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# Taiwan Industry Suppliers



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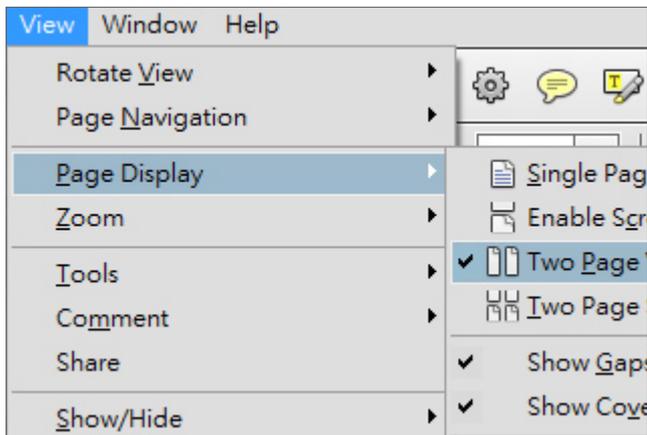
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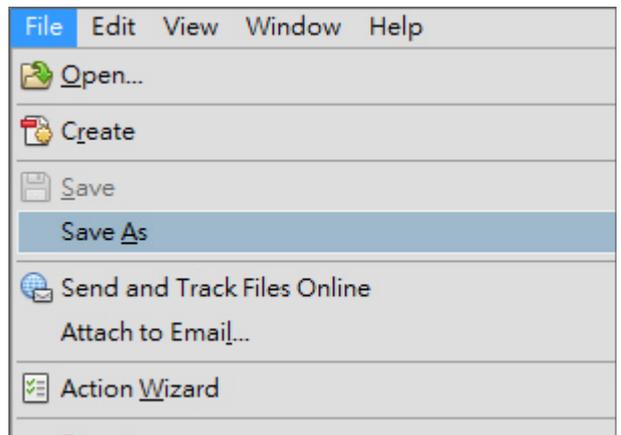
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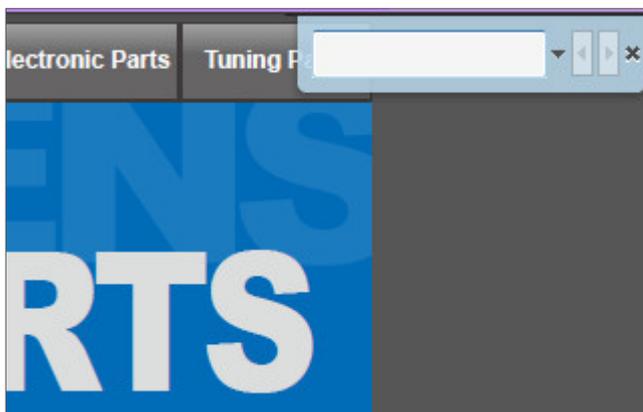
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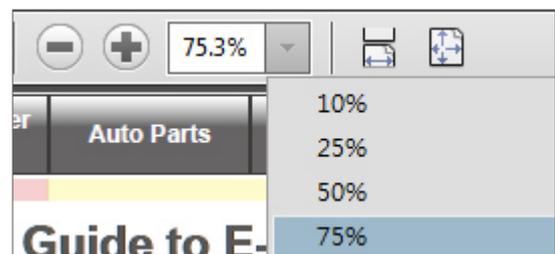
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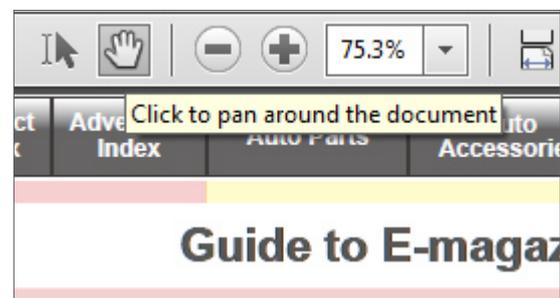


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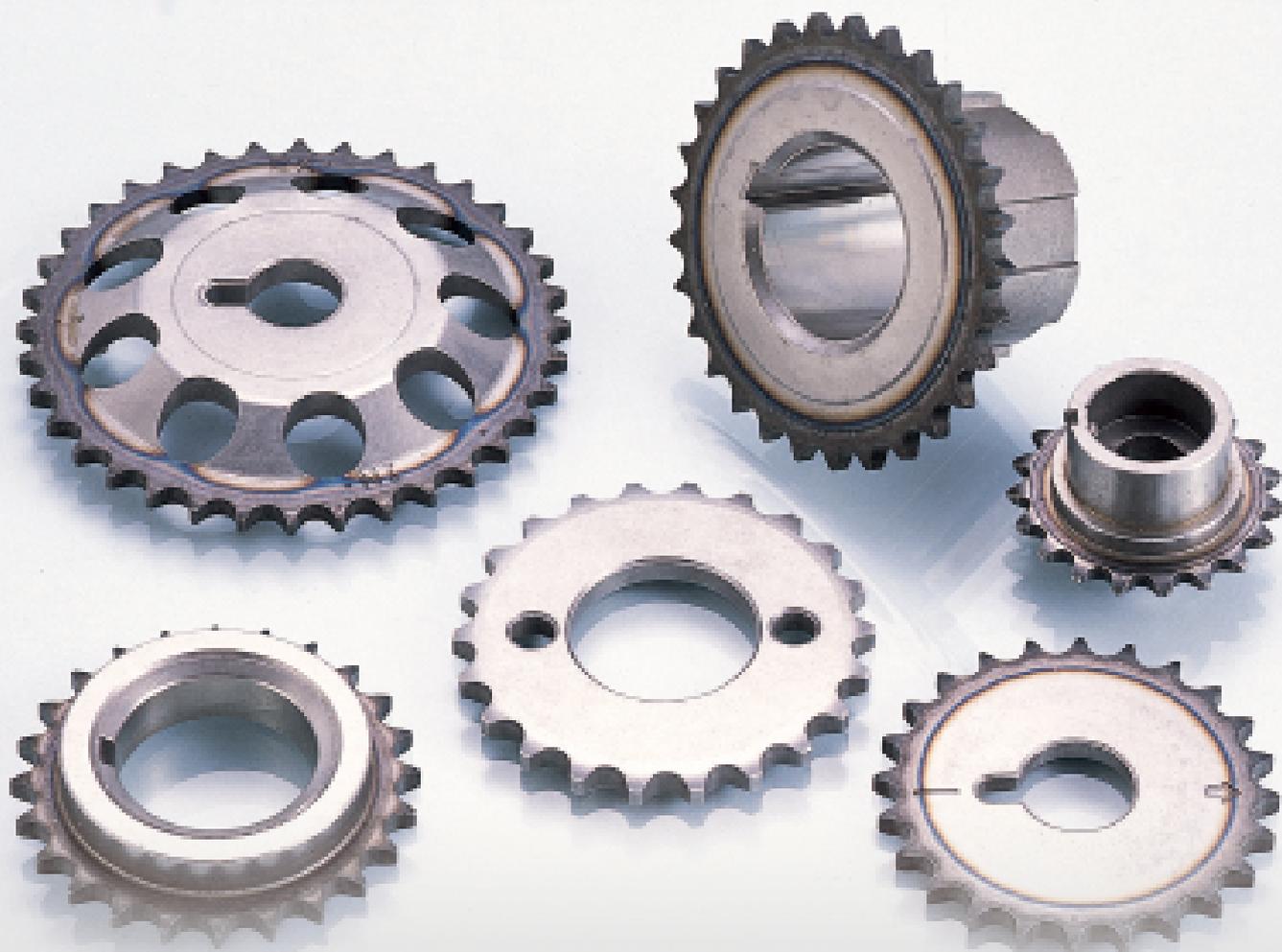
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Auroral is a specialist in powder metallurgy, supplying a variety of metal parts and components for a wide range of applications.

