



2020

TAIWAN EXCELLENCE

Everyday Excellence

SMART MACHINERY

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2020
TAIWAN EXCELLENCE



www.taiwanexcellence.org

ORGANIZED BY



經濟部國際貿易局
BUREAU OF FOREIGN TRADE, MOEA



中華民國對外貿易發展協會
TAIWAN EXTERNAL TRADE DEVELOPMENT COUNCIL
(TAITRA)

Selected
Award Winners of

TAIWAN EXCELLENCE

Taiwan Excellence believes that innovation makes a difference in everyone's life.

Excellence means creative designs that we use every day
on the street, at work, at home.
It's the things we touch. It's the things that touch us.

Excellence means the technology that makes us healthy, keeps us moving,
and gives our children a green tomorrow.

Excellence empowers people to dream amazing dreams, and live fuller lives.
It's the best made in Taiwan.
It's the choice of innovation.

For everyone. Everywhere. Every moment. Everyday.
Taiwan Excellence.

為世界精細挑選最好的

我們用最高標準挑選，全臺灣最高品質的精品
台灣精品不僅代表台灣
也代表了高品質、高科技、高度創新…
經過嚴格的審核和挑選
為人們的生活帶來更多美好

Everyday Excellence

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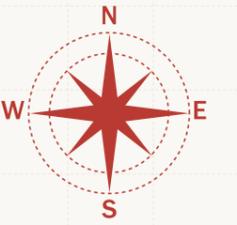
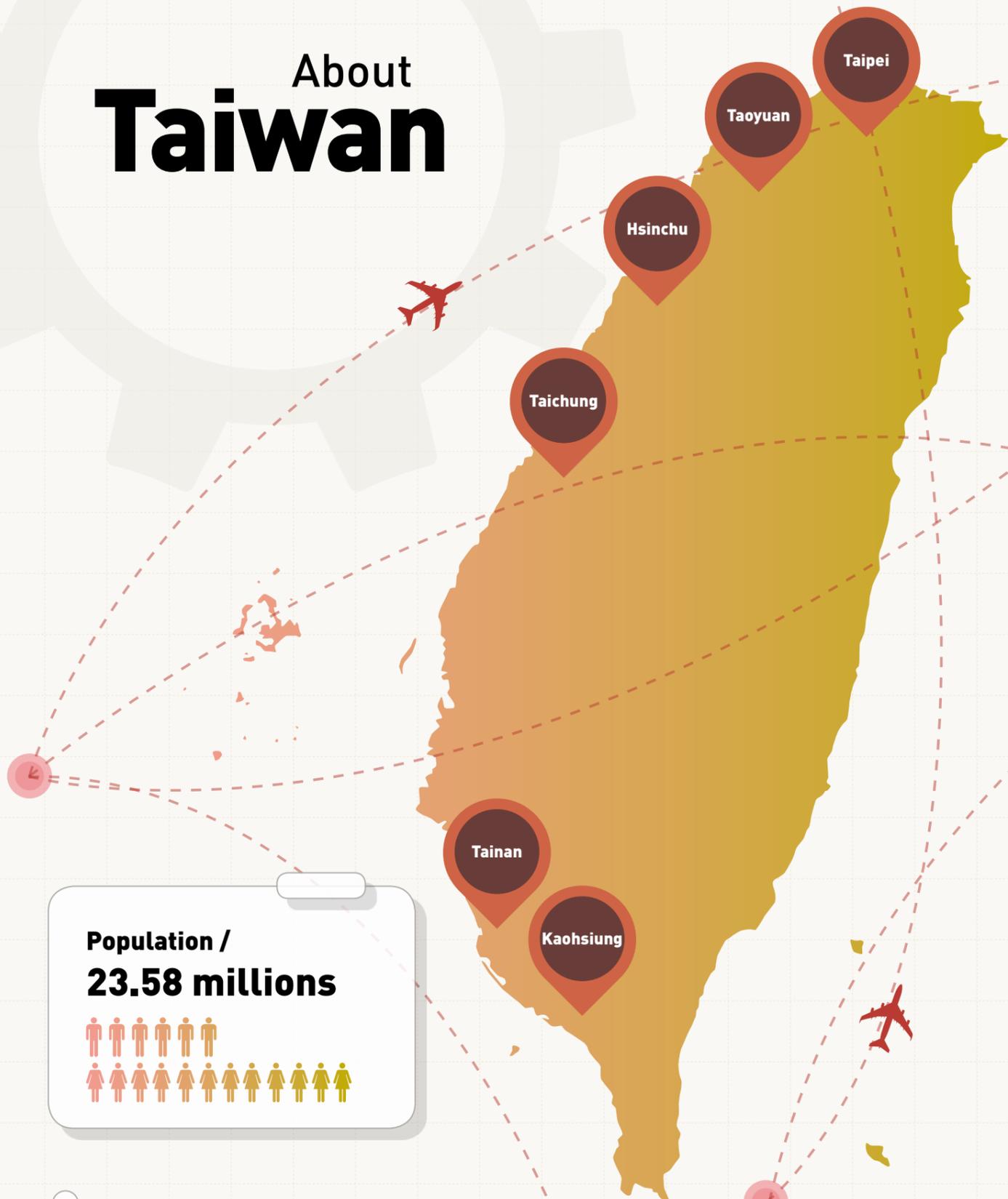
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About Taiwan



Area / **36,197 km²**

Capital / **Taipei**

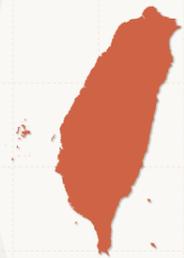
Landmark / **Taipei 101**
Located in Northern Taiwan, the 10th tallest building in the world.



Major Innovative Industry Policies and Locations /
Smart Machinery: Taichung
Green Energy: Tainan, Kaohsiung
Biotech & Pharmaceutical: Taipei, Taoyuan, Hsinchu, Tainan
Asia Silicon Valley: Taoyuan
National Defence: Taipei, Taichung, Kaohsiung

Population / **23.58 millions**





Somewhere You Should Go and Know

Taipei 101

This 101-floor building is the tallest building in Taiwan and the largest green building in the world, with a shopping mall, observatory and many gourmet restaurants in it. The illumination of Taipei 101 occasionally enlightens meaningful symbols of Taiwan and the world, now is an icon of Taiwan.



Lungshan Temple

Founded in 1738 and rebuilt in 1919, completed in 1924, Lungshan Temple is not only a beautiful national monument, but one of the most representative places to show Taiwan's tolerance and diversity in religions. It's mainly dedicated to the Buddhist Goddess of Mercy, and also to some deities of Taoism such as Mazu and Guan Yu.

Night Markets

Almost every main city in Taiwan has several night markets which features so many delightful and inexpensive street foods along with many other funny traditional games here. Night markets perfectly illustrate the food culture of the Taiwanese people, while each specialty gives you an insight in the people of the area it originates from.



National Palace Museum

Taiwan's history has been connected with China in recent decades, now Taiwan has inherited China's national culture spanning thousands of years and shoulders the responsibility of preserving and publicizing artifacts in National Palace Museum in Taipei and Chiayi. Tourists can visit here to appreciate the essences of Chinese culture.



Eslite Bookstore

As one of the largest retail bookstore chains in Taiwan, Eslite Bookstore is also well-known in Asia for its style of exhibition and decoration. People can take their time reading and enjoying the ambience in Eslite almost anytime because some of Eslite Bookstore are always open for you!



Sun Moon Lake

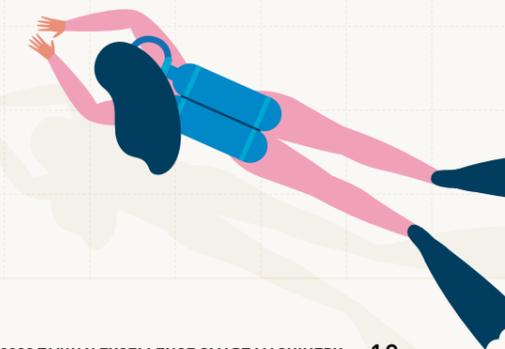
Sun Moon Lake is a beautiful alpine lake located in the middle of Taiwan, it features rich indigenous culture and excellent agricultural products. People around the world come here to enjoy bike riding, cable car and boat rides, as well as take the train at Jiji and experience the nostalgic Taiwan railway.

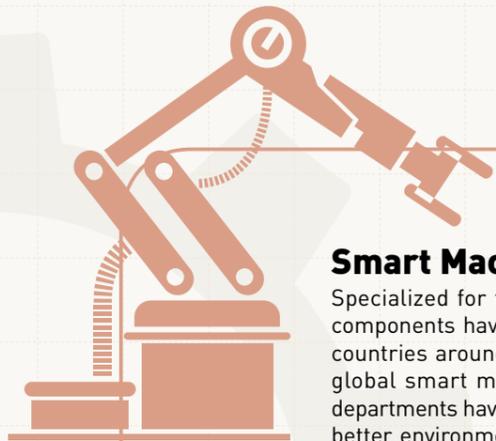
Kenting

Established in 1982, Kenting National Park is not only a beautiful tropical scenery, but features some of the most sought-after beaches in Taiwan. You can go snorkelling at Wanlitong beach, or go sightseeing around the coastline on a bike, or even visit the 2km long night market, life is always easy and spontaneous in Kenting.

Taroko

Taroko National Park, situated in the eastern Taiwan and established in 1986, features splendid view of high mountains and sheer gorges. The most famous natural wonders here are the spectacular Taroko Gorge and the scenic beauty of Liwu River, as well as varied mountain peaks, numerous waterfalls, and indigenous Taroko people, all make the unique natural ecosystem here.





Smart Machinery/

Specialized for flexible production and quick delivery, Taiwanese components have long become the DNA of machine tools in many countries around the world. Now Taiwan is also one of the major global smart machinery bases worldwide, not only government departments have established the "Smart Machinery Park" to provide better environment for manufacturers, machine tool builders have also been actively investing in high-end manufacturing equipment and technology, and incorporating machine tools, sensors, IoT, cloud platforms, big data, and data analysis altogether. With smart machines as main driving power, Taiwan's machinery production is expected to grow 5-10% in value in 2020, and accelerate the realization of its vision of two trillion yuan in output value by 2025.

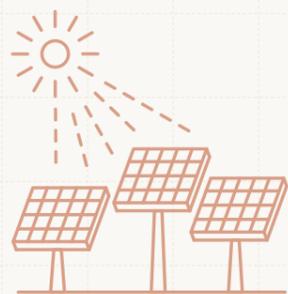


Semiconductor/

Taiwan has a comprehensive semiconductor industry cluster and is one of the world's densest and most technologically advanced semiconductor production base, and ranks number one globally in OEM wafer production.



