiwan's industrial characteristics.

Following the example of successful experience from Germany, the Executive Yuan proposed the "Promotion of Mittelstand Development Project" in 2012. The purpose aims to cultivate Mittelstand in their certain fields with unique or proprietary technology and constant focus on their principle industry as well as international competitiveness. Aiding from the government, this project intends to create investment and employment opportunities, thus establishes a foundation for sustainable development in Taiwan.

This project has defined the feature of "Mittelstand" as "Businesses with considerable size, solid technological foundation, unique and proprietary technology in certain fields, highly competitive in the global market, and establishment of primary management or production line in Taiwan," after referenced from the definition of German's "Hidden Champions", and considered Taiwan industry development characteristics.

Distinguished small to medium size businesses have been encouraged to become the Mittelstand through the project's selections. Virtuous business cycle and education are expected to be stimulated while improving competitiveness for Taiwan.

Taiwan Mittelstand connect with global market

The solid strength of Taiwan Mittelstand should not be underestimated. Two essential products, ball screw and linear guideway from Hiwin Technologies have ranked top 3 in world market. The company is known as the "Mother of Industry", and world-renowned in machinery industry.

The strength of Taiwan Mittelstand also can be observed from sporting games. There are 10 sports products from Taiwan that are consider as the world's best and distributed among 4 main industries such as textile, shoe manufacturing, bicycles, and sports products with the total output value close to NT\$500 billion. From professional athletic shoes to Olympics sports apparel, soccer, bicycles, and even all types of rackets which are all the best gears fit for world's top athletes in Olympics.

In this handbook, we also list many stunning Taiwan Mittelstand that cover the semiconductor, electronic components, optoelectronic materials, automotive, machinery equipment, metal processing, chemical materials, rubber products, biotech medical services, information services, design services as well as software publishing and other different industries in its professional field of international markets which hold an important place.

Industrial Innovation Policy Promotes the Rapid Growth of Mittelstand

To welcome the new era of innovative economy, the government actively promotes 5+2 projects such as "Green Energy Technology", "Asia Silicon Valley",

"Defense Industry", "Smart Machinery", "Biotech Medicine", "Circular Economy", "New Agriculture" as well as "National Digital Innovation Economy" and "Cultural Technology" which will guide the industries transform from the efficiency-driven thinking in the past into an innovation-driven thinking for the future. By connecting with local, international, and the future tactics, it will promote the industrial development strategies from intellectual, green, cultural, and high qualitative value directions.

Other than promoting industrial innovation policy, Taiwan government also actively improves the industrial development environment, including the stable supply of water & power, the activation of land use, and the importation of talented people, etc., as well as looser laws and regulations to create a high quality industrial innovation environment so that can accelerate their new creations. New quality products or services will continue to be developed in particular fields and expand their niche markets to overseas. At the same time, these improvements will bring supply chain manufacturers into the international arena and strengthen the international competitiveness of industries in Taiwan.

Mittelstand are the competitiveness of Taiwan

Simon acknowledged the performance of Taiwan Mittelstand. He believed Taiwan outperforms Korea and Japan in terms of internationalization, and its openness. The Economist also indicated "Taiwan industries are incredible. Their assembly lines are amazingly versatile and flexible that switch from product A to product B can be done overnight."

During global economic recession, small and medium businesses are performed better in support Taiwan's economy than large corporations. Similar with Germany, sales from Taiwan Mittelstand's group are unaffected by such distress. Moreover, the objective of "gain on Japan and German" has transformed Taiwan's manufacturing sector in a better phase through the spirit of newer craftsmanship which eventually are the essentials to become world top brands.

Over the years, Taiwan manufacturers have taken on the technical and quality advantages to be stabilized in the international market. While facing the challenge of global competition, Taiwan Mittelstand and the government are ready to continue to take the preemptive position in the international market through constant innovation. ■



Challenging the global market by innovation.

The successfulness to Taiwan Mittelstand is not from the scale in corporate size, rather the advantages of their products that focus on their specialty and uniqueness.

Taiwan's Advantages in Asia

Taiwan is one of the freest country in Asia in terms of democracy. Its tactical geographic location for transportation in Asia Pacific, open trade market, top quality professionals, complete intellectual property protections, well established industrial clusters, high network coverages, friendly and enthusiastic people, and rich food culture were all highly recognized advantages around world. Taiwan also has the most potential development advantages in Asia as well as one of the top choices to set up operational headquarters for multi-national corporations in the Asia-Pacific Region.

Investment Environment Highly Recognized by the International Community

Taiwan has 1,400,000 small to medium businesses that are essential global business partners with distinct characteristics including flexible, energetic, dynamic, aggressive, and innovative. Its liberal investment environment has been acknowledged by numerous international recognitions. According to the 2016 Global Competitiveness Report (2016-2017) from World Economic Forum (WEF), Taiwan ranked top 14 among 138 countries and the 4th place in Asia Pacific region. In Doing Business 2016 report announced by the World Bank, the ease of doing business in Taiwan ranked 11th place. Furthermore, Taiwan also ranked 14th place in best business environment between 2014 and 2018, released from Economist Intelligence Unit.

Additional to the outstanding investment environment, risk management is also a crucial element concerned by international corporations. According to the 2016 Second Global Investment Environment Risk Assessment Report released by the Business Environment Risk Intelligence (BERI), Taiwan ranked the world's 3rd place in risk assessment, followed by Switzerland and Singapore, which indicated it is a worthwhile location to invest.

Transportation is efficient from Taiwan since it has a tactical geographic location for northeast and southeast Asia. It only takes a little over 2 hours to fly to major cities in west Pacific Ocean including Tokyo, Seoul, Beijing, and Shanghai. By connecting Japan from north, and 10 ASEAN members from south along with India, Taiwan has connected all in a single line from its tactical location. East of Taiwan is United States, and west is China which is the world's second largest economy. Taiwan has been becoming a bridge that connected all markets from Europe, America, Japan, and even Asia-Pacific in rising which indicated Taiwan possessed excellent position to be both offense and defense in international trade, and gained quick access to resources and markets from the world.

Taoyuan International Airport has exceeded 40 million passenger traffic in 2016, which it received Class A international airport in the classification of world international airports. The airport mass transit offers baggage check-in service for passengers from Taipei, very convenient for business travelers and tourists.

Taiwan has the most complete transportation network including air, land, and sea. Its inland metro, railway, and highway, are all equipped with comprehensive services. The fast and convenient high speed rail even offers one-day business trip for all business partners. Overall, it reduces business and warehouse transportation costs effectively.

Tactical Geographic Location for Transportation in Asia Pacific

Other than transportation conveniences, Taiwan is also a smart high-tech island. Per Network Readiness Index(NRI) released in 2015 by World Economic Forum, Taiwan has ranked 18th place for internet availability, rapid digital technology development, and e-Government services in the world, which attracts attention from global investors.

Meanwhile, the technology development in Taiwan also increased its efficiency in communication between industries clusters. The solid manufacturing in Taiwan provided complete up, mid, and downstream supply chains, who are the "Hidden Champions". They are not only possessing outstanding production capability, they also have many distinguished development designing professionals. In recent years, Taiwan has been recognized from multiple international awards in various innovative design categories, and its industries started to shift from OEM to ODM. In addition, multiple industrial skills have been cooperated with major international corporations for long term which have made Taiwan an important international partner for production of supply chains.

Smart Island Connects All Industrial Cluster

Highly Educated and Innovative Talented Professionals

One of the advantages that Taiwan has been proud of is its distinguished talented professionals. Advanced education will cultivate talents with capability to discover, explore, problem solving, and proactive teamwork. Likewise, based on the export oriented economy, talents in Taiwan has broadened their horizon from diversified perspectives and possessed multi-language proficiency.

Although the area of Taiwan is only 36,000 square meters, its advantages and capability to develop should not be underestimated. Other than its continuous prominence in global industrial supply chain, Taiwan is also an important trade partner in the world.

Transport Hub in Asia-Pacific Region

Located on the long southeast coast of Asian continent and west coast of Pacific Ocean, Taiwan is situated between Japan and the Philippines, and the central location of East and Southeast Asia island arcs. The naturally superior geographic location turns Taiwan into the transportation hub for Northeast Asia and Southeast Asia in the Asia Pacific Region. It is also one of the most important transit hubs connecting to Northeast Asia and North American routes.

For example, the average flight hours from Taipei, Taiwan to Tokyo, Seoul, Beijing, Hong Kong, Singapore, and other major cities in West Pacific Ocean take

only 2.55 hours; the average marine navigation from Kaohsiung Port to the five major ports of marine transportation, including Manila, Singapore, Hong Kong, Shanghai, and Tokyo, takes about 53 hours.

Due to the position of transportation hub, Taiwan has built the state-of-the-art Taoyuan and Kaohsiung International Airport, and commercial ports in Keelung, Taipei, Taichung, Kaohsiung, Suao, and Hualien, offering transportation with convenience and developed import/export and transit services.

It is clear that Taiwan not only serves as the transportation hub in Asia but is also competent in the key position of logistic transit center in Northeast Asia. Moreover, looking from the geographic map of marketing for emerging economies, Taiwan connects with the world's third largest economy, Japan on the north, 10 ASEAN member states and India on the south, the world's largest economy, U.S. on the east, adjacent to China on the west, the world's second largest economy and the center of global economic growth. Taiwan is in control of the best offense and defense zone, which helps Taiwan draw the resources and market from global production effectively. Taiwan is the key link connecting European, American, Japanese, and emerging markets in Pacific Ocean; it is also the top choice for cross-national corporations to set up operating headquarters in Pacific Asia. ■



Complete and Professional Industry Chain



Taiwan started launching industrial parks since 1950, targeted at export-oriented manufacturing industry clusters. Over the years, Taiwan becomes the world's most crowded industrial cluster region, including the digital content cluster in Taipei, automobile stamping parts cluster in Taoyuan, semiconductor cluster in Hsinchu, CNC machines cluster in Taichung, cycling component cluster in Changhua, automobile components cluster in Kaohsiung, nuts and screws and chemical material clusters in Kaohsiung, are all globally renowned.

Industry clusters are not only the characteristics of Taiwan industry development but also the competitive advantage of Taiwan in conquering the global markets. For example, Taiwan has taken the world's first place in market share in terms of the output value of semiconductors, optoelectronics, information, and communication. Moreover, electronics and information communication industries of Taiwan always own the experience of global marketing and foundation of upstream/downstream integration, which integrates global resources through the effective use of less time and resources.

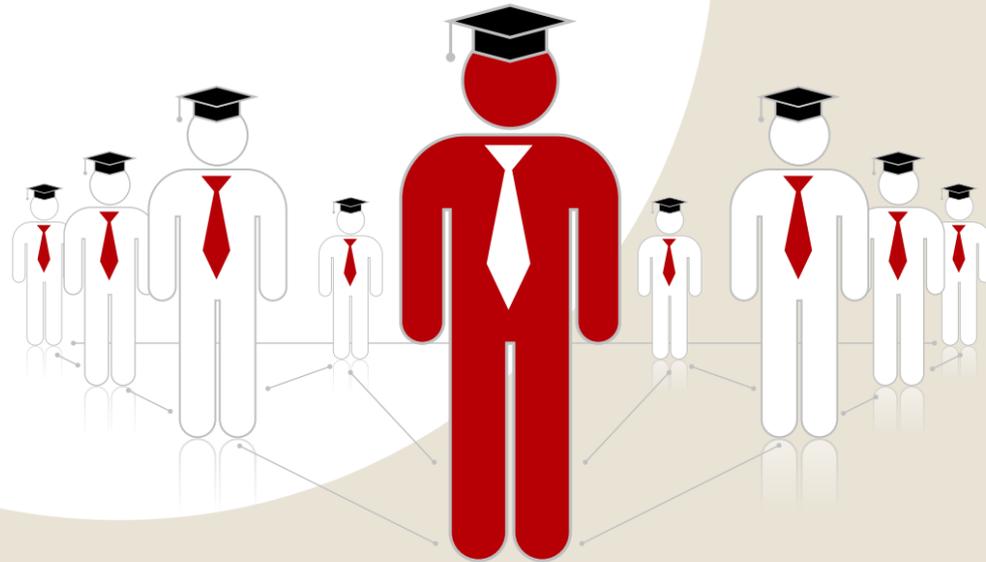
Digital economy is like a locomotive that will drive a new generation in economy. In order to accelerate the industrial transformation and facilitate its upgrades as well as response to digital innovative era, the government is actively promoting the industrial innovation program

which includes "Green Energy Technology", "Asia Silicon Valley", "Defense Industry", "Smart Machinery", "Biotech Medicine", "Circular Economy", "New Agriculture" along with "National Digital Innovation Economy" and "Cultural Technology" which promote the national digital innovative economy.

Under the swift change of international economy, government also launches relevant response actions in midst of the new challenge faced by Taiwan manufacturing industries. The industries are expected to strengthen the management quality and re-upgrade through high-quality R&D, promotion of R&D alliance, and integration of test certifications, and thereby driving Taiwan's economic development forward. Hence, Taiwan's industry clusters constantly upgrade technology, develop new products, and concentrate on international market expansion under the counseling of government.

Due to the dense division of labor for the upstream, middle stream and downstream industry clusters, the complete development of supply chain, the advantage of Taiwan's one-stop service, and the long-term technical connection between multiple industries and the world, Taiwan, has drawn attention from international brand companies to work in OEM and ODM business. Such companies regard Taiwan industries as the key partners in the supply chain of international production. ■

Distinguished Personnel with Higher Education



Personnel are the most valuable asset of Taiwan. The best potential of personnel is impelled from the industry environment of intense competition, which is the key for personnel to outstand. The population scale of Taiwan may not be comparable to big countries but Taiwan is capable of employing distinguished personnel with higher education in some industries, turning these industries into leaders in the global markets.

Personnel fostered under Taiwan higher education are equipped with voluntary discovery, problem exploration and solving, and teamwork. Moreover, Taiwan's industry or economic development started far early than other countries in Asia, Taiwan can learn the practice from Europe and the United States, which virtually strengthens the international horizon of the personnel.

For example, European and American information companies outsource production to Taiwan companies for OEM or ODM. The talents of these industries have collaborated with European and American companies for a long time, whose language and thinking models have been upgraded to an international level. Moreover, Taiwanese personnel engage in creativity and application based work under the disciplines of the industry environment, including system integration, product manager, and product planning.

In addition, Taiwan's R&D personnel have experienced the development process of the entire product and such personnel tend to have higher creativity.

Moreover, Taiwan's technology development is known for its outstanding performance through continuous steps in R&D innovation. The new scientific discoveries and new technologies constantly reach bottleneck and Taiwan controls most of the key components, new materials, processing, and energy use technology in some industries.

When technological innovation goes international, Taiwan also values international technology competition highly, where enterprise, science and technology institutions, and universities all take initiative in the foundation of local autonomic innovation capacity while proactively participating in the global competition and cooperation of technology. The government also takes actions in capital and human resource investment to strengthen the technology R&D, speed up personnel expansion, promote industrial upgrade, and foster new industries.

Under the efforts of industrial, government, academic, and research groups, Taiwan creates the economic growth based on technology industry, playing a considerably important role in the world. ■



Taiwan Mittelstand Practice



GIANT MFG. CO., LTD.



MERIDA INDUSTRY CO., LTD.



KMC (KUEI MENG) INTERNATIONAL INC.



ALEX GLOBAL TECHNOLOGY INC.

Proud to be the World's Top Bicycle Supply Chain

Since bicycle has been transformed from leisure sports to a whole new level in life style, its related industries also have begun to develop. Two of the largest bicycle assembly industry leaders in Taiwan, Giant and Merida, have pivotal abilities in the world of bicycles.

During the 90s, Taiwanese bicycle component manufacturers started migrating to China. At that time, Giant Bicycle was the largest assembling factory in Taiwan. To rescue this soon-to-be-phased-out industry, Giant Bicycle decided to remain in Taiwan and invited Merida, also a bicycle component manufacturers along with few others to formed the "A-Team". The goal is to form partnership with well-known businesses in the world while improve quality and supply chain standards which should result in a positive clustering effect.

The Rule Makers of Global Bicycle Standards

"A-Team" utilized the transformation in managing high-quality products and made the industry widen its economic scale, therefore it has led

Taiwan becoming the center for high-value bicycle R&D, and component manufacturers. It also become the rule makers of global bicycle standards, and pushing Taiwan into a bicycle manufacturing island which eventually took control of the lifeblood of the bicycle industry in the world.

After the brand formation of "Giant Bicycle", it went through courageous changes, overcame obstacle challenges, and finally become the leader of a leisure life trend, thus standing on top of the bicycle group with the highest production. Although the bicycle market in China has been affect by the ride-sharing program, however the exporting markets to Europe and United States continued to increase, especially in electric-bicycle category which has become an important momentum for Giant Bicycle.

The president of Giant Bicycle, Liu, Jin-Paio indicated that they have ride the bicycles to move from manufacturing to life style which lead a new culture in "taste, leisure", which should affect all bicycle business to follow this trend in operation direction.

Merida, who holds three white label brands, "Merida", "Specialized" and "Centurion", no longer retained low-priced products for the China market which has high consumer power. Instead, they focused on high-value electric bicycle since its market continued to grow, and Merida will also fulfill European, and United States' markets which is another momentum for increase profit.

The president of Merida Tseng, Sung-Chu pointed out that by utilizing sporting event marketing such as sponsoring professional cycling team and cyclers, Merida has been

successfully creating a valuable distinguished brand. In addition, a professional cycling team even used the brand "Merida" to win world champion and Olympic gold medal. By going through the riding experience feedbacks from cyclers, Merida will have the opportunities to improve the performance of the products and the momentum for new R&D.

Provide Fast and Accurate Solution by Grasping the Market Demand

Taiwan ranked first in terms of occupying the bicycle chain market in the world. Approximately 70% of the chains are made from KMC (Kuei Meng) International Inc.

How to maintain both strength and light weight in a bicycle chain which assembled from over 500 components? How to bear pedaling force from rapid speed change? How to transform pedaling force into 100% speed in shortest time from instant acceleration?

Concentrate on design and manufacture of chains for over 40 years, KMC has integrated the performance of chains from various type of bicycles, and continue to improve its

features. KMC continued to improve manufacturing skill with innovative manufacturing process in order to produce high performance and better quality products. KMC is the world's largest bicycle chain manufacture. It has created various type of fine chains which have won German Red Dot, and IF design awards. These awards have been attracted attentions from cyclists.

Extend business and Service by Grasping Technological Skill and Rapid Innovation

Responsible for the manufacturing of aluminum alloy and provide high quality bicycle rims, Alex Rims brand has been well known in the global bicycle industries. Other than having the largest aluminum alloy manufacturing capacity and capability, its sales distributor and service agency center have spread all over the world.

To ensure the leading position of aluminum alloy rims, Alex Rims aggressively consolidated all supply chain vertically and led them to transform and upgrade their business orientations. Its goal is to become the top-notch center for aluminum alloy

fabrication, R&D, and manufacturer. The president of Alex Rim, Chen, Wei-Jing indicated that the only solution to gain market advantage is to continue innovative R&D. In recent years, it even extended its business to automobile and aviation industries, thus has become a main supplier for Ferrari automobiles. It even worked with major brands such as McLaren, Hamann, Enkei, Scania, and Volvo. Due to the favor from these notable brands, it proves the quality and superiority of rims from Alex Rim.

Grasp essential technicality, continue innovative R&D, and integrate smart manufacturing process are the main methods for Alex Rim to satisfy the needs from clients and respond to rapid market demands. Alex Rim takes the lead in bicycle, car, and truck rim manufacturing by providing total service solution for all customers.

Due to the rapid changes and fierce completion in bicycle industry, Taiwan manufacturers will not feel comfortable, nor relaxed knowing they have ranked first. In contrast, they will always be on full speed for rapid growth from innovation in order to become the true leader in the trend of bicycle world. ■

Strong Service Capability Shines on Both Software and Hardware

The ICT industry in Taiwan has been accumulating hardware advantages. In recent years, it utilized value-added software applications, and has becoming an integrated system service provider for information system in both software and hardware applications to the global markets.

For over 40 years, Syscom Computer Engineering Co. has been venturing in system integration services and is the only company comparable with large international data storage companies. One of the database software, DB Maker, has promoted to 22 countries over Europe and United States. Also, there are 500,000 current users in Japan.

International Customer Knocked on the Door

The general manager of Syscom, Liu, Ruei-Lun, have stated their strength is the competency to build a national sized information technology infrastructure. Mega size projects such as stock exchange system which will meet international standards, or central bank database including heavy information application system which all can be built from scratch to complete within a half year time span.

Based on the specialization in information technology development for credit card and stock exchange, Syscom used to computerize the entire Taiwan Stock Exchange (TWSE) process system. Due this excellent system integration services, many stock exchange institutions that located between both side of Taiwan Strait have made the same request, thus created an undeniable brand position for Systcom in Southeast Asia and China's financial information technology service sector.

Continuously Surpassing Competitors

Most Taiwanese information technology businesses concentrated on hardware manufacturing, however, few remained persistently on the creation of software applications, and provide long term service in software sector which have received bright results.

CyberLink Corp. is world's top software company for multimedia including audio and video. It focused on total solution for personal computers, tablets, and smart phones in software multimedia. There are over 60 digital multimedia products created from its R&D group for users.

"We have to focus brand promotion on the market" quoted by the president of CyberLink Crop, Dr. Jau Huang. He clearly pointed out that software product can't be seen, therefore it needs a "name" in order to make an impression for the users.

In multimedia software sector, CyberLink has been surpassing competitors and achieved the leading position in the global market. Other than "Power DVD" player which 300 million copies were sold, "Power Director" has won 7-time Editor's Choice awards from PC magazine, BCN award from Japan as well as

Taiwan Excellence Awards in 2015. Both "Power DVD" and "Power Director" have dominate the most market share in United States, Japan, Taiwan, and Germany. Furthermore, "Power Director" and "Photo Director" mobile APPs have exceeded 10 million downloads.

Create Great Value for Software

Galaxy Software Services Corp. (GSS) has been insisted producing software for 30 hardworking years. Many of the management application software have been created for Human Resource, Task & Meeting and Document Management which are favored from foreign and domestic clients.

Under the Cloud computing technology, GSS also made their software Cloud accessible. This would allow small to mid size businesses with limited budget to gain access on the Cloud version, and facilitate their management abilities. There are over 10 thousand Cloud version users have been accumulated so far. In 2015, GSS formed partnership with Inventec Corp. which is a PaaS provider to explore Cloud service opportunity in China. Most Taiwanese hospitals

utilize GSS's Medical Assessment Management System which also attracted hospitals from China. A Japanese distributor, Vintage Inc. also a long-term partner with GSS which sells GSS products in Japan.

Welcome the New Digital Ecosystem

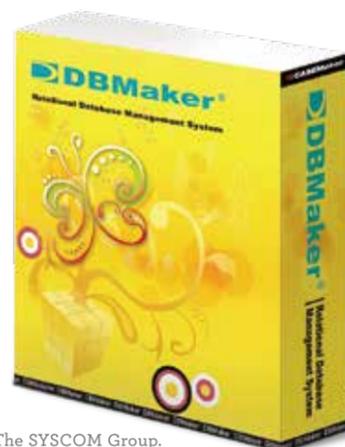
While the world changes rapidly, IT has transformed to a new digital ecosystem due to the rising of DT which has been flipping traditional business model upside down. This is a challenge for all industries, yet an opportunity as well. How to fabricate and learn to utilize data to "create experience" and "manage behavior" are the essential approaches to become a winner.

One of the top 100 businesses in Taiwan, Systex Corp. has been established for 20 years with customers covered Europe, United States, Hong Kong, and China. The company relied on software for its business growth which has become the "best partner for digital transformation". It focused on 5 major strategic methodology for digital transformation which are: Cloud, Mobile, Social Network, Big Data Analytics, and Cybersecurity. With innovative

development, and cross-platform partnership, Systex is able to provide global clients with cross-platform professional information services.

According to Commonwealth Magazine, Systex has been ranked first for 11 straight years in Taiwan Software Industry from "Taiwan top 2000" survey. It is also the only information service company that has a special report from "Greater China Top 1000" survey.

Assisting industries to utilize new technology, build business model that fit for the future development, and increase market competitiveness are the insights from Systex. Through the leading technology from 3 major fields: smart finance, new retail (all channel/all payment), and new telecommunications, Systex will be continuing implement the development of new software, data analytics, and artificial intelligence. Furthermore, it would introduce advance technology from overseas to develop new industrial applications, increase service value, and lead integration of digital ecosystem with clients. This "digital transformation" will prepare its clients or challenges ahead. ■



The SYSCOM Group.



CyberLink Corp.



Galaxy Software Services Corporation



Systex Corporation

New Blue Sea Strategy for Global Electronic Products

Technology have changed lives. Along with the continuation of introducing new electronic products, computers, and their peripherals, the growth of these industrial establishments become unstoppable. From electric switch, VFD, to keyboard, mouse, and professional audio/video products, these industries have insisted relying on their core technology to battle for market share.

Multiple innovative solutions are offered from Aten International Co., Ltd. Including WDS, professional audio/video merchandises, and green energy related products which would fulfill versatile requests for personal, SOHO group, small to medium business, and even large enterprises.

Enter Global Audio/Video Merchandise Market

Aten is the largest output manufacture for "KVM" (Keyboard, Video, and Mouse). The users control, save, retrieve, and centralized manage through multiple computers and servers through a single keyboard, monitor, and mouse. As small as convenient stores, schools, hospitals, enterprises, to as big as Taipei City Hall, Kaohsiung MRT, Highway ETC, commercial flight & fighter jet combat simulation systems, and even data storage room in the office of the President of Taiwan are all using products from Aten.

To be closer, and provide even more immediate technological support services to customers, Aten extended its global businesses in United States, Belgium, England, Russia, China, Japan, Australia, and Korea which

all have branch offices other than the corporate office in Taiwan. It even opened up another branch office in Turkey 2016 to provide front line services for more customers. By following business philosophy, continuing develop new markets & products, and being innovative, Aten will achieve more first places in its business realm.

Emphasize on Technology, Persistent Innovation

Focus on electronic components development, Solteam Electronics Co., Ltd. started out with the manufacturing of mechanical power switch. Over 25 years of endless efforts, its products have ranged from machineries, electronics, photoelectric, to modularized system integrated with software for trouble shooting. These products will stand firm on Asia Pacific markets, and extended to the world.

As a professional electrical switch device supplier, the main products from Solteam are electrical power sockets, power switches, and VFDs including their development, manufacturing, and sales. These products have been used widely in

various industries including hand-held power tools, major appliances, automotive, consumer products, personal computers and its peripherals as well as aquatic businesses.

Due to the high entrance costs in hand-held power tools and major appliances markets along with the long-life span for these products, Solteam has continued its concentration on developing improved touch censor power switch for them. Soltem also has been working with major front line factories to develop efficient and high profile products such as Brushless DC electric (BLCD) control module which has been used by hand held tool manufactures from Japan and European countries. Other than product acknowledgement, Soltem has continued to increase market share.

Today, Soltem has becoming the largest manufacture for voltage switches, its customers included Bosch, Hilti from Liechtenstein in Europe which is the Rolls Royce of hand held electronic tools. Soon, Sotem will expand its business in automotive, and even medical industry which all have promising and prosperous future to maintain the competitiveness in the market. ■



Small Parts Battle for Huge Business Opportunity

You might not know that as small as the microchips used on Apple iPhone, they all have to go through a series of test by electronic inspection instruments. Behind these precision measurements and tests of these critical components are the mittelstand who focused on their expertise from Taiwan.

A mobile phone needs a microchip that acted like a heart as well as quartz that acted like pulse in order to operate and send signals to other distinctive functions. TXC Corp. is a company that manufacture quartz crystals, also is the third biggest in its business.

Quartz Crystals for Apple

TXC is the only Taiwanese company among the top 5 quartz crystal manufacturers in the world. The TXC professional quality products have been used by world-known brands like Apple, Samsung, Sony, HTC, as well as telecommunication companies in China such as Huawei, and ZTE.

TXC knew very well that essential technology cannot be developed overnight. Therefore, TXC not only introduce essential technology from overseas, also aggressively cultivate R&D team internally. Today, the overall defective-free percentile achieved 95% in self-developed devices which ranked first in the world.

The general manager of TXC, Lin, Wan-Hsing have believed the reason behind TXC ranked third place in largest quartz crystal manufacturer position was that other than its effective strategies, also due to all employees acknowledged its business motto: "Trust, Practical,

Innovative, Service, Working Together, Harmonious, and Efficient."

Entering into the Internet of Things (IoT) era, the need for quartz crystal components greatly increased. Known for dynamic and practical sales strategy as well as improve customer satisfactory, TXC started to increase the production line of Voltage-Controlled Crystal Oscillator (TCXO) and sensors, also to develop new types of quartz crystal along with new utilities of sensors which would acquire new IoT business opportunities. Moreover, by going through the combinations of new product applications, a higher profit margin is foreseeable.

Enter the Global Testing Device Market

Before any electronic products rolled out of their factories, they have to go through a series of tests by electronic testing devices. The importance of these electronic testing devices can be defined as the mother of all electronic product industries.

Good Will Instrument Co. started out from producing power supplies, and oscilloscopes. It later started to focus on developing electronic precision test and measurement instruments which become the pioneer of these instruments that have made

domestically. Other than being the first company to develop LCD digital oscilloscope, it is the only company capable of streamlining the entire production from R&D to production for both digital oscilloscope and spectrum analyzer.

Being aware the requests from customers, other than providing high quality yet economical measurement solutions domestically, Good Will Instruments also increases its measurement instrument market aggressively with its own brand "GW Instek", and sell around the world.

Thus far, Good Will Instrument has offshore branches and offices in China, Japan, Korea, Malaysia, United States, Netherland, and India. Moreover, there are more than 400 distributors in 80 countries to service global customers.

Good Will Instrument also know how to utilize "strength borrowed from aboard" which it formed alliances with national level R&D institutions and strengthen its technological competency. Its goal is to produce measurement instruments that fit for up-to-date technology trend, and to show the stability, accuracy, and advancement of the instruments which brings profits from global opportunity. ■

Remain as a Global Leader in General Purpose Machinery Equipment

In the electromechanical industry, companies in Taiwan kept comparable technology with United States, Germany, and Japan. Sometime they are the pioneer of new technologies.

Hiwin Technologies Corp. possesses the most complete drive control products. Its crucial machinery components, linear guideway, ballscrews, and linear motor system, are exclusively used by top global semiconductor, precision optics, automation, industrial machineries, medical rehabilitation equipment factories.

Control Core Technology Requirement

The top 3 semiconductor factories, Intel, Samsung, and Taiwan Semiconductor Corp. (TSMC) have been using Hiwin positioning components and technology for their equipment positioning requirements.

With hearty confidence, the president of Hiwin, Chuo, Yong-Cai, talked about Hiwin has been servicing top notch enterprises, and has world's top notch competitive competency. Due to the core control technology from these large semiconductor companies, the products developed from Hiwin has been playing an irreplaceable character for them.

Hiwin particularly focused to be the global leader in technological innovation of general purpose machinery equipment, not follower. With this awareness, it aggressively hunts talents, and technologies from global well-known universities as well as forming partnerships, thus achieve global innovation strength.

Hiwin understands how to partner with university R&D, therefore it has created ballscrews, single axis robot, multi axis robot, wafer robot, spider

arm robot, and medical robot which all can be utilized in semiconductors, electromechanical, biotechnology, 3C products, automation, precision machine tools, energy conservation, aerospace, and traffic control industry equipment. It has break the monopolized precision machine market from Japan, and Germany, thus become the second largest manufacture for ballscrews and linear guideway next to THK from Japan.

Running Ahead of Customers, Forecast Market Direction

Due to the high-speed rotation in precision machineries, the axel can easily be heated and cause heat distortion or heat up the control element which cause break down problems. Harbor Precise Inc. occupied its fair share in the high temperature control equipment industry market which is able to provide precision variable temperature control technology to $\pm 0.1^{\circ}\text{C}$. Harbor is able to provide solutions to solve the temperature control problems for semiconductor and electronic component during their manufacturing process which will maintain steady temperature for operational machineries, increase product precisions, and even extend machineries' life span.

Now, 7 out of the top 10 Japanese machinery tool companies have installed industrial cooling system, and temperature control product series from Harbor. Others like TSMC, Apple product supply chain factories, and even world's top printed circuit board micro drilling tools

company, Psalux also rely on Harbor to solve critical problems during production.

"We understand the needs of machinery tool factories, and know the future of market directions" quoted by president of Harbor, Hsu, Wen-Hsan. Harbor utilized the advanced technology and strict quality control from top customers to learn, improve for best results. "Harbor Precise Inc. does not have competitors, we are the competitor for ourselves."

Set Its Foot in High-Tech, Sharpen Its Golden Trade Mark

Situated in the ceramic town, Yingge, Kinik Company was founded by Lin, Chang-Shou and his son-in-law, Pai, Yun-Chuan. Since 1953, these two founders have been working in King Ming Ceramic Co. under the carborundum division to produce vitrified grinding wheels and millstones. For over 65 years, long accumulated manufacturing method for "grinding" and "cutting" has been innovated from new technology, and implement operational management to increase competitiveness. Other than supplying grinding wheels, cutting knives for various industries domestic and foreign, Kinik even set its foot on reclaimed wafer industry from traditional grinding wheel manufacturer. This move has made Kinik came out of traditional industry, and advance to one of the high-tech company.

Regards to technology innovation, Kinik has been insisting on widen the product applications and focusing

on the quality of products. With the financial and custom R&D support from government, the president of Kinik indicated "We have let the tools that used in high-tech industries to be our mark, and applied synthetic diamond including: Compax PCD, diamond film, diamond thick film, and we even developed "green diamond" which not only increased the usage life of workpiece, improved tooling quality, as well as lowered the consumption of earth's resources."

Diamond disks have been used on grinding process in chemical machineries for semiconductor IC such as monitor wafer, dummy wafer, and reclaimed wafer. These various wafers have been used on camera optical lens module factories. The diamond disks produced from Kinik's diamond grinding wheel R&D division have won Ship-to-Stock program requirements ward in 2002 from TSMC. It cross-field in high-tech industry for reclaimed wafer, and established wafer business division. It also established photoelectric business division to manufacture precision glass molding lens & camera lens, and wafer level reflowable casting lens & camera lens.

Recently, due to the increase of consumer electronic products, and touchable panels are fiercely needed. In 2012, Kinik developed electroplated diamond mounted grinding head and cerium oxide polishing wheel to fulfill the cutting and polishing of glass needs for customers which implied the irreplaceable value for grinding wheel products from Kinik.

Started from golden technology, Kinik has "grinded" its future for their customers and enjoyed the same effect for its own brand. ■



HIWIN TECHNOLOGIES CORP.



HARBOR PRECISE INDUSTRIES CO., LTD



KINIK COMPANY

Medical Devices Exceed European and United States Standards

When minimally invasive surgery becomes main stream, its related machineries needed to be more precise, sophisticated, and even more precision manufacturing technique is needed. In addition, medical computers played essential rolls in full communication technique and technology integration, thus rapidly increase medical intelligence.

The president of Intai Technology Corp., Cai , Yongfang indicated that Intai started with industrial metal fasteners. After moved into minimally invasive surgery machineries, it developed and manufactured smaller and high accuracy scalpel for minimally invasive surgery, and to compete purchase orders from major medical equipment manufacturers for their minimally invasive surgery machineries in United States. Such technology has exceeded the original suppliers' standards in United States.

Continue Basic Training, Defeat competitors

Intai has never involved with medical devices in the past. However, it has been transformed from low-tech productions in automatic packaging machine, and developed to high-tech manufacturer in disk drive read/write head screws all because of the continuation in its basic training.

After involved with minimally invasive surgery machinery field, Intai has defeat competitors with advanced technological power, and received higher profit margin OEM purchase orders for medical instruments.

Due to the manufacturing of minimally invasive surgery scalpels, Intai has formally entered medical devices production market. The highest output in one month reached 400 thousand pieces.

Twenty years of relentless efforts has created the sky for Intai in minimally invasive surgery medical supplies field. It is currently working on orthopedic trauma, and dental implants medical device tools with its own brand which is on the road to exceed the technology and performance from Europe, United States, and Japan.

In the manufacturing of orthopedic medical devices, Intai has cooperated with Industrial Technology Research

Institute in Taiwan and established Wiltrom Co., Ltd as joint venture in 2009 to develop advanced orthopedic minimally invasive surgical devices, surgical navigation, bone nail & plate for minimally invasive surgery, and spinal implants for world markets. As for dental implants, Intai already have received the permission to sell in Taiwan, China, United States, and Europe.

Implement Market Differentiation, Walk on Individuality

Diabetes patients has been increased gradually, and the need for blood glucose monitoring products also have increased. The manufacture of blood glucose meter test strips and devices, Apex Biotechnology Corp., is the first manufacture in Asia, also fourth in the world to develop blood glucose meter test technology and its patent through electrochemistry approach.

The president of Apex, Dr. Thomas Y.S. Shen is a scholar received with biochemistry interests. He combined the advantage of foundation industries in electronics, machineries, applied materials in Taiwan, and applied similar technologies to develop blood glucose testing related products.

Due the conservativeness in the medical market. European and United States consumers only trusted product brands from their respected countries. Therefore, Apex received FDA approval in United States similar with other major international medical brands, and authorized to manufacture their ODM products with even lower cost. Begin with ODM strategy to enter U.S. and European markets, and wait until its strategic position has been firmed. Later on, with its own brand "Glucosure", it targeted on emerging countries other than U.S. and Europe.

"The market for emerging countries has been increased 15 to 20%, and that is where our opportunities." Quoted by Dr. Thomas Y.S. Shen. The emerging countries like Russia, China, Brazil, India, and even countries in Middle East and Africa will be the target to initiate a layout plan. In the meantime, various demands have established different types of markets,

Apex also introduced hemoglobin, uric acid, lactic acid, cholesterol, and glycosylated hemoglobin testing products. Apex has established its brand recognition in distinguished markets through differentiated products.

Apex has never been feared when confronting with over hundred-year-old competitors. "Once we ride with competitors and entered the market, we ought to think differently, and be able to create individuality without follow the same path with them." Quoted by Dr. Thomas Y.S. Shen with firmed tone.

Concentrate on Essential Medical Market, Achieve Growth Curve

Heavily involved with medical computer market, Onyx Healthcare Inc. has been professionally developing, manufacturing, and selling medical computers with their peripherals in its own "Onyx" brand.

To take over the global market, Onyx has been collaborating with the top 3 medical equipment businesses in Europe and United States, and developing medical equipment and assistive technology device. It will

provide design and manufacturing services of customized medical computers which will fully combine information and communication technology (ICT) and medical technology in order to assist hospitals implement electronic medical record (EMR), picture archiving and communication system (PACS) along with hospital bed entertainment information system.

"Since medical field has been chose, we ought to be more focused, in order to win the world champion." Quoted by Onyx president, Chuang, Yun-Shun, who shared his observation in medical markets. High-end medical equipment purchase orders are generally long term as well as high prices which are the reasons for Mr. Chuang to decide focus on medical equipment field. "We hope to gain large shares of the world market through international patent classification (IPC) technology that applied in medical field." Added by Mr. Chang.

Since medical computers involved with examination and treatment of human body, their certification process needed to be extremely cautious. In addition, 95% clients are serviced in Europe and United States, the certification are all adopt their standards. To synchronize with clients' growth, Onyx has fully prepared and has engaged large effort on its equipment certification and development

In the future, Onyx will continue to input more effort on four major field in physiological monitoring, mobile care, long term care, and assistive technology device. It will also collaborate with similar industries, and assist Onyx to output both hardware and software service for smart hospitals. Onyx will let its services cover China, Japan, and India to achieve growth curve the second time as well as gain industrial competitiveness. ■



INTAI Technology Corp.



Apex Biotechnology Corp.



Onyx Healthcare Inc.

Embrace the future, Gain Global Automotive Parts Business Opportunity

The in the past, Taiwan industries have held important positions in automotive parts and electronics through core technology and quality products. Attribute from the maturing development in smart mobile devices, and the trend that progressed in the green energies, where to find the next wave of automotive parts opportunity?

Hundred-year-old manufactures have been occupied commercial truck headlights in North America, and a Taiwanese manufacturer with better quality and faster customization ability dared to enter the market in top three position.

Gain commercial headlight market in Europe and United States, Utilize Production Speed to Create Competitiveness

Lucidity Enterprise Co., Ltd. in Taiwan has successful break into North America market by rapid speed in design, manufacture capability, and safety certification acquirement. It utilized customers' stringent product requirements and sophisticated specifications to achieve rapid and efficient products supplying speed which made it dispensable for them.

Lucidity obtained various certifications in Europe and United States for heavy commercial vehicle lamps as tickets to quality entering its market. It started to manage developing patents, and aggressively occupying commercial vehicle OEM and aftermarket (AM) services over 5 continents.

"Lucidity has developing and designing capabilities. A product can be modified into over 10 different types and to satisfy our customers' needs. The more products share with

common parts, the more costs we will save, as well as be more competitive globally." Explained by the president of Lucidity, Huang, Wen-Hsian. Vehicle lamps designs are restricted to traffic regulations in various countries, types of commercial vehicles as well as perception and taste from customers, which leads to customized production with low inventory, yet high variety. "The better we are in product customization, the more indispensable we will be." Added by Mr. Huang.

Once Lucidity has become a certified supplier, it dedicated in doing business with top commercial vehicle and vehicle lamp manufacturers. In order to rapidly finish the product development and design requests from Lucidity's customers, it has to clearly understand all related regulations, positions available in the vehicle to fit lamps, structure of vehicle sheet metal, luminosity & illuminance, and manufacturing process. Later on, a template of questionnaire for all product requests is filled by the customers in shortest time, and send back to engineers. Within two-week short period, a prototype of the product should be developed, and be able to meet all requirements.

Other than OEM vehicle lamps for its customers, Lucidity also developed its own name brand, and successfully acquired an United States vehicle lamp distributor "Optronics". When products have been popular

in the market, imitations will be produced from competitors. As such, innovation and speed have become the competition elements. While others are busy replicating Lucidity products, Lucidity already has introduced new generation of products, and continue to take the leading position with speed strategy.

Leader in Automotive Diodes, Crisis to Business Opportunities, Rolling into Green Energy Future

Leading ahead than Japan, German in diode used for automotive alternator, Actron Technology Corp. is currently the biggest qualified automotive diode global supplier. It provided the design, manufacture, and service for vehicle electronic components from advanced technology with highest manufacture efficiency.

Following the effect of stricken policy in energy conservation and carbon reduction from countries in the world, electric vehicle has raised its trend. Due to such environmental awareness, Actron participated in specialized technology project during the development of new technology and the construction modularized design. It formed partnership with Industrial Technology Research Institute, Automotive Research & Testing Center, domestic & aboard universities, and other research institutions to develop high efficiency with low

energy consumption vehicle electronic components. Actron has derived crisis to business opportunities, also fulfilled the application and development of electric vehicles thus continue its global market competitiveness.

To continue be the leader in vehicle electronic components market, Actron focused on development and talent cultivation. "For the past 3 years, R&D costs occupied 5% in total revenue, exceed 6% in 2016." Claimed by the president of Actron, Lu, Ming-Kuang, which he fulfilled the momentum of future growth.

The King of Tire Pressure Gauge, Fit 98% Global Vehicle Types

Hiding in Changhua County, Cub Elecparts Inc. is the leader in tire

pressure gauge, and first company in the world to break the wall of automotive industry from regulation protections. Due to the safety regulation, mandatory on installing tire pressure monitoring systems (TPMS) will be the world's future trend. When a vehicle equipped with TPMS, the driver would be aware the abnormality of tire pressure before flat or even explode, and change tire early to prevent accidents.

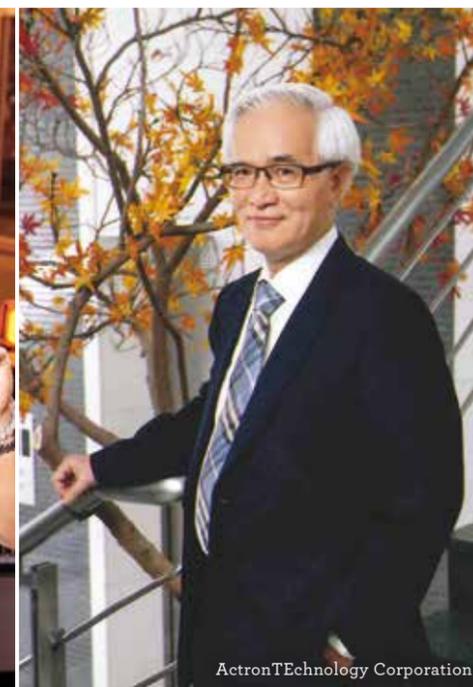
As early as 2003, Cub has observed business opportunity in TPMS. However, in the beginning, it wasn't so optimistic. "The R&D on TPMS won't be successful at the first try. 10 years had been spent from the initial R&D investment to the introduction of third-generation products with matured technology. It was the toughest challenge experienced in my lifetime." Quoted by Yu, Shan-

Chuan, the president of Cub. It has developed a universally accepted TPMS, and solve the biggest problem for all aftermarket service dealerships which fit 98% global vehicle types, and become excellent example to be first in the world.

In order to seek the next business opportunity, Cub has already initiate the R&D of advanced driver assistance systems (ADAS), and layout its territory in smart vehicle market, also concentrate populating the smart vehicle for domestic automobile industry. In 2017, its vehicle blind spot detection system has been certified by international inspection certification company, TUV, also certified with ISO 17387 intelligent transport systems which was the first company that acquired between Taiwan strait. ■



Lucidity Enterprise Co., Ltd.



ActronTEchnology Corporation



CUB ELECPARTS INC.

Taiwan Functional Textile Products Shines in the World

Start with the innovation spirit in R&D, functional textile products made from Taiwan textile industry has large market share for a period of long time. In recent years, it has become supply chain for fashion industry by combining low carbon, environmental friendly, high-tech elements, and gain world acknowledgments.

Taiwan synthetic fiber industry has global leadership position. Its businesses emphasized its technological competitiveness to be even more sophisticated and more differentiated for market layouts. They have built value chain for functional textile industry, and successfully turn Taiwan into Silicon Valley for functional textile.

Concentrate Developing Niche Product, Do Away From OEM

Based on innovative R&D, Sheico Group has become first company to control raw material, processing technology, and full stream-line production for all up, mid, and downstream manufactures of diving suits. The friendly price, and excellent quality of diving suits from Sheico has successfully open its business door to rank first in world market growth.

The managing director of Sheico, Min Shiue indicated that market expansion for diving suits and related products isn't wide. In addition, China manufacturers have competed in clients' purchase orders with even lower cost, which resulted in Sheico extend its business based on long-developed flexible functional knitted fabrics as its niche products to market large demand in functional sportswear. Sheico has arrived a new market paramouncy when separated from OEM, and became ODM for its customers by forming strategic alliances to assist the design and development for their new products.

Develop New Material, Own the Market

Even at the peak of its profit margin and business growth, the largest production of non-woven fabric company in Asia, Nan Liu Enterprises

Co., Ltd. would not underestimate its competitors. It already started to analyze the next market trend and initialized its transformation at early stage which already certified by European and United States standard for its independently developed high-Tech woodpulp spunlace fabrics as an industrial giant.

The president of Nan Liu, Mr. Huang, Ching-Shan, has expressed that only Nan Liu and Dupont manufacture medical spunlace non-woven Fabrics. After Dupont sold its department to the French company, Nan Liu has entered Japanese market, and increased global market share, thus become the top supplier in Asia. To compete with global giants, Nan Liu did not act afraid nor complacent. It continued to develop advanced products and maintained competitive advantages.



Shei Chung Hsin Ind. Co., Ltd.



Nan Liu Enterprise Co., Ltd.

Becomet the Global Brand Supply Chain From a Cup of Coffee

Aiming at the global trend in sports and leisure, the coffee yarn textile functional fabric developed by Singtex Industrial Co., Ltd. has become the apparel supply chain for over 110 sports and outdoors brands such as Timberland and Giant with more than 1 million merchandises.

Over 100 million people in the world drink coffee every day. However, only the president of Singtex, Vita Chen fascinated by the effectiveness of deodorization effect in coffee grounds. He has led a group of R&D scientists to combine recycled PET bottles, used coffee grounds and produced coffee yarn textile. "Only 0.2% of coffee has been drunk, the other 99.8% has become coffee grounds. We used our warm and comfortable textile products to share our concepts in natural resource conservation and eco-friendliness." Comment by Mr. Chen with a friendly smile.

Compare with common cotton textile products, S.Café® coffee nano-particle effectively controls odor 3 times better as well as improved 50% in fast drying. It also has anti-ultraviolet light

capability. Mr. Chen further added that the brand "S.Café®" developed from coffee yarn textile by Singtex will adopt co-branding strategy. It will let coffee yarn textile becoming the heart of apparel industry as well as indispensable, comfortable yet functional material for apparel industry, thus achieve support and acknowledgement via consumers and major fashion brands.

Insist on Quality, Satisfy Customer Requests

With extensive production experience in shoe, apparel, and medical material industries, Paiho Group has world's top productivity in hook-and-loop fasteners (touch fasteners). Other products including elastic band, webbings, shoelaces & pull strings, reflective materials, 2D trademarks, component processing, molded hook, and bamboo related products which are all marketed to the top global 26 sports brands with trustworthy quality.

The headquarter of Paiho Group is situated in Changhua County, and its president, Mr. Cheng, Sen-Mei indicated that Paiho is proud to be co-existed with other similar industries in the town of Ho-Mei, Changhua County. His concept of "one purchase order

feeds one hundred manufacturers" would lead the local cluster of over hundred band manufactures as supportive supply chain system.

Upholding the "customer closeness, and service closeness" strategy, synchronized product development and growth with world top brands as well as appropriate restructure and reorganization, Paiho Group believed these are the power to back up the continuation of business operations. In addition, introduction of new products annually, innovative processing methodology, strong R&D capability will increase enterprises rapid growth including extend businesses to various markets such as: automotive, personal hygiene, furniture, landscaping, and 3C electronics. Furthermore, it would create excellent sales based on innovative, unique, exquisite, and sophisticated designing products.

Price competition is only temporary, and product quality is like a marathon race. Mr. Cheng said "Always think ourselves is second place, and there is always an invisible first place ahead." This is also an essential philosophy for Paiho Group to extend its business all over the world successfully. ■



SINGTEX INDUSTRIAL CO., LTD.



Taiwan Paiho Limited

The Leader of Advanced Petrochemical Material

Although Taiwan does not have petroleum as natural resource, it has a vast operational scale and complete petrochemical industry. However, the competitive advantage of low cost in macro scale production had been long disappeared. Many businesses seek high-value added development to avoid industry recession, and extend business lives.

Founded in 1949, Chang Chun Plastics Co. Ltd. Kept revolutionize in breaking through itself, product development, production process improvement. It is one of the group leaders leaped in international market for copper laminates, Epoxy, phenolic resins, engineering plastics, and electronic chemical materials, which has become an unneglectable competitor for world major manufacturers.

Attention on R&D, Explore Niche Market

Chang Chun always allocated its 10% of human resources in R&D. By combining years of accumulate researched with professional technologies, it has developed over hundreds of products from outstanding research engineers, advanced research equipment with sufficient research budgets. Moreover, it has created both vertical and horizontal integrated product chain.

Chang Chun is also aware of corporate social responsibility (CSR) in environmental protection. By deploying massive funding in R&D and raw material substitutes, Chang Chun has improved production process, fundamental management, waste emission reduction and

pollution prevention in production process. Vast investments have poured into the development of recycling and reuse of waste liquids. It assisted the recycling of client's wasted liquids that were used during merchandise production process, and made it reusable again. Other than decreasing clients' pollution output, Chang Chun also helped in recycle and reuse resources.

Recently, Chang Chun has dedicated to develop specialized chemical product market, and preserved the production of high-value products in Taiwan. Such focus on its advantage with long-term R&D, it has occupied a place in the niche market, and barred from competitors to enter.

Another company that marched into high-valued production is Eternal Materials Co. Recently, with its fundamental core ability, it started to deeply develop specialized, electronic, and new materials which has been transformed successfully to be professional specialized material supplier.

Eternal is the "Hidden Champion" in material industry. It is one of the leading global supplier of dry film photoresist, one of the top three global suppliers of photo-curing materials, and one of the leading suppliers of

synthetic resin in Asia.

The president of Eternal, Mr. Kao, Kuo-Lun, has analyzed reasons why the company has become the leader of the world in its industry, which it controlled core technology in material, development process and experiment applications in order to enhance material performance and competitiveness.

"The reasons behind why Eternal has wider development space than other businesses were mainly due to that we possessed the ability to utilize out consolidate technology." Pointed out by Mr. Kao who spoken the key advantages of Eternal. He believed that the products can be applied to different industries by acquiring core technology in materials. Therefore, industries in the entire world will be Eternal's market.

Both company, Chang Chun and Eternal have kept the German's spirit of "Hidden Champion" to face the red ocean battling market. They have developed exclusive new products to open up blue ocean market. In addition, they have catered, and satisfied customers' requests and find positive direction for eternal businesses. ■



Chang Chun Plastics Co., Ltd.



Eternal Materials Co., Ltd.

Fitness Equipment Lifts the World

As fitness trending around the world, people are enthusiastically engaging in fitness training. Prestige fitness equipment brand "Matrix", treadmill and indoor cycling brands "Vision", "HORIZON" were all can be seen in the top gyms as well as fitness center in five-star hotels.

20 years of business efforts has opened up global market channels for Johnson Health Tech. Co., Ltd. With its own brand like "Matrix", "Vision" and "Horizon." It integrated its production, R&D, assembling, distribution, sales, customer service, and lease into a vertical streamlining service, and has become the first company that defeated many major competitors in Europe and United States from Asia.

Engaging Commercial Markets

Johnson started out as OEM for fitness equipment. In 1995 it was merged with a large United States bicycle manufacture, Trek. Later, it dissolved fitness equipment department, thus Johnson began the quest to innmate the development of its own brands.

Due to the sheer size of commercial market, high-value products, and high profit in fitness equipment for clubs, the top 10 fitness equipment brands are all from Europe and United States. Johnson has examined deeply into customers' requirements, and it was one of the few in the industry that integrated its production, R&D, assembling, distribution, sales, customer service, and lease into a vertical streamlining service in order to engage its precision commercial markets.

To further increase profit growth, Johnson has transformed operation structure from household market to commercial market. It also foreseen the optimistic future development of commercial market, thus injected multiple new features to strengthen its competitiveness in the following:



1. Wi-Fi monitors are added on fitness equipment, and capable to record all fitness results for members. It also provided Facebook group reward activities and broadcasted live to other friends. The pleasure of fitness will be resulted in members staying on the equipment for even longer period. The club also could utilize such IoT functions to absorb additional members and marketing opportunity
2. Dedicated to provide extreme efficient customer service. Johnson has achieved the target to solve 90% customer problems within 48 hours globally this year. It also improved logistic systems for transport global maintenance parts.
3. Fitness equipment contained smart technology features which would automatically report malfunction status back to customer service

through Wi-Fi. Johnson will respond immediately by locating malfunctioned equipment through GPS, and dispatching the nearest repair service truck.

4. Johnson has consolidated global leasing services. Partner with financial institutions and its own financial system, it would provide best leasing solution for commercial clients. Meanwhile, Johnson would recycle all equipment when lease term ends. The recycled equipment would undergo a rigorous refurbishment process before lease out again for profit.

In the leading position of fitness equipment market, Johnson has the opportunity to achieve first place while currently it has remained second. ■

Best Hook to Disdain Global Competitors

Even major action movies from Hollywood in United States used “YOKE” lifting hooks and rings to ensure the safety of containers, vehicles and stunt actors.

The hook equipment and safety belt accessories from “Yoke” brand that manufactured by Yoke Industrial Corp. can be seen in harbors, skyscraper, logistics centers, river crossing bridges, mountain mines, and rock climbing areas. It guarantees the best safety of sky-lifted workers, and heavy lifting machines. A single hook, at any time, any place, needed to guaranteed the safety of the person that hooked on. The hooks and rings Yoke produced were supervised by its president, Hung, Jung-Te which have attracted well-known global companies and even militaries with specific orders for its excellent safety and quality features.

Affordable Fast In Fast Out

Yoke insisted the best products came from top manufacturing technology, strict quality management and long-term innovative R&D. “The customers needed to understand that “Yoke” produces the best hooks without any defectives. Therefore, everyone would purchase our products!” Claimed from Mr. HUNG with tone in pride.

In 2014, a NT\$10 billion profit hooking equipment manufacturer, Crosby, has taken Yoke the only formidable competitor in industrial hooks. Yoke serves its customers with “affordable, fast in and fast out” as innovative management strategy where “affordable” meant massive production to lower cost based on customers’ requirements. “Fast in

fast out” meant smooth operation process from importing raw materials to finished goods that exporting to customers as well as achieved cost saving, time saving while maintain exceptional stabled relationship with both customers and raw material suppliers.

Yoke has capability to produce 1.8 million hooks monthly, and must meet safety quality, affordable pricing, large quantity with short turnaround time in order to satisfy customers’ requirements, however without sacrifice quality control. The testing laboratory has established in national standards, and a complete system of quality assurance has monitored on raw materials to finished products testing,

which it also received quality certifications from different countries.

The market share from Yoke for its industrial hook equipment currently ranked third next to Crosby from United States, and Gunnebo from Sweden. However, personal safety products such as fall protection belt and its accessories have occupied over 65% in the market and ranked first.

In addition, other than maintain original market layout, it also started to expand horizontally into automobile molding industry as well as oceanic and deep sea drilling off-shore operation industries, which estimated with annual growth above 20%. It aimed to achieve NT\$10 billion revenue, and became the “Hidden Champion” in world’s hook industry.



Taiwan Creative Art and Culture Industry Voiced Out to the World

Taiwan has preserved most complete Chinese culture. It could be an excellent business opportunity by extracting creative ideas from its five-thousand-year history.

The previous career of Franz Chen, the founder of Seagull Decor Co. Ltd., was the OEM, and ODM for oversea gifts. He has been successful in European and United States’ gift markets for a period of long time. Although it has high profit margin, however Chen felt the effort of doing OEM, and ODM were like dead zombies, which he did not felt long-term existence or value in the business. Therefore, he decided to establish his own luxury porcelain brand, “Franz” to market in the world.

A market research must be conducted before market appearance of Franz products. Once luxury gifts market of porcelain has selected, it utilized highest porcelain artisan craftsmanship to produce and reveal the philosophy of Chinese living culture. Franz Chen indicated the philosophy to initiate Franz business is from “kindness”. When its theme has been determined, the business direction will naturally be followed. All innovative design of porcelain utilized up-to-date technology and created “touching people’s heart” artistic connotation.

Franz has the capability to make three-dimensional visual effects for natural plants & animals, and landscape

illustrated on Franz. By applying the sole patented new technique as “re-entrant ejecting”, it will exhibit the mixture of sculpture and relief effect on the porcelain body. When the exquisite warm glaze glowed gently, no one would be able to resist the sense of Chinese conceptive elegance that exhaled from Franz. Consequently, Franz became the wealthy and famous collectors’ artistic items. Therefore, it stood a in a position to compete with other international leading porcelain brands which all have over a hundred-year history.

Creative Art and Culture + Digital Technology, New Industry Value Transformation

Taiwanese creative art and culture business attract the attention from foreigners mainly due to a company called “Bright Ideas Design” which combined creativity, technology, and cultural art to plan digital interaction exhibition for global museum as marketing scheme.

Lin, Fang-Yin, the general manager of Bright Ideas Design majored in art history mentioned that under the lifestyle from instant responses

in mobile devices, and digital interactions, experience economy has been created. Bright Ideas Design has bridged the applications used in digital technology with cultural art.

Bright Ideas Design had been selected by the National Palace Museum as the contractor to digitalized its collections for three years. It also cooperated with Musée du Louvre of France to plan its Egyptian Exhibition. Recently, the proudest work was the “Old Summer Palace (Yuanming Yuan) exhibition: Emperors’ Splendid Dream in Qing Dynasty,” which has been selected by UNESCO as one of the top 5 classic illustrations.

Bright Ideas Design has demonstrated its strong ability in planning digital exhibition. “We started from the core substance in digital creative art and culture, and invited a group of interdisciplinary professionals who understood all technics in interface communication as well as specialized in international trend observation to transform the industry.” Emphasized from Ms. Lin.

To keep winning over competitors, the Franz Collection and Bright Ideas Design strived to create new ideas which has not been found by them. ■





Unmatched Measurement Control Instrument

The 7 decades of development in Taiwan manufacturing industry played an important role in global supply chains. Among them, many precision machinery industries came to be the “Hidden Champions” as well as be the most important partners for global customers.

Manufacturing facilities based in Taiwan, Chroma ATE Inc. is dedicated its R&D for measurement technology. From monitors, power electronics, passive components, electrical safety analyzer, IC semiconductors, to LED lighting, solar power, electric automobiles, green technology batteries, laser diodes industry markets which are all under Chroma’s territory. Many first-tier brands around world are clients of Chroma.

Chroma has 41 production lines, and over 400 product groups contained ICT industrial precision measurement, which is the typical operation model for small-volume production with wide range of differentiated products.

Even customers only ordered one instrument, Chroma would still produce it.” Expressed from Mr. Hunag, Chin-Ming, the president of Chroma. Chroma is in the B2B business. All customers are technology-oriented, particular in measurement software and measurement instruments. Therefore, it is essential to gain their trust. “Now, customers are willing to put purchase orders on new Chroma

instrument when we introduced the new measurement specifications due to trust.” Said by Mr. Huang.

Possess Three Kinds of Technologies in Measurement, Automation and Manufacturing Execution System (MES)

Chroma has been aware the increase of annual labor cost in China. Therefore, it consolidated its specialized measurement technology from the accumulation of abundant experience in various fields from the past including machinery automations, manufacturing execution system (MES), software, and turnkey solution. Mr. Huang indicated that by looking into Asia market, not many measurement instrument manufacturers acquired the technologies of measurement, Automation and MES simultaneously similar with Chroma.

Chroma ATE Inc. had accumulated

nearly 100 innovative core technologies, and acquired 380 patents, which is the most patented company in the industry of precise electronic measurement in Taiwan.

Meanwhile, Chroma also established closer relationships with customers. To become their first-tier partner, Chroma must be observant of its customers’ future developments. It would offer design solutions to their customers before mass productions, thus Chroma would be involved with customers’ R&D, and stand on their shoulder to grow together.

The speed of occupying world market has been rapid. Chroma has 16 branch offices in Europe, United States and Asia along with 58 sales distributors. It has been ranked first world class company to provide solution in power electronics testing, and automated testing systems.

In the precision measurement field, Chroma has a strong shield that defeat bad market with power electronics, monitors, semiconductors, and automated turnkey solution that prospers the business. ■

Machinery Tool Performance superior than Japan

Manufacturing technology, and equipment has been following the trend of high-precision, and automation development. In addition, the rapid increased demands on new generation industry in customization and environmental protection, have made machine tool industry become important and valuable.

In the field of metal processing, Electronic discharge machines (EDM) and wire cut EDM are used. Taiwan’s leading manufacturers Ching Hung Machinery & Electric Industry Co., Ltd., had been continued insisting to pursue innovative R&D for years. With its own brand, CHMER, had marched into the EDM market. The market share ranked first in Taiwan, second in China, and fifth in the world.

Start as a technician and now is the president of CHING HUNG, Wang, Wu-Hsiung has utilized the research result during his leisure time when he was still a technician to develop the first EDM and imitated the path to growth.

The method to develop the technology for high-precision machinery tool is to improve the structural design. The linear motors designed by Ching Hung has outperformed the Japanese, components used in automatic threading system are also less than Swiss and Japanese. “The products and technology that can be developed by foreign countries, Taiwan will certainly can do it, too.” Spoke by Mr. Wang with certainty.

In addition, the high-precision wire cut EDM, Q4025L from Ching Hung have received patents from Taiwan, Japan, and China. It equipped with gantry mobile structure and linear motor drive, which possessed the world’s fastest with most successful rate of near 100% in automatic threading system. In addition, there is no interference or leak that caused by the lower arm went through processing water tank. With smaller, lighter weight, of Q4025L, the accuracy can be reached 2-3µm which reviled its

superior technology is no less than Japan or Swiss.

Climb on the Giant’s head to Reach the Top

The products from Ching Hung are sold to over 55 countries. Its annual export quantity is 15% to 20% higher than similar industry. Through the accumulation of technology R&D, it has made the company a partner with Charmilles in Switzerland, Mitsubishi & Sodick in Japan for ODM & OEM, which resulted increase in product technologies.

Under the trend of manufacturers becoming more service oriented, regardless the type of problems customers countered, or the

location of customers, Ching Hung demand to resolve their problems and restore production in the shortest period possible. This has created a true sustainable business model in “customer satisfaction, employee stipulation, and supporting manufacturers creation.”

Mr. Wang have emphasized that for the past decade, Japanese and Switzerland machine tool manufacturers have limited technological advancement. If Ching Hung continue to absorb talents, and focus on products enhancement while improving quality, it will have better cost control and technical competitive advantages, and aimed at to become the third largest manufacturer of EDM machines in the world. ■



Brightness Enhancement Film (BEF) That Dominate Its Industry

Base on the advantage in exclusive material and manufacturing experiences, UBright Optronics Corp. integrated and internalized all technologies vertically. It domesticated all foreign productions as well as all related raw materials.

The backlight module is used in mobile phones, tablets, notebooks, LCD monitors, and TV which required brightness enhancement film(BEF), or "prism sheet" to enhance the displays.

Even taking off late in BEF field, UBright has patience to devote all investment into its Technology. When all technique has been matured,

UBright insisted on the "non-outsourcing" vertical integration capability to provide instant customization service for foreign and domestic customers. It received purchase orders from major panel companies and became a leader in global BEF industry.

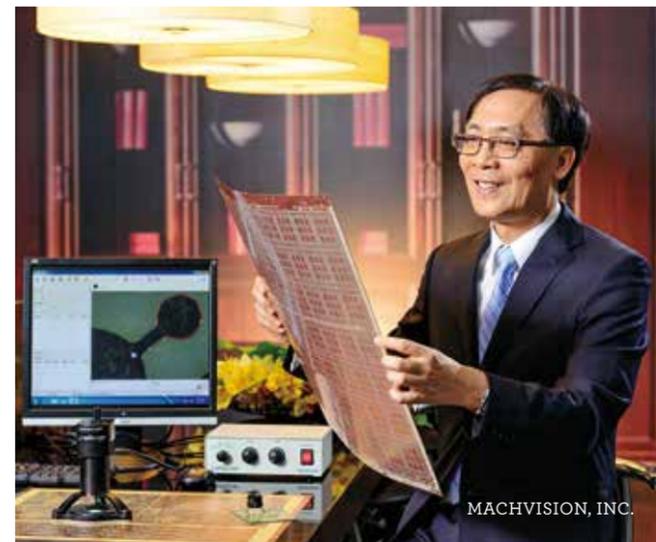
"Taiwan has entered BEF market at early stage, however UBright started rather late." Suggested from the president of UBright, Wu, Tung-Sheng. The difference between UBright and others is emphasizing on technology. The initial establishment of UBright was directly in United States to recruit global talents, formed R&D teams for innovative breakthrough technology, and BEF processing related components including structure design, mold production, related raw material, and all related production process technology.

Mastering Technology, Internalizing R&D

Mr. Wu has emphasized product customization is the future trend for manufacturing industry. Manufacturers needed to master all technologies for to immediate response, and adjustments on customer demands. This the advantage of UBright in the product R&D fields. Moreover, UBright has refined its capability and technology continuously from achieving the optimization of production to increase yield rates on best cutting ability which be able to mass produce better and inexpensive BEF, thus became one of the major competitor in today's niche market.

The global market of optical film has suffered from continued price decrease due to the increased production capacity from Chinese manufactures and its quotation inquires which triggered fierce competition. UBright focused on marketing its technology-intensive products to differentiate from other competitors. It aimed at small to medium sized, BEF for automobiles, multi-function composite materials, and multi-layer BEF attached products for higher profit margin, and investment return ratio. Meanwhile it strengthened investment in R&D which is estimated 4% of total revenue expense in 2016. The R&D ranged from prism sheet BEF to other to related optical film fields and beyond.

Today digital market battle field required strength and endurance. Having vertical integration capability in material, and essential technology along with internalization of R&D, UBright is able to strategize in the niche market with advantage competitiveness. ■



MACHVISION, INC.



PAILUNG MACHINERY MILL CO., LTD.

Specialized Machinery products to Expand Global Market Share

Machvision Inc Co., Ltd. has long been in the automatic optical inspection (AOI) field, and successfully surpassed competitors from Europe, United States, and Japan. Due to the patent-protected optical, software technology, and considerate customer service that is always better than its competitors, it has successfully entered the inspection oligopoly market. With its own brand, Machvision has become important partners with Taiwanese printed circuit board (PCB) manufacturers to expand their business internationally.

Recently, Machvision attempts to engage in semiconductors inspection with hope to break the oligopoly barriers from European and United States' companies. It wished to provide faster delivery time and better service for Taiwanese semiconductor manufactures as well as to be their indispensable partner.

"Although restrained from geographical location, Technology will still dominate the world!" Expressed from the president of Macvision, Mr. Wang, Kuang-Hsia. Machvision always pursue innovation and to be far ahead strategies that

could dwell in blue ocean market. It also pays attention to CSR, to be grateful and seek balanced life between family and work as well as contribute the best to the land of Taiwan.

Customers follow New and Variety

With the 40-year established high-level textile machinery manufacturer, Pailung Machinery Mill Co. Ltd. is one of the top three leaders in hardware and R&D for software in management compared with over hundred-year-history Japanese and German manufacturers.

The quantity and diversity of fabrics produced from textile machinery by Pailung have already outperformed competitors from Japan and German. Even the general manager of Groz-Beckert, a needle manufacturer for textile machinery once said, "Pailung is number one in the industry; no one in the industry will doubt about it!"

Nonetheless, it wasn't easy to maintain first place in the world. During the design process of textile machinery, Pailung needed to neglect the concept of "equipment manufacturers are only

playing supporting roles." Instead, they have to be on the textile mill, apparel manufacturers, and even consumers' stand point to proactively search for the needs from supply chain with the trends for future fabric market, then return back to develop new textile machinery for the new trend wave.

Mr. Wang, Jiang-Chang, the president of Pailung expressed that the company has great strength in machinery R&D, and has more than 600 patents as well as six types of knitting machines (hex color dissolution machine, floating thread plating jersey, fleece jersey, double-sided interlock with precipitation ring, and double-sided fleece computer jacquard knit) are all pioneers in the world.

Pailung dedicated to develop the design and manufacture of core technology in textile machinery. It focused on "catering consumer market direction" which insisted on variety and new ideas. It always thinks one step ahead of customers to develop new fabrics. Thus far, Pailung has become an essential partner with major textile manufacturers for important R&D which cannot do without the use of machines from Pailung. ■

Pursuing Maximum Value Tire Manufacturing

In the bicycle industry, the two largest bicycle assembly manufacturers, Giant and Merida, are using "Kenda" brand tires from Kenda Rubber Industrial Co., Ltd.

Kenda started as a small-scale manufacture of bicycle tires. It concentrated on related products and markets from rubber tire technology. As bicycle and motorcycle tire market became matured enough, Kenda has entered the automobile tire market, and continued progressing to achieve over NT\$30 billion in current annual revenue. With its own brand, Kenda is a professional tire manufacturer and be able to market 150 countries.

Focus the Fundamental on Best Quality, Excellent Service

Kenda's current annual income is equally contributed from bicycles, motorcycles and car tire sales. The president of Kenda Yang, Yin-Ming believed that there would be great demand of automobile tires from China and India. Also, due to high price of the product, it would be great in increasing profit. Therefore, Kenda is aiming towards automobile tire sales as their main strength.

"Kenda has been the top brand in bicycle tires, but not yet in automobile tires. Many competitors have lined up ahead of us with great brands and mass productions. We still have a long way to catch up; we will continue to adhere to current strategies,

expand productions. Eventually, we will catch up." Said from Mr. Yang.

Kenda currently ranked 26th in terms of annual sales. However, profit margin had been performed much better than many other major Chinese tire manufacturers. "They have been grasped highly competitive markets and led to price war with mediocre quality. Some of the top manufacturers have resulted with annual profits that are less than half of ours." pointed out by Mr. Yang. Kenda always focused on brand reputation and profit margin. "We do not bump into each other with fierce completion, we have to walk out a path ourselves." said by Mr. Yang.

In recent years, Kenda has deepened its brand awareness for sports-active

consumers by sponsoring domestic and foreign golfers, professional European cycling teams, NBA, and domestic professional baseball leagues. When these consumers change their tires, they would be specifically choosing Kenda brand.

To make the brand matters, other than utilizing marketing publicity, advertising campaigns, ultimately, it still needed to return to the fundamental of "best quality and service." Kenda has exhibited its stable development, actively enhancing its internal management, and manufacturing excellent quality tires, as well as providing comprehensive customer service to strengthen brand value. ■



Exclusively Control Gallium Arsenide Wafers and Smart Human-Computer Interaction (HCI) Interface Technology

Semiconductor is the brightest star of all Taiwan industries. It is no less than any other international competitors including many OEM technologies have dominated the world.



WIN Semiconductors Corp. is the top global OEM for Gallium Arsenide Wafers.

Mastering R&D Technology, Form Strong Alliances to Achieve Market Triumph

When WIN was established back in 1999, it already foreseen the future development tends in wireless communications. "The transistor in gallium arsenide is six times faster than those in Silicon, which is very suitable for developing wide bandwidth wireless communication." Pointed out by the general manager of WIN, Mr. Wang, Yu-Chi. It was the reason that WIN has selected gallium arsenide instead of silicon wafer semiconductors which was widely known back then.

WIN has been the largest OEM manufacturer of gallium arsenide products since 2010. Its technical qualities have been approved by the partners, and have worked together to be the supply chains for all smartphone brands. It manufactured 3G & 4G wireless communication power amplifier for Wi-Fi routers, and RF front-end device. After all, components from WIN can be found in almost all flag-ship mobile devices.

In the future, 5G will be commercialized in 2020. WIN has partnered with major international customers to jointly

develop 5G products. By forming strong alliances to develop multi-technologies and highly-efficient components, WIN would be able to provide diversified solutions to widen the distance in competition.

Dedicated to Develop Most Advanced Technology

The indispensable technology of 3C products are made to satisfy users who needed Human-Computer Interaction (HCI). The exclusive innovative applications were presented by Taiwanese IC designers from the enhancement of HCI technology.

Elan Microelectronic Corp., which developed the technology of HCI interface, holds the core technology in capacitive touchpad, and CMOS Sensor with Pattern Recognition that utilized in notebook computers, tablets, smart phones, smart cards, and smart appliances.

The president of Elan, Mr. Yeh, Yi-Hao has expressed that Elan has continued to expand its R&D ability. It proactively transformed to be the "specification maker" in the market for its strategic partners including, Google, Micro Soft, and Intel in order to take control of the market ahead.

Due to the application of HCI interface, the level of difficulty to integrate lighting, mechanisms and electronics is extremely high. However, to Pixart

Imaging Inc., the harder the technology to achieve, the better to integrated applications that differentiated from other competitors.

Pixart Imaging Inc. focused on the design of IC for CMOS image sensor chip and its related applications. It currently has the highest market share of sensor chip in optical mouse and mouse for gaming. The president of Pixart, Huang, Sen-Huang had indicated that optical touch is the most difficult technology to develop in Pixart. However, Pixart did manage to develop advanced technology and technique capability for optical sensor touch which could reduce signal interferences. It also has integrated chips, LED, lens technology to become the optical system module.

Pixart used to be the exclusive supplier of sensors for Nintendo Wii remote control. Based on the successfulness of this new application, it has introduced heart rate sensor in wearable devices, and widely praised by international companies.

The newly developed CMOS Sensor application by Pixart has yet far to end. Its related field has ranged from optical mouse, mouse for gaming, gaming device, optical touch products, to 3D hand gesture control, vital signs sensor chip, heart rate sensor, smart phones, and wearable devices. Furthermore, it is currently targeting health measurement market and continued to expand its market share. ■

Implement Global Logistic and Supply Chain System, Stand Firm on Top of Domestic Flexible Printed Circuits Market

Mobile phones and notebook computers have become thinner and lighter, and all the folding joints needed to have flexible printed circuits. With grasping well-known brand like Apple, Career Technology (Mfg.) Co., Ltd. has occupied the top flexible printed circuits manufacturing position.

Concentrate on Consumer Electronics, and Become the Top Domestic Manufacturer of FPC

Since 1990s flexible printed circuits (FPC) industries started to flourish in Taiwan. Due to its advanced technology, many mergers and acquisitions (M&A) have been taken place. The survived manufacturers have more competitive edge internationally, and concentrate on consumer electronics.

Career Technology applies traditional manufacturing method for single-sided flexible printed circuits which is based on hard printed circuit board. The single-sided flexible circuits have a single conductor layer made of either a metal or conductive (metal filled) polymer on a flexible dielectric film. Component termination features are accessible only from one side. Holes may be drilled in the base film to allow component leads to pass through for interconnection, normally by soldering. Then, protective coatings as cover layers or cover coats will be applied.

In addition, Career Technology have aggressively implementing global logistics and supply chain system. After 6 years in business, Career Technology has established manufacturing facilities in Kunshan, Suzhou and Shenzhen, China as well as set up branch offices in United States, Finland, Singapore, Hong Kong, Dongguan, Chengdu and

Xiamen, China to provide customers with versatile and immediate services which allowed Career Technology to expand its market even quicker.

Multiple Certifications & Endorsements, Transformed in Automobile Application

Career Technology has ranked 231st in "Top 1000 Taiwan Manufacturing Enterprises 2012" by Common Wealth Magazine, also ranked 8th in "World Top FPC Makers 2015." It also received quality certificates from ISO 9001, ISO / TS16949, IECQ / QC 080000, SONY Green Partner, UL Safety, ISO 50001, OHSAS 18001 as well as passed "Cleaner Production Assessment System of the Green Factory Label" with ISO 14001 environmental certificate, and became a trust worthy supply chain brand for numerous major manufacturers.

Career Technology has indicated this year is the critical year for transformation. Other than wearable devices, and mobile phone applications, it will transform the industry to high frequency, high speed application for automobiles. In the near future, it should continue to strengthen the automation of production line for challenges ahead.

From mobile devices to automobile application, Career Technology utilized advance technology from flexible printed circuits to widen the distance from other international competitors. ■



Career Technology was established in 1992 and ranked as one of the world's top ten leading manufacturers of flexible printed circuits. It manufactures products for various applications including mobile phones, touch panels, tablet PC, digital cameras, flat panel displays, notebook computers, GPS, auto electronics as well as medical instrument and other market segments.

After merged with the second largest flexible printed circuits manufacturer, Pucka Industrial Co., Ltd., Career has gained its overall market share to 30%. With the large demand from Apple, profit from Career Technology has triumphed in highest record again.

Develop Upstream Brand Recognition, Let Scooter Soaring on the Surface of Earth

"The ultimate mobile craftsmanship, as if it is soaring on the surface of earth, and only can be seen from advance countries in Europe and United States. This body figure came from Taiwan, and its name is Aeon." This was an advertising slogan for Aeon Motor Co., Ltd. endorsed by Jay Chou, a famous pop music and movie star in Taiwan. Other than the promotion of 3-wheel scooter 3D350 have made it became famous in every block and corner on the street, it also opened the door for Aeon brand.

Aeon Industries Co., Ltd. was established in 1998, and by 2003, Aeon Motor Co., Ltd. has established and took over its previous identity. It was a plastic injection molding products manufacturer, and later on started to produce scooter components in early 1980s. The president Mr. Chung, Chieh-Lin foreseen the potential of future market in scooter industry, decided to integrate upstream and developed the brand "Aeon."

Upstream Integration, Brand Development

Viewing back on the startup of Aeon, internal family members are afraid of being the competitors of their customers when Mr. Chung initiated the upstream integration, and held their opinion against such decision. Finally, after won over the support from Mr. Chung's father, he has solely established Aeon, and entered the entire OEM market with full assembly line of scooters.

There are three major parts in a scooter, including engine motor, frame, and body panels. The most complex and difficult for manufacturers to produce is the motor, which mostly are imported during 1990. The frame is the easiest to produce which is a low-level entry product. Since Aeon has history in mold body panel molding technology, it naturally started the OEM in

scooter, also possessed enough competitive advantage.

Mr. Chung has participated his family business since he was still in school. He believed no progress in any industry means being defeated. The injection molding plastic business seemed promising on the surface, however he sensed its development limits and gradually decreased profits. Therefore, started from OEM of scooter to develop upstream brand recognition was the original strategy for Aeon.

Diversified Business, Created More Possibilities

Compare with other OEM manufacturers who wanted to create their own brands, the initiation of Aeon brand was much smoother than others.

When Aeon's business started in 1998, it introduced 125cc engine size scooter to markets in Europe and United States. In 2000, it became the strategic OEM and ODM partner for a major international brand, Polaris while also established the brand "Aeon."

Due to the development of the products to be more heavy-duty, diversified, recreational, and innovational, Aeon has successfully introduced scooters, all-terrain vehicle (ATV), utility vehicle (UTV), motorcycle, and even electric motorcycle. It also received numerous

certifications including ISO 9001 quality management and the QS-9000 standard.

Due to the fate for Jay Chao to endorse Aeon products since 2012, Aeon also formed alliances with Chao's video gaming competition team (J-Team), and sponsored many video gaming events which have led Aeon to unlimited future possibilities. ■



Integrated Bioscience Design (IBD), New Example for Industrial Innovation

Ta Chiang International (TCI) Co., Ltd. has been wisely utilizing the power of R&D. It is not only a supporting ODM for numerous international companies, also satisfying customers' needs by integrated bioscience design concepts and developed green economy. It has let the affection from Mittelstand to reciprocate the local community.



There are varieties of functional health products & supplements such as whitening, weight loss, stomach and bowel improvements, immune system increasing, etc... on the shelves when walked into an ordinary drug store. Consumers would not know that most of these pills, capsules, liquids, health, and powder drinks are all came from TCI.

TCI has been received 1 gold and 3 silver Award from Concours Lépine in France, 2 gold, 2 silver, and specialty Award from International Exhibition of Inventions Geneva. TCI continued to be the top 25% in exporting functional drink, and with its excellent R&D capability, it transformed agriculture bio-waste to biotechnology products which has become a perfect example for agriculture companies.

Advanced Technology Changed Consumer Lives

TCI is the best OEM company for major brands between Taiwan Strait. Even the global acclaimed cosmetic retail channel under the French group, LVMH, authorized TCI to design and manufacture its brand in facial mask for its R&D strength.

The reason behind TCI to stand on the top of the fierce competitive cosmetic market was mainly due to its innovative and R&D strength. Other than the usual laboratory and product showrooms, TCI also has factories in Wugu District, New Taipei City, Agricultural Biotechnology Park in Pingtung County, and Shanghai, China. It is capable of providing services from product R&D to manufacture in a streamed process for customers, and the sales network spread across the globe. This year will be focused on exploring United States, India, and ASEAN markets.

In recent years, TCI has been aggressively promoting Integrated Bioscience Design (IBD) as innovative business model. It focused major works on ingredients enhancements, patent applications, product effectiveness testing. "We utilized IBD as fundamental technique for product development, and combining chemistry, biology, mathematics, genetics, art, ergonomics, and consumer behavior, to research consumers' needs. By combining advance technology and our findings, we will come up with highly effective products that could change consumer's life." Quoted by

the president of TCI, MR. Lin, Yung-Hsiang.

Potential Biotechnology to Increase Competitiveness

In reality, other than spreading Taiwan's biotechnology R&D ability to overseas markets, TCI also has made major contribution in domestic ecology.

Mr. Lin indicated that many contributions included extract concentrate serotonin from banana skin, also extract Synephrine from tangerine and jujube as well as cultivating red vermicelli collagen with native Taiwanese which all hoped to solve the problem with agriculture waste, land pollution, and bring stable income for the native people.

TCI started with a major biotechnology company, and gradually affected agriculture operatives to joint agricultural recycling economy, smart production, thus increased overall competitiveness from better innovative changes. ■

Managing Creativity, Create Product Design Kingdom

How to manage the creativity in a human's right brain? The founder of Nova Design Co., Ltd., Chen, Wen-Lung who is also known as "First designer as boss," adopted "management and creative integration system," to train his designers revealing their inner talents, and let colleagues from different country and other markets could engage immediate effective communications.

In 2017, Nova has designed a theme called "Crossover" for scooter model "Crusym300" from Sanyang Motor Co., Ltd. It received bronze award by Istituto Europeo di Design in other categories, which the appearance design has blinded with modern metropolitan fashion and leisure style. Its design has matched modern riders with multiple gadgets and welcomed warmly by market.

Lead as an Example, Let Designer to Be More Practical

Nova Design was established in 1988, and started out as a working studio. Now, it has operation across the globe with Five offices in Asia (Taipei, Shanghai, HoChihMinh City), Europe (Sondrio) and North America (San Jose). With more than 230 employees, it is the largest independent design consulting firm in the greater China region.

Mr. Chen, whose expertise is design management and transportation design, has a famous motto: "Good results are coming from repeat over and over for 3 times!" To be closer to the designers and molding staffs, Mr. Chen has worn the same working uniform as them when the Nova established in the beginning.

Due to the self-oriented attitude and design, Nova is one of the few designing company who requested designers to punch their time cards.

Create New Idea Through Multiple Job Rotations, Effective Integrated System

To effectively manage great designers' heads, a suitable stage must be provided according to the designers' expertise. Nova has provided multiple job rotations for all designers within their locations. It could allow the designers to leave their current location when an obstacle occurred, and for them to see different market, and meet different people. This could also reduce the turnover rate within the company.

In addition, Mr. Chen is also an expert to increase value in vertical "knowledgeable technique" and horizontal "resource" integrations. He expressed that when a project required 5 designers, while there are 100

projects at hand, and the manpower are exactly needed for such multiple ratio, it simply means the horizontal and vertical integrations hasn't been completed yet

The Integration methodology for Nova is to computerized, and be internet ready on all technical functions. It is also the essential step for Nova to expend its territory internationally. This method will let Nova achieve 1 plus 1 is greater than 2 result between all locations. Through "management and creative integration system," it has trained designers revealing their inner talents, and let colleagues from different country and other markets to utilize it as well. It even allowed new colleagues who freshly jointed new projects would sync with everyone as well as knew all projects' responsible designers, and engaged in immediate communication. ■



Keep Intensifying the Verification Service, Open New Market Phase

Providing services to high-tech information and communication industries, cooperating with international mobile phone companies are the duties for the world's top private electronic product testing company. After years of dedication, Sporton International Inc. has become a designated testing facility which has been providing independent, detached, and impartial testing. With solid credibility in the industry, Sporton remained as leading position with highest service and technology standards. After the market from China and India flourished, Sporton has established its strong presents in the field of consumer electronic testing.

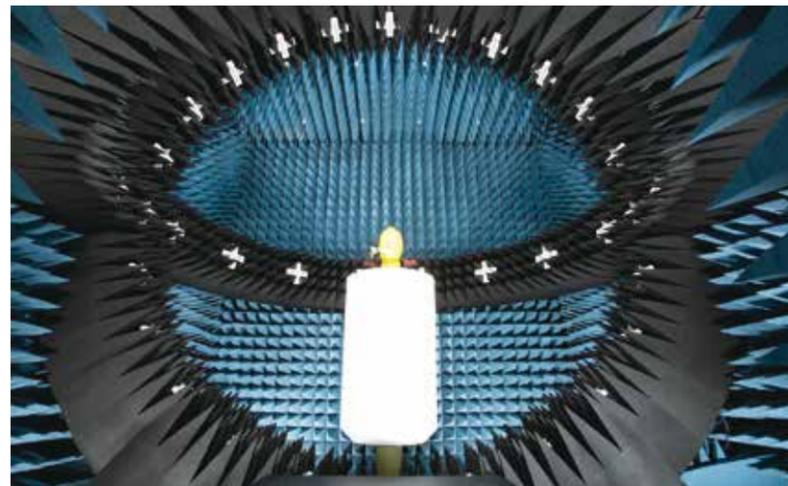
According to United States FCC (Federal Communications Commission), Sporton has successfully topped the market share of smartphone and wireless network testing and certification, which proves its supreme technical skill and testing ability.

Sporton has succeeded in the process of converting from the 3G to the 4G single and thus secured its pace as the leading testing lab, it is also the sole testing lab to provide the service complying all the regulations of the global telecommunications to manufacturers in China. It gains more competitiveness while the largest near field communications (NFC)-enabled smartphone systems like Apple Pay, Samsung Pay, Android Pay are grabbing the market share.

Standing Firm on China & Korea Market

In 2016, Mr. Huang, Wen-Liang, the President of Sporton, pinpointed that smart phones and wireless telecommunications will remain in the future market as mainstream products. In 2017, all the NFC-enabled smartphone systems are competing for the market share and desperately needed a testing service. With Apply Pay, Samsung Pay, and Android Pay as the top three mainstream, they have definitely secure the leading position for Sporton.

In addition, other than Sporton opened up the first (electromagnetic interference) EMI test site more than 30 years ago, it also became the pioneer private laboratory in electromagnetic wave suppression



electronics. To be in full compliance with the European CE requirements, Sporton heavily invested to build an EMC (EMI and EMS) open area test site in Linkou, Taipei County in 1995. Moreover, it also established mobile device test sites in Kyunggi-do, Korea, as well as in Kunshan Economic & Technical Development Zone, JiangSu, China, for over 10 years.

In the near 2 years, Sporton has gained up to 70 percent revenues in the Korean market and 20 percent in China. Specifically, it is the only testing lab that provided the service complying all the regulations of the global telecommunications to manufacturers in China. Meanwhile, it has eagerly expanded its market in the United States and hence consolidates its position as the best testing lab.

Helping in Made-in-America and Expanding to Southeast Asia

As President Trump launched "Made-

in-America" campaign, Sporton has speed up the process of constructing the new testing labs in America, and provide better services for its customers in the territory. Since the smart phones and wireless telecommunications remain the mainstream products, it will expand its branches to India, Indonesia and other Southeast Asian markets.

Due to the current three major mobile pay system, which are using NFC sensor for transactions, Sporton has become a designated testing lab for regulatory bodies such as FCC, and TAF. It has the ability to provide all three complete services included technology, equipment, professional certification with promised future.

While standing firm in the transition from 3G to 4G, Sporton has closed the gap between people through EMI testing. It is not only a "Hidden Champion" by going into the mobile pay markets, but also the best strategic business partner for major international companies to have. ■

Combining AR Experience to Create Interactive English Learning Environment

It's a fact that learning English online has gone viral, but to achieve the goal of "learning without pain and stress," the golden way is to import IT technology and multimedia, even the innovative use of high-end technology like AR, interactive teaching, or even learning language by playing games.

Guided by the Ministry of Economic Affairs Bureau and conducted by the Taichung City Government in 2017, "4G English tourism projects" has not only built Taichung the world's first English Sightseeing city but also has extended the successful experience to other 60 well-known tourist attractions in Miaoli, Nantou, and Changhua. Till now, there are up to one hundred thousand passengers have experienced the new programs.

The main reason for "4G English tourism projects" to succeed is that LiveABC has cooperated with Taichung City Government to introduce the "English Learning by Traveling in Taichung" App, in which are thematic and game style teaching at every well-known attraction in Taichung. Tourists may complete the tasks based on instruction from the App, and unlock to earn gold coins. This App is also equipped with AR technology and GPS positioning, just like catching the Pokémon in Pokémon GO which are both with fun and technology.

Use the Cutting-Edge Technology to Build a Pain-Free Learning Environment

As the only digital publisher of Taiwan Mittelstand, Hebron Soft Limited (LiveABC) Group has hold the belief that "Learning is Very Easy with LiveABC." With this belief, LiveABC has successfully expanded its business into China, Hong Kong, Macau, Korea, Thailand, and Malaysia. Moreover, it has also won international awards from

foreign markets and governments. LiveABC won "Bronze Award" at the Horizontal Interactive Awards, USA; LiveABC received "E-Learning Excellent Corporation Award" from Korea Education Ministry.

Other than combining the most advanced IT technology with supreme multi-media team it even partnered with well-experienced teaching and editing staff. The well-developed products have been a true pain-free learning Program.

Foster Interdisciplinary Talents to Build Smart Teaching Program

These years, LiveABC has started the first ever "Smart Classroom Teaching Program" and launched a built-in IRS chip (Interactive Response System) to match with Live Pen the smart pen and to introduce the first Live Interactive English teaching system. Their latest plan "Solution to Children's English

Smart Classroom" also won awards and certification from the Bureau of Ministry of Economy Industry.

As a matter of fact, other than professional teaching development groups from LiveABC, it takes professional teaching staff, native-speaking English teachers, Children's teaching programmers, software-engineers and 3-D Animation staff which are over hundred people involved with the development, and to make all the great plans come true.

Nowadays, LiveABC has already developed numbers of cross-platform websites and APPs for English-learners and Chinese-learners. With professional technology, LiveABC aims at the ASEAN markets and has digitalized Vietnamese English textbooks into a cross-platform e-book model and helped training their local teachers. In the near future, Live ABC will enter the ASEAN markets and enterprises, becoming their most important strategic partner. ■





Mittelstand Performance

Architecture and Engineering Activities and Related Technical Consultancy

Name of Enterprise	Website	Major Products/ Services
E&C Engineering Corporation	http://www.eandc.com.tw	<ol style="list-style-type: none"> 1. Service Area: Nuclear Power & Thermal Power Engineering, Solar Energy Power Engineering, High-tech & High-building Electrical/ Mechanical Engineering, High-speed Rail & MRT Public Constructions, Biotech Pharmaceutical Plant Construction 2. Service Items: Planning Research & Project Management, Engineering Design, Procurement Service, Construction Service, Design, Procurement, Turnkey Basis Construction Service

Computer programming, consultancy and related activities

Name of Enterprise	Website	Major Products/ Services
Advanced Control & Systems, Inc.	http://www.acs.com.tw	CTCI ASI provides smart solutions to enhance Industry Performance. Expertise in Industrial Automation, Intelligence Manufacturing, E&M system, IoT solution and System Integration service
Ares International Corp	http://www.ares.com.tw	Provider of ERP, HR, MES, finance, information security, and other software, as well as consultancy services
Bright Ideas Design Co., Ltd.	http://www.brightideas.com.tw	Museum Service, Research & Development of Digital Content & Brand Integrated Marketing
Brogent Technologies Inc.	http://www.brogent.com	3D dynamic simulation technology for gaming. Theme parks, large-scale amusement parks, and leisure venues. Theater design, planning and construction
Chain Sea Information Integration Co.,Ltd.	http://www.chainsea.com.tw	Largest domestic system integration company. Focus on strategic management planning, and provide total CRM solution, CTI system design, CRM R&D, BPO enterprise process maintenance, consulting and training services
CoreTech System Co., Ltd.	http://www.moldex3d.com	Moldex3D is the leading provider of plastic injection molding simulation solutions for optimizing product designs and manufacturability
CyberLink Corp.	http://tw.cyberlink.com	<ol style="list-style-type: none"> 1. Digital Audio & Video Series (including Power DVD, PowerCinema, SoftDMA etc.) 2. Media Editor Series (including Direct Suite, PowerDirector etc.) 3. Device Application (including Power DVD Mobile, Power DVD Remote, Power Director Mobile & You Can Mobile etc.)
Flowring Technology Corporation	http://www.flowring.com	Enterprise workflow management platform, document management system, intelligent website portal, IoTs development & platform management, enterprise portal APP development, social network & B2B management platform, digital advertorial content management platform
Galaxy Software Services Corporation	http://www.gss.com.tw	Knowledge Management System and Cloud Services for SME
HGiga Inc.	http://tw.hgiga.com	OAKclouds Portal: Single Sign On and Collaborative Platform, OAKclouds iCa: Enterprise Communication Platform, MailSherlock: Mail Archive and Audit
Hyweb Technology Co., Ltd	https://www.hyweb.com.tw	Knowledge & Content Management, Solutions & Information Services Related to E-commerce & Consumer Finance
Information Technology Total Services Corp.	http://www.its.com.tw	ITTS was invested by TECO Group and established in 1999, specialized in ITO (Information Technology Outsourcing) services, BPO (Business Process Outsourcing) services and Internet of Things applications
LEO SYSTEM, INC.	http://www.leosys.com	Leo System is the reseller officially authorized by Google AdWords. We are the expert of providing the global, domestic and government internet IMC service. As a professional internet marketing service provider and consultant
Microprogram Information Co.,Ltd.	http://www.program.com.tw	Microprogram is a master in IoT core technology, smart terminal sensing and identification, cloud monitoring service platform to big data analysis etc.; in which YouBike is the most well-known and the paradigm of public rental bike
Over-Paradigm Technology Inc.	http://www.o-pa.com.tw	Digital content service provider include educational material and multimedia e-book. Exclusive agency service, sales, and content development. Digital content applications, migration, and consulting services

QNAP SYSTEMS,INC	https://www.qnap.com	QNAP NAS provide forth quality products that effectively improve business efficiency on storage management in business environment, as well as enrich home user with series fun multimedia experiences
Soft-World International Corp.	http://www.soft-world.com	Research, Fabrication, Development, Production & Trading of Computer Game Software, Agent & Trading of Domestic & Foreign Computer Game Software, Computer Game Culture Magazine, Raiders, Editing of Books, Publishing & Advertising, Research/Development, Agent, Distribution & Publishing of Online Game & Development & Sales of Peripheral Articles
SYSCOM COMPUTER ENGINEERING CO.	http://www.syscom.com.tw	Pracla HPC Service-Hosted Private Cloud Service for Enterprise, DBMaker, Dr. Rounds-Dr. Rounds-A Mobile Solution for Doctors Rounds, GreenMaster-Building Electricity Management System and Cloud System Integration Service
System Corporation	http://tw.system.com	Financial Services, System Integration Services, Outsourcing Services, Commercial Software Sales, Knowledge Product Sales & IT Training
Unicom System Eng. Corp.	http://www.unicom.com.tw	Software leading company of computer integrated manufacturing (CIM) area in Taiwan, provides MES manufacturing Execution system, automation integrated system of production storage/transport equipment, embedded controller products
VTC Electronics Corp.	http://www.vtc-tw.com.tw	SEC ³ URE Healthcare Technology Platform
Wistron Information Technology & Services Corp.	http://www.wistronits.com/	Information Outsourcing Services, Technical Consultant Services, Business Flow Outsourcing Services & Product Globalization Services
X-LEGEND ENTERTAINMENT CO., LTD.	http://www.x-legend.com.tw	Game Points Sales & Authorization for Overseas Agent of Game Products
XPEC Entertainment INC.	http://www.xpec.com.tw	Development of Video Game, Development of Online Game, Game Art Services

Digital Publishing

Name of Enterprise	Website	Major Products/ Services
HEBRON SOFT LIMITED	http://www.liveabc.com	1. Digital Publishing - Magazines 2. Digital Publishing - Books, School Textbooks 3. Digital Learning System 4. Live Interactive English Teaching System 5. International Cooperation

Food Service Activities

Name of Enterprise	Website	Major Products/ Services
Comestibles Master Co., Ltd.	http://www.85cafe.com	Manufacturing & Sales of Foods for Coffee, Cakes, Baking (with Souvenir), Drinks
Renjie Oldsichuan Catering Management Consultant Co. Ltd.	http://www.oldsichuan.com.tw	Spicy hot pot chain restaurant
WOWPRIME CORP.	https://www.wowprime.com	Wowprime Corporation established in 1993. We dedicated on Restaurant Services, and provided Western Steak, Japanese Style Cuisine, Chinese Cuisine, Original Grilled, Hokkaido Kelp Hotpot, Teppanyaki, Japanese Pork Chop, Hot pot, Italian Veggie Cuisine

Ground Transportation

Name of Enterprise	Website	Major Products/ Services
Parkinsys Technology Corporation	http://www.parkinsys.com.tw	Parking fee & token control equipment sales. Parking management & professional development
RD&D COLD LOGISTICS CO., LTD.	http://www.roundday.com.tw	We are a professional logistics service provider including cold storage facilities, operating 6 multi-temperature warehouses providing storage, delivery, distribution as well as products processing services for bonded and non-bonded cargoes with different temperature requirements

Manufacture of Apparel

Name of Enterprise	Website	Major Products/ Services
DA.AI Technology Co., Ltd.	http://www.daaif.com	DA.AI eco Re-PET products include Compassion Technology Series, the traditional Heritage Series, leisure Cultivation Series, and Eco Lifestyle Series
KWONG LUNG ENTERPRISE CO., LTD.	http://www.klf-group.com	1. Down Raw Materials 2. Home Textiles 3. Manufacturing of Multi-functional Outdoor Apparel 4. Self-Owned Brand Home Textiles & Garment Sales
MAKALOT INDUSTRIAL CO., LTD.	http://www.makalot.com.tw	Fashion Products of Shirts, Kids Wear, Baby Wear (Fire-proof Function), Pajamas, Skirts, Dresses, Long/Short Pants, Jackets, Sports Suits, etc.
SUN OWN INDUSTRIAL CO., LTD.	http://www.atunas.com.tw	Design & Marketing of Outdoor Recreational Function Brand Products (Mountain Climbing, Biking, Tourism), Brand Marketing Channels (Direct, Joining, Department Stores), Design, Production & Marketing of High-functional Foam Sponge Products (Indoor Sports equipment, Swimming Aid Boards, etc.) & Hotel Business

Manufacture of Artificial Fibers

Name of Enterprise	Website	Major Products/ Services
Asiatic Fiber Corporation	http://www.asiatic.com.tw	1. Dust-free products and related accessories. 2. High-Performance textile manufacturing, sales & service. 3. ESD production products 4. Sophisticated testing instruments technical service
ZIG SHENG INDUSTRIAL CO.,LTD.	http://www.zigsheng.com	1. Spinning, Weaving, Dyeing, Printing, Processing, Sales, Export, Tender & Agency Business of All Kinds of Fiber Yarn, Artificial Cotton Yarn & Nylon Yarn 2. Production, Sales & Import/Export Business of Petrochemical Industry Fiber Raw Materials 3. Modified Processing of Engineering Plastic Compound, Filling Reinforcement, Toughening, Flame Retardant Nylon Materials

Manufacture of Bare Printed Circuit Boards

Name of Enterprise	Website	Major Products/ Services
Career Technology (Mfg.) Co., Ltd.	http://www.careergroups.com	Flexible Printed Circuit (FPC)
SHIN PUU TECHNOLOGY CO., LTD.	http://www.superpcb.com.tw	PCB,PCBA, Parts / Components & EMS, High Mix Low / Medium Volume In House Manufacture Turn-Key Service, ISO-9001 & TS-16949 Certified

Manufacture of Basic Iron and Steel

Name of Enterprise	Website	Major Products/ Services
Gloria Material Technology Corp.	http://www.gmtc.com.tw	Provide Specialty Alloy used in Aerospace, Energy, Oil & Gas, and other industrial application, incl. Super Alloy, Tool Steel, Stainless Steel, and ESR/VAR Material, etc.

Manufacture of Bicycles and Parts

Name of Enterprise	Website	Major Products/ Services
ALEX GLOBAL TECHNOLOGY INC.	http://www.alexirms-wheels.com	Performance bicycle rims and wheels, precision forged aluminum automotive wheels
A-PRO TECH CO., LTD.	http://www.apro-tek.com/index.php	Bicycle Frame, Shock Absorber, Front Fork, Adjustable Seat Rod, Rim, Folding Bicycle
GIANT MFG. CO., LTD.	http://www.giantcyclingworld.com/inc/	Bicycles, Electric Bicycles, Folding Bicycles & Related Peripheral Commodity & Derivative Services
KMC Chain Industrial Co., Ltd.	http://www.kmcchain.com	Manufacturing of Bicycle Chains

MARWI TAIWAN INDUSTRIAL CO., LTD.	http://www.marwi.com.tw	Bicycle Pedals, Bicycle Seat Cushions, Bicycles Titanium Alloy Spokes, Bicycle Parts OEM/ODM. Lamp Lights, Dynamo-powered Lamps, Brake Pads, Chain & Bicycle Yards
MERIDA INDUSTRY CO., LTD.	http://www.merida.tw	Bicycles
Pacific Cycles, Inc.	http://www.pacific-cycles.com	folding bike, adaptive cycle, pedelec

Manufacture of Chemical Material

Name of Enterprise	Website	Major Products/ Services
Chang Chun Plastics Co., Ltd.	http://www.ccp.com.tw	Bisphenol A, Carboic Acid, Acetone, Epoxy Resin (Liquid), Insulating Paper (IPA), Pure Resin, PBT Compound, Epoxy Resin, Methanol, THF, Epoxy Resin Copper Foil Laminated Board, Bakelite Powder, Epoxy Resin Molding Materials, Fumeolin, Phenolic Resin, Trioxane, etc.
Coating P. Materials Co., Ltd.	http://www.coating.com.tw	Thermoplastic Polyurethane, Polyurethane Resin, Polyester Polyol
Eternal Materials Co., Ltd.	http://www.eternal-group.com	Synthetic Resins for Coatings, General Purpose Resins, Unsaturated Polyester Resins, Acrylic Monomers & Acrylic Oligomers, Specialty Coatings, Silicone Resins, Epoxy Molding Compound, Silicone Encapsulant Materials, Copper Clad Laminates, Photoresist Materials
GIGA SOLAR MATERIALS CORP.	http://www.gigasolar.com.tw	Solar Energy Conductive Paste
LCY CHEMICAL CORP.	http://www.lcygroup.com/lcy/tc	1. Polypropylene Series 2. Thermal plastic Rubber, Solvent -related Products 3. Methanol 4. Trading & Others
Shiny Chemical Industrial Co., Ltd.	http://www.shinychem.com.tw	Applications: coating, printing ink, cleaner, and electronic grad high purity solvent
SWANCOR IND. CO., LTD.	http://www.swancor.com	Swancor provides Epoxy Vinyl Ester Resins for environmental protection, anti-corrosion engineering and high performance composites and Epoxy Resin Systems and Adhesive for wind rotor blade to over 30 countries

Manufacture of Coatings, Dyes and Pigments

Name of Enterprise	Website	Major Products/ Services
EVERLIGHT CHEMICAL INDUSTRIAL CORPORATION	http://www.ecic.com.tw	Dye, Pigment, and Special Chemical Compound

Manufacture of Communication Equipment

Name of Enterprise	Website	Major Products/ Services
Arcadyan Technology Corporation.	http://www.arcadyan.com	Integration of Intelligent Type Network Terminal Equipment (Broadband, Multimedia, Wireless)
DrayTek Corp.	http://www.draytek.com	Routers (xDSL, Broadband, ISDN), Network Switches, Gateways
PLANET Technology Corporation	http://www.planet.com.tw	Industrial/Enterprise/SMB networking and communication solutions : Industrial Ethernet, LAN Swithes, Power over Ethernet, Fiber-optic networks, Wireless LAN, IP Surveillance, VoIP, Broadband Communication, Home Automation
Senao Networks, Inc.	http://www.senao.com	Long Range Cordless Phone for Enterprises, Network Security Server for Enterprise Grade, Network Interlaced Wireless Network System & Commodity for Wireless Network Client
Sercomm Corporation	http://www.sercomm.com	1. Broadband Gateways 2. SMB Commercial Network Equipment 3. Smart Home Control Equipment 4. Fiber Optical Grade Network Equipment 5. Small Cell Base Station

Manufacture of Computers and Peripheral Equipment

Name of Enterprise	Website	Major Products/ Services
Arbor Technology Corp	http://www.arbor-technology.com	A total solution related to Internet-of-Things and intelligent applications
ASRock Inc.	http://www.asrock.com.tw	Professional Computer Motherboards & Mini-computer Manufacturer
ATEN INTERNATIONAL CO., LTD.	http://www.aten.com	ATEN offering integrated KVM switch, Professional Audiovisual, and Intelligent Power solutions. ATEN products connect, manage, and optimize electronics in companies, governments, industrial manufacturing, academic education and retail environments
FLYTECH TECHNOLOGY CO., LTD.	http://www.flytech.com.tw	Point of Service machine system, Payment Terminal Solutions, Mobile POS, Panel PC
Getac Technology Corporation	http://tw.getac.com	As one of the leading rugged computer providers, Getac offers the most extensive rugged computing product lines and serves a wide range of vertical markets
NEXCOM International Co., Ltd.	http://www.nexcom.com.tw	IoT Automation Solutions, Intelligent Digital Security, Internet of Things, Intelligent Platform & Services, Mobile Computing Solutions, and Network and Communication Solutions with solutions for IoT, robot, connected cars, Industry 4.0, and industrial security
SOLTEAM ELECTRONICS CO., LTD.	http://www.solteam.com.tw	Switch, plug socket, frequency conversion controller module, optical module which are widely applied to power tool products, home appliances, information technology and consumer electronics
VIVOTEK Inc.	http://www.vivotek.com	VIVOTEK provides IP surveillance total solutions, including network cameras, video servers, video receivers, network video recorders, and video management software

Manufacture of Cutlery, Metal Hand tools and Die

Name of Enterprise	Website	Major Products/ Services
K&W TOOLS CO., LTD.	http://www.kwtools.com.tw	Bi-metal Hole Saws, Bi-metal Hack Saw Blades, Pruning Saws, Wood working Saws
KING TONY TOOLS CO., LTD.	http://www.kingtony.com	1. Hand tools - socket, accessories, wrenches, screwdriver, allen wrench, pliers 2. Impact tools - sockets, accessories, impact wrenches, cordless impact wrenches 3. Automotive tools 4. Plumbing tools
Proxene Tools Co., Ltd.	http://www.proxene.com.tw	Adjustable Wrench
William tools Co., Ltd	http://www.wtools.com.tw	Ratchet wrench, torque wrench, OLY torque wrench, ODM and OEM

Manufacture of Domestic Appliances

Name of Enterprise	Website	Major Products/ Services
Taiwan Sakura Corporation.	http://www.sakura.com.tw	Water Heaters, Kitchen Electrical Appliances, Systematic Kitchen Utensils
YEN SUN TECHNOLOGY CORP.	http://www.ystech.com.tw	1. Home Appliance Division: Water Dispensers, Electric Boilers, Fans, Blenders etc. Sunpentown: Induction Stove, Rice Cookers, Dehumidifiers etc. ODM/OEM: Air Cleaners, Dehumidifiers, Fans etc. 2. Electronics Cooling Division: Information Electronics, Network Communication, Automobile Electronic Cooling Fans

Manufacture of General-purpose Machinery

Name of Enterprise	Website	Major Products/ Services
AWIN DIAMOND TECHNOLOGY CORP.	http://www.awindiamond.com	Heat spreaders of diamond, AlN, and Al ₂ O ₃ , Diamond cutting wheels for TFT-LCD, Diamond scribes, Eye surgical blades, Anvils, IR optics, Etalon, BDD Electrode, Wastewater treatment, Diamond powder

CHING CHAN OPTICAL TECHNOLOGY CO., LTD.	http://www.ccm3s.com	Ching Chan Optical Technology, your best business partner, founded in 1992, manufacturing optical sorting machines, high performance formers, Process monitoring system. Sales to Germany, Japan, USA, China, Taiwan, India, East South Asia
HABOR PRECISE INDUSTRIES CO., LTD	http://www.habor.com	High Accuracy Temperature Control Coolers Specified for Industrial Machinery
Hanbell Precise Machinery Co. Ltd.	http://www.hanbell.com	Professional Manufacturing of Refrigerant Compressors, Dry Vacuum Pumps & Centrifugal Compressors
HIWIN MIKROSYSTEM CORP.	http://www.hiwinmikro.com.tw	Servo motor, torque motor, linear motor, linear motor platform
HIWIN TECHNOLOGIES CORP.	http://www.hiwin.tw	Ball screw, Guideway, Industrial Robot, Medical Equipment
KINIK COMPANY	http://www.kinik.com.tw	New Generation Disk "Pyradia"
Martas Precision Slide Co., Ltd.	http://www.martas-online.com	Research/Development, Manufacturing & Sales of Precision Ball Bearing Slides
Nan Juen International Co., Ltd.	http://www.repongrou.com	Repon develops and manufactures namely ball bearing slides and peripheral products for various industries such as office furniture, tool box, ATM, kitchen, residential woodworking, appliance and server racks
NEEDLE ROLLER BEARING CO.,LTD	http://www.nrb.com.tw	Specializing in production of high quality needle bearings, cage and needle assembly for the combustion engines, transmission and gear-boxes application
Precision Motion Industries, INC.	http://www.pmi-amt.com	Ball Screws, Linear Slide Rails, Linear Modules & Linear Motor
SHA YANG YE Industrial CO.,LTD.	http://robot.shayangye.com	Micro Geared Motor, Gearboxes for Power Tools, Digital Servo, Linear Actuator, Encoder, and Controller
Tung Pei industrial Co., Ltd.	http://www.tpi.tw	Deep Groove Ball Bearings, Precision Angular Contact Ball Bearings, Needle Roller Bearings, Steel Balls, Retainers

Manufacture of Glass and Its Related Product

Name of Enterprise	Website	Major Products/ Services
LIULIGONGFANG & CO.	http://www.liuli.com.tw	Art glass manufacturing, pendants & accessories, furniture, lifestyle & decorative. Art glass process and culture education

Manufacture of Grinding valley, milling and starch products

Name of Enterprise	Website	Major Products/ Services
HONG MING ENTERPRISE CO., LTD.	http://hmflour.com.tw/	All purpose flour used in Bread,French Baguette, Sweet bun, Japanese Udon, Pineapple cake, Cookies, Confectionary, and Noodle

Manufacture of Leather, Fur and Related Products

Name of Enterprise	Website	Major Products/ Services
Eminent Luggage Corporation	https://tw.eminent.com	Luggage & Handbags (Finished Products)
Feng Tay Enterprises Co., LTD.	http://www.fengtay.com	Sports Shoes, Casual shoes etc., Air Bags, Golf Balls, Football etc.
TEHCHANG LEATHER PRODUCTS CO.,LTD.	http://www.cthw.com.tw	Domestic & Export Sales for Various Types of Leather, Leather Goods & Footwear

Manufacture of Measurement, Navigation, and Control Equipment, Watches and Clocks

Name of Enterprise	Website	Major Products/ Services
Chroma ATE Inc.	http://www.chroma.com.tw	Test and Measurement Instrumentation, Automated Test Systems, Intelligent Manufacturing Systems and Turnkey Test and Automation Solutions

Manufacture of Medical Instruments and Supplies

Name of Enterprise	Website	Major Products/ Services
Apex Biotechnology Corp.	http://www.apexbio.com.tw	Glucose monitoring & POCT system
APEX MEDICAL CORP.	http://www.apexmedicalcorp.com	Air Mattress for Preventing Bedsore, Continuous Positive Airway Pressure for Treatment of Sleep Apnea, Electronic Products for Medical Treatment & Welfare Appliances
BioLASCO Taiwan Co., Ltd.	http://www.biolasco.com.tw	BioLASCO provides the international standard animals, professional consultant services, staffing, facility design and contracted drug development services
BIONIME CORPORATION	http://www.bionime.com.tw	Biochemical Test Strips, Blood Sensing Test Instrument, Blood Glucose Monitoring System, Blood Glucose Test Strips, Lancing Device, Research/Development & Manufacturing of Precision Instruments, Biological & Chemical technical Services
BIOTEQUE CORPORATION	http://www.bioteq.com.tw	Medical Supplies Products of Blood Tubing Set, Medical Soft Bags, Puncture Needle, TPU Catheter & Peripheral Percutaneous Transluminal Angioplasty (PTA) Catheter etc.
DEANTRONICS LTD.	http://www.newdean.com.tw	Electro-coagulation Medical Equipment (Electrosurgical Unit, Surgical Equipment, Electrosurgical Machine etc.), Laparoscopic Surgery Medical Equipment, Other Medical Equipment (Medical Wire Processing, Medical Plastic Injection Parts), Orthopedic Medical Supplies, First Aid Supplies
GaleMed Corporation.	http://www.galemed.com	Respiratory Therapy Products/Medical Electronic Products/CPR First Aid Products
INTAI Technology Corp.	http://ir.intai.com.tw	Precision Metal Parts, Precision Fasteners & Microwave Switch for Medical Appliances, Development & Design of Automated Production Equipment
Mediland Enterprise Corporation	http://www.mediland.com.tw	Surgical Lights for Medical Application, Operating Table for Medical Application & Application Accessories, Unified Integration System of Operating Room & Pendant System
Onyx Healthcare Inc.	http://www.onyx-healthcare.com	Onyx Healthcare Inc. is a professional Medical IT company. Our commitment to our customers is to provide reliable and high quality Medical PC solutions

Manufacture of Metalworking Machinery

Name of Enterprise	Website	Major Products/ Services
ACCUTEX TECHNOLOGIES CO., LTD.	http://www.accutex.com.tw	The Best Solution of Wire EDM & Chiller
CHING HUNG MACHINERY & ELECTRIC INDUSTRIAL CO., LTD	http://www.chmer.com	Wire Cut Machine & Electric Discharge Machine (EDM)
Deta International Co., Ltd	http://www.deta.com.tw	The designer and manufacturer of Automatic Tool Changer
GIFU ENTERPRISE CO., LTD.	http://atcgifu.com	Automatic tool changers, Milling Heads & Rams
Shieh Yih Machinery Industry Co., Ltd.	http://www.seyi.com.tw	Servo Press, Mechanical Press, Total Solution Service
SOCO Machinery Co., Ltd.	http://www.soco.cn	Laser Cutting Machine, CNC Tube Benders, Tube Cutting Machine & Chamfering Machine
Tailift Co., Ltd	http://www.tailift.com/01_Forklift/index-tw.html	Fiber laser cutting machine, eletro servo turret punch press, CNC servo hydraulic press brake, servo hydraulic turret punch press
Tongtai Machine & Tool Co., Ltd.	http://www.tongtai.com.tw	Lathe, Machining center, PCB drilling machine, PBF additive manufacturing equipment

Manufacture of Motorcycles and Parts

Name of Enterprise	Website	Major Products/ Services
Aeon Motor Co., Ltd.	http://www.aeonmotor.com.tw	1. Manufacturing & Sales of Motorcycles 2. Manufacturing & Sales of Multi-functional Sports Cars 3. Sales of Motorcycle & Other Transport Tools Parts

Manufacture of Non Metallic Furniture

Name of Enterprise	Website	Major Products/ Services
TAIWAN ORDER FURNITURE CORPORATION	http://www.order.com.tw	German pre-assembled furniture, Interior decoration, Italian Teenagers & Children bed sets, Green mattresses, Sofa

Manufacture of Non-woven Fabrics

Name of Enterprise	Website	Major Products/ Services
Fehrer Enterprise Corporation	http://www.fehrer.com.tw	Car Interior Carpets, Interlocking Carpets, Artificial Grass, Wall Covering, Car Mats, Shoes Material, Felt, Filter Material, Other Nonwovens
Nan Liu Enterprise Co., Ltd.	http://www.e-nonwoven.com.tw	Nonwoven (spunlace, Air through for Hygiene and Medical), Wet Tissue, Facial Mask
Web-Pro Corp.	http://www.web-pro.com.tw	Spunlace Non-woven Fabrics, Thermo Bonded Non-woven Fabrics, Air Ventilation (Air Proof) PE Membrane, Hygiene Material Base Membrane, Compound Membrane from Breathable Film

Manufacture of Optoelectronic Materials and Components

Name of Enterprise	Website	Major Products/ Services
BenQ Materials Corporation	http://www.benqmaterials.com	Polaroid, Optical Film, Aesthetic Medicine Series Products
Chi Mei Materials Technology Corporation	http://www.cmmt.com.tw	The manufacturer of polarizers for display applications
Daxin Materials Corp.	http://www.daxinmat.com	PI Alignment Liquid, Black Photo Spacer
E Ink Holdings Inc.	http://www.einkgroup.com	Research, Development, Manufacturing & Sales of Displays Related to Thin Film Transistor Process, for example, E-paper Display (EPD) & TFT-LCD
EPISTAR Corporation	http://www.epistar.com.tw	1. Aluminum Gallium Indium Phosphide (AlGaInP) Epitaxy & Grain 2. Aluminum Gallium Arsenide (AlGaAs) Epitaxy & Grain 3. Indium Gallium Nitride (InGaN) Epitaxy & Grain
Everlight Electronics Co., Ltd.	http://www.everlight.com	Visible LED Components \ Infrared LED \ Sensors \ Couplers \ LED Digital Displays & Lighting Solutions
Litemax Electroics Inc.	http://www.litemax.com	Industrial LCD Display, Industrial PC, Digital Signage, High brightness LCD Display Developer and Manufacturer
Radiant Opto-Electronics Corporation	http://www.radiant.com.tw	LCD Backlight Unit (BCU) \ LCD Light Guide Plate (LGP) \ Liquid Crystal Module (LCM) \ LED Lighting Fixture
TAIFLEX SCIENTIFIC CO., LTD.	http://www.taiflex.com.tw	Polymer Film Copper Laminated Board, Protective Film, Backsheets for Solar Energy Module
TAIMIDE TECH INC.	http://www.taimide.com.tw	Manufacturing & Sales of Polyimide Film (PI Film)
UBright Optronics Corporation	http://www.ubright.com.tw	Prism Film for Backlight Module
Wah Hong Industrail Corporation	http://www.wahhong.com.tw	Optical Film and Plate, Sheet for LCD Back Light Modules, Precise coating Film, Bulk Molding Compounds (BMC) and Molding products, Functional Engineering Plastic, Epoxy Resin and its Prepreg
YOUNG Lighting Technology Inc.	http://www.younglighting.com	Young Lighting is a total solution provider from components to systems including Backlight Module (BLM), Light Guide Plates (LGP), Touch Screens, LCM/LCMT, Monitors, and Software Solution for various applications

Manufacture of Other Electronic Parts and Components

Name of Enterprise	Website	Major Products/ Services
Advanced Ceramic X Corporation	http://www.acxc.com.tw	Wireless Communication Integrated Components, Wireless Communication Modules & Wireless Communication Chip Components
Ennoconn Corporation	http://www.ennoconn.com	Embedded Motherboard & Control Box, Point of Sales System (POS), ATM Control System, Automation of Industry (AI), Fleet Management System (FMS), Personal Care System (PIC)
Finetek Co., Ltd.	http://www.fine-tek.com	Process Automation Level Sensor, Flow Meter, Wireless System provider
Good Will Instrument Co., Ltd	http://www.gwinstek.com	Electronic Test & Measurement Instruments, Environmental Testing Equipment, Temperature/Humidity Testing Equipment, and Video surveillance products
MEAN WELL ENTERPRISES CO., LTD	http://www.meanwell.com.tw	AC/DC Switching Power Supply, LED Drive Power Supply, Battery Charger, DC/AC Inverter, DC/DC Converter
POLYTRONICS TECHNOLOGY CORPORATION	http://www.pttc.com.tw	Polymeric Positive Temperature Coefficient Thermistor (PPTC), Thermal Management Materials and Solutions (in LED lighting)
TXC CORPORATION	http://www.txccorp.com	Quartz Crystal, Oscillators, Clock Output Module

Manufacture of Other Fabricated Metal Products

Name of Enterprise	Website	Major Products/ Services
Anchor Fasteners Industrial Co., Ltd	http://www.anchorfast.com.tw	1. Construction Hardware - Manufacturing & Production of Anchors 2. Special Fasteners - Manufacturing & Production of Nuts 3. Manufacturing & Production of Blind Nuts 4. Production of Fasteners for Automobile
CHINA FINEBLANKING TECHNOLOGY CO., LTD.	http://www.cftc.tw	Automobile Door Locks & Other Parts
GLOBE UNION INDUSTRIAL CORP	http://www.globeunion.com	faucets, showerheads, bath accessories, porcelain fixtures and hardware; GU own brands and marketing: Gerber, Danze, PJHGroup, Lenz, homeboutique, etc. and high-quality OEM service
I-TEK METAL MFG.CO., LTD.	http://www.klacci.com	Provide security alarm and metal door protection. Security combined with communication system and its related products and services.
LONG TAI COPPER CORPORATION	http://www.luckytop.com.tw	Specialized in manufacturing all kinds of Faucets, Accessories, and OEM parts, also we accept OEM and ODM projects
SAN SHING FASTECH CORP.	http://www.sanshing.com.tw	Nuts, Washers, Screws (Bolts) & Outsourced Inspection Service
Vitahardware	http://www.vitahardware.com	European-style Door & Window Hardware Products (Hinges, Handles), European-style Multi-functional Sliding Windows & Doors, Multi-point Door Locks & Curtain Wall Multi-point Window Lock Hardware

Manufacture of Other Food Products

Name of Enterprise	Website	Major Products/ Services
TCI Co., Ltd.	http://www.tci-bio.com	Nutraceutical product -Functional Drinks, Sachet, Capsule, Tablet and Cosmetics product-Bio Cellulose Facial mask development by Integrated Bioscience Design method

Manufacture of Other Special-purpose Machinery

Name of Enterprise	Website	Major Products/ Services
ATMA CHAMP ENT. CORP.	http://www.atma.com.tw	TP Glass, Smart Phone Glass, Tablet Glass, PCB, FPC, Roll-to-Roll, Solar Cell Screen Printing Lines

CHUMPOWER MACHINERY CORP.	http://www.chumpower.com	PET Double-axis Stretch Blow Molding Machine, Precision Drill Chucks & Accessories
Creating Nano Technologies, Inc.	http://www.creating-nanotech.com	Normal Pressure/Low Pressure Plasma Equipment, OEM Coating, Power Supply & Analysis Instruments
FEEDBACK TECHNOLOGY CORP.	http://www.feedback.com.tw	Graphite, Molybdenum Products, Remove & Maintenance Services of Ion Implanter Equipment, Agent & Manufacturing of Semiconductor Equipment, Agent & Maintenance of Vacuum Equipment, Agent of Organic Metal Oxygen Phase Epitaxy Products
Gallant Precision Machining Co., Ltd.	http://www.gpmcorp.com.tw	1. FDP (including Touch Panel/OLED) process, Design, Manufacturing & Sales of Automated Equipment 2. Design & M manufacturing of Medical Detecting/Testing Equipment 3. Design, Manufacturing & Sales of Contact Lens Process Equipment 4. Design, Manufacturing & Sales of PV full-range Automated Process Equipment 5. Design, Manufacturing & Sales of IC Packaging Process Equipment
Hermes Microvision, Inc.	http://www.hermes-microvision.com	Manufacturing Industries of Mechanical Equipment & Electronics Components, Product Design Industry, Research, Development, Design & Sales of Inspection & Test Equipment for Electron Beam Wafer
MACHVISION, INC.	http://www.machvision.com.tw	Circuit AOI, PCB Auto-Final Inspection, LaserVia AOIM, Wafer AVI, CSP Bump Inspection
PAILUNG MACHINERY MILL CO., LTD.	http://www.pailung.com.tw	Circular Knitting Machine, Flat Knitting Machine
Shuz Tung Machinery Industrial Co., Ltd.	http://www.wisepioneer.com.tw	Turnkey equipment and services provider for bicycle producing tube processing, Mechatronic equipment design and manufacture for display assembling and glass producing and related automation systems
Symtek Automation Asia Co., Ltd	http://www.saa-symtek.com	Speicalize in the automation of Printed Circuit Board, Photonics and Semiconductor sectors together with related data integration
TA LIANG TECHNOLOGY CO.,LTD.	http://www.tlhome.com.tw	PCB Routing Machine,PCB Drilling Machine, Glass Panel Processing Machine
Test Research, Inc.	http://www.tri.com.tw	PCBA Inspection Equipment for Solder Paste Inspection, Automated Optical Inspection, Automated X-ray Inspection, In-Circuit Test, and Manufacturing Defect Analyzer
TUNG YU HYDRAULIC MACHINERY CO., LTD.	http://www.tungyu.com	Vacuum Oil Seal Rubber Vulcanizing Machine, Vacuum Thermoforming Machine, Rubber Injection Machine, Drum Vulcanizing Machine, Conveyor Belt & Flat with Curing Equipment
WinWay Technology Co., Ltd.	http://www.winwayglobal.com	Vertical Probe Card,High Performance Test Interface,High Performance Active Thermal Control System,Changeover Kit of Handler,Contact Element,Semiconductor Test Engineering Center

Manufacture of Other Unclassified Transportation Equipment and Parts

Name of Enterprise	Website	Major Products/ Services
CHAHENG PRECISION CO., LTD.	http://www.chaheng.com/english/index.php	Aero-engine Fan Section Advanced 3D Blade, Aero-engine Low Pressure Compressor Module, Aero-engine Hot Section Combustor Assembly, Aero-engine Hot Section High Pressure Diffuser
Magnate Technology Co., Ltd.	http://www.maicl.com/	1. Related Parts of Civil Aircraft Pulley Engine, Landing Gears & Flying Control Actuator 2. 5-axis Machining Center, Horizontal 4-axis Machining Center, Multi-functional Complex Machine, 3D 5-axis Milling Machine etc. 3. CMM High-precision Coordinate Measuring Machine, Contour Measuring Instrument, Surface Roughness Meter etc.

Manufacture of Parts for Motor Vehicles

Name of Enterprise	Website	Major Products/ Services
ActronTEchnology Corporation	http://www.actron.com.tw	Actron primarily specializes in automotive diode, alternator, regulator, and ABS (Anti-lock Brake System) controls and system

CUB ELECPARTS INC.	http://www.cubelec.com.tw	Automotive sensors,Automotive switches,Tire pressure monitoring system (TPMS),Advanced driving assistance system (ADAS)
DEPO AUTO PARTS IND.CO.,LTD	http://www.depo.com.tw	Auto lamps
Eagle Eyes Traffic Ind.Co.,LTD.	http://www.eagleeyes.com.tw	Eagle Eyes, a vehicle lighting craftsman. Established in 1978, we are a total solution provider in automotive lighting industry. We also comply with IATF 16949:2016 requirements
E-LEAD ELECTRONIC CO., LTD.	http://www.e-lead.com.tw	Front Seat Information Entertainment System/Navigation System, Rear Seat Entertainment System, Bluetooth Hands-free Car Phone & Electronic Peripheral Accessories for Cars
Hu Lane Associate Inc.	http://www.hulane.com.tw	Connectors for Automobile & Motorcycle, Connectors for Electric Vehicles, Fuse Boxes, Mold Development & Terminals for Medical Treatment
Hua-chuang Automobile Information Technical Center Co., Ltd.	http://www.haitec.com.tw	Design & Development of Complete Vehicle, Integration of Electric Vehicle System & Component Development, Integration of Electronic System for Vehicle & Component Development
Lucidity Enterprise Co., Ltd.	http://www.lucidity.com.tw	Being robust, modern, and functional all at once, Lucidity's rear combination lamp is everything you need. Meeting European safety and optical regulations, this lamp affords quality you can trust
Mobiletron Co.,Ltd.	http://www.more.com.tw	Automotive electronics, Power Module, Safety Systems and Automotive Tools
SuperAlloy Industrial Company Ltd.	http://superalloyengineering.com	Rims, Golf Ball Heads, Comprehensive Products, Consumer Electronics

Manufacture of Passive Electrical Components

Name of Enterprise	Website	Major Products/ Services
Conquer Electronics Co., Ltd.	http://www.conquer.com.tw	Conquer provide our own brand and OEM/ODM fuses, combining the solutions of fuse research, development, design, production, marketing and other services
LASER TEK Taiwan CO.,LTD	http://www.lasertek.com.tw	SMD Packaging Materials, Laser & SMT Equipments

Manufacture of Pharmaceuticals and Medicinal Chemical Products

Name of Enterprise	Website	Major Products/ Services
Nang Kuang Pharmaceutical Co., Ltd.	http://www.nanguang.com.tw	Aseptic anticancer injection, Premix Infusion (LVP; PP Bag), Prefilled Syringe, lyophilized injection,and Controlled Release Injections
STANDARD CEHM. & PHARM. Co., LTD.	http://www.standard.com.tw	Western Medicines, Active Pharmaceutical Ingredients (API), Manufacturing & Sales of Health Foods
TAIWAN BIOTECH CO.,LTD.	http://www.sintong.com	Western medicine, pharmaceutical & medical instruments, medical protective gears for eyes and mouth, health food, international trade, medical information service, health care business
Taiwan Liposome Company, Ltd.	http://www.tlcbio.com	Research/Development of Drug Delivery System Technology Platform, Research/Development of New Drug
TEH SENG PHARMACEUTICAL MFG. CO., LTD.	http://www.tehseng.com	ODM & OEM for Topical Pain Relief Patch,Transdermal Patch, Oral Film (Sublingual) and Biocellulose Mask
TWI Pharmaceuticals, Inc.	http://twipharma.com/tw	Special Generic Drug Development, New Drug Development
YUNGSHIN PHARM IND. CO., LTD.	http://www.ysp.com.tw	Development of Biotechnology/Pharmaceutical Products & Technology (Fermentation Technique, Synthesis & Extraction Technique, Pharmaceutical Preparations Technique)

Manufacture of Plastics Products

Name of Enterprise	Website	Major Products/ Services
DingZing Advanced Materials Incorporated	http://www.dingzing.com/tw	Advanced Thermoplastic Polyurethane (TPU), TPU Advanced Film & High Pressure Air Hoses & Transmission/Conveyor Belts
FERRO-CARBON ENT. CO., LTD	http://www.feca.com.tw	Tile cutter, Tile tooling, Houseware suction cup series, Suction Storage series
SHUTER Enterprise Co. Ltd	http://www.shuter.com.tw	Household Storage, Data efficiency Cabinets, Toolbox, Parts Cabinets, Heavy Duty Working Tables
Taiwan Hon Chuan Enterprise Co., Ltd.	http://www.honchuan.com.tw	PET Heat-resistant Crystal Bottles, Beverage Filling OEM, Battery Can Body Electronic Components Multi-layer Heat Shrink Film, LDPE Heat Shrink Film, Labels, Aluminum Covers, Plastic covers, Claw Covers
Taiwan Vertex Production Corp.	http://www.ai-outdoor.com	Water repellent bags with seamless high-welding technique are suitable for both outdoor and urban occasion. Beyond the standard is our core to make each product an unparalleled work
Xxentria Technology Materials Co., Ltd	http://www.xxentria-tech.com	One of the largest metal composites manufacturers. The products can be widely used in architecture, semi-trailer body, and solar heat applications. For solar application, Xxentria is specializing in manufacturing receiver tube and reflector
Yem Chio Co., Ltd.	http://www.ycgroup.tw	Film, Tapes & Packaging Materials
Yomura Technologies Inc.	http://www.yomura.com.tw	1. Manufacturing of Electronic Parts 2. Manufacturing of Automobiles (Motorcycles) & Its Parts 3. Manufacturing of Plastic Products for Industrial Application 4. Manufacturing of Aerospace Parts & Medical Equipment

Manufacture of Power Generator, Transmission and Distribution Machinery

Name of Enterprise	Website	Major Products/ Services
Chung-Hsin Electric and Machinery Manufacturing Corp.	http://www.chem.com.tw	1. Main products include sulfur hexafluoride gas insulated switchgear (GLS) 2. Operating range: Heavy electricity products, electricity meter products, system air-conditioning engineering, parking management and the power and substation turnkey projects etc.
Fortune Electric Co., Ltd	http://www.fortune.com.tw	Equipment - transformers, switchboards, switches, distributors, electrical equipment maintenance; turnkey projects - substations, power plants, electromechanical systems integration projects; renewable energy systems - solar power plants, smart grid, electric vehicle charging stations etc.
FUKUTA ELEC. & MACH.CO., LTD.	http://www.fukuta-motor.com.tw	Induction servo motor, Inverter (duty) motor, Induction motor, Electric Vehicle motor

Manufacture of Refractory Products, Clay Building Materials and Other Porcelain and Ceramic Products

Name of Enterprise	Website	Major Products/ Services
Artlize Worldwide Co.,Ltd	http://www.talescasa.com	Decorations/Stone Art/Porcelain/Incense /Tea
AURLIA CORPORATION	http://www.aurlia.com.tw	Development & Sales of Tea Appliances, Sales of Tea Products & Development & Sales of Aroma Diffuser
Champion Building Materials.,LTD.	http://www.champion.com.tw	Polished Quartz Tiles, Gres Porcelain, Full-glaze Polished, Porcelain Wall Tiles, Ceramic Wall Tiles, External Wall Tiles
Franz Collection Inc.	http://www.franzcollection.com.tw	Ceramics
Hocheng Corporation	http://www.hcg.com.tw	bath fixture, faucets, kitchenware, ceramic board, Stoves, precision ceramics and composite materials etc.

Manufacture of Rubber Products

Name of Enterprise	Website	Major Products/ Services
HSIN YUNG CHIEN CO., LTD.	http://www.hyc-king.com/	Rubber conveyor belt, Rubber sheet, Rubber parts, Hot-Pressing Cushion, Thermoplastic Composite Sheet
KENDA RUBBER INDUSTRIAL CO.,LTD	http://www.kendatire.com/zh-tw	Bicycle Tires & Tubes, Motorcycles, Scooter, Dune Buggy Tires & Tubes, Tires & Tubes for Industrial Application, Farming machines, Mower Tires & Tubes, Light Trucks, Trailers Tires & Tubes, Waterproof Tapes etc.

Manufacture of Semi-conductors

Name of Enterprise	Website	Major Products/ Services
Altek Corporation	http://www.alket.com.tw/zh-tw	1. Digital image product R&D, manufacturing, and sales 2. Digital camera ASIC design 3. Digital image solutions
Anpec Electronics Corporation	http://www.anpec.com.tw	Power IC design, test, manufacturing, and sales. Apply to all IT end products, household appliances, and car electronic products
Ardentec Corporation	http://web.ardentec.com/en.php	Test Engineering Development & Test Production of Memory, Logics & Mixed-signal Integrated Circuit
Chunghwa Precision Test Tech. Co., Ltd.	http://www.cht-pt.com.tw	CHPT main products are probe card, load board, and substrate
ELAN Microelectronics Corp.	http://www.emc.com.tw	The R&D and sales of ICs and modules in 3C products and smart human-machine interface devices
Himax Technologies, Inc.	http://www.himax.com.tw	Driver IC Design of Each Size Panel
HOLTEK SEMICONDUCTOR INC.	http://www.holtek.com.tw	8-bit Micro-controller, 32-bit Micro-controller, Display Driver, Power Supply Management & Other IC
MPI CORPORATION	http://www.mpi.com.tw	MPI provides high quality Probe Cards, Probe Stations, Testers and Thermal Air systems for Semiconductor, Materials Research, Aerospace, Automotive, Fiber Optic, Electronic Components, LEDs, Lasers, Photo Detectors, and more
Nuvoton Technology Corporation	http://www.nuvoton.com	The Company's primary business consists of IC design and sales and IC foundry services.
PixArt Imaging Inc.	http://www.pixart.com/ch/index.asp	Optical Navigation Sensor, CMOS Image Sensor, Multi-Object Tracking Sensor, Heart Rate Sensor, Gesture Recognition Sensor, Optical Touch/Capacitive Touch Controller Sensor
Raydium Semi-conductor Corporation	http://www.rad-ic.com/tw/default.aspx	Design, Development, Manufacturing & Sales of TFT-LCD Driver IC
WIN Semiconductors Corp.	http://www.winsemiconductorscorp.com	The largest pure-play 6-inch GaAs foundry in the world, has three advanced fabs with providing the best quality of HBT, pHEMT, GaN foundry services for MMIC applications

Manufacture of Ships, Boats and Floating Structures

Name of Enterprise	Website	Major Products/ Services
Horizon Yacht Co., Ltd.	http://horizonyacht.com	Horizon Yachts is the fifth largest custom luxury yacht builder in the world. Popular models ranging from 52 to 150 feet include motoryachts, superyachts, power catamarans and expedition yachts

Manufacture of Skin Cleaning and Cosmetics

Name of Enterprise	Website	Major Products/ Services
DR.JOU BIOTECH CORP	https://www.drjou.com	Dr. Jou Personal Care Products, Face/Eyes Masks
Hair Oright International Corp.	http://www.orient.com.tw	Environmental friendly shampoo, hair care products, hair styling and related scalp care products

Manufacture of Sport and Recreational Goods

Name of Enterprise	Website	Major Products/ Services
Dynamic Precision Industry Corporation	http://www.dynamic.com.tw	Top 4 professional golf club manufacturer
GENIUS TOY TAIWAN CO., LTD.	https://www.gigotoys.com	Toy blocks, math/scientific educational materials, innovative furniture, future classroom, musical bells
Johnson Health Tech Co., Ltd.	https://www.johnsonfitness.com.tw	Treadmills, Ascent trainers, Ellipticals, Climbmills, Cycles, Steppers, Group Training: S-Drive Performance Trainer, Rower, Krankcycle, In-Trinity Strength Fitness: Series of Ultra, Versa, Aura, Magnum, Varsity and G1
Okuma Fishing Tackle Co., Ltd.	http://www.okuma.com.tw	Okuma Fishing Tackle is a global leader in the design and manufacturing of high quality fishing tackle

Manufacture of Textile Products

Name of Enterprise	Website	Major Products/ Services
Taiwan Paiho Limited	http://www.paiho.com	Touch Fastener, Easy Tape-Molded Hook, Webbing, Elastic, Shoelaces, Reflective Material, 2D/3D Image logo, Charcoal Tech-Taiwan Bamboo charcoal Yarn, one piece upper shoe's face
YAO I FABRIC CO., LTD.	http://www.yaoi.com.tw	Fishing Line, Racket Strings, Monofilaments, Mesh Fabrics for OA Chair and Shoes, Pets Products, and Mattress

Manufacture of Unclassified Chemical Products

Name of Enterprise	Website	Major Products/ Services
K LASER TECHNOLOGY INC.	http://www.kasergroup.com	As an international supplier of hologram technology, K Laser Technology offers hologram and Fresnel lens materials that can be utilized (with printing techniques) in numerous applications, such as security labels and packaging solutions
Shenmao Technology Inc.	http://www.shenmao.com	Solder Bar, Sphere, Solder Wire, Tin Lead Solder Paste, BGA Sphere & PV Ribbon
Taiwan Hopax Chemical Industrial Co., Ltd	http://www.hopax.com	Specialty Chemicals (for Detergent aid, Paper Additives and Water Treatments), Fine Chemicals(alkylsulfonic chemicals for bio-tech/pharma, electroplating, lithium battery and water-borne PU/PA industries), Stick'n Repositionable Self-stick Products
Univacco Technology Inc.	http://www.univacco.com.tw	Hot Stamping Foil, Sheet-fed Offset Cold Foil, Narrow-web Cold Foil, Holographic Foil, Digital Foil, Textile Foil, and Other Special Effect Foils (SEF)

Materials Recovery

Name of Enterprise	Website	Major Products/ Services
Solar Applied Materials Technology Corporation	http://www.solartech.com.tw	Re-use of Precious Metal Material Resource, Thin-film Sputtering Coating Evaporation Target

SUPER DRAGON TECHNOLOGY IND	http://www.sdti.com.tw	<ol style="list-style-type: none"> Precious Metals Regeneration: Recycling, Removal & Treatment of Electronic Industrial Waste Materials for Semiconductor Application: Production & Sales of Semiconductor Electroplating Materials (Gold Potassium Cyanide, Target Materials) Services Related to Semiconductor Film: (Customized) Cleaning Services of Equipment & Parts Green Art: Resource Regeneration Arts, Manufacturing & Promotion of Artificial Construction Materials
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Metalworking Process

Name of Enterprise	Website	Major Products/ Services
YOKE INDUSTRIAL CORP.	http://www.yoke.net	Chain sling, wire rope sling fitting for lifting industrial, Solution for side load lifting: Lifting Point

Other information service activities

Name of Enterprise	Website	Major Products/ Services
CGCG Inc.	http://www.cgcg.com.tw	CGCG provides 3D CGI animation for TV Series, Feature Films, Direct to Video Features, Game Movies

Other professional, Scientific and Technical Skill Services

Name of Enterprise	Website	Major Products/ Services
Taiwan Imaging Tek Corporation (TITC)	http://www.titc-usa.com	TITC is dedicated to the development of innovative image/video/audio processing and compression technology, which has been validated and being implemented in image and video related electronic products, such as smartphone, television, automobile electronics, AR and VR. Our clients include German, Japan, Korea, Taiwan, etc.

Pollution Control and Improvement

Name of Enterprise	Website	Major Products/ Services
JG Environmental Technology Co., Ltd.	http://www.jgok.net	VOCs process system, acid gas & micro particle removal equipment, gas pollutant purifying and odor removal equipment, organic substance extraction from waste gas equipment. ESCO system design and equipment. All purpose maintenance services

Printing and Reproduction of Recorded Media

Name of Enterprise	Website	Major Products/ Services
Gain How Printing Co., Ltd	https://gainhow.tw	Eleconronic color reproduction, photo & negative exporting, Photoshop raw file exporting, plate printing, OEM & book printing.
TRANSART GRAPHICS.	http://www.transart.com.tw	Bike Labeling/Transfer Labeling/Printing

Professional Testing and Analysis Services

Name of Enterprise	Website	Major Products/ Services
Sporton International Inc.	http://www.sporton.com.tw	SPORTON LAB, the world's largest EMC, safety, RF, and mobile device test lab, has been focusing on providing customers with professional product testing and certification services
TAIWAN-ASAHI ENVIRONMENTAL TECHNOLOGY CO.,LTD	http://www.taet.com.tw	TAET is an accredited organization by EPA, CNLA to perform environmental testing. As of 2017, TAET has been authorized to perform 643 items testing in nine main categories: air, drinking water, groundwater, water quality, soil, sediment, noise, waste, and toxic chemical substances

Retail Sale in Non-specialized Stores

Name of Enterprise	Website	Major Products/ Services
momo.com Inc.	http://www.fmt.com.tw	General merchandize online, TV, and catalog shop.
PChome eBay Co., Ltd. (Ruten)	http://www.ruten.com.tw	General merchandize online shop and platfrom
PChome Online Inc.	http://www.pchome.com.tw	E-commerce (Pchome 24h Shopping/Pchome 24h Online Shopping/Pchome Global Shopping)

Security and Investigation Activities

Name of Enterprise	Website	Major Products/ Services
TAIWAN SECOM CO., LTD.	http://www.secom.com.tw/	Intelligent Housekeeping Services, Next Generation Security System, Health Care Services, AED, Smart Green Building

Specialized Design Activities

Name of Enterprise	Website	Major Products/ Services
Nova Design Co., Ltd.	http://www.e-novadesign.com	Industrial design (automotive, locomotive, 3C products, home appliances), model design and production (CNC, RP), computer-aided industrial design (CAID) and institutional design.

Telecommunications

Name of Enterprise	Website	Major Products/ Services
Vee Telecom Multimedia Co., Ltd.	http://www.veetime.com	Cable TV Broadcast, Fixed Network, 4G WIMAX Mobile Broadband

Textiles Dyeing and Finishing Industry

Name of Enterprise	Website	Major Products/ Services
GFun Industrial Corp.	http://www.gtex.com.tw	Functional Textiles Membranes (Waterproof & Moisture Permeability) - waterproof & breathable lamination of sports, leisure & comfort functional textiles, special coating and development of lamination technique plus foundry services

Waste Processing & Disposal Service

Name of Enterprise	Website	Major Products/ Services
TAIWAN STEEL UNION CO., LTD.	http://www.tsutw.com.tw/	<ol style="list-style-type: none"> 1. Waste process and removal for steel making from electric arc furnace 2. Crude Zinc Oxide production 3. Rotation kiln incinerator Slag

Weaving of Textiles

Name of Enterprise	Website	Major Products/ Services
Shei Chung Hsin Ind. Co., Ltd.	http://www.sheico.com.tw	Wetsuits, PFDs (Life vests), Performance fabrics, Active wear, Spandex yarn
SINGTEX INDUSTRIAL CO., LTD.	http://www.singtex.com	High-functional textile products,S.Café® coffee yarn & fabric, environmental friendly bio-based products

Note: The table is classified in accordance with Standard Industrial Classification of Directorate General of Budget, Accounting and Statistics and sorted by the name of enterprises in English.