## Taiwan's Metalworking Companies Add Value to Overcome Growing Competition

**Efforts focused on R&D, marketing strategies and integrated operations**

Compiled by STEVE CHUANG

Facing increasing global rivalry from underselling competitors, Taiwanese metalworking and metal product manufacturers are upgrading their technology and improving their operations to boost added value.

"Added value" refers to output value minus the cost of intermediate inputs, and in the case of Taiwan is closely related to fluctuations in the prices of materials.

According to the Metal Industries Research & Development Centre (MIRDC), a government-funded research institute, the industry's added-value ratio declined to 25.5% in 2007 and 2008, largely because of skyrocketing steel prices. The ratio climbed to 29% in 2009 as steel prices dropped, before falling back to 26.7% a year later as materials prices rose.

To counter this declining trend, major metalworking and metal product companies are actively moving upmarket. The MIRDC

suggests that smaller-sized manufacturers do the same by placing greater emphasis R&D, marketing strategies, and integrated operations in order to generate higher added value.

Among Taiwanese metalworking and metal product makers, Auroral Sinter Metals Co., Ltd. and Yuang Hsian Metal Industrial Corp. are using different competitive advantages to pursue enhanced added value.

## Auroral

Established in 1996 in the central Taiwan county of Miaoli, Auroral has been engaged in powder metallurgy for over 17 years and has built up a solid reputation among buyers throughout the world, particularly from Japan, Germany, and other Asian nations, for its integrated manufacturing capability and consummate skills as well as value-added services.

Sales representative Joe Liao said that Auroral can handle almost the entire cycle of powder metallurgy processing, from raw materials mixing, compaction, sintering, sizing through secondary sintering, machining, steam treatment, oil impregnation, and vibration tumbling to pre-delivery inspection and packaging, in house. In this way the company turns out a variety of metal parts and

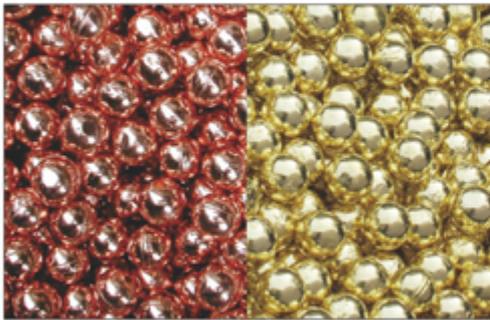
components for different applications, such as oil pump rotors, rotors, sprocket gears, and timing pulleys for automobiles; helical gears, stepping motor gears, and hardware parts for machinery and transmission systems; warm compacting parts, bevel gears, and related parts for hand tools; and bushing and filter parts. All of the products beat out the competition in terms of high quality, consistent quality, and efficiency, Liao claimed.

The company's well-integrated production capability is achieved not just by a comprehensive, in-depth knowledge of powder metallurgy and the prosperities of different metals such as like iron and steel, stainless steel, and copper, but also by a complete array of production and quality inspection equipment at its factory.

To build up its competitiveness, Liao stressed, his company has spent a considerable amount on installing state-of-the-art equipment, including 30 compacting machines from Japan, six sintering furnaces from Germany, and 17 sizing machines and two automatic ultrasonic washers, together with microcomputer universal testing machines, profile projectors, Vickers hardness testers, CNC gear measuring machines, 3D measure gauges,



Auroral's products, available in custom specifications, have penetrated the OEM chains of global carmakers.



Yuan Hsian is Taiwan's largest supplier of wrought copper and copper alloy products.

metallography pre-treatment equipment, and rotatory glass plate optical sorting machines.

With TS16949 certification and D&B D-U-N-S system registration, Auroral has tapped into the OEM (original equipment manufacturing) chains of large carmakers from China, Japan, and Germany either directly or indirectly, according to Liao. To stay competitive, he went on, the company insists on importing high-quality materials from globally known suppliers, such as iron and alloys from Japan's Kobe Seiko and Sweden's Hoganas, copper from OMG of the U.S., and stainless steel from AMTEK.

### Value-added Services

To secure sustainable growth with better customer satisfaction, Auroral provides value-added services that make it a solution

provider as well as manufacturer.

Liao indicated that in addition to powder metallurgy services, the core of its business, the company is also able to provide forging, blank stamping, lost wax (investment) casting, metal injection molding, plastic injection, precision machining, and gauge and jig services as well. The company uses its extensive experience to help foreign buyers outsource to Taiwan and take advantage of the island's quality control and technical support, along with its manufacturing capabilities. All these services, Liao said, are aimed at providing one-stop shopping that greatly cuts the time and cost of procurement.

Liao reported that his company's annual turnover has steadily grown, from US\$7.4 million in 2006 to US\$14.5 million in 2012,

and is forecast to hit US\$18.2 million in 2013, despite Europe's economic sluggishness, thanks mostly to the value-added services that generate benefits for both itself and its customers.

To maintain growth momentum and develop sustainably in the global competition, Liao said, the company will spend US\$20 million in the next few years to build a new factory and purchase new equipment to further upgrade its production capability.

## Yuan Hsian

Yuan Hsian was founded in 1979 in Taiwan's central county of Changhua to produce copper alloy wire. After decades of strenuous efforts to upgrade its manufacturing capability, today the company is an industry-leading supplier of wrought and cast copper and copper alloy products.

The firm supplies a comprehensive line of products with a full range of specifications and sizes, including free cutting brass rods and wires, copper alloy wires, EDM (electrical discharge machining) wires, copper anode materials, and soudronic can welding wires. The products are shipped to global markets including Japan, the U.S., Australia, South America, China, Southeast Asia, and South Africa, where they are widely used in industrial production, especially of electrical components and fasteners.

Yuan Hsian was qualified by the United Kingdom Accreditation Service as a BSI-ISO20000-certificated company in 2006, after obtaining ISO 9001 and ISO 9002 certification in 2003 and 1998, respectively. In 2008, the world-class manufacturer further boosted its profile by obtaining RoHS (Restriction of Hazardous Substances) approval.

The company is now able to turn out up to 1,200 tons of copper and copper alloy wires and 2,000 tons of brass rods a month, as well as 2,000 tons of RoHS-compliant cadmium-

free and cadmium-less wires and rods a year. This makes it the largest supplier of its type in Taiwan.

## Technological Competitiveness

In the face of the skyrocketing international price of copper, which has been hovering around the level of US\$7,000 per ton, along with growing rivalry from competitors in emerging countries, Yuan Hsian has managed to stay in good shape grow steadily, thanks largely to its dedication to technological upgrading.

The company is noted for being the first in Taiwan to introduce Upward Continuous Casting (Upcast) technology, in 1993, and for bringing in a vacuum bright anneal furnace and multi-die drawing machine from Europe to beef up its manufacturing capability. According to a company executive, this advanced technology can purify copper alloys by greatly reducing lead and other substances, and enhance quality and durability by adding useful elements that restructure grain size and stabilize tensile strength. In addition, brass wires and rods produced by this process are easier to machine and harder to break, which helps end-users to boost production efficiency.

Yuan Hsian initially used the Upcast process to produce brass wire rods for the cold forging of fasteners, and then applied it in the production of its C2800 series wire rods, higher-end products specifically for EDM wire redrawing, in 2009. The company's current monthly capacity of EDM wires that pass AGIE Progress V3 exceeds 500 tons.

According to the company executive, Yuan Hsian religiously believes that its technological competitiveness hinges on advanced equipment, and so has constantly brought in state-of-the-art machines including Taiwan's first imported composition analyzer in 1970, an induction furnace in 1973, a semi-continuous casting machine from Japan in 1979, and the Upcast machine in 1993. The

aim is to outstrip domestic peers and catch up with rivals from the advanced countries.

Yuan Hsian is also noted for its leadership in lead-free copper alloy production, which it claims measures up to standards established in Japan. The company began turning out lead-free brass products several years after it gained know-how about them through cooperation with Japanese counterparts in 2001. To continue holding the lead, the firm has built up a massive inventory of bismuth, a rare element that is desperately needed for making lead-free brass.

All of these efforts have borne fruit, as Yuan Hsian, backed by well-honed technology and ample materials inventory, is fully able to supply lead-free brass to customers from the optical component, medical and healthcare instrument, notebook PC, and other high-tech sectors.

Another strong driver of growth is zinc-coated wires for EDM, which have been adopted by printed circuit board makers since 2009 when the company set up a new production line for phosphor copper anode materials. [CENS](#)

### Contribution of Domestic Sales and Exports to the Growth of Production Value of Taiwan's Traditional Manufacturing Industries

Industry	2004-2007			2008-2011		
	Growth of Output Value	Contribution of Domestic Sales	Contribution of Exports	Growth of Output Value	Contribution of Domestic Sales	Contribution of Exports
Metal & Machinery Industry	22.2%	8.7%	13.5%	12.3%	7.1%	5.3%
Basic Metal	44.8%	23.8%	21.0%	7.3%	3.5%	3.8%
Metal Products	9.5%	3.2%	6.3%	9.7%	7.8%	1.9%
Machinery	26.0%	11.1%	14.9%	17.5%	4.6%	12.8%
Automobiles and other Transportation Tools	-5.6%	-12.8%	7.3%	24.5%	20.3%	4.1%

Source: Directorate-General of Budget, Accounting and Statistics, Executive Yuan, and Taiwan Institute of Economic Research; compiled by the Metal Industries Research & Development Centre

### Added Value of Taiwan's Metal Product Industry

Value Unit: NT\$1 billion

Year	2007	2008	2009	2010	2011	2012 (estimate)
Output Value	732.0	742.6	574.3	674.4	752.0	778.0
Added Value	187.4	189.4	149.1	180.1	195.5	210.1
Added-Value Ratio	25.6%	25.5%	29.0%	26.7%	26.0%	27.0%

Source: Directorate-General of Budget, Accounting and Statistics, Executive Yuan, and Taiwan Institute of Economic Research; compiled by the Metal Industries Research & Development Centre



Chuen Jaang supplies a wide range of metal parts for different industries on an OEM and ODM basis.

# Taiwanese OEM & ODM Suppliers Constantly Hone Technology to Beat the Global Competition

**Manufacturers keep ahead of emerging rivals with assured precision and quality**

By STEVE CHUANG

Driven by a consistent dedication to improving production technology, Taiwan's OEM (original equipment manufacturing) and ODM (original design manufacturing) sector has built up a solid global reputation, particularly for unparalleled manufacturing flexibility and precision.

For the past decade, Taiwanese contract manufacturers have drawn on their well-honed technology to extend their reach into more fields, from motorcycles and

automobiles to electronics, aerospace, machinery, and other products. This has helped them overcome increasingly intense competition from underselling competitors in emerging countries.

Following are brief profiles of three Taiwanese OEM and ODM suppliers that have strong technological prowess and have long cooperated with CENS in development of the global market.

## Chuen Jaang

Chuen Jaang Precision Industry Co., Ltd. was founded in 1982 in Kaohsiung City, southern Taiwan. It started out supplying auto and motor parts on an OEM basis, and is today highly reputed for its precision manufacturing services and its ability to satisfy customers' needs for the miniature, sophisticated parts and components that are increasingly demanded by industry.

Like most of its Taiwanese counterparts, Chuen Jaang was forced to transform its business in the 1990s. In the first decade of its life the company prospered as a supplier to the domestic scooter industry, but then it had to decide whether or not to devote its limited resources into upgrading its output as the demand for low-end motor parts underwent a widespread decline.

To assure its sustainable development, Chuen Jaang decided to invest considerable funds in improving its production capabilities by bringing in advanced manufacturing equipment and reinforcing quality control. That decision perhaps looked risky at the time, especially for such a small manufacturer, but it proved a success in sustaining growth.

Much of the credit for that fateful decision goes to the company's farsighted founder and general manager, Hsieh Ming-sheng. "We were inspired by the demand from Japanese and German clients for high-precision parts," Hsieh recalls, "and bought a number of computer numerical control (CNC) lathes, milling machines, and grinding machines to upgrade our production capabilities from the ground up."

## Unparalleled Precision

The investment has apparently paid off, as Hsieh claims his company has the most precise machining and grinding techniques in Asia, and can handle workpieces with diameters down to 0.03mm half the diameter of a hair and with tolerances reaching

0.001mm and surface finish as fine as 0.1um.

The firm is also able to mill items up to 2,500 mm long and 1,000mm wide, and is capable of the bar-feed lathing of bars with a diameter of 0.3 mm to 51mm and other products under 450mm with non-bar-feed production. This superior manufacturing technology sets Hsieh's company apart from emerging rivals in the global competition, and makes it a world-class supplier of high-precision parts.

Its enhanced technology has also helped Chuen Jaang to expand its customer base away from the motor parts segment, and today over 60% of the company's shipments go to overseas customers in the watch, semiconductor equipment, vehicle, electronic components, aeronautical parts, and specialized tool industries. By application, 40% of the company's output is sold to the electronic parts and accessories industry, 30% to the molds and dies industry, 20% to the automobile and machinery industry, and the remaining 10% to others.



Chuen Jaang can precisely process workpiece with diameters down to 0.3um.

After years of hard work on vertical manufacturing integration and cooperation with upstream and downstream suppliers, Chuen Jaang has developed an ODM capability as strong as its OEM prowess. Hsieh noted that his company began its

ODM business several years ago by working out an entire set of motorcycle engine parts with the help of some big domestic makers of scooters and automobiles, and that this business has won high accolades from end-users for the high quality, dimensional precision, and excellent functionality of its products.

## Kuen Tong

The experience of Kuen Tong Industrial Co., Ltd., a top-end OEM and ODM supplier of 3C parts, bicycle parts and accessories, automobile and motor parts, heat sinks, lighting parts, and other products in the central Taiwan county of Changhua, shows that insistence on technological upgrading is a vital ingredient of success for small-sized contract manufacturers.

Established in 1992, Kuen Tong has developed from a family-sized subcontractor into an ISO-9001-certificated enterprise with a modern, well integrated factory equipped with over 135 CNC machines, each of which spins an average of 22 hours a day, and over 200 workers. The firm's annual revenues top US\$16 million.

Kuen Tong's founder and general manager, Lin Zhi-zhong, reported that he started the company in a small workroom of only around 16.5 square meters, with two workers and two

tapping machines. Thanks to unstinting hard work, he said, the company was able to grow steadily until 1999, when it found its business being eroded away by underselling rivals. To compete, Lin once considered moving the company abroad to reduce operating costs.

"We assessed the feasibility of moving the factory to China," the general manager explained, "but we eventually gave up that plan, for it would have left over 80 workers unemployed and affected the livelihoods of more than 80 families."

Plan B, Lin said, was to acquire new forging technology for heat sinks that, at the time, only Japanese manufacturers could make. Despite the difficulties involved, the company dedicated itself conscientiously to the development of the needed technology; and finally, after more than four years, succeeded in applying it to mass production. This started a new chapter in the company's history, as it emerged on the global landscape as a reliable OEM and ODM supplier.

Despite the challenges that have continued to loom ahead, the company has constantly introduced new machines and sharpened its manufacturing capability, for Lin realizes that only a commitment to technology upgrading, quality improvement, and integrity can enable his company to consolidate long-term relationships with its customers. To



Kuen Tong, one of Taiwan's best-known OEM and ODM suppliers, operates a large number of CNC machines.

that end, the company has been engaged not just in developing a top-caliber R&D and management team and consistently introducing industry-leading technologies, but also in setting up electronics systems for logistics and production process management.

Also, the company works on optimizing production processes, not only to satisfy customers with speedy prototyping but also to overcome problems of abrasive wear and high materials consumption during production. This helps the company stand out technologically in the processing of aluminum alloy, carbon fiber, and titanium alloy.

### Attention to Detail

Learning from its decades-long experience of dealing with large Japanese enterprises, Kuen Tong pays strong attention to every production detail and makes use of its professionalism to optimize its customers' products.

To guarantee high quality and rapid delivery, the company has boosted its self-manufacturing ratio to over 85% and assigns the job of quality management to every worker. Each operator on the production line, Lin said, has his or her own caliper and other inspection devices, and is required to conduct on-site checking every two hours.

E-management is another prime source of Kuen Tong's competitiveness. In its factory, an SPC (statistical process control) workstation is set up for every 20 to 25 machines, enabling more precise quality control. Once a variation beyond the standard tolerance is detected during production, Lin said, the workstations can help operators to accurately measure the deviation and record it, and then automatically send e-mails to all directors and managers to report the problem.

As soon as a production process is completed, employees use a barcode system to report their work done. Process flow diagrams make all operations transparent,



The making of parts and components by Kuen Tong is controlled by advanced computer systems and strict quality measures.

allowing more effective control and easier traceability of problems. The data created can be applied to the ERP system to output related production information that facilitates decision-making.

Lin noted that his fully electronic management system can detect and expose all latent problems during production, helping to improve and optimize Kuen Tong's in-house production to prevent problems from occurring at the front end and assure that all products completely measure up to customers' requirements.

### Inter-tech Metalworks

Inaugurated in 2003 in Taichung City, central Taiwan, Inter-tech Metalworks Inc. is a growing contract manufacturer engaged in metal forming and processing, with a TUV-approved ISO 9001 certification.

This technology-driven manufacturer is well versed at water-jet cutting, laser cutting, hole punching, shearing, bending, and machining, and is recognized as a trustworthy, competent OEM supplier by customers in the machinery, electronics, furniture, sports equipment, construction, and metal product sectors.

Religiously believing that sound production capability and ample capacity are the bread and butter of subcontractors, Inter-tech has established a complete production line of advanced machinery including four laser cutters, two water-jet cutters, an NCT (numeric control turret) automatic puncher, six CNC electric benders, a sheet-metal shear, three drillers, three tapping machines, and a CO2 welder. This enables the company to fill large orders on time while achieving consistent quality.

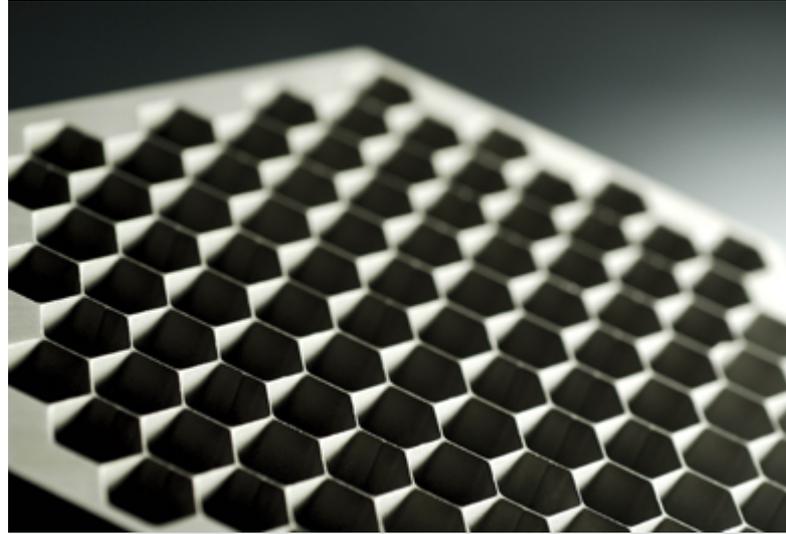
Holding firmly to its quality assurance policy of "Service, Professionalism, Reciprocity and Enthusiasm," the firm provides all-around on-the-job- training for its workers and carries out by-the-book quality measures in-house so that customers can be assured of getting what they order. Not merely a subcontractor, Inter-tech also designs and develops innovative products such as tool roller cabinets, metal furniture, magazine displays and racks, exhibition stands, metal fittings and decorations for tourist facilities, and landscaping materials.



Inter-tech specializes in water-jet cutting, laser cutting, hole punching, shearing, bending, and machining.

## Water-jet Cutting Expertise

Water-jet cutting provides Inter-tech with a particular competitive edge. The company claims that this technology has advantages that wire-cut EDM (electrical discharge



Inter-tech's water-jet machines cut finished workpieces to a tolerance of plus or minus 0.1mm.

machining) and plasma cutting cannot match, including the wide range of materials and workpiece thicknesses with which it can be used, the generation of relatively little heat so that materials do not deform or develop heat-affected zones, and the saving costs on the cutting of laminated layers. Besides, it can be faster than wire-cut EDM and outperform plasma cutting by requiring fewer processes and leaving no chips on the back of cut items.

Thanks mainly to years of dedication to the relevant technology, the company is able to handle the water-jet cutting of various materials, including marble, composite materials, glass, silicone rubber sheets, stainless steel and aluminum alloys, brass, acrylic, engineering plastics and Bakelite up 150mm in thickness.

The company claims that its well-developed know-how and advanced water-jet cutting machines, all built with dynamic cutting modes for effective tolerance control, enable it to finish materials and products with a linear positioning tolerance of plus or minus 0.1 mm and with almost no bevels, assuring customers of added value and reliable dimensional accuracy. [CENS](#)



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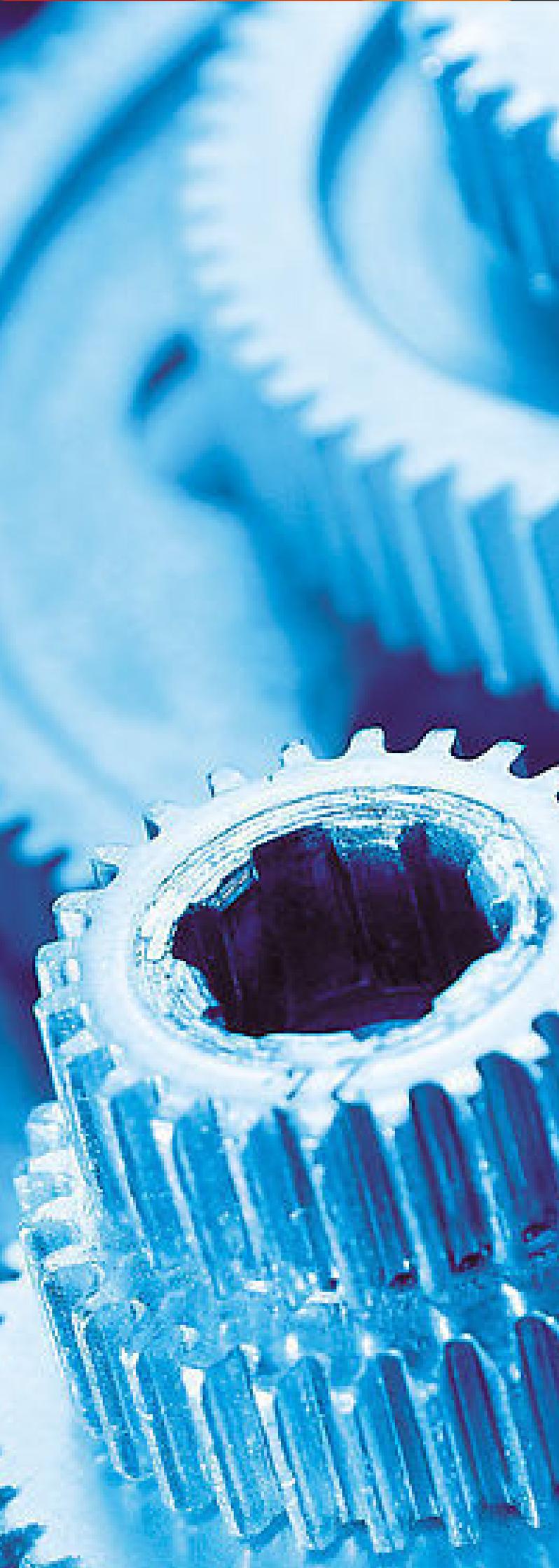
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Established in 1992, Kuen Tong focuses on innovation, accountability and continued improvement to have built solid reputation for efficiently meeting customers' requirements. Striving to be the best OEM among players in the industry, we set up our Micro-Vu Excel 651UM measuring center in 2000, which has over 200 staffers to provide a broader range of services than ever to greatly enhance customers' competitiveness in many ways. Milestones: 1992; @Sheng Chang Industry founded by Jeff Lin to engage in aluminum cutting & processing 1997; @Renamed Kuen Tong Industrial Co., Ltd. 2003; @Production facility expanded to include milling machines 2004; @Became ISO-9001:2000 certified 2005; @Set up Micro-Vu Excel 651U



## KUEN TONG INDUSTRIAL CO., LTD.

No. 5, Guosheng Rd., Changhua City, Changhua County, Taiwan 50068

Tel:886-4-737-3342

Fax:886-4-737-3343

E-mail: kt1600\_01@kuentong.com.tw

Website:



Cylinders



Motorcycle Hubs



Fuel Tank Caps



Motorcycle Center Stands for OEM

# SPINTRUE TECH. CO., LTD.

## Spindles

A specialized spindle maker, Spintrue Tech. has a management team with ample experience in spindle design and fabrication. To pursue better quality that exceeds customers' expectations, we are detail-minded, stringently controlling quality throughout production, including spindle design, material selection, lathing, milling, grinding, heat treatment, precision assembly, output inspection, packaging, and delivery.



CNC車床主軸

Spindle for CNC lathe  
(A2-4; 140mm OD)



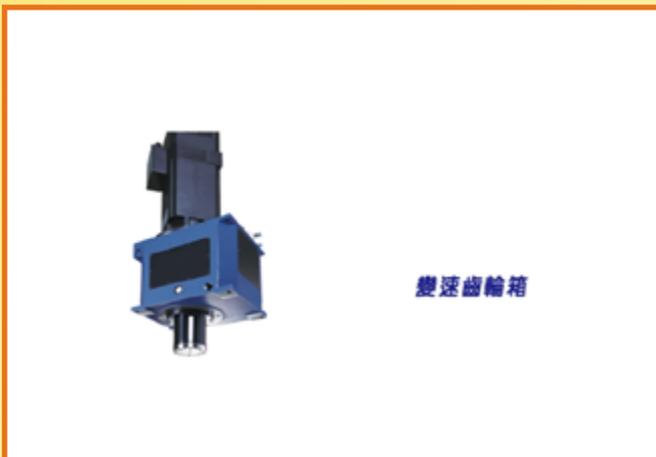
皮帶式主軸

Belt-driven spindle  
(BT30-50; 100-190mm OD)



內藏式主軸

內藏式主軸



雙速齒輪箱

Transmission gearbox (Series 250)

## SPINTRUE TECH. CO., LTD.

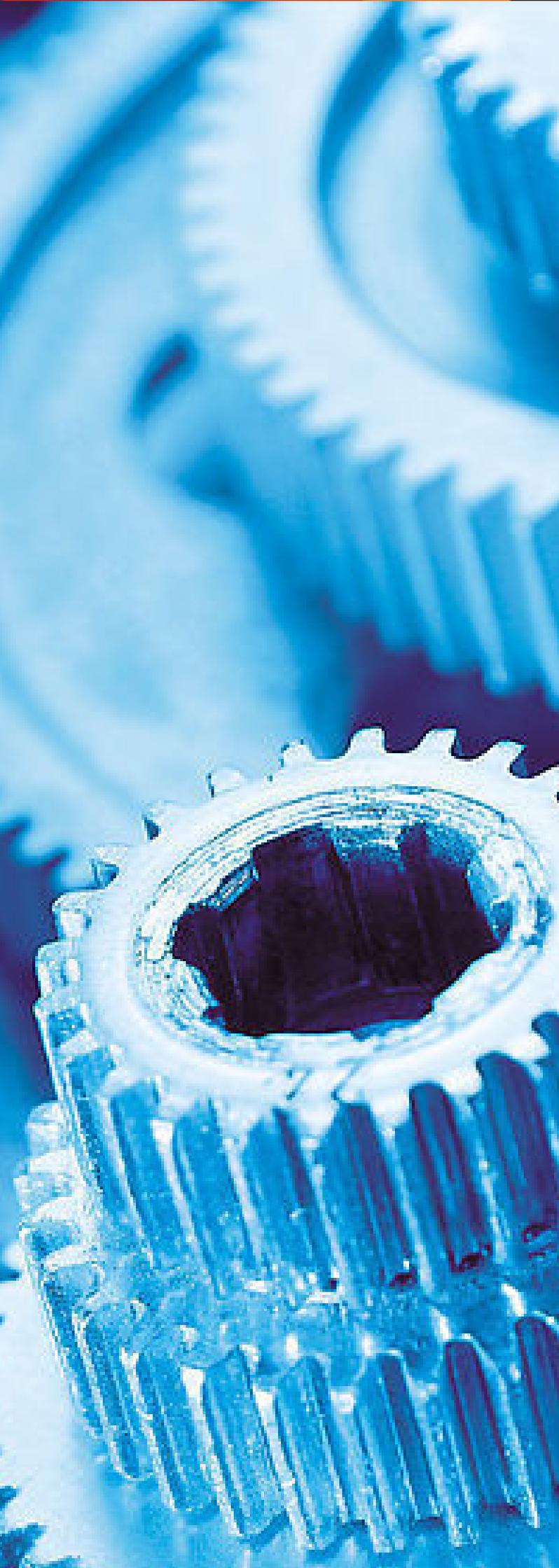
No. 395-1, Yatan Rd., Sec. 2, Tanzi Dist., Taichung City,  
Taiwan 427

Tel:886-4-2531-1390

Fax:886-4-2533-2660

E-mail: jack@spintrue.com.tw

Website: www.spintrue.com.tw



# Formed Parts

## Recommended Advertisers

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KUNTECH INTERNATIONAL CORP.

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## Advertiser Index

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RE-SHINE COMPANY LIMITED

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SHEEN TZAR CO., LTD.

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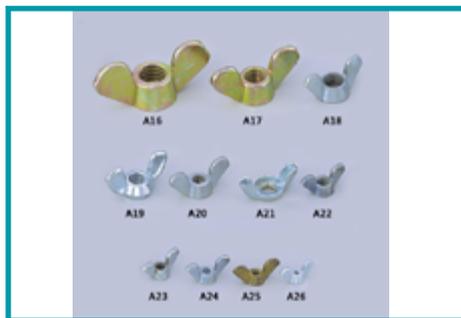
SHEN HAE SPRING CO., LTD.

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# A GOOD INDUSTRIAL CO., LTD.

## Aluminum Zinc Cast Nuts, Other Parts for K/D Furniture, Flanged Threaded Inserts (D-type), Threaded Inserts (E/P-

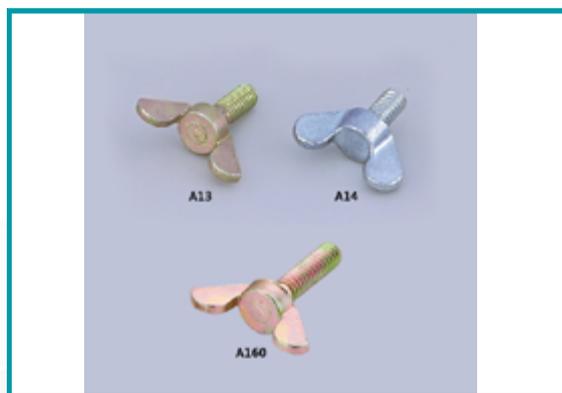
Founded in 1980, we make and sell wide-ranging metallic (including zinc-alloy) furniture parts and accessories as nuts, threaded inserts, screws, etc. Contact us to tap our considerable expertise as OEM, ODM and custom services!



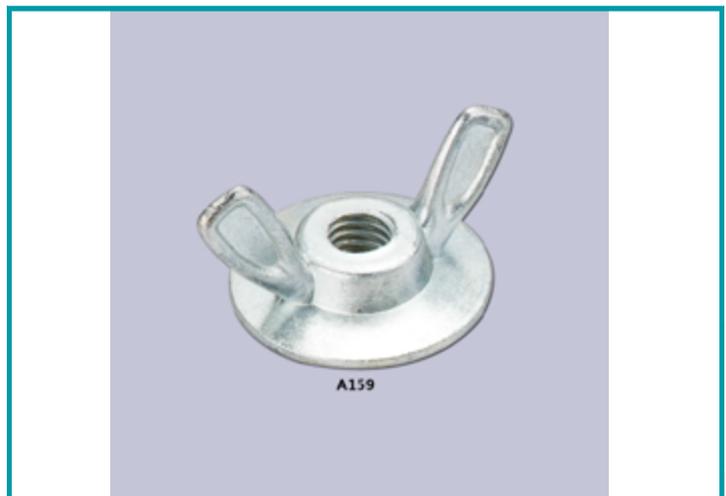
Wing nuts



3-hole flanged threaded insert



Wing nuts



Flanged wing nuts

### A GOOD INDUSTRIAL CO., LTD.

No. 26, Lane 130, Shenchou Rd., Shengkang Dist., Taichung, Taiwan 429

Tel:886-4-2527-4090

Fax:886-4-2528-9333

E-mail: [kk.a77329@msa.hinet.net](mailto:kk.a77329@msa.hinet.net)

Website:

# KUNTECH INTERNATIONAL CORP.

**Screws, Nuts, Studs, Shafts, Stamping Parts, Turning Parts, Hardware**



CNC Machining



CNC Machining



Cold Forming



Cold Forming

Kuntech is a professional fasteners manufacturer since its foundation in 1989 in Taiwan. We are devoting ourselves in special (customized or non-standard) fasteners and hardware. Our customers are from many industrial territories, such as autos, motorcycles, bicycles, furniture, sports, toys, 3C, and etc. To increase our competitive vantages in prices, quality control, and real-time delivery, we set a manufacturing facility, named Sanhewlett Metal Products Company, in China since 1991. Now our China Factory has grown up to a 300 employees and 400 tons monthly yield facility. There is no manufacturer can satisfy all the customers in all products. There are more and more products, which are over our production capability and capacity, requested from our present customers. We are not only introducing more equipment but also enhancing our sourcing capability to find out other reliable manufacturers to serve and satisfy our



## **KUNTECH INTERNATIONAL CORP.**

8th Fl.-5, No. 262, Henan Rd., Sec. 2, Taichung City, Taiwan 407

Tel:886-4-2258-2870

Fax:886-4-2258-2875

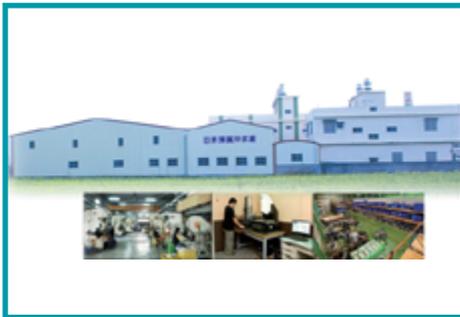
E-mail: [info@kuntech.com.tw](mailto:info@kuntech.com.tw)

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

# JIH SHENG SPRING CO., LTD.

## Springs, Custom Springs, Retaining Springs & Irregularly-Shaped Springs, Springs For Molds/Dies, Household Items,

Established in 1997, Jih Sheng Spring Co., Ltd. has over 10 years of experience in making springs for electronics, electrical machinery, pneumatic/electric tools, automobiles, precision optical instruments, lighting products, hydraulic equipment, hardware (including locks), etc. Backed by advanced technology and innovative facilities, we now have two factories covering 86,400sq.ft. in total: one each focusing on precision spring manufacture and stamping hardware on straight-axle pneumatic presses. Well-equipped factories enable us to offer versatile processing services and prompt technical support. Using precision inspection instruments to ensure top quality, we became ISO 9001:2000 certified in January 2009.



Stamped Hardware Factory



Springs For Molds/Dies



Spring Plant Facilities



Staff

### JIH SHENG SPRING CO., LTD.

No. 117, Fuxing Lane, Homing Village, Hsiushui Township, Changhua County, Taiwan 504

Tel: 886-4-769-6507

Fax: 886-4-768-3303, 768-8422

E-mail: n45.n47@msa.hinet.net

Website:



# RE-SHINE COMPANY LIMITED

## Hand Tool Processing, Extension Angle-milling, Processing of Round-headed Extension, Spherical



Machining of Extension for Manual Tool

Engaged in hand tool processing as angle milling, spherical and OD machining, as well as deburring and welding, we do our utmost to achieve high precision, quality and efficiency, aiming to constantly develop innovative, reasonably-priced products to satisfy customers and achieve sustainability. Improving, innovating production and technologies, we have been growing steadily, offering quality products and a variety of designs delivered promptly, with competitive prices and dedicated service. We also welcome small-volume orders. Talk to us to enjoy quality, speedy and professional services.



Pneumatic Arbors



F-bar / Processing of H-handle



3/4"Extension for L bar



### RE-SHINE COMPANY LIMITED

No. 1, Lane 438, Guangxing Rd., Taiping Dist., Taichung City, Taiwan 411

Tel:886-4-2271-3663

Fax:886-4-2271-3670

E-mail: with466833@yahoo.com.tw

Website:

# *SHEEN TZAR CO., LTD.*

## **Heading Machines for Bolts and Screws, Bolt Slotting Machines, Bolt Threading Machines, Screw Making Machines, Screw and Nut Making**

screw forming machines : Established in 1981, Sheen Tzar Co. specializes in the R&D and manufacturing of high speed self-drilling screw forming machines and dies. Having been running and growing steadily in the field for over two decades. We've paid very close attention to the quality of each of our machine and mold products. Constant improvements have made our products best of their kinds. With each and every component meeting highest-level quality standards, our products are thus highly recommended for their superb quality. Using the most innovative materials instead of traditional ones, our strong R&D team actively researches and develops superior products that meet the most critical market demands. Our products are not only sound and solid inside but also attractive in their appearances. To further expand our production range, we set up a plant in

### ***SHEEN TZAR CO., LTD.***

170 Shihku Lane, Kuochung Rd., Tali Dist., Taichung City, Taiwan 412

Tel:886-4-2406-0023

Fax:886-4-2406-0824

E-mail: sheen.tzar@msa.hinet.net

Website:



Self-Drilling Screw Forming Machine



Self-Drilling Screw Forming Machine



Self-Drilling Screw Forming Machine



Self-Drilling Screw Forming Die

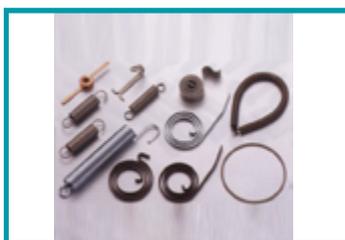
# SHEN HAE SPRING CO., LTD.

## Springs, Leave Springs, Coil Springs, Extension Springs, Compression Springs, Tension Springs, Automobile Springs,

Founded in 1983, we have experienced R&D, production and QC teams making customized compression springs, torsion springs, expansion springs, springs for electronics, leaf springs etc. To assