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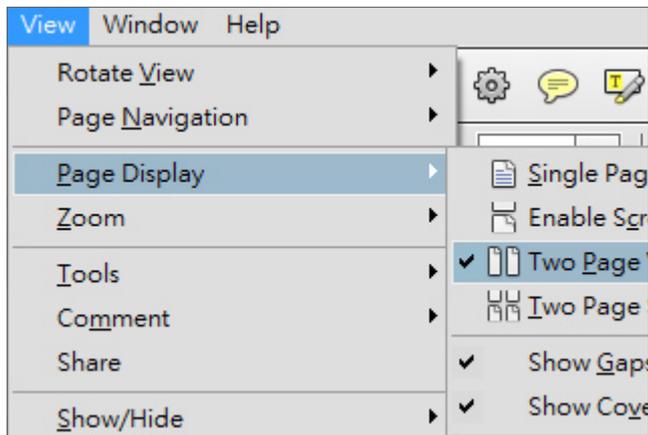
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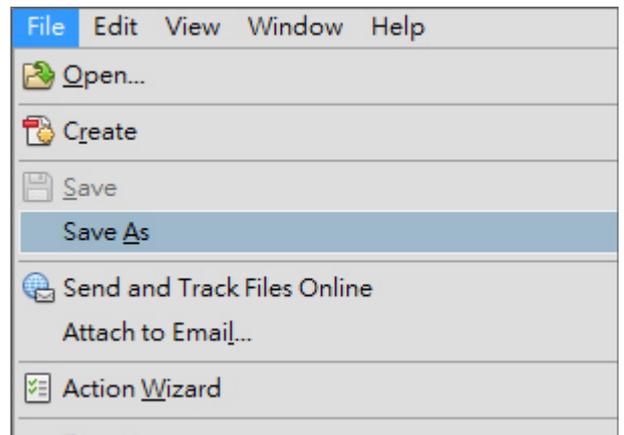
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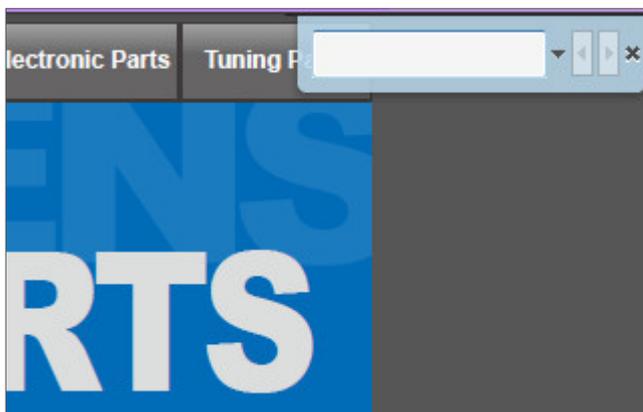
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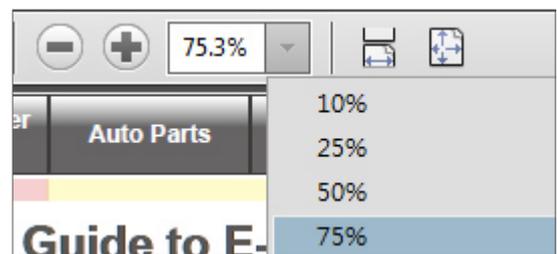
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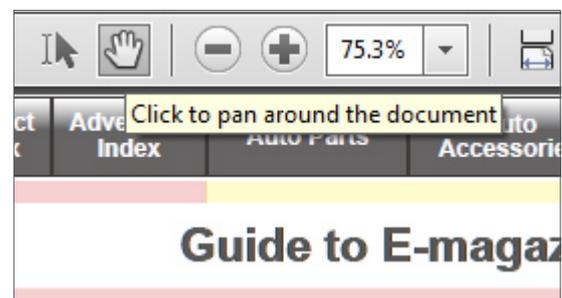


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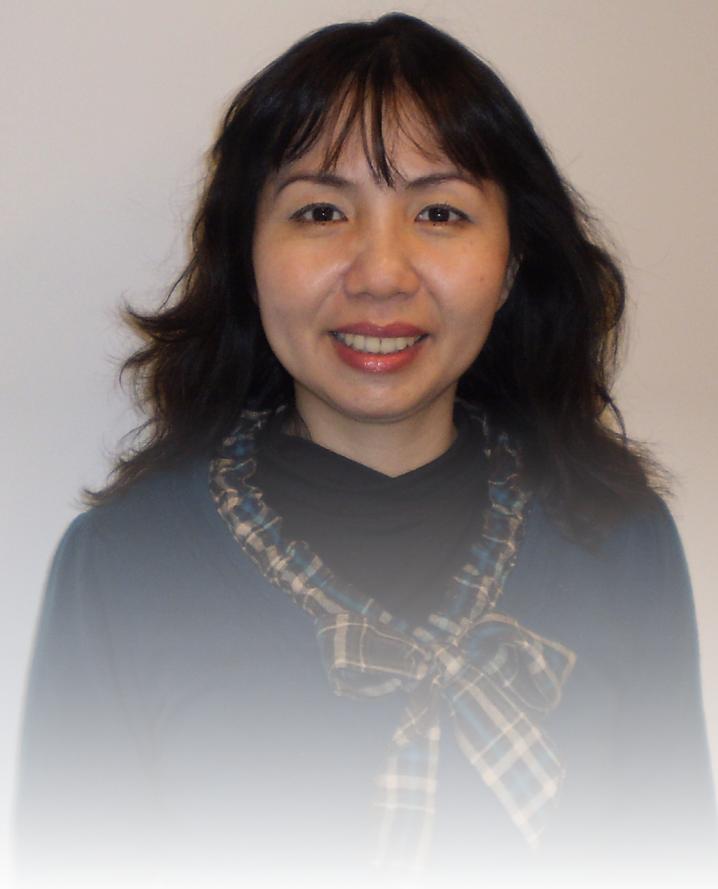
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F.C. Chen, industrial analyst of MIRDC's Industrial Research Section, Planning and Promotion Department, has been invited several times by IDB officials to brainstorm on Taiwan's development of wind power.

## Local Fastener Suppliers Have Much to Gain as Taiwan Develops Wind Power

**MIRDC has had a significant role in developing a local supply chain of large-sized wind turbines on the Island.**

By STEVE CHUANG

In the near future local suppliers of fasteners hope to develop a sustainable business involving the growth of wind power and the formation of a local supply chain of large-sized wind turbines on the island. And they have to thank for this the efforts both of Taiwan and of the Metal Industries Research & Development Centre (MIRDC), the island's leading metal industry research institute that has provided technological support to the endeavor.

Taiwan has inherent advantages for wind power development. During more than six months every year, northeastern winds sweep across the island's central and western coasts, averaging four meters per second, equivalent to a force-three wind on the Beaufort Scale that is strong enough to extend flags. Research by the Industrial Technology Research Institute (ITRI) in Taiwan has shown that such gentle breezes extend over approximately 2,000 square kilometers of the island, mostly in the northern alpine

region, on the western coast, and in the archipelagos off the western coast.

Based on economic feasibility, wind conditions, and ITRI's estimate that some 3GW of wind-generated power potential is available on the island, in 2009 the Ministry of Economic Affairs created the Statute for Renewable Energy Development to facilitate wind power development.

F.C. Chen, an industrial analyst of MIRDC's Industrial Research Section, Planning and Promotion Department, has provided officials of the Industrial Development Bureau who have been directed by MOEA to bolster development of the wind power industry in Taiwan with market and industrial intelligence services. Chen was interviewed by CENS to provide an overview of the renewable energy industry and to share her opinions about the related business potentials for local companies.

## Growing Worldwide

Chen said that use of wind power has been growing worldwide, especially after the nuclear power crisis in Fukushima Prefecture in Japan, which followed the massive earthquake that occurred on March 11 of last year. According to Chen, this event has caused a number of countries, such as Germany, to consider no longer relying on nuclear energy, despite the fact that it is

economical.

According to Chen, the growing use of wind power worldwide has inspired MOEA to draft incentive-based regulations to encourage local companies to establish exemplary offshore wind power farms. She said that she learned from officials that the island's first exemplary offshore farm should be operational in 2015 at the earliest, and that operators will receive considerable subsidies for wind-power turbine construction and farm operation and maintenance.

"As of the end of September of 2011, Taiwan had already constructed 274 onshore and offshore wind turbines with a total capacity of 529.3 megawatts," Chen said, citing the latest report issued by National Science Council. "These turbines can produce an estimated 1.2 trillion watts per hour of electricity every year, which helps cut the production of carbon oxide by 780,000 metric tons."

Taiwan's eagerness to develop wind power in recent years has been connected to the government's decision to shut down all of its



Anchor bolts demonstrated by Bulton Corp. at TIFS 2010





Offshore wind turbines will lead the development of wind power worldwide in the next decade.

existing, obsolete nuclear power plants by 2025. And then it plans on retaining only the No. 4 plant, which is currently under construction. Economic Minister Shih Yen-shiang said that by 2030 the government plans to have established 600 offshore wind turbines with a total generation capacity of 4200MW, which should create business opportunities worth NT\$500 billion. These wind turbines will generate three times more power capacity than the No. 1 power plant does currently.

Coordinating MOEA's plan is in the hands of Taiwan's Bureau of Energy, which plans to establish two experimental wind farms off the coasts of the Penghu Islands, with the expectation that the ownership of one will be transferred to the state-owned Taiwan Power Co. while ownership of the other will be transferred to a private company. The Penghu coastal area can accommodate 400 5MW-caliber wind turbines that would serve as a large-sized offshore wind farm with an estimated maximum generation capacity of 8 billion kw/hrs of electricity a year.

**A Large Number of Suppliers to be Involved**  
Production of wind turbines involves a variety of materials such as die forgings, rolled steels, electromagnetic steel plates, resin, glass fiber and carbon fiber, copper and aluminum, and key parts and components including blades, gearboxes, bearings, power generators, power transducers, bases, screws, and bolts. "For instance, the construction of an ordinary 2MW wind turbine with a rotor diameter of 92.5 meters and tower height of 100 meters

involves over 8,000 pieces of different parts," Chen said. This means that building a solid supply chain will involve a large number of suppliers from different sectors.

In 2010 Teco Electric & Machinery Co., Ltd., the foremost wind turbine maker in Taiwan, unveiled its 2MW permanent-magnet synchronous wind turbine, which it developed independently during years of research on wind turbine engineering. Company Chairman Liu Chao-kai said that the wind turbine is unlike traditional double-fed induction generator-built models in that it has been developed with a permanent-magnet synchronous generator which features more advanced power-supply stability and power generation efficiency and allows easier maintenance. Liu said that presently Teco is the only manufacturer capable of making such mainstream wind turbines in Greater China.

Chen said that although TECO's achievement might make it possible that Taiwanese suppliers of wind turbine parts will be able to develop their capabilities at home based on business with the local downstream customer, they will still need time to improve their products and prices. For instance, for the time being Teco and local wind farm operators prefer to import spare parts rather than source them locally.

### **MIRDC's Blueprint**

According to Chen, the MIRDC has invited some Taiwanese manufacturers to join its project of forming a supply chain of wind



Since the end of September 2011, Taiwan has built a total of 274 wind turbines, most of which are onshore.

turbine parts locally, which will help them explore the renewable energy sector. "In using the government's resources to help develop products, MIRDC hopes that these products become part of the supply chains of foreign wind turbine makers," Chen said. "In this way the products will become more efficient in the near future."

MIRDC has helped Swancor Ind. Co., Ltd., a large-sized supplier of specialty chemicals, both in applying for GL certificates so that its high-strength resin can be used in wind turbine constructions and in boosting its output to explore foreign markets, with the goal of eventually becoming part of Siemens' supply chain and building a partnership with larger-sized suppliers in China. Another of MIRDC's associate partners that hopes to be a pioneer in developing Taiwan's wind turbine industry is the 41-year-old die casting maker Yueon Guann Casting Iron Factory Co., Ltd., which has decided to establish a factory in Ningbo City in China to tap the local wind power market with the ultimate goal of obtaining contract orders from foreign customers such as Gamesa, GE, Vestas, Nordex, and REpower.

Chen said that the two fastener makers, Boltun Corporation and Fang Sheng Screw Co., Ltd., have shown intense interest in MIRDC's project. Both of these companies have produced large-sized wind turbine bolts and have received help from R&D manufacturers to obtain the cooperation of both Tier 1 companies worldwide and

distributors and traders in the United States and European countries in targeting global customers such as Gamesa, Vestas, GE, and Clipper. "When the two makers demonstrated these bolts at the inaugural Taiwan International fastener Show (TIFS) in 2010, foreign visitors were impressed," Chen said. Chen also said that this success has made him more confident that Taiwan will find its place on the global map of wind turbine fastener suppliers.

MIRDC has also received official approval to build a test center in Taiwan's northern city of New Taipei. This test center, to be constructed with world-caliber testing instruments in line with international standards, will allow MIRDC's partners to improve their capabilities and quickly become more competitive with their foreign rivals.

## Wind Turbine Fasteners

To ensure consistency and safety in the production of higher-end fasteners, complicated engineering is also needed, Chen said. In many cases it has been shown that fastener failure often causes enormous damage to wind turbines, although the fasteners used do not amount to more than a 1.04% share of the total construction cost of a 2MW-caliber wind turbine.

During the typhoon season in 2008, a wind turbine in the Taichung Port in central Taiwan collapsed largely due to a bolt in the wind-turbine tower being broken. And in March of 2011, the loosening of fasteners resulted in

rotors and blades falling from wind turbines near Rugby, North Dakota, in the United States. Since the quality of fasteners is highly related to the safety of wind turbines, the development of the so-called smart fasteners featuring tightening reliability has been a significant concern in recent years.

Fasteners for wind turbines generate much higher margins than do traditional fasteners. "Compared to fasteners made by Taiwan's fastener industry, which at present are exported for an average price of only NT\$70-80 per kilometer, screw bolts for assembling blades, for example, can sell for some thousands of New Taiwan dollars each," Chen said. According to Chen, considering that some of the island's fastener makers have built solid global technological reputations, Taiwanese companies should explore the emerging sector, although it will be necessary to establish stricter standards for the structural durability and safety requirements of the new fasteners.