Taiwan Economy



Green Energy/

There is a complete supply chain of photovoltaic industry in Taiwan, makes it one of the biggest supplier of solar power panels. Now Taiwan is also cooperating with international corporations to develop the wind power technology.



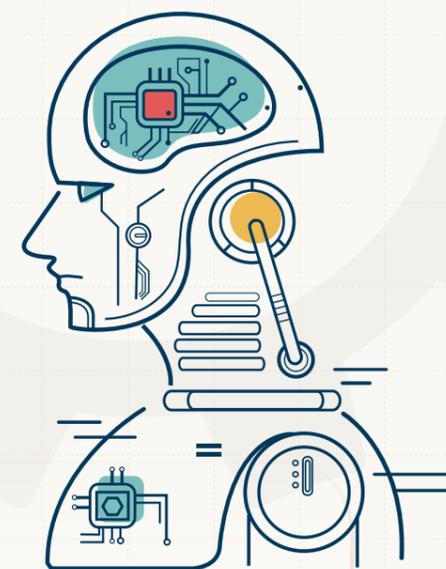
ICT/

Taiwan is one of the key members in the global communications industry, especially in the control of the manufacturing systems of a significant number of communications hardware products.



Biotech/

Beside the National Biotechnology Park set up in the Nangang, Taiwan has three other major research centers of Biotech in Hsinchu Biomedical Science Park, along with a BioMed Commercialization Center and Agricultural Biotechnology Park to develop all kinds of biotech.



Textile/

About 70% market share of functional textile worldwide is in control of Taiwan, which is also the main base for R&D and production of functional textile and new smart textile.

Sports & Leisure/

Taiwan has been a famous supplier of high quality bicycles for decades, as well as some other equipment such as golf club heads. The export amount of sporting goods sector reaches 1.9 billion dollars in 2018.



Health Care/

Taiwan enterprises have a long collaborative relationship with multinationals, which makes it a producer of upstream medical devices and a key link in global supply chain.



2019

Taiwan Economic Data

Exports/
329 (USD billion)

Imports/
286 (USD billion)

GDP per capita/
25,893 (USD)

Economic Growth/
2.7 %



A PIONEER IN APPLYING MECHATRONICS

AXILE
agile smart machining

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達佛羅股份有限公司
BUFFALO MACHINERY CO., LTD.

Buffalo was founded in 1979, is one of the fastest-growing machine tool providers in Taiwan which produces quality machines with excellent service. In the 90's Buffalo started its own R&D dept., by 1997 the complete machine was developed and assembled in its own production facilities. Buffalo supplies a wide range of products and marketing to global markets in two brands. MICROCUT, the original brand since 1983, covers most of the product lines and aims to deliver quality machines at competitive prices focusing on the relationship with the customers. AXILE, the high-end brand was launched in 2017, is conceived to cover the premium market of 3X and 5X high-tech machining centers, focusing on technology and performance. The patented SMT™, using the techniques of monitoring and compensation to improve machine accuracy and productivity. By embracing Industry 4.0, ART™ is developed to ensure the machine reliability and enable predicative maintenance for 24/7 automatic operating without unexpected downtime.



**TAIWAN
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GOLD AWARD**



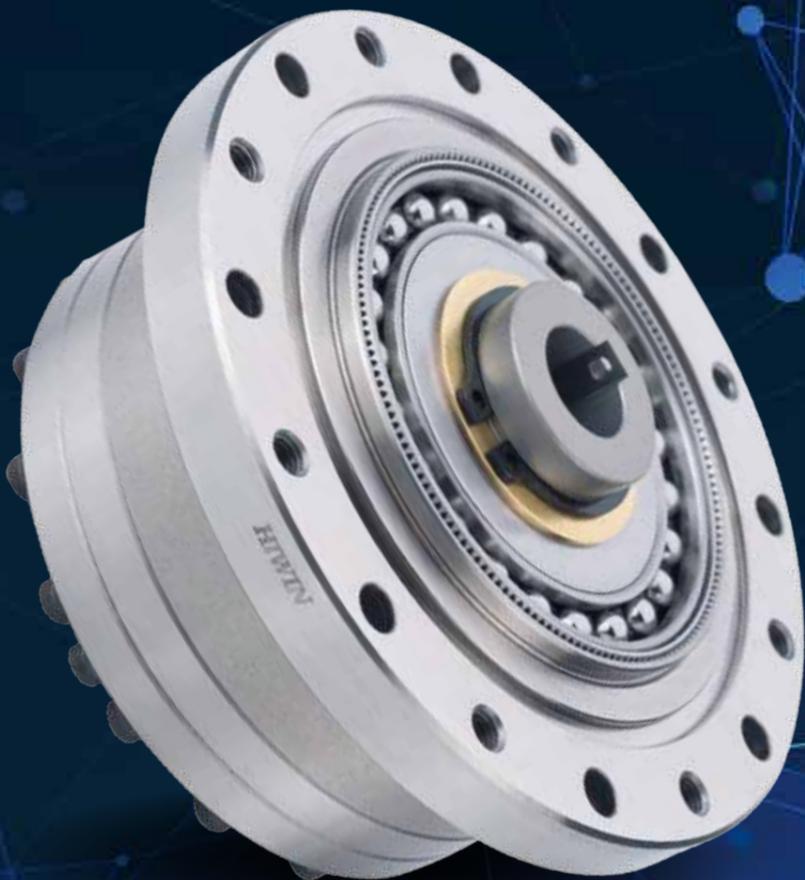
Smart Monitoring System - Adapting to i4.0 Machine Tool ⓘ

With real-time monitoring technology, the System allows users easy access the synchronized machine data and production process for better strategy making, predictive service arrangement and automatic re-stocking.



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HIWIN Technologies Corp. is the leading brand of motion control and system technology manufacturer. Products range from ballscrew, guideway, bearing, DATORKER® Robot Reducer to industrial/medical robot, rotary table, with characteristics of high speed, high precision, multifunction, and eco-friendly. HIWIN products are well established in the automation, semi-conductor, electronics, medical and precision machining industries. HIWIN commits to intelligent automation and has the most complete type of robot, including wafer, Articulated, Delta, SCARA and medical robots, to reduce human labor, replace hazardous jobs, create a great work environment, and improve human's life. In Dec. 2017, HIWIN is ranked No. 1 of "ASIA 300 market price increasing rate ranking" and market value is doubled by Nikkei Business News, which is number one from mechanical component industry.



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DATORKER® Robot Reducer ⓘ

HIWIN DATORKER® Robot Reducer using the metal elastic deformation phenomenon to eliminate the backlash of gears. It can provide the same weight and volume with different reduction ratio.



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**Integrity, Growth,
Customer Satisfaction,
Employee Security**



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CHING HUNG MACHINERY & ELECTRIC INDUSTRIAL CO., LTD.



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2020**
SILVER AWARD

Ching-Hung has been based on the concepts of "Integrity; Growth; Customer Satisfaction; Employee Security" We have dedicated ourselves to advancing the technology and the quality of the EDM industry in Taiwan and worldwide EDM market. With the self-owned brand, CHMER, we sell machines all over the world.

CHMER EDM, as the professional equipment provider for precise molds and working parts, we carry an important mission to trigger manufacture revolution in precise molds and parts by intelligent machinery application. Positioned at "Total solution to intelligent non-conventional manufacture", we devoted ourselves to be world-leading brand in this area. We expect the strategy of 「High precision x Intelligence」 creates added-value niche for CHMER among competitors in the world. In the meantime, we work on satisfying precise molds and parts processing in aerospace, car, medicine, 3C and energy source industries.



High Speed Milling Compound Machine ①

HD886L High Speed Milling Compound Machine is the first ever-released innovation in Taiwan. Working processes of milling and electric discharge are now available on same machine. HD886L can satisfy high accuracy and fine surface requirements of mold and parts machining in aerospace and car industries.



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5-Axis Machining Total Solutions Provider



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亞太菁英股份有限公司
ASIA PACIFIC ELITE CORP.



Asia Pacific Elite Corp. (APEC) was established in 2001. It is a subsidiary of Taiwan's largest machine tool manufacturer, TTgroup, and it is also the R&D center of TTGroup in the central Taiwan. APEC specializes in producing 5-axis large scale high speed machining center, and combines high-quality R&D design, sophisticated assembly and test verification procedures, rigorous quality control and turnkey application processing solutions to create customer value. We have the world's most complete medium and large aerospace structure and engine parts processing solutions and product lines, as well as technical services with factory planning, special machine development, training, talent supply, turnkey solutions and smart manufacturing. APEC has successfully entered into a market-oriented position including ThyssenKrupp, Yulkok, Williams International, and AIDC. Our enterprise management and technology research and development have won many awards in recent years.



5-Axis High Speed Gantry Machining Center ①

GM2540 focuses on aerospace solution. It can automatically adjust heads according to different processing, add intelligent system and security protection mechanism to improve efficiency, convenience and safety.



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金豐機器工業股份有限公司
CHIN FONG MACHINE INDUSTRIAL CO., LTD.



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Chin Fong Machine Industrial was established in 1948 and has developed as a leading mechanical press maker in Taiwan. With a strong R&D team, Chin Fong is capable of designing and manufacturing durable, quality presses for worldwide sales. Numerous subsidiaries and agents form our global service net to offer the best service. We aim at being the global leading press manufacturer. We treasure long-term relationships with our partners and customers. Chin Fong offers the best "service" to our respected customers, a commitment to "innovation" and look to creating new value. We work together with our customers to create a win-win situation. We are persistent and working towards being a total solution provider and a global leading manufacturer in the metal forming field.

Innovation,
Service,
Commitment



Intelligent Double Crank Power Press

Industry 4.0 concept is adopted by the application of Clouds and Big Data, IoT and AI technology to realize intelligent product, intelligent equipment, intelligent service, intelligent management.



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CREATE THE
HIGHEST VALUE
TO CLIENTS



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大佳機電股份有限公司

DA JIE ELECTRICITY MACHINERY INDUSTRIAL CO., LTD.

DA JIE, founded in 1973, selling products as its self-owned brand, has a vision of becoming the "global green, high-efficient and power-saving leading supplier of metal-heating applied equipment". "DJE" uses strategy to "create the highest value to clients", and sets its core idea as "back pusher of the top food and beverage knife"; products are applied in manufacture the top knife for food and beverage industry, utensils & machinery industries. We take intelligent control as core technology, offer clients quality power-saving welding passes and elevate above 99% of quality production rate & above 30% in power-saving. To fit the modern production trend, we research and design intelligent production equipment with cooperation with clients, presenting the "Generation High-Efficient Knife Shank Upsetter Machine".



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Generation High-Efficient Knife
Shank Upsetter Machine ①

- a. Save more power, efficient, quality & reliable.
- b. Production grow & cost down.
- c. Module design: precise and multi-function.



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Pursuit of Perfect Masterpiece



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眾程科技股份有限公司
EQUIPTOP HITECH CORP.

EQUIPTOP Hitech Corp., product brand recognition EQUIPTOP, meaning TOP EQUIPMENT top-level equipment intended. From the manual molding grinding machine to the CNC surface grinding machine, all products have been carefully innovation and design, each piece is the pursuit of a perfect masterpiece, called the industry pioneer in technology. EQUIPTOP from R & D, manufacturing to finished assembly of each process are implemented in layers of strict quality control, product quality records, mechanical operation test, finished product inspection record, precision inspection and preservation record, by the Ministry of Quality and centralized management, and the establishment of a complete mechanical factory resume, as the future sales service of the accurate basis for a full range of production processes are implemented high Precision, high productivity and high efficiency, to achieve the most perfect state of standardization.



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Smart Precision Grinder ⓘ

TD / ADC is EQUIPTOP's first intelligent grinding machine with highly ergonomic, automatic dressing, AI algorithm (workpiece surface), remote monitoring, and flexible manufacturing.



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**Precise,
High-quality,
Low-wear,
Eco-friendly**



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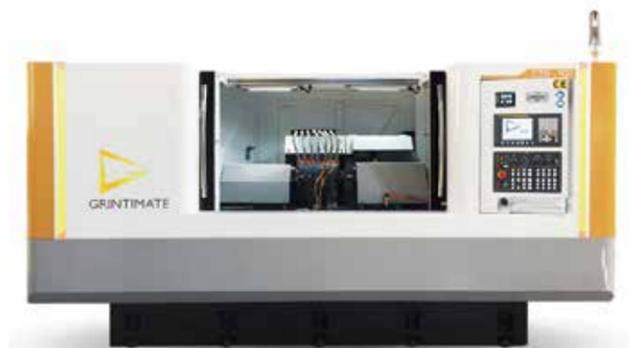
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Grintimate Precision Industry Co., Ltd., owner of advanced patented hydrostatic spindle technology, is a leading designer and specialized manufacturer of high-precision grinders and vertical lathes. We have developed exclusive technologies for hydrostatic spindles, rotary worktables, and guideway modules that are specialized and widely used in machine tools for a wide variety of applications. All of these make us have an irreplaceable position in the field. We strive to provide high-precision, high-quality, low-wear, and environmentally friendly machine tools to our customers. Assisting customers to improve efficiency and quality, lowering cost to enhance competitiveness, creating unique value and high efficiency, and providing the best solution, these are the highest purposes of Grintimate focusing on R&D and innovation!



Hydrostatic Cylindrical Grinders Specialized for Transmission Shaft ①

The only hydrostatic cylindrical grinder in Asia that is dedicated to the grinding of transmission gear for automobiles, it increases the grinding effectiveness at least 10 times.



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**Strive For Perfection
Quest For Excellence**

JAINNHER

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鍵和機械股份有限公司
JAINNHER MACHINE CO.,LTD.

JAINNHER MACHINE, a professional manufacture of precision grinding machine in Taiwan since 1982. Our main products include centerless, cylindrical and internal grinding machines as well as various NC & CNC automatic loading / unloading device. We produced the first batch centerless in 1983, until today some of these machines still on the service in customer's factory. The great quality, precise accuracy and good service made our good reputation. We have consisted of 130 employees with full energy and ambitious to satisfy various customer's requirement. Just like the motto "Exceeding the Pursuit of Excellence", it's our pleasure to be your reliable and trustworthy business partner!



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Thread Grinding Machine ① An Expert Of Thread Grinding

Machine with 3500rpm built-in spindle and able to carry Ø510mm grinding wheel. The wheel head axis is capable to rotate ±30° for various application such as: Ball screw / General thread / Spindle / T-thread / Worm. To equipped with "Smart Machine Function" can reduce the deviation of manual tool setting and obtain the best accuracy after grinding!



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March to
the Top of
Technology



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高鋒工業股份有限公司
KAO FONG MACHINERY CO., LTD.

Kao Fong Machinery Co., Ltd. (KAFO) was established in 1968. At the beginning, we mainly produce tapping and drilling machines. In order to develop and extend product applying scope. KAFO has accumulated our steady technological capabilities and experiences over 50 years and successfully developed stable sales performances in products of Vertical Machining Center, Double-Column Machining Center, Horizontal Machining Center, High Speed Double-Column Machining Center, Gantry Type 5 Axis Machining Center and 5 Axis Machining Center, facilitating us in expanding global layout centered in Taiwan.



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5 Axis Machining Center ①

The product is equipped with B/C Axis rotary table which can reach to 5-Axis simultaneous control and process, increasing the efficiency of production.



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High Quality
Machine
and Most
Competitive
Price



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L&L MACHINERY INDUSTRY CO., LTD.

With more than 28 years of experience in the development and manufacturing of heavy-duty CNC lathes and manual lathes, L&L is an international recognized lathe manufacturer with products sold to over 20 countries around the world. And our vision is "the leader of Taiwan's heavy duty multi-axis complex cutting machining center manufacturer." L&L heavy-duty lathes are designed with just one thought in mind, to maximize metal cutting productivity. The combination of rugged structure, maximum stability and great cutting capacity, coupled with lifetime accuracy make L&L heavy-duty lathes excellent for any application. These applications range from and include, general parts machining, the mining industry, shafts, molds, power utilizes and rollers, the oil industry and the aviation industry. In recent years, the plastic rubber machinery industry is our target market what we import smart design system- PLM product lifecycle platform to develop the LLS multi-axis machining center.



TAIWAN
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Smart Heavy Duty Multi-Axis
Complex Machine ⓘ

- a. Smart design, manufacture service, process efficiency
- b. High-steel structure, precision, heavy load SYN
- c. Human design aesthetics, smart PLC,AUT control
- d. Smart EP,ML, precision feedback, life cycle



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NEXT GENERATION
OF
MACHINE
USERS



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Manford Machinery Co., Ltd. was founded in 1987 by President James Hsieh, focusing on developing, manufacturing and sales of various precision machines, and providing high quality and high performance products. Manford aims not only offer a variety of products, but also satisfactions to customer's needs. Our products are sold in five continents and customers are from fields of aeronautics, transportation, automobile, shoe mold, high-tech electronics and etc. The headquarter focuses on the front-end development of new machine models. R&D engineers participate in on-job training, constantly improving professional skills and continuing to innovate. In the R&D department, product development is based on high precision, high speed, larger machines, and simplified operation. A full-functional R&D team not only introduces advanced design into products, but also supplies machines on OEM/ODM base and provides special solutions to meet the variable requirement of users.



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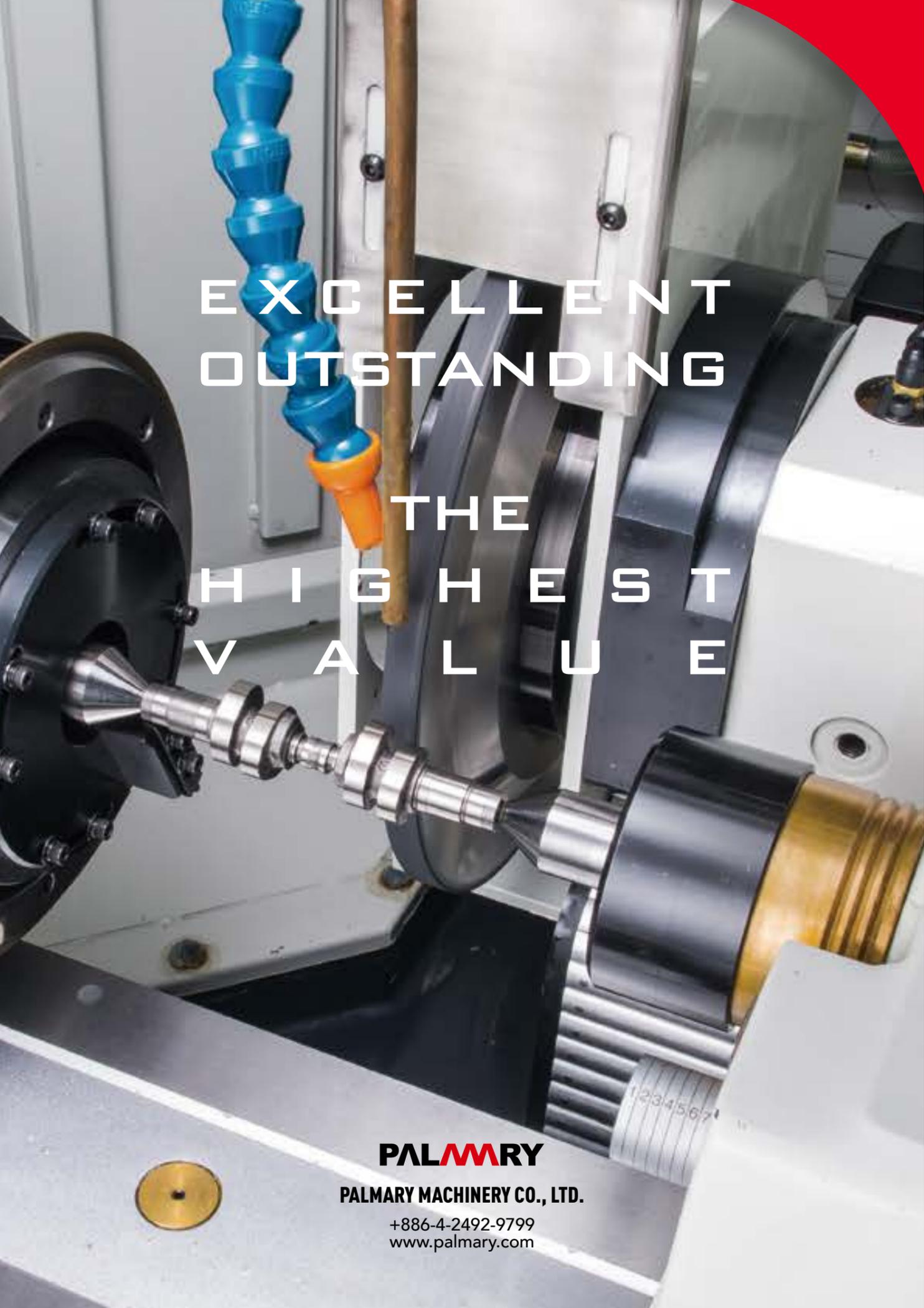


5-Axis Machining Center ⓘ

VU-620 offers high speed, high precision, reliable quality. B/C-axis rotary working table and linear guide ways provide excellent performance. It saves 90% oil and 80% electricity than the normal system.



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PALMARY MACHINERY CO., LTD.



**TAIWAN
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2020**

PALMARY Machinery Co., Ltd., was founded in Taichung, Taiwan since 1998. Two production bases with 20,000 square meters space, we produce kinds of centerless grinders, cylindrical grinders, internal grinders, vertical grinders & surface grinders. As a leading manufacturer of grinders in the world, we customize cutting edge grinders for our clients worldwide at reasonable cost, and insist on sustainable development of management strategy is our vision. We will keep improving with great effort to achieve our target "being the world top-grade grinding machine manufacturer".



**CNC Cylindrical Grinding Machine [CAM series]
- special shaped workpiece**

For various non-round shape workpieces grinding, such as camshaft or medicine punch, PALMARY developed this grinder with the benefits of structure stability, high accuracies performance and easy operation. The Fagor CNC controller is standard and the optional CAD/CAM software allows to transfer from workpiece-drawing to grinding-program easily. And, the angle control of spindle by C axis with accurate angle encoder is driven by build-in motor. The feed axis is driven by linear motor and equipped with DRO for high precision.



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SEYI is a leading manufacturer of medium-large servo presses. Main customers are manufacturers in various industries, including automotive, aerospace, medical instrument, agriculture machine, 3C electronics, construction material, hardware and home appliance. We assist our customers in gaining better position by providing creative and edging technology. Servo technology is one of the cores of our company strategies and we will keep focusing on their development. SEYI's servo presses have been supplied to many customers in different markets, including a well-known German high-end vehicle manufacturer and the famous America electrical car maker. SEYI was established in year 1962, and completed the Initial public offering in Taiwan Stock Market in year 2002 (4533 TT).



Straight Side Eccentric Gear Servo Press ⓘ

SDE series offer flexible stamping profiles to operate various processes for medium & large auto lightweight parts, especially suitable for drawn parts thanks to eccentric gear design. Its Hold Motion can fulfill hot stamping process.



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Founded in 1979, SOCO is the world's largest manufacturer of Machinery for the Tube Processing Industry. Since its beginning, SOCO dedicated Tube and Bar Cutting Machines. Later, we developed Tube Benders (Tube Bending Machines), Chamfering and Deburring Machines (Tube End Finishing Machines) and Tube End Forming Machines. As the founder and leader of this industry in Taiwan, SOCO has built its reputation by offering advanced technology and unsurpassed machine performance. SOCO's HQ is located in Taichung Taiwan, the main machinery industrial area in Asia. With several production facilities around the world, 25 branch offices and over 40 active partners in all major continents, SOCO continues its pursuit of excellence and leadership with the continuous support of its customers, partners and families. In our everyday living, you will find many products produced by SOCO's tube benders, fiber laser tube cutting machines and tube cutting machines.



**TAIWAN
EXCELLENCE
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Tube Bender Cell ⓘ

1. Automation: Tube Bending + Robot + Loading + Unloading
2. All Electric = No Hydraulic = 100% Speed Raising
3. SOCO Intelligent 3D Software + VR
4. LOCALTHINK: 14 languages interface



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SPEED TIGER PRECISION TECHNOLOGY CO., LTD.

Speed Tiger Precision Technology Co., Ltd. was founded in 1998. It is not only the largest cutting tools manufacturer, but also the first one that combined coating technology. We have up to 160 sales locations in 42 major industrial countries from Europe, America, Japan, etc. In 80s, Mr. Lee, Speed Tiger founder, knew that only developing our own brand to enhance the added value of products and R&D ability can truly carry out the vision: Be the best Asian manufacturer in cutting tools market, and assist enterprises in using high efficient cutting tools to produce high quality and innovative products. Since 2000, we have gone through 5 times expanding factory. By following the strict quality policy, Speed Tiger quickly became Taiwan's leading manufacturer in the tool industry within 20 years.



**TAIWAN
EXCELLENCE
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Spot Drill/Chamfer Mill + Insert Set ①

- a. For general chamfering and NC spot drilling.
- b. 4-edge design make it a cost-efficient solution.
- c. Stable center spotting and SH+ZrN coating improve tool life and performance effectively.



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SUN FIRM MACHINERY IND. CO., LTD.



SFM is leading brand for Flat-bed CNC heavy duty lathe. With more than 60 years of experience & expertise, SFM manufactures heavy duty CNC lathe which is affordable for ODM design upon customer's requests. With comprehensive and particular background experience for machining tire mould, steel roller, belt pulley, steel drill pipe and large-scale mould engineering, SFM has been endeavoring to manufacture giant flat-bed CNC lathe under the strong teamwork of R&D powerhouse. Every CNC lathe is strictly tested on quality. Tests are static test, moving test and practical cutting test before shipping to customers.



Multi-Axis Simultaneous Motion Multiple Guideways Heavy Duty Smart CNC Lathe ⓘ

Y-axis control can achieve X, Y, Z and C axes simultaneously machining, which allows the series can work on Y-axis off center milling, drilling and tapping as well as improving the machining accuracy from a regular 3 axes simultaneously machining processes under certain condition.



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Quality Assurance,
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TONGTAI MACHINE & TOOL CO., LTD.

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東台精機股份有限公司
TONGTAI MACHINE & TOOL CO., LTD.

Tongtai Machine & Tool Co., Ltd. is a machine manufacturer with the biggest scale among TTGroup's members, and also is the listed company with the highest revenue among Taiwan's machinery manufacturing groups. We were started with customized machines producing in 1969, and now we become the manufacturer with diversity production lines. Our diverse production lines which including vertical/horizontal machining centers, vertical/horizontal lathes, multi-tasking machining centers, boring & milling lathes, metal additive manufacturing equipment, PCB machine, and laser processing equipment, thus allowing us to provide a one-stop solution for any requirement. Furthermore, Tongtai is very experienced and capable of turnkey solutions and whole plant exports. Everything from the initial machine planning to the final machine processing can be designed and executed by Tongtai. With the sales service network over 85 countries in globe, our customers are able to reach our reliable services close by.



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Multi-Tasking Turning Center ⓘ

The TMS series is able to be applied for multi-process machining. Integrating swing B-axis and 5-axis simultaneous motion controller allow the operator to apply complex curve surface contouring.



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Quaser Machine Tools Inc. was established by Mr. Edward Shar and Mr. Samuel Shieh in 1991.

The Company name was established based on important principles for success in the machine tool industry - QUALITY & SERVICE (QUASER) and continuous DESIGN INNOVATION. Quaser established long term global relations with large OEM and International Distributor Partners in the Company's history. Quaser's collaboration with international customers, suppliers and distributors has produced unique new machine tool technologies, a strong international supplier network, loyal sales and distribution network and a large global customer base.

The Company's commitment to continuous training and development of employees has created the high standards of manufacturing productivity and efficiencies necessary to maintain a competitive advantage in the global machine tool industry.



**TAIWAN
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5 Axes ⓘ

In response to factors such as lack of work and increased personnel costs, it's to meet the high precision requirements of aerospace, automotive industries and complex workpieces.



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HUMANISM, INNOVATION, TECHNOLOGY



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www.yidacnc.com

奕達精機股份有限公司
YIDA PRECISION MACHINERY CO., LTD.

YIDA was established in April 2004 by Dr. Pu Hong-Yen. Based on the business operation spirits of humanism, innovation and technology, as well as three main appeals of "customers first". YIDA has been adhering to the three principles of "teamwork, sustained product development, and relentless quest for high quality". Professionalism, attitude and integrity are the fundamental requirements imposed by YIDA on all employees. Spontaneity, aggressiveness, sharing and teamwork are the working attitudes of YIDA's employees. Every touch of innovation brings some colorful taste to the seemingly hard and cold machines. It is essential to apply the intelligence and automation to machining tools during "Industry 4.0" or IT era. YIDA will focus on agile manufacturing for the next 10 years, seeking right method out to response customer request rapidly.



**TAIWAN
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Horizontal Machining Centers ⓘ

MH-400PLUS offers simple operation and versatile machining job areas. It can be applied to machining components at watchmaking, automotive or motorcycle, 3C components, and aircraft.



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With over 40 years experience, You Ji has obtained customers' support in design and quality of machine. There are many machines to meet customers' different needs. Table diameter from Ø200 to Ø8000mm. You Ji awoke to the opportunities that were created for a variety of new products and business models in the market place and started the machine tools manufacturing business since 1978. You Ji is the first machine manufacturer to have passed CE and EMC and to have begun sales in the European market, and is the biggest vertical lathe and floor borer manufacturer in Taiwan.



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VTL+Y CNC Powerturn Y Vertical
Turning Center ⓘ

The design of longer Y axis travel can meet a variety of component and complex machining application. All in one function, including turning, milling, drilling, boring, tapping and grinding.



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Speed Tiger Precision Technology Co., Ltd. was founded in 1998. It is not only the largest cutting tools manufacturer, but also the first one that combined coating technology. We have up to 160 sales locations in 42 major industrial countries from Europe, America, Japan, etc. In 80s, Mr. Lee, Speed Tiger founder, knew that only developing our own brand to enhance the added value of products and R&D ability can truly carry out the vision: Be the best Asian manufacturer in cutting tools market, and assist enterprises in using high efficient cutting tools to produce high quality and innovative products. Since 2000, we have gone through 5 times expending factory. By following the strict quality policy, Speed Tiger quickly became Taiwan's leading manufacturer in the tool industry within 20 years.



ST2 ①

ST2 combines step-tool grinder, grinding wheel dresser, grinding machine, and automatic inspection machine into one station.



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元駿國際有限公司
LV INTERNATIONAL CO., LTD.

Established in 1995, LV International specializes in the design and manufacturing of various tungsten carbide end mills. In 2014, LV International set up its new factory in Taichung Industrial area. In order to provide high precision cutting tools to customers, our production line equipped with the world famous CNC tool grinders which made in Germany, Japan, and Australia. Including the MAKINO SEIKI CNC tool grinders "MG30 & SS7" which emphasis on its high precision and outstanding quality control management system. We also choose high-quality carbide rod from Japan & Germany. To control the quality and increase the productivity & efficiency, we set up coating department with three coating machines & one drag polishing machine. All of these combines with our rigorous quality control system & ISO 9001 international standards to ensure each LV product will fully meet customer's expectations.



TAIWAN EXCELLENCE 2020



Variable End Mill ⓘ

Excellent wear resistance and tensile strength by adopting high-quality carbide rod. The tool vibrations are canceled by making the unequal division at the bottom of the blade.



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New generation conveyer dyeing machine

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ACME MACHINERY INDUSTRY CO., LTD.



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ACME means outstanding, our logo looks like a dragon boat which symbolizes team work, through everyone's cooperation to drive the boat to a permanent future. By professional technology and practical attitude, we strive to achieve perfect products; by innovation and change, we try to segment market. Once we launch a new product, we give a different Chinese opera face to symbolize it. After 20 years long research, we launched a non-traditional AM-ICD Intelligent Conveyer Drive High Pressure Constant Speed Dyeing Machine, which can save water, steam, energy, chemical consumes and effluent by more than 65~75% than traditional dyeing machines. Therefore, we give a green color opera face to emphasize this machine's core value-Green Economy. To improve the company image, we opened office in Europe to operate with the brand of ACME Europe last year.



AM-ICD Intelligent Conveyer Drive High Pressure Constant Speed Dyeing Machine ⓘ

This worldwide-patented machine can not only save water, steam, energy, chemical and reduce effluent by more than 65~75%, but also reduce carbon emission and improve green economy. It's an invention to rewrite dyeing machine history.



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Service First, Customer Foremost



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聚昌科技股份有限公司
ADVANCED SYSTEM TECHNOLOGY CO.,LTD

AST was founded in 2002. The core technologies are "high-precision E-beam evaporator equipment, high-density plasma etching equipment, and photoresist coating and developing equipment." We are currently focusing on LED related and power semiconductor component customers and we will investment in semiconductor device development in future. We can not only provide professional equipment and related process technology services but also customized equipment development according to customer's special needs in the production process of Si-compounds semiconductors or active and passive components. At the same time, we have established strategic alliances with ITRI, NCTU and NTHU to enhance the depth and breadth of R&D.



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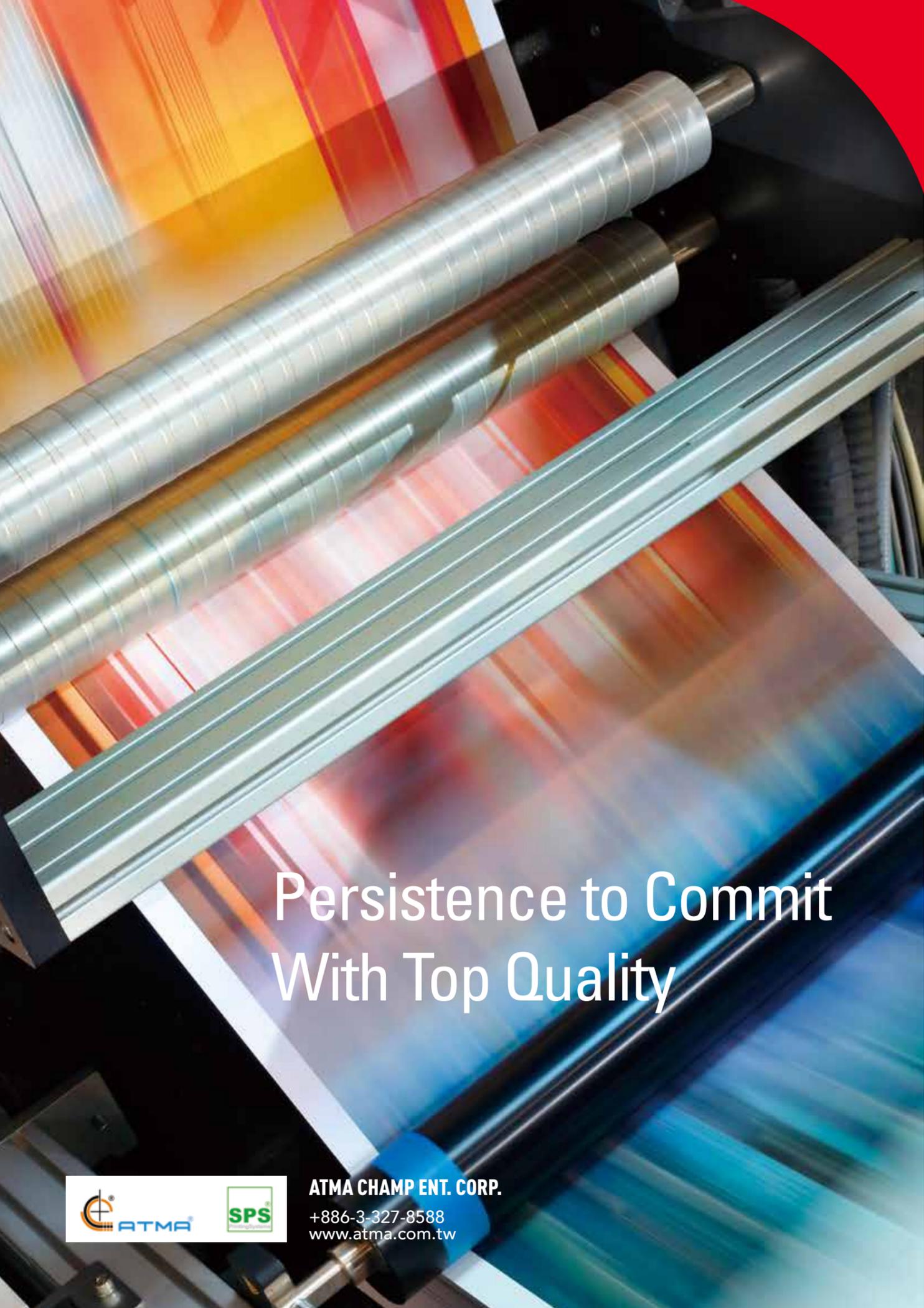


ATOM 6500C

ATOM 6500C is used in the 4/6" wafer photoresist coating process. It is equipped with a "Reduced Resist Coating" technique, which reduces the minimum PR volume down to 0.65 CC and usage by up to 50%, and produces 30% more than competitors.



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ATMA was founded by Mr. T.C Chen in 1979, and has orientated by self-brand name ATMA as "professional supplier of screen printing equipment", endeavoring on R&D, fabricating and marketing various types of screen printing machines over seventy countries. ATMA devoted into screen printing technique, value innovation and breakthrough, coordination with customer to improve production, and providing the most competitive products. Various new models of fully automatic line have been launched every year, all those were granted high reputation from customers. ATMA is specialized in screen printer & ink jet, marketing over 70 countries and gained 170 patents worldwide, implement TQM to achieve 23th National Quality Award. Now ATMA is a global supplier of the renowned customers as Apple, Corning, Siemens, Philips, etc.



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Automatic Cover Lens Screen Printer (Tray Carrier) ①

Overall market is reduced, semi-auto relies on high labor but low productivity, automation can save 3/4 labors & 4 times faster, enhance accuracy within 25 μ m. It's the best production tool against slim profit.



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Established in 1980, Aurotek has been upholding the belief of honesty and making the best better in our managerial philosophy. From distributing mechanical transmission, driving components to self-developed automation devices, we have now established our own brand; Aurotek continues solving customers' needs. With Aurotek's automation and robotics technology, we have always enriched and satisfied various customers' need. For decades, Aurotek uphold the mission of providing a complete automation solution to optimize the value of end users and working to be the leading system equipment provider. We will be able to fulfill our brand vision of by using the critical thinking & visionary strategy to accomplish better innovation and life.



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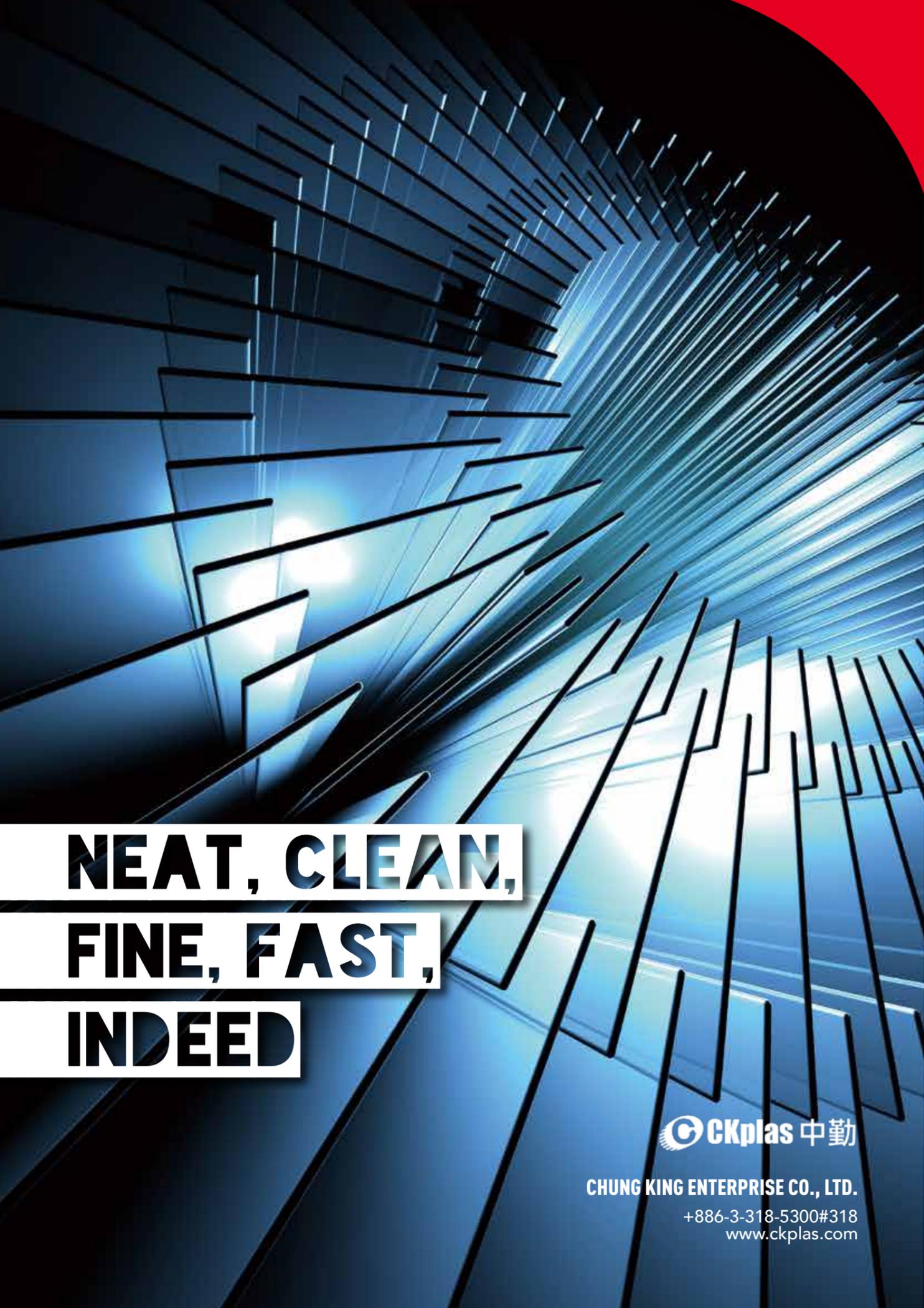


In-Line PCB Separator AUI 3000-UCD

- a. Dual Spindle System
- b. Dual Carrier Module
- c. Upward Dust Extraction System
- d. Magnetic Nozzle Module
- e. Offline Editing Program
- f. Manufacturing Execution System (= MES)
- g. USB Backup System



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CKplas, a professional manufacturer which devotes to Opto-Semiconductor field and specializes in wafer, reticle and glass automation process for storage and transportation. Opto-Semiconductor customers are on the way to smart manufacturing which is industry 4.0 due to innovated technology, such as IOT and robot. CKplas is also playing a critical role in this era and provide corresponding technology and solution instantly while facing process upgrade from customer with environmental change. "Quality product, client satisfaction" has always been our belief of and promise to customers since established in 1988. As such, all products we produces obtain great appreciation. By using integrated strategy to elaborate the value of our know-how, we create the uniqueness for customers. Being effective and efficient is what we have been looking for.



**TAIWAN
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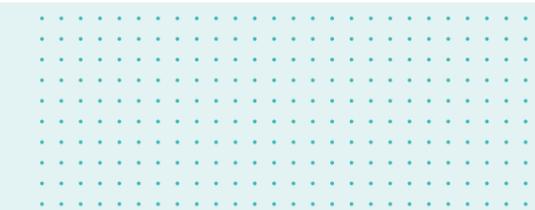


**300mm Front Opening Light
Cassette Pod** ⓘ

Automated transportation of top flange, bottom plate and support AMHS and AGV. It reduces particle with innovative hermetic design which avoid risk of wafer drop or damage due to human error.



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and "ALL WIN"*

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C SUN MFG. LTD.

C SUN was established in 1966. With its own brand "C SUN" developed five core technologies: hot process, UV process, film coating process, plasma process and wet process. C SUN provided PCB, FPD, SEMI, PV, LED, printing, painting, footwear and other industry process equipment. These process equipments have high efficiency, energy saving, intellectualized characteristics that have been marketing to Taiwan, China, Japan, South Korea, Thailand, Singapore, the United States, India, Malaysia, Vietnam, and Russia, more than 20 countries. C SUN holds business philosophy was "all win" as the company culture spindle, accompanied by enthusiasm, precision, speed for the direction of execution. In recent years, together with the development of intelligent production process and green energy saving technology, we spent to develop the technologies that create greater value for customers to create a win-win situation.



TAIWAN
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Inner Layer Auto UV LED Exposure System ⓘ

Auto UV LED exposure system is designed for PCB process with many smart features and developed mechanisms that satisfies almost requirements of mercury-free, low-energy, environmental protection.



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Ta Liang Technology CO., LTD. was established in December 1980. At first, we mainly produced diamond composite cutters then the company changed its focus to manufacturing machines for optical tooling. In 1985, the company successfully developed engraving and milling machines. Then, PCB routing machines and drilling machines became the company's major products in 1995 and 2001, respectively, which also enabled the company to enter the field of PCB equipment. Finally, in 2008, the company has successfully entered the display panel sector by introducing glass grinding machines.



TAIWAN
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CNC PCB Drilling Machine ⓘ

With TL controller, two platforms with weight-reduction design, linear motor operates silently, and motoring system, this product can enhance efficiency, and also has a professional team to suggest the best solution.



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AUTOGRIP MACHINERY CO., LTD.



**TAIWAN
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2020**

AUTOGRIP Machinery Co., Ltd. is a specialist manufacturer of power chucks and rotary cylinders in Taiwan. Since 1989 we devoted the company to providing high rigidity, high precision quality products. The product lines include a complete set of 79-inch and under series, and related products such as Power Chucks, Special Purpose Power Chucks, Collet Chucks, Stationary Chucks, Synchronous Clamps, Facing Heads, Rotary Cylinders, Rotary Valve/ Rotary Joint and Accessories.

AUTOGRIP Machinery is presently developing an Extra Large Chuck series slated for market in the near future. AUTOGRIP works hard to satisfy our customers. We believe in taking care of the highest customer needs and diversify accordingly.



Swing Type Three-jaw Chuck ⓘ

3W series are special purpose power chucks with innovative ball lock design for gripping tapered casting parts, with self-centering function. It's anti-dust, seal proof and easy to maintain.



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Taiwan Chelic Corp Ltd was established in 1986. Our main products are pneumatic automation components, including FRL, pneumatic/hydraulic cylinders, solenoid valves, air control valves, vacuum ejectors, fittings, assembly pick and place robots and hydraulic components...etc. These pneumatic products are widely used in various manufacturing sectors, maintenance equipment, automation equipment, medical instrument and education equipment etc. Taiwan Chelic Corp Ltd., which has successfully attained ISO-9002 certificate in March of 1995, achieves quality consistency and further up-graded the quality level so as to satisfy customer's need. We have got ISO-9001 certificated in April of 1998 and official put the ISO-9001 to our quality management system and to be the first factory in Taiwan which use ISO-9001 in pneumatic components.



Modularized Vacuum Ejector Manifold ⓘ

VCK manifold combined with versatile valve functions and modular base, which provides controlling, filtering, vacuum ejecting and breaking, sensing, energy saving, silencing and valve modules.



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- 🌐 www.chelic.com



All-round Strategy for a Brighter Future



GreenTrans

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+886-3-478-3191
www.greentrans-agv.com

中華汽車工業股份有限公司
CHINA MOTOR CORPORATION (CMC)

China Motor Corporation started out as commercial vehicle manufacturer in 1969, dominating Taiwan commercial vehicle market and cooperating with Mitsubishi Motors to produce and distribute a variety of best-selling models. We put our business philosophy: harmony, innovation, top, sustainability into practice for comprehensive reformation. In order to improve production efficiency and quality, we promoted the Set Parts Supply in 2003 and Unmanned Material Supply system by AGV in 2010, to realize smart manufacturing. With years of experience in digital factory, production line planning and automation, we started to develop our AGV business in 2011. In the future, CMC will continue to develop our core business including passenger, commercial and new energy vehicles, and to support new energy and innovation business as our all-round strategy for a brighter future.



TAIWAN
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Mobile Robot Series ⓘ

China Motor Corporation masters R&D, manufacturing and other technologies, allowing us to customize and adjust specifications. All these abilities create the uniqueness of CMC GT mobile robot series.



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Great, Motion, Technology



GMT GLOBAL INC.
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www.gmtlinear.com

高明鐵企業股份有限公司
GMT GLOBAL INC.

Established in 1994, GMT Global Inc. focused on the manufacture of precision molds and mold components in the early days of its development. In order to satisfy diversified requirements with regard to manufacturing facilities in machine tool, special purpose machinery, automation apparatus, photonics, laser, optical fiber and semi-conductor industry, GMT offers diverse product categories such as Support Unit, Coupling, Linear Slide Rail Set, Manual Positioning Stages, Motorized Positioning Stage, Alignment Stage, XY Table, High resolution positioning stages, Microscope positioning stages and so on.

To embrace the idea of "building an intelligent automation realm and achieve the industrial convenience", GMT keep on growing the depths and width of its products. With clear vision of steps, to develop and design with high technology; to produce high precision and great motion products; to serve Systems Integration Needs of Automation Equipments, and move toward to the World Grade solution provider supply precision motion system integration, GMT people move forward base on our believe. We devote to market Great Motion, not only dedicated itself to development, improving quality and delivering products on time, but also distributing its products all over the world under the GMT brand with the hope of helping the manufacturing industry to build up smart factories, gradually moving towards Industry 4.0.



**TAIWAN
EXCELLENCE
2020**



Precision Electric Cylinder ⓘ

The miniaturized, low-assembly, built-in sensor can be used with open loop control or with closed loop control. Patented with anti-skid track, it can be used at high speed. Motor built, space-saving.



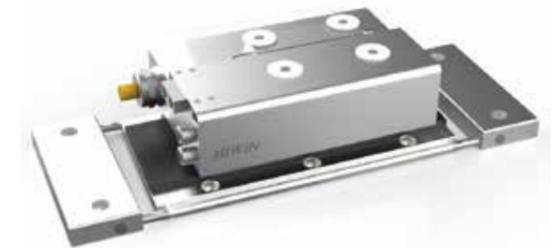
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大銀微系統股份有限公司
HIWIN MIKROSYSTEM CORP.

Hiwin Mikrosystem Corp. has been dedicated to the research and development and manufacturing of components, systems, and equipment for linear motion and positioning control. With a complete product Line-up including different types of robots, linear motors, planar servo motors, torque motors, medical/industrial, consumer linear actuators, magnetic measuring systems, and high speed precision positioning platforms. Hiwin Mikrosystem Corp. was certificated ISO 9001, ISO 14000 and TOSHMS. Hiwin Mikrosystem Corp. product applications span many precision industries such as semiconductor, biotech, medicare automation, machine tool and construction. Hiwin Mikrosystem Corp. was awarded several national awards and was nominated as main Taiwan Mittelstand tutorial enterprise. Our philosophy of management is to provide high value added products to customer through the practice of innovation, quality and service.



C3 ⓘ

Hiwin Mikrosystem uses heat dissipation structure of water-cooled motor and dual cooling design of the forcer/stator to develop a direct-drive precision cooling linear motor-C3 to meet market demands.



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Exploring the Infinite Possibility of Technology for Life

 TBI MOTION

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www.tbimotion.com.tw

全球傳動科技股份有限公司
TBI MOTION TECHNOLOGY CO., LTD.



In the year 2010, "TBI" and "COMTOP" was integrated as TBI Motion. Since then TBI Motion has endeavored to provide a variety of industrial solution for our customers to choose from in linear motion industry. TBI MOTION creates advantageous environment through collaborative work and keeps being innovative to satisfy the needs of our customers. With 30 years of expertise and continuous innovation, TBI Motion Technology has developed a complete production line of linear guides, ball screws, ball splines and actuators. We believe in "innovation, excellence, organizational growth, customer satisfaction and sustainable development". This philosophy will help us achieve our vision, "Be the benchmark of world's motion industry".



Miniature Ball Screw for Electric Gripper ①

Help to overcome machine design problems:

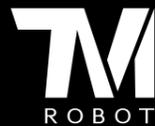
- High accuracy: 3D bridge design, XCKX0402 can achieve outstanding performance. With the special engineering materials, the circulation system can absorb noise during operation. Its unique circulation design guarantees higher rigidity and better control of thermal deformation. With these characteristics, XCKX0402 has stable performance and accuracy in rotating.
- Longer travel distance and wider range: With XCKX0402, electric grippers can attain better speed and distance in low RPM. Because of its unique modeling, it reduces space to increase the flexibility of machines.



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Closing the gap



TECHMAN ROBOT INC.

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達明機器人股份有限公司 TECHMAN ROBOT INC.

Hi! We're Techman Robot
We are a leading collaborative robot and vision technologies company, dedicated to improving the world of work for businesses and their people through robotic technology applications.

We truly believe the right robotic technology applications can make a world of difference to performance, efficiency and productivity, even creating a lasting positive impact on whole industries. We think that every business should have access to beneficial technology to advance their position.

Therefore, we are determined to use our technological knowledge and skills to create all things smart and simple, to break boundaries, solve challenges, and meet industries' needs.

At Techman Robot, we close the gap for every business.



**TAIWAN
EXCELLENCE
2020**



TM12 ⓘ

We have managed to deliver the world's first collaborative robot with built-in vision which perfectly integrates hands, eyes and brains into one system, which impressively improve the easiness of using industrial robots and remarkably reduce the cost and deployment time.



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Diversified Design and Manufacturing Capabilities



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ASHUN FLUID POWER CO., LTD.

ASHUN was established in 1984 without losing sight of its maxim of "quickly and reality" or keeping promoting its production equipment to combine with the hi-tech computer technology enable to reach and improve the working efficiency and quality of products. Our brand has established a fine reputation worldwide. Indeed, ASHUN is a symbol of quality. Our professional R & D team develops new machines continuously to meet our customers' needs. ASHUN achieves customer satisfaction by providing solutions for the problems and challenges of growing conversion industry. We have been advancing towards the goal of producing high-end products since its establishment. During the process, we have built precision processes step by step, introduced advanced equipment, and made the products more perfect, laying a strong foundation for our own brand ASHUN.



TAIWAN
EXCELLENCE
2020



Wisdom Piston Accumulators ⓘ

Intelligent accumulators effectively offer the function of remote monitoring, which can be applied in wind applications and accumulator stations of steel plants.



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The Only Control Valve Manufacturer 100% Made in Taiwan



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進典工業股份有限公司
JDV CONTROL VALVES CO., LTD.

JDV Control Valves was set up in 1975 and current invested capital is NTD 272.4 million. JDV is the only one control valve manufacturer in Taiwan who insists 100% made in Taiwan, this allows JDV to have good reputation in both domestic and overseas markets by self-owned brand in the fields of petrochemical, oil refinery, steel refinery, mining, power plant, water treatment, and solar energy industries. Under the global issue of environmental pollution, JDV develops products to be used in severe conditions -196~800 Deg C, up to 2500LB pressure rating and at the same time to satisfy the environmental protection regulations. Combining the beauty element to product design and the advanced technique of H.V.O.F coating, JDV is actively and intensely engaged in providing customer service and brand promotion. This makes JDV unique and enables to create their blue sea. With the effort of each JDV staff, JDV has become the pattern of Taiwanese small and medium-sized enterprises in the fields.



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EXCELLENCE
2020**



**JTDE Series Double Offset
Butterfly Valve** ⓘ

Revolutional design, certificated by most important international standards, included the Fugitive Emission Test complied with ISA 93 and ISO 15848-1, and Fire Safe Test according to API 607.



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*Innovation,
Service
and
Contribution*



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TONG CHENG IRON WORKS CO., LTD.

Tong Cheng Iron Works Co., Ltd. has been manufacturing air compressors for more than 64 years since its foundation in 1956. We have good capability in development and manufacturing and we are ISO9001:2015 certified. We have complete product lines and all types of air compressors to meet the requirements from the market. We currently have overseas subsidiaries in China, Thailand, Vietnam and Indonesia to sell, maintain and promote SWAN brand air compressors. Innovation, Service and Contribution are our core values. We will keep on providing quality products and satisfactory services to customers and making SWAN a valuable brand.



TAIWAN
EXCELLENCE
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Oil-less Cabinet Type Air Compressor ⓘ

SA-202CD is designed in oil-less, clean air and less space. Customer is able to buy air dryer and air compressor (with stainless air tank) separately. Air dryer achieve lower dew point.



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Growth, Challenge, Unending.



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東元電機股份有限公司
TECO ELECTRIC & MACHINERY CO., LTD.

Founded in 1956 for motor production, TECO Electric & Machinery Co., Ltd. has evolved to a major business group, spanning heavy electric equipment, home appliances, information technology, communications, key electronic components and parts, infrastructural engineering, financial investment, dining, and services, with its business scope covering over 100 cities in more than 40 countries in the five major continents. In the future, in addition to continuing profound cultivation of its core businesses, TECO will develop in the direction of businesses with high added value, such as smart products and systematic solutions and dedicate to the expansion of hi-tech businesses, with the objective of "energy conservation, emissions reduction, Intelligence, and automation," in order to build up a macro-perspective and high-quality world-class brand.



Intelligent Monitoring NEMA High Power Density Motor ⓘ

- a. High Power Density & Energy Saving
- b. NEMA Premium Efficiency
- c. Innovative Design
- d. Improved rigidity & the cooling capacity
- e. Supervision control
- f. Short delivery
- g. Global technical support



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TAIWAN EXCELLENCE 2020

Walrus Pump Co., Ltd is the leading manufacturers of pumps located in Taiwan since 1967, our value is to satisfy customers with a range of comprehensive products, innovative technology and superior quality, value and service. We continuously invest in new product research and development to bring you the best in the industry. Walrus established two primary factories in Taiwan, which located in Taipei and Kaohsiung. We invest the state of art CNC facilities to upgrade the quality of our manufacture. Industrial water pump products (TPH, TPHK, TPAK) were tested to ensure the quality and reliability. Currently, Walrus is already the number 1 brand in Taiwan's home use market, its products are exported to over 40 countries, and it has received 5 global certifications: European CE & RoHS, Canadian CSA-C/US, Chinese 3C and ISO9001. Now, Walrus is laying out regional markets in the US, Mainland China, Japan, Europe, India, Southeast Asia, Canada, Brazil, Australia, etc.



Immersible Pump ⓘ

For transferring liquid used in machine tools. Backwater designs that even if the liquid leaks, leakage stay inside the water tank. It can avoid splashing liquid damaging the motor and would be a safer design.



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Make Water on Earth as Clear as Ever



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EVER-CLEAR ENVIRONMENTAL ENGINEERING CORP.

Ever-Clear is one professional industrial wastewater treatment company and provide total solutions to worldwide customers since 1999. Due to higher demand in wastewater treatment technology and stricter environmental regulation, Ever-Clear has dedicated to innovative technology research and long-term cooperation with ITRI and NCKU. Ever-Clear has scaled up many patented wastewater treatment equipments and technologies that can be applied to various industries. Moving forward with our company establishment philosophy in the past two decades, Ever-Clear has applied our advanced treatment technologies and got success in 300+ references all over the world. We hope that through our efforts we may bring some positive contributions to make the environment better.



**TAIWAN
EXCELLENCE
2020**



FBR-Fenton Reactor ⓘ

Compared to conventional treatments, FBR-Fenton is one unique designed reactor and also one environmental friendly technology with high efficiency and low operational cost. It is a highly competitive product targeting advanced COD reduction market.



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Honesty, Stability, Innovation, Sustainable Management



吉輔企業有限公司
GIFU ENTERPRISE CO., LTD.



TAIWAN
EXCELLENCE
2020

Gifu Enterprise Co., Ltd. is established in 1979 and specialized in automatic tool changers. It has played a leading role in high-end customized automatic tool changers in the world. Meanwhile, Gifu is also the first tool changer manufacturer that acquired ISO 9001 quality management certificate and implements GFPS (Gifu Production System) in Taiwan. Gifu also awarded several national awards, such as Innovation Research Awards, Economics Ministry Industrial Technology R&D Achievement, SBIR R&D Achievement, Innovative Certificate of National Award, which proves that Gifu's R&D proficiency is affirmed by many associations. In the future, Gifu will keep developing more high-end products and broaden the worldwide emerging and blue-sea markets based on the past experiences and innovative R&D core to market the "MIT" automatic tool changers to the world and gain the reputation of "world machine supplier" for Taiwan.



Intellectual Multi-layer Tool Storage Management System ①

It has 3 new patents including: AI concept design- with 6 intelligent systems speedy movement with accurate position, vertical array design reduces 75% space, eco-friendly, aesthetic and energy efficient cover design.



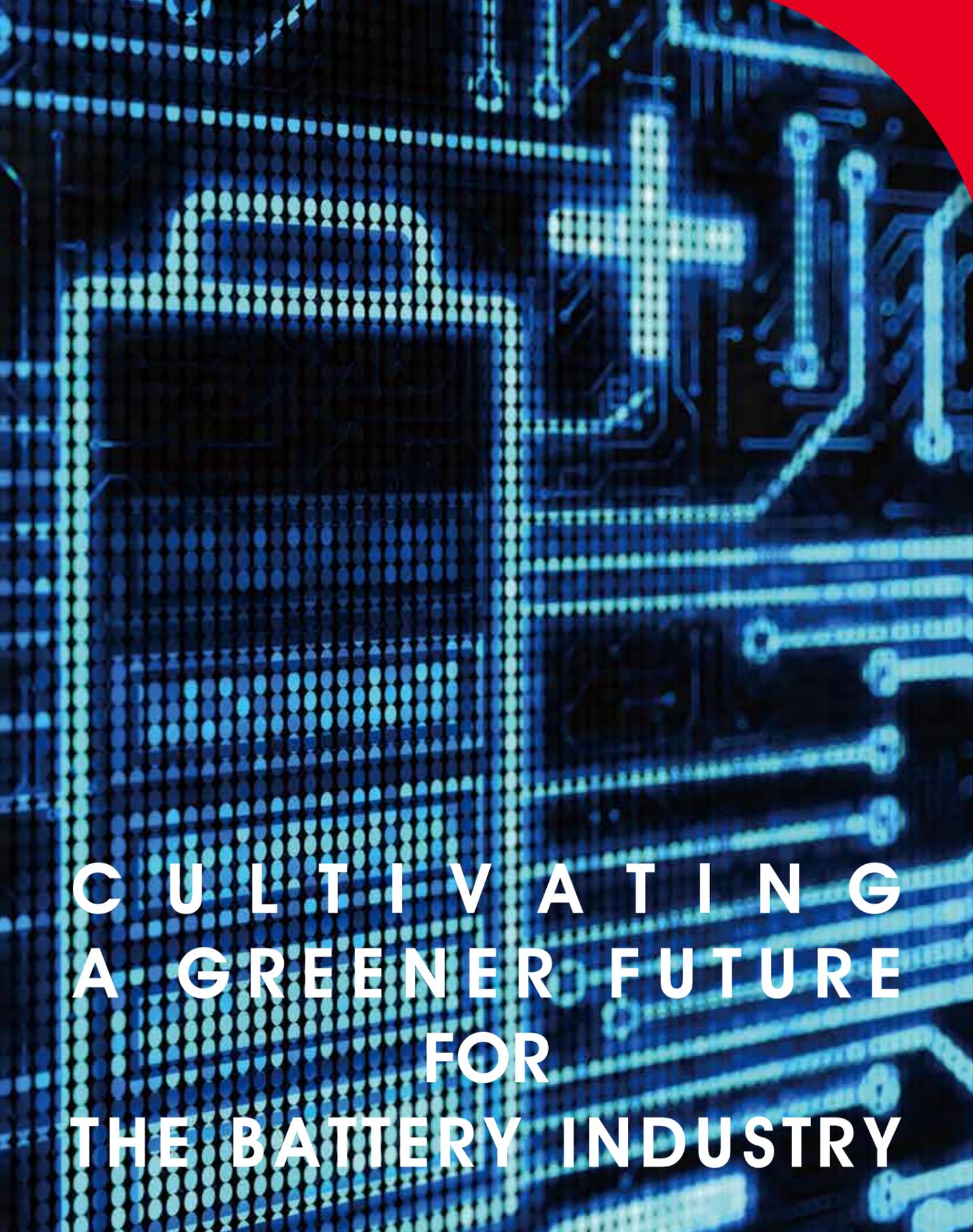
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CULTIVATING A GREENER FUTURE FOR THE BATTERY INDUSTRY



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承德科技股份有限公司
CHEN TECH ELECTRIC MFG. CO., LTD.

Chen Tech Electric is the leading brand in battery test equipment in Taiwan. Since 1984, we started to offer a variety of precise, reliable, and affordable equipment to more than 350 worldwide clients, including major battery manufacturers, certification companies, and EV makers. Also, we deliver total solutions to our clients, from battery research, production line and quality check, to used battery state of health evaluation. Our commitment is to promptly response to clients' requests, and flexibly tailor our products and services to meet their unique requirements. As a member of the global village, Chen Tech is committed to developing advanced testing technologies and integrating information technologies, providing our clients a eco-friendly battery production and testing solutions.



**TAIWAN
EXCELLENCE
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Lithium Battery State of Health (SOH) Rapid Evaluation Solution

The solution takes only 60 seconds to evaluate State of Health of used EV batteries, and the accuracy is over 92%. It significantly reduces the cost to re-use EV batteries on 2nd life applications.



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Control Your Operation Status Anytime & Anywhere



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DEI ENERGY SOLUTION TECHNOLOGY CO., LTD.

DEI Energy Solution Technology Co., Ltd was founded in the 1991 and committed to continuous operation with the concept of "Satisfied customers, Happy employees and Proud companies", and absolute quality and absolute service to customers. With the full efforts of all of us, we are now a company integrating R&D, manufacturing, sales and service management and also a leading company to integrate energy saving product with Wi-Fi connection, IoT Function, Big Data analysis, and use AI intelligence analysis in the field of energy conservation. In the future, we will continue to develop energy-saving products to combat global warming, which is also the goal of never giving up as a citizen of the earth.



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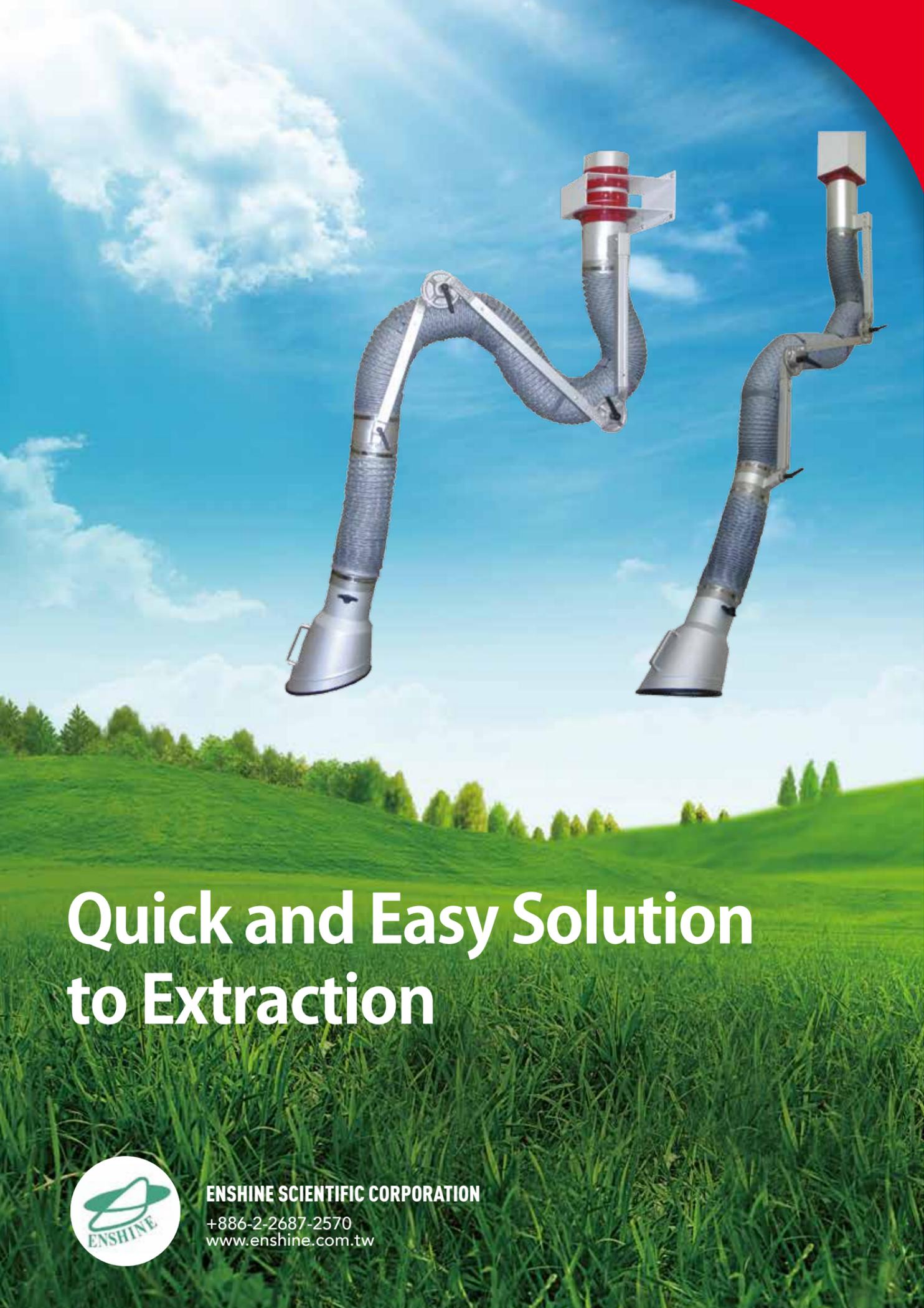


IoT Big Data Cold Room Control System ⓘ

DEI-868i IoT Big data cold room control system is the only self-developed and manufactured Taiwan products with temp. and humidity control, door alarm device, and with both IoT and mobile device APP.



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Quick and Easy Solution to Extraction



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益翔科技有限公司
ENSHINE SCIENTIFIC CORPORATION

Enshine is a professional equipment manufacturer, established in 1995. The main fields are for the laboratory, clean room, air pollution prevention and safety equipment. Our business guide includes sincereness, professional, practice, and innovation, while the products range from emergency shower & eyewash, extraction arm, mobile filtration system, air pollution exhaust & control equipment, clean room equipment, and lab equipment. At the moment, Enshine focuses on promoting our high quality products to international markets, expects to grow steadily and achieve success in the near future.



6" Extraction Arm Hood ⓘ

- a. Excellent extraction function
- b. Easy operation: remove and position
- c. Easy to adjust: capture the source of pollution
- d. Easy to set after operations
- e. Various fixed types: wall and ceiling mounted



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AND SERVICE



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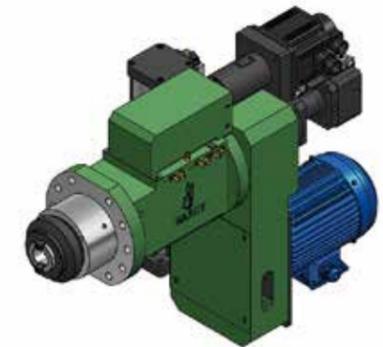
翰坤五金機械有限公司

HANN KUEN MACHINERY & HARDWARE CO., LTD.



**TAIWAN
EXCELLENCE
2020**

Hann Kuen Machinery & Hardware Co. Ltd is a professional manufacturer of drilling, tapping, boring/milling spindle units, slides with servo and hydraulic types and machinery accessories with nearly 30 years of experience. Hann Kuen offers range of product specifications to meet the customer requirements and special customization products are also accepted. Our product casting material is FC30, stress relieved for the deformation-free performance, high precision and maximum stability. The bearings in spindle are made from Japan and Germany, Hann Kuen maintains the accuracy strictly under 0.003mm. Hann Kuen aims to offer quality products and efficient service in flexibility to our clients in different needs. "Innovation, Quality and Service" are the principles that Hann Kuen holds highly.



**Drilling/Tapping Spindle Head-Servo/
Flange Type/with Unclamping Cylinder** ⓘ

Increasing tool changer speed, and improve tools disassemble time to solve traditional operation lack way. Every year brand management fee is around 3.7-5.3% of total turnover.



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TAIWAN EXCELLENCE 2020

應能科技股份有限公司
INNER ENERGY TECHNOLOGY CO., LTD.

Inner Energy Technology Co., Ltd. established in 2015 which is committed to promoting green energy source of environmental protection, specializing in super capacitor module, lithium iron phosphate battery modules, system integration experts. In addition, Inner is the only one company whose products are all highly customized from design to produce. Our products also be used widely in many industries : transportation, wind power generation, solar power generation, electric bus, AGV, UPS and clean room monitoring system etc. Before established in 2015, we have culture first and follow it until now. Upholding the spirit: Design - German (pragmatic and reliable), doing things - Japanese (rigorous and high quality), Communication - Taiwanese (enthusiasm and kind). We adhere to all products are customized, engaged in pre-negotiation, planning and design to final assembly, each step is doing specifically for customers.

The World's First AI Battery Module



AI Smart LiFePO4 Battery Module ⓘ

The world's first AI module: through AI technology combined with big data analysis to predict the remaining life of the module and inform to the customer.



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大同股份有限公司
TATUNG CO.

Established in 1918 and headquartered in Taipei, Tatung Company has evolved into a conglomerate from its substantial heritage. From its inception, Tatung has abided by its founding values of "Integrity, Honesty, Industry, and Frugality". The Company is listed on the Taiwan Stock Exchange (TSE) under the trading code of 2371. Tatung Company holds 3 business groups, which include 8 business units such as Power Equipment BU, Motor BU, Smart Meter BU, Solar System BU, System Integration BU, Electrical Engineering Division, Advanced Electronics BU, and Home Appliances BU. Being a leader in the field of energy saving and green energy creation, Tatung has pioneered in the development of national smart grid in Taiwan and many smart IoT solutions.



Hybrid Wireless Module Cloud IoT Intelligent Motor Sensor ⓘ

- a. All-in-one Module
- b. Easy Installation Design
- c. Hybrid Wireless Communication Structure
- d. 6 Sensing Technique
- e. Active Abnormal Alarm Notification Service
- f. Maintenance Notice
- g. Azure Cloud Monitoring System



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