Chen said that specifications and sizes of fasteners for wind turbines and the required standards vary according to different applications. And she provided the following information regarding specifications, sizes, and required standards: a turbine foundation requires anchor bolts with sizes ranging from M36 to M26 and that are subject to ASTM A615, ASTM A771, DIN 6319, and DIN 6330; a tower needs hex cap bolts with sizes from M30 to M64 and that are subject to DIN 6914-6916 and EN14399-4/DAST021; a nacelle uses M30-to-M42-sized hex cap bolts that measure up to ISO4014/DIN931, 4017, and DIN933; the frame calls for M30-to-M48-sized hex cap bolts; and a blade uses M27-to-M42-sized bolts with waisted shanks.

## Smart Fasteners

According to Chen, growing concerns about safety in wind turbine construction have led to a focus on smart fasteners whose designs include safety innovations.

The Direct Tension Indicating Bolt is one of the most common smart fasteners, built with the direct tension indicator washer that helps engineers make sure the required initial bolt tension is carefully controlled when a bolt is installed. Such smart fasteners have been used widely in construction and have increasingly been applied to wind turbine engineering.

The Permanent Mounted Transducer System (PMTS), developed by Intellifast GmbH to ensure consistency in the bolt tightening process, has also been regarded as an ideal solution to problems in wind turbine bolting technologies.

Bolt tension is achieved through torque, and the time it takes can vary according to material properties and ambient conditions, Chen said. And therefore it is difficult to record this time. The PMTS incorporates ultrasonic measurement technology that materializes the concept of bolts with sensors and allows engineers to control and monitor embedment conditions of bolts and joints even more effectively than they could with other solutions.

The PMTS produces a bolt that goes through the ion vapor deposition and is equipped with the state-of-the-art Piezoelectric Sensor on the head that gives each bolt a 2D data matrix bar code. Engineers use the LP3000B device to identify sensor-built bolts, check bolt tension, and record measurement results. Chen said that PMTS assures not only the reliability of the initial bolt tension, but also

data traceability and the maintenance of bolts suitable for wind turbine bolt engineering.

## Local Supply Chain Needed

A local supply chain of parts and maintenance services is needed to allow Taiwan's wind power industry to develop sustainably, Chen said. Citing the report issued by TaiPower, she said the company has been concerned about the wind turbines' extremely high maintenance costs, which have been partly due to the expenses involved in acquiring know-how and spare parts that must be imported, and also due to foreign suppliers who, in order to protect their core technologies, usually ask TaiPower to provide full lines of complementary maintenance instruments. "Despite the fact that a total of 274 wind turbines have been installed all around the island since 2000, Taiwan still lacks a solid local supply chain of wind turbines and parts," Chen said. "And this will

likely hinder the development of wind power on the island."

Another obstacle to sustainable development has been the underdevelopment of submarine construction capability. Chen said that without large-sized pile driving vessels, 500-ton-and-above crane vessels, and offshore platforms, it is almost impossible for Taiwanese wind turbine constructors by themselves to build bases 12 meters under the sea and deeper. According to Chen, the government can overcome this problem by providing Taiwanese companies with financial incentives both to strengthen their submarine construction capabilities and purchase large-sized instruments, while also allowing state-owned large-sized enterprises, such as Taiwan Power Co. and CPC Corp., a petroleum refiner with experience in pile driving, to work with private companies on joint development.

CENS

Wind Power Developments in the World's Major Countries			
Country	Total Capacity of Wind Turbines Achieved by 2020	Feed-in Tariff for Electricity Generated	Local Wind Turbine Supplier
Belgium	2.1 GW	NT\$4.508	--
Denmark	4.6 GW (by 2025)	NT\$2.92-3.5523	Vestas
Germany	10 GW	NT\$7.0365	REpower
France	6 GW	NT\$5.478	Areva
United Kingdom	25 GW	NT\$7.585	--
Sweden	4 GW	NT\$2.8485	--
United States	10 GW (by 2020)		
54 GW (by 2025)	--	GE	
China	22 GW	NT\$2.7657-4.3382	Sinovel, GoldWind
Korea	2.5 GW	NT\$6.3	Doosan Heavy Industries, Hyundai Heavy Industries
Japan	2.1 GW	--	Fuji Heavy Industries
Taiwan	1.8 GW (by 2025)		
3.0 GW (by 2030)	NT\$5.5626	--	

Source: provided from APEC Energy Policy Roundtable, edited by MIRDC

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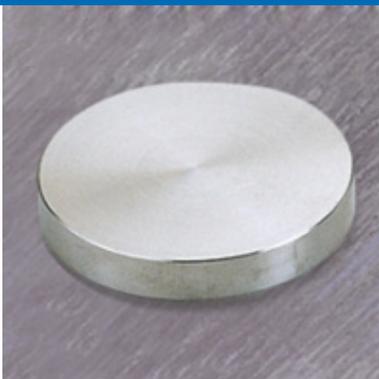


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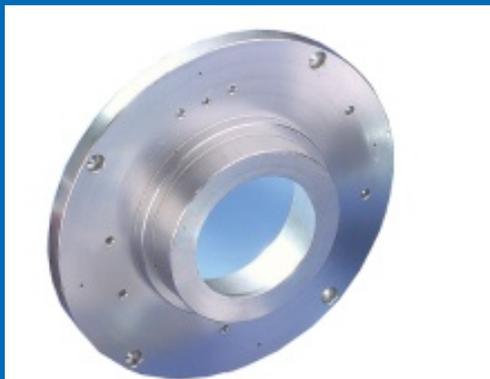
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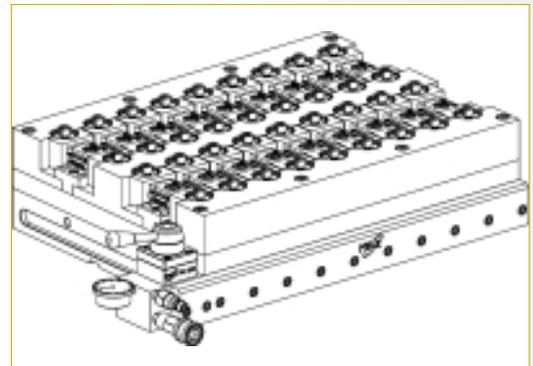
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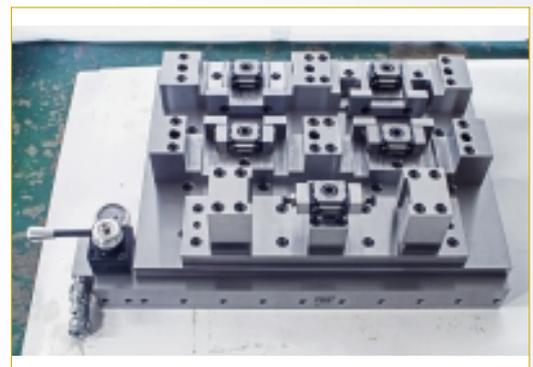
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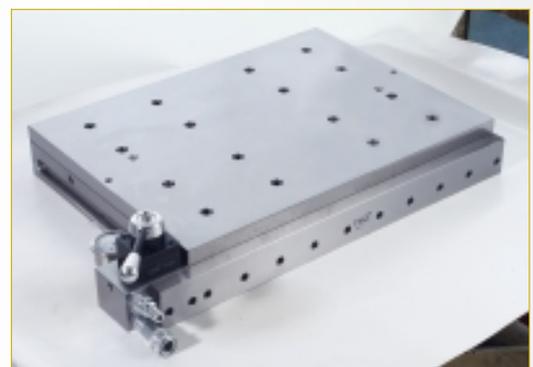
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Founded in 1992, Shyang Meng Industry Workshop is experienced in developing precision parts, and always strives to meet customers' every need with its cutting-edge expertise. We have grown steadily by insisting on high-efficiency production and providing superior-quality products. Starting in 1995, we've used compound CNC lathes instead of traditional lathes to turn out high-quality parts to meet customers' ...



Hardware Fittings



Hardware Fittings



Hardware Fittings

# YI LAI PRECISION CO., LTD.

**CNC machined parts, Anchor Bolts, Anchors, Bicycle accessories, Bolts, CNC Machining**



Precision Metal Part

Yi Lai Precision Co., Ltd. has over 20 years of manufacturing experience of precision metal parts with high-end quality. Our products include all kinds of metal parts in automotive, motorcycle, electronics, lawn and garden accessory, furnishing and firearm industries. Our facilities are complete. We have Swiss-built CNC lathes and milling machines from Star, Tsungami and Miyano. Great R&D and QC team offer reliable quality. We welcome your inquiry as OEM or ODM and guarantee to provide excellent service.



Precision Metal Parts



Metal Part



Precision Metal Parts

## **YI LAI PRECISION CO., LTD.**

No. 86, Lane 689, Ganzhu Rd., Homei Township,  
Changhua County, Taiwan

Tel: 886-4-736-0139

Fax: 886-4-735-0496

E-mail: [service@yilai-precision.com.tw](mailto:service@yilai-precision.com.tw)

Website: [www.yilai-precision.com.tw](http://www.yilai-precision.com.tw)

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Semi Tubular Rivet

# AMPLE LONG INDUSTRY CO., LTD.

Tel:886-4-738-3333, 738-8222  
 Fax:886-4-738-8223  
 E-mail: amplelon@ms22.hinet.net  
 Website: www.amplelong.com.tw

AMPLE LONG INDUSTRY CO., LTD. is dedicated in Semi Tubular Rivet, Rivet, Shoulder Rivet, Drive Rivet, Male Female Screw, Male Female Rivet, Hollow Rivet with operations in Taiwan



Semi Tubular Rivet



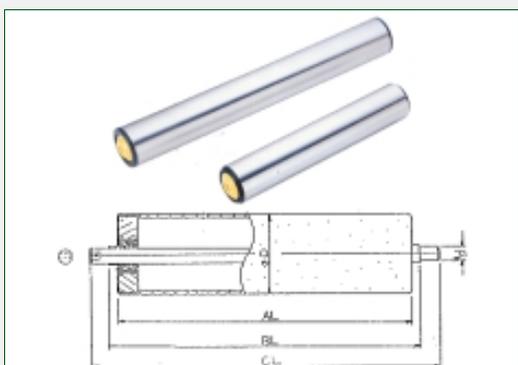
Drive Rivets



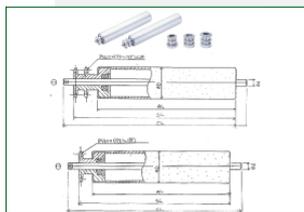
Drive Rivets

# CHAN WEI ENTERPRISE CO., LTD.

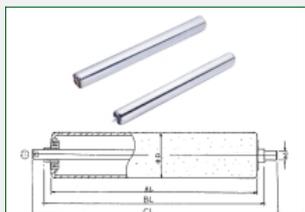
**Trolley Track & Chains, Chains & Bracket Dugs,  
Double-plus Chains, Glove Chains**



Carrying Roller



Carrying Roller



Carrying Roller



Light Trolley Conveyor Chains

Chanwei was established in 1983, professional manufacturing of conveyor chains, conveyer sprocket, carrying rollers and attachments. To provide the best product, Chanwei never compromise in the product quality, with the continuous devotion to the improvement of manufacturing process as well as in the development and designing facilities. Chanwei presently is no longer just a quality conveyer devices supplier, but a partner who can meet your diverse demands. We pride with our customer affirmation, this also strength our aspiration on continuous improvement, in order to providing better competitiveness in products and services So since the establishment of link exhibition it cultivate talent constantly, orientation technology take root, in order to setting up by foundationing and the ability, research of development not technological, and analogous to into achievement, all product design , mold design make,



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E-mail: cw999.tw@msa.hinet.net

Website: www.cens.com/chan-wei

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## Nylon Insert Locknuts (NE/NTE/NM/NTM)/DIN982/DIN985, Hex Machine Screw Nuts, Hex Finish Nuts/DIN934

Established in 1988 Factory location: Tainan City, Taiwan Certificate: ISO 9001 Market: Europe  
50% U.S.A : 30% JAPAN : 10% OTHERS : 10% Material: Stainless Steel, Carbon Steel, Brass  
C2700/C2600, Silicon Bronze 651 Size: M1.6-M24, #0-1" Packing: Bulk in carton, Small box



Square Nuts, Single Chamfer



Top Lock Nuts



Special Nuts (per drawing)



Brass Nuts



### CLC INDUSTRIAL CO., LTD.

No. 158, Yilin Rd., Rende Dist., Tainan City, Taiwan 717

Tel:886-6-270-0392

Fax:886-6-270-1296

E-mail: [clcnuts@clcnuts.com.tw](mailto:clcnuts@clcnuts.com.tw)

Website: [www.clc-nuts.com.tw](http://www.clc-nuts.com.tw)

# HSIANG TSUN ENTERPRISE CO., LTD.

**External Tooth-lock Washers, Stamped Products,  
Washers (Nonmetallic, Insulated, Metallic, Ferrous,  
Brass, Copper, Phosphor Copper, Stainless Steel,**

COMPANY PROFILE Founded in 1979, Hsiang Tsun runs its own factory where it develops molds in-house, producing various metallic parts, electronic parts, auto parts, gaskets, and wide ranging washers including nonmetallic, insulated, metallic, ferrous, brass, copper, phosphor copper, stainless steel, steel, nylon, rubber, rigid/flexible PVC, bakelite, and cup washers. Our company is known for offering products of good quality that are delivered on-time at competitive prices. Please contact us for OEM orders, send samples for counter-production, custom stamped parts including special-sized washers. We also stock wide ranging various sized washers. MAIN PRODUC ...



metallic parts



Rubber Washers



washers

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No. 251-2, Min-yi Rd., Sec. 1, Wugu Dist., New Taipei City, Taiwan 248

Tel:886-2-8292-2771

Fax:886-2-8292-2770

E-mail: lenjeen@yahoo.com.tw

Website: [www.cens.com/hsiangtsun](http://www.cens.com/hsiangtsun)

# HSIN FONG SPRING CO., LTD.

## Springs, Compression Springs, Tension Springs

Hsin Fong Spring Co., Ltd. established business in this for more than 20 years professional technology and experience since 1984. We are a professional manufacturer of precision spring. We always insist the spirit of "quality first, service priority", pursue innovation, upgrade technology and quality continuously, in order to meet requirement of customers.



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Tel:886-2-2906-0568, 2903-2769

Fax:886-2-2904-1579

E-mail: hf.spring@msa.hinet.net

Website: [www.cens.com/hsinfong](http://www.cens.com/hsinfong)



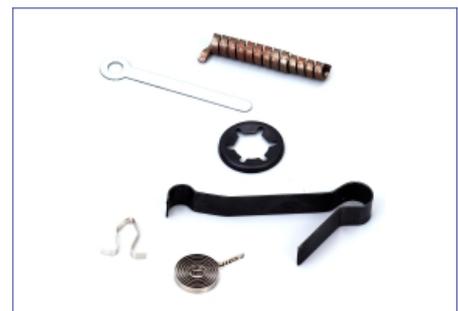
Compression Springs



Tension Springs



Tension Springs



Clip



T7101 Overhead &amp; Flow Conveyor

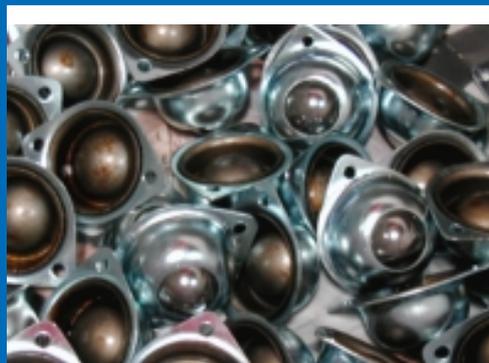
# J-KING INTERNATIONAL CORPORATION

Tel:886-49-233-7939  
Fax:886-49-233-7659  
E-mail: [jukyo@seed.net.tw](mailto:jukyo@seed.net.tw)  
Website: [www.cens.com/j-king](http://www.cens.com/j-king)

Our company has been a professional maker of power transmission products since 1963, and our products have been marketed under the brand name of "JUKYOTM." Our main product lines are as follows: -Metal stamping, gravity rollers and conveyor chain assembly plant. -Wire and metal conveyor belt fabrication plant. - Drop forging and continuous heat treatment plant. -Electrical motor transmission plant. -Spro ...



U25 Ball Transfer



T25 Ball Transfer



B22 Ball Transfer

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Kai Suh Suh Enterprise Co., Ltd. (KSS) has run business by prioritizing professionalism, quality and service for 45 years, having supplied a wide range of wiring products to over 40,000 accounts in 110 countries. Reflecting its branding success, in 2011 the globally renowned company was named a "Top 100 Taiwan Brand" by the Branding Taiwan Program spearheaded by the Taiwan External Trade Development Council (TAITRA), the semi-official trade promoter under the Ministry of Economic Affairs (MOEA) of Taiwan. The ISO 9001- and 14001-approved KSS offers a wide array of cable ties, cable ducts, markers, clamps, clips, bushings, wire connectors, PCB supports, strain-relief bushings, cooling sleeves, electronic an ...



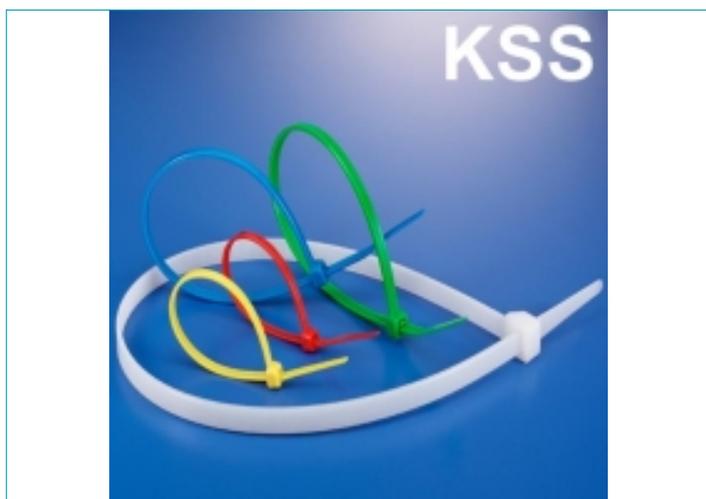
Nylon Cable Gland



Wiring Duct



EC Type Cable Marker



Nylon Cable Tie



### KAI SUH SUH ENTERPRISE CO., LTD.

38 Yenping N. Rd., Sec. 1, Taipei, Taiwan 103

Tel:886-2-2555-1929 (24 Lines)

Fax:886-2-2556-0052 (5 Lines)

E-mail: [kss@mail.kss.com.tw](mailto:kss@mail.kss.com.tw)

Website: [www.cens.com/kss](http://www.cens.com/kss)

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**Body Parts, Screws, Nuts, Bush, Automobile Parts,  
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KING LI HARDWARD CO., LTD. is dedicated in Body Parts, Screws, Nuts, Bush, Automobile Parts, Motorcycle Parts, Special Fastener, Special Nuts, Tube & Cold-Forge Parts, Silver Electric Contact Rivets, Rivets, Pins, Die-casting Parts, Washers, All Kinds of Fasteners, A Professional Manufacturer of Automobile Parts with operations in Taiwan



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BUSH



T-SHAPE WELD NUTS



TROX FLAT HEAD SCREWS

## **KING LI HARDWARD CO., LTD.**

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Tel:886-2-8282-6136

Fax:886-2-8282-6139

E-mail: K8899Li@ms38.hinet.net

Website: [m.cens.com/s/23600765](http://m.cens.com/s/23600765)

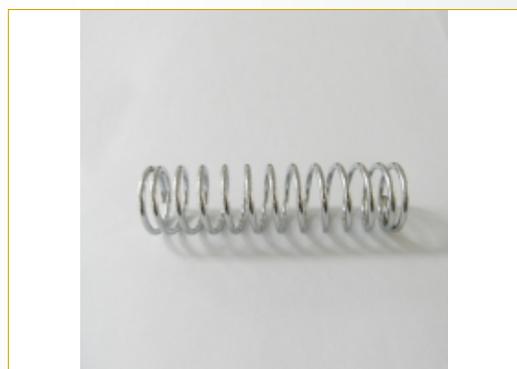
# ***KUN MING SPRING CORP. LTD.***

## **Springs, Extension Springs, Torsion Springs, Compression Springs, Volute Springs, Conical Springs**

Specialist in various types of precision springs, wire forms, torsion springs, extension springs, retaining rings, spring leaves, and other irregularly formed springs Our products are processed with CNC forming machines, which can precisely control wire winding and circling. Our products are applicable for electronics, computers, autos, motorcycles, furniture, machinery, toys, and many other products. We also design and manufacture diverse kinds of multifunctional torsion springs (available in square, plate, irregularly formed, and double-coiled models) and wire forms. Main products: Extension springs Torsion springs Compression springs Volute springs Conical springs Irregularly formed double torsion springs Retaining rings Washers and spring leaves



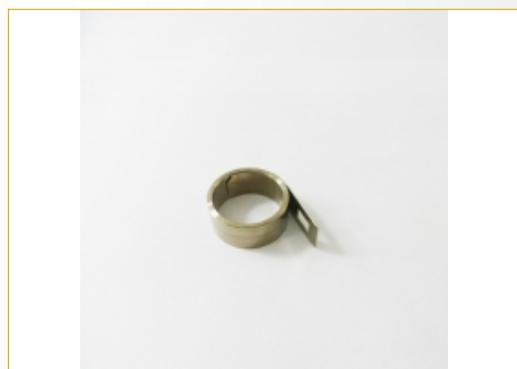
Extension springs



Compression springs



Torsion springs



Retaining rings

## ***KUN MING SPRING CORP. LTD.***

No. 95, Shangting Rd., Yungkang Dist., Tainan City, Taiwan 710

Tel:886-6-253-9466, 253-9477

Fax:886-6-253-7569

E-mail: [kunming.spring@msa.hinet.net](mailto:kunming.spring@msa.hinet.net)

Website: [www.kun-ming.com.tw](http://www.kun-ming.com.tw)

# LIEN YA MACHINERY CO., LTD.

**Auto parts, auto parts machining, screws, nuts, screws and nuts, forging, grinding, TS16949, TS Certification**

Lien Ya Machinery Co.,LTD was established in 1987, started by original handmade automatic lathes manufacturer. Start-up period from the chairman of the Shih-T'ung Shen in Tainan " Guiren Dist " rented 30-square-meter place as factory, mainly produces auto parts. Nearly half of six decades through the years, Lien Ya Machinery at WorldCom chairman Shen's leadership, adhere to the "roots in Taiwan, the layout of the global" business strategy, establish a good brand image in Taiwan, product standard number one. From the foundry industry to research and development ...



Automotive Screws Automotive Screws Automotive



Automotive Screws Automotive



Automotive Screws Automotive  
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Automotive Screws Automotive

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E-mail:

Website: [www.cens.com/lienya](http://www.cens.com/lienya)



Custom springs

# SHANG YANG SPRINGS

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Fax:886-4-770-7234

E-mail:

Website: [m.cens.com/s/26938410](http://m.cens.com/s/26938410)

Shang Yang Springs has been focused on manufacturing a wide variety of precision hardware and springs since establishment. We adopt advanced equipment to achieve automation and standardization to improve production efficiency and product quality, as well as adapt production processes to offer specific solutions. Each item is examined by precision test equipment such as spring length detector, profile projector, ...



Battery springs/ retaining springs



Compression springs



Torsion springs



Spring Machine

# TZYH RU SHYNG AUTOMATION CO., LTD.

Tel:+886-7-373-2588  
 Fax:+886-7-373-2598  
 E-mail: trsma@url.com.tw  
 Website: www.trsma.com.tw

Established in April 1, 1981, TRS was registered as TRS Automation Co., Ltd. The main service items are spring equipments for vehicles, such as spring machines, spring end grinding machines and peripherals. Our Coiling Machine mainly use for produce wire diameter between 0.8mm to 50.0mm, include 2 axes, 3 axes, 4 axes and 5 axes with built in CNC computerized control system to fully support various ...



Spring Machine



Spring Machine



Spring Detector Host

# LI CHUAN SPRING INDUSTRY CO., LTD.

## Motocycle spring, Bicycle spring

Li Chuan was founded in 1983 , specializing in manufacturing various types of suspension spring, including compression spring, tension spring, torsion spring, plate spring, formed spring and agricultural machinery spring, etc. Under the leadership of the founder of Mr. Liao Zhichun, Li Chuan has established a well-known and reliable reputation in the suspension spring manufacturing industry. For the achievement of the best quality and leading technology, Li Chuan continuously invests in the manufacturing and inspection equipments, and improves the manufacturing technology day by day. From the spring forming, heat treatment, grinding, inspection to delivery, Li Chuan manufactures products with consistent procedure to avoid the uncertainty issues arising form the manufacturing processes and that greatly enhances the quality and quantity of Li Chuan's pro ...



Formed springs



Formed springs



Plate spring



Torsion spring

## LI CHUAN SPRING INDUSTRY CO., LTD.

No.67, Ln. 243, Sec. 2, Zhangxin Rd., Hemei Township,  
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Tel:886-4-735-6070

Fax:886-4-735-1670

E-mail: info@lc-spring.com

Website: www.cens.com/lichuan

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件、熱處理

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Founded in 1984, A-Corn Enterprises Co., Ltd. supplies mainly metallic parts and accessories. With a team of seasoned technicians delivering dedicated design and manufacturing services, we offer quality metallic hardware, vehicular parts, electronic parts, and OEM/ODM-quality metallic materials and parts. Contact us for more information.



Solenoid Valves



CNC-machined Parts



CNC-machined Parts



investment casting+CNC-Machined



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Fax:886-2-2578-5528

E-mail: sales2@a-corn999.com

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# APRISA INDUSTRIAL CO., LTD.

**Die-casting, Surface Treatment, Foundry, Zinc and Aluminum Die Casting, Metal Forming**

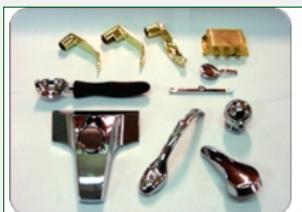


Zinc Die Casting

Aprisa Industrial Co., Ltd ,since its establishment in 1978, a valuable supplier to product solutions of die casting field , has been in the forefront of meeting the demands of the times. Aprisa is a provider with a wide range of Aluminum and Zinc die casting parts with the finish of chrome and coating, including in Hot Rod parts, Truck parts & accessories, performance and custom parts.



Zinc Die Casting



Zinc Die Casting



Zinc Die Casting

## **APRISA INDUSTRIAL CO., LTD.**

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Fax:886-6-242-3528

E-mail: justin@yazhu.com.tw

Website: [www.aprisa.com.tw](http://www.aprisa.com.tw)



# Powder Metallurgy

## 粉末冶金

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# CHU VEI POWDER METALLURGY IND. CO., LTD.

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kinds of powder metallurgy (P/M) parts which is made with metallic powder through forming and processing by automatic machines. Our main products include motorcycle parts, oilless bearing, hand tool parts, hardware parts, gear parts, machine parts, auto engine parts, stainless steel parts, sewing parts and many more. The materials used to produce these articles are iron base, copper(bronze and brass) base and stainless steel powder. Samples or drawings are very much welcome as well as OEM and ODM designs. Call us for more detailed information.



## CHU VEI POWDER METALLURGY IND. CO., LTD.

22-8 Shuiliuniang, Lin 11, Shuiyuan Li, Miaoli, Taiwan 360

Tel:886-37-232-432

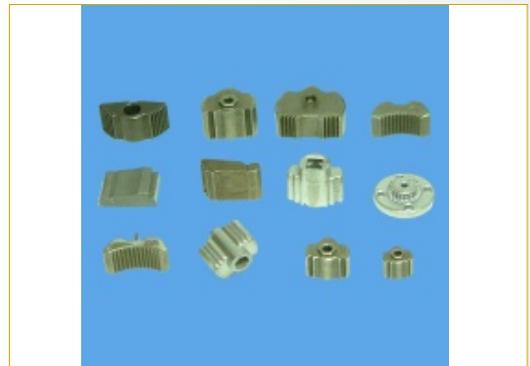
Fax:886-37-229-920

E-mail: [chuvei@ms33.hinet.net](mailto:chuvei@ms33.hinet.net)

Website: [www.chuvei-pm.com.tw](http://www.chuvei-pm.com.tw)



Metallic powder injection-molded parts  
(MIM parts)



Warm compaction formed parts



Warm compaction formed parts



OEM Parts for Electric Powder Tools

# Plastic Parts And Components (Extruded Parts, Injection Molded Parts, Blow Molded Parts)

塑膠零配件(押出、射出、中空)

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[DAY TAY PLASTIC INDUSTRY LTD.](#)

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[TSHAO CHIUNG MATERIAL CO., LTD.](#)

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## ■ Advertiser Index

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# 3D 列印耗材 Printer Filament

*Top quality, pure, anti-clogging,  
precise for high effectiveness*



*Taiwan-made for consistent quality*

Day Tay's 3D printer filaments have high purity to prevent a printer nozzle from being clogged during operation.

## Day Tay Plastic Industry Ltd.

***Rigid and flexible extruded plastic tubes, strips, air hoses, soaker hoses, 3D printer filaments***

Plastics have come a long way as one of the most important materials for diverse products, including garden hoses and accessories, since the 1960s, to have replaced its predecessor natural rubber that had been used as early as 1600 BC. With great malleability, structural durability and lightweight, such material has also been widely applied in the form of various filaments in 3D printing. Among Taiwanese suppliers of plastic materials, Day Tay Plastic Industry Ltd. supplies anti-clogging 3D printer filament.

The 3D printer filament from Day Tay is made of high-grade plastics coupled with the maker's well-honed manufacturing techniques and rich knowledge of plastic properties, with the whole production strictly controlled according to international standards at the firm's modern factory. The process gives the

firm's filament excellent purity and consistent diameter, important characteristics for such products, given that filaments are just like the blood of a printer, which is pulled out of a nozzle by an extruder wheel to the hot end and then molded into various shapes as needed. Without the said characteristics, filaments would easily compromise the functionality and service life of a 3D printer.

Day Tay's anti-clogging, high-quality 3D printer filament is available in many colors, and ensures high printing effectiveness and efficiency as an ideal product for end-users from different industries.

Founded in 1996, Day Tay Plastic Industry Ltd. is a specialized supplier of various extruded plastic products, mainly tubing products and plastic components and accessories.

### **Day Tay Plastic Industry Ltd.**

No. 21, Lane 2, Shaitien Rd., Sec. 2, Tatu Dist., Taichung City, Taiwan 432

Tel: 886-4-2699-8879

Fax: 886-4-2699-8874

Email: dtc8879g@hotmail.com

Website: [www.daytay.com.tw](http://www.daytay.com.tw)

# *Bai Ye INDUSTRIAL CO., LTD.*

## **Office Furniture and Parts & Accessories, Caster, OA Furniture Parts, Socket Stem, Bolt Stem, Twin-Wheel Nylon Castors, Castors**

BAI YE INDUSTRIAL CO., LTD. is a professional manufacturer specializing in Hardware and Furniture Parts & Accessories with more than 30 years of experience. We have all kinds of Furniture and Hardware Parts & Accessories. We specialize in Office Furniture Parts & Accessories, including OA Furniture Parts, Handles, Bed Legs, Socket Stem, Bolt Stem, Twin-Wheel Nylon Castors, Castors, Plates, Furniture Glides, Appliance Rollers, Three-Dolly Wheel Castors, Adjustable Appliance Rollers, Metal Wrench Zinc Plated, Metal Bracket, Metal Castor Socket Zinc Plated, Metal Work Surface Connector Zinc Plated, Office Caster, Pipe/Tube Fittings, Clamps etc.. We have dedicated facilities with Automotive press machines, injection machines, assembly machines that can run full production lines and can ...



### *Bai Ye INDUSTRIAL CO., LTD.*

No. 178, Zhangyuan Rd., Sec. 2, Huatan Township,  
Changhua County, Taiwan 503

Tel:886-4-762-7119~0

Fax:886-4-761-3863

E-mail: kuping@ms6.hinet.net

Website: www.cens.com/baiye



Metal Swivel Glide



Three-Dolly Wheel Castors



Metal Swivel Glide



Adjustable Appliance Rollers

# CHIEN CHIE RUBBER TECHNOLOGY CO., LTD.

## Hydraulic Seals Products, O-ring, Oil-seal, Suction Cups

Founded in Taichung, Taiwan, in 1984, TCCR is specialized in the design and manufacture of rubber products. Products are widely used in auto parts, electronic, sports equipment, medical equipment, drinking water equipment industries. Available materials for our products are NBR, HNBR, EPDM, Neoprene, NR, SBR, Silicone, FPM, IIR, and etc. Our products meet ASTM material specification and we can meet your specific needs. We support 2D/3D modeling, high-precision CNC molding, and vulcanized rubber vacuum forming machines. Our manufactures are 100% tested via high standard criteria. Our missions are professional research and development, fast product delivery rate, upgrading quality, and full range services. ...



### CHIEN CHIE RUBBER TECHNOLOGY CO., LTD.

No. 27, Lane 85, Jiatou Rd., Sec. 1, Longjing Dist., Taichung City, Taiwan 434

Tel: 886-4-2636-6059

Fax: 886-4-2636-6038

E-mail: [tcr@chien-chie.com.tw](mailto:tcr@chien-chie.com.tw)

Website: [www.chien-chie.com.tw](http://www.chien-chie.com.tw)



Oil Seals-RING



Rubber Formed Hose



O-ring, X-ring, AS568.P.G.V.S



Rubber Foot Pad



Blow-Molded Toolbox

# TAI KUAN PLASTIC INDUSTRIAL CO., LTD.

Tel:886-4-2491-5356  
Fax:886-4-2491-5359  
E-mail: [tk24915356@gmail.com](mailto:tk24915356@gmail.com)  
Website: [www.cens.com/tk-plastic](http://www.cens.com/tk-plastic)

Founded in 1990, Tai Kuan Plastic Industrial Co., Ltd. always focuses on service and quality, and constantly improves production and design. We specialize in making and developing blow-molded plastic products for hand/power/air toolboxes, auto repair tools, sporting & leisure goods, healthcare instruments, travel accessories, packaging boxes/materials, convenience goods, garden tools, toys, and customized pro ...



Blow-Molded Toolbox



Blow-Molded Toolbox



Blow-Molded Toolbox

# TSHAO CHIUNG MATERIAL CO., LTD.

## Parts of Plastic Machinery, Barrel, Cylinder, Screw, Nozzle, Screw Tip, Non-Return Valves

Company Profile Tshao Chiung Material Co. Ltd., founded in 1978, is dedicated to design, manufacture and maintenance of extruded piping, barrels, screw rods, screw tips, nozzles, flange sets, and other accessories. We consistently improve materials and R&D, producing under strict quality control system. We also introduce high quality production machines to improve techniques to meet clients' requirements. Our aim is to become the best business partner and the most competitive piping manufacturer in the industry. Business Direction & Motto Tshao Chiung Material Co. Ltd. is the only specialized extruded piping manufacturer with total production in Taiwan. Focused on R&D and consistent refinement, we offer a product line covering thermoplastic, bakelite, ceramic, metal extruded piping set and accessories. To meet clients' needs, we offer made-to-order instead of quantity production. We choose the most suitable



Other Accessories



Filter Nozzle



Piping Set for Precision Extrusion



Cylindrical Barrel for Precision Extrusion



### TSHAO CHIUNG MATERIAL CO., LTD.

No.17, Aly. 6, Ln. 118, Sec. 1, Zhongxing Rd., Wugu Dist., New Taipei City 248, Taiwan

Tel:886-2-29853966

Fax:886-2-29719472

E-mail: [cuchn@ms33.hinet.net](mailto:cuchn@ms33.hinet.net)

Website: [www.tshaochiung.com.tw](http://www.tshaochiung.com.tw)

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50849

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Fax:886-4-735-3304

E-mail: [jiehdeng@yahoo.com.tw](mailto:jiehdeng@yahoo.com.tw)

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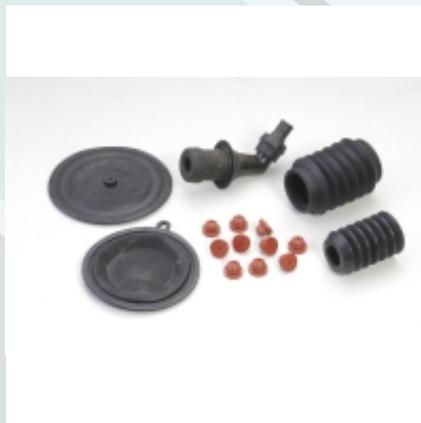
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The company's product lines consist of cutters and knives, CNC tool and cutter grinders, cubic boron nitride (CBN) tools and cutters, tungsten carbide tools and cutters, carbide chamfers, carbide drills with oil hole, carbide ball nose end mills, carbide type end mills, carbide end mills, carbide formation reamers, brazed carbide formation reamers, and carbide formation milling cutters, all of which being disposable.

Emphasizing research and development, quality, service and innovation, the company has been able to develop innovative products in line with customers' requirements.

Its products are well received among customers at home and overseas mostly due to high quality, achieved after years of stringent quality control.

The company believes the key to success in the industry is staying innovative, whereby it continues to convert new ideas into marketable designs. With providing optimal products and services as goal, the company steadily enhances manufacturing capacity by adding new production software and hardware.

## An Jui Precision Tool Co., Ltd.

No. 409, Pengyi Rd., Taiping District, Taichung City, Taiwan 411

Tel: 886-4-2276-9272

Fax: 886-4-2276-9690

e-mail: [anjui.aj409@msa.hinet.net](mailto:anjui.aj409@msa.hinet.net)

website: [www.anjui.com.tw](http://www.anjui.com.tw)



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E-mail: sales@leeart.com.tw

Website: www.leeart.com.tw



Standard Parts for Mold and Die

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Tel:886-2-2276-1213

Fax:886-2-2994-0141

E-mail: taisco@ms54.hinet.net

Website: www.taisco.com.tw

It was since 1991 that TAIS T-P CO., LTD. (D-U-N-S NO.: 65-618-1781) engaged in manufacturing and trading of mold components, our main items include: standard parts for mold and die, accessories for grinding machine and milling machine, cutting tools, complex CNC lathing and milling products. We win the acknowledgement in South Eastern Asia, Middle East and Europe market by superior quality ...



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Founded in 1986, Best Champion Enterprise Co., Ltd. began by making mainly grinders, but later started designing and developing pumps, with sales achieved globally. In addition to steadily developing new products to meet various needs, we currently supply in-house-made grinders, buffers, pumps, air compressors, humidifiers, and other power tools. Contact us for quotation and OEM/ODM orders.



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E-mail: [service@brillianteng.com.tw](mailto:service@brillianteng.com.tw)

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Website: www.target-valve.com

CODE KEY



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2-PC Ball Valve



2-PC M3 type Ball Valve



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Filling MachineSemi-automatic Measuring &  
Filling MachineSemi-automatic Measuring &  
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# Testing And Measuring Instruments (Gauges And Measuring Instruments, Optical Inspection Equipment) 設備、檢測(量具、檢 驗、光學)

## ■ U Report Section

CHIA CHI THERMOCOUPLE CO., LTD.

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INTELLECT WORKER MACHINERY CO., LTD.

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CHIA CHI THERMOCOUPLE CO., LTD.

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# Chia Chi Thermocouple Co., Ltd.

## *Threaded thermocouples and various temperature sensors*

A specialized Taiwanese supplier of thermocouples and temperature sensors mainly for industrial uses, Chia Chi Thermocouple Co., Ltd. has been promoting its threaded thermocouples as a practical solution to accurate measuring of surface temperature of molds.

The threaded thermocouple is a universal type that can be installed in various plastic injection molding machines to measure surface temperature of molds with both simple and complex shapes. The Class 0.4 thermocouple is noted for its high accuracy with close tolerance that has been tested to meet international standards.

In addition to thermocouples, the firm is also promoting its waterproof thermocouple sensor with connection head and L-shaped surface temperature sensor for various heating and drying ovens and low/high temperature furnaces, with measurable temperature range able to be customized to meet customer's requirements. While high measuring accuracy is the common feature of the two devices, the L-shaped surface temperature sensor is easily portable and has comparatively more rapid response to temperature tested.

Ever since founded in 1987 in Taipei, northern Taiwan, Chia Chi has been dedicated to developing and manufacturing thermocouples and other precision temperature measuring instrument, having established a sound profile in the line mostly thanks to its insistence to build accurate and quality products.

The firm's strong commitment to making sure measuring accuracy is achieved and readily observable from its long-term technical cooperation with RKC Instrument Inc. of Japan, which enables the Taiwanese maker to not only gain deeper understanding of such products to further improve accuracy, but upgrade its product mix to satisfy more customers. Also this supplier employs high-precision testing and calibration instruments from the U.S. and Japan, which enhances its trustworthiness as well as ability to offer clients reliable quality.



With the abovementioned efforts gradually paying off to help Chia Chi sharpen its cutting edge to sustain growth, the firm has built solid reputation among customers at home and abroad.

### **Chia Chi Thermocouple Co., Ltd.**

1F, No. 10, Lane 313, Chungching N. Rd., Sec. 3,  
Tatung Dist., Taipei, Taiwan 103  
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Email: [chiachitjohnny@gmail.com](mailto:chiachitjohnny@gmail.com)  
Website: [www.chiachit.com.tw](http://www.chiachit.com.tw)



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HYPER TORQUE TESTER



HYPER TORQUE TESTER

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### CHIA CHI THERMOCOUPLE CO., LTD.

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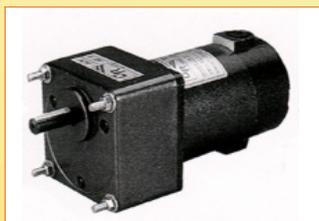
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倉儲、搬運系統

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A-5



A-7



A-3



User instructions for foldable wire containers



### SANE JEN INDUSTRIAL CO., LTD.

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[YUANG HSIAN METAL INDUSTRIAL CORP.](#)

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# YUANG HSIAN METAL INDUSTRIAL CORP.

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### YUANG HSIAN METAL INDUSTRIAL CORP.

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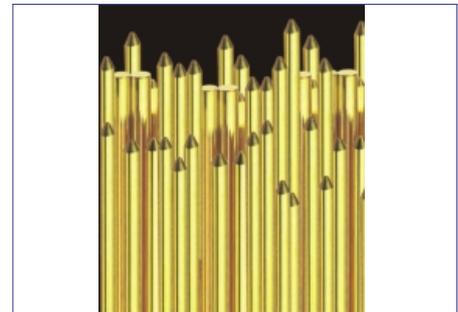
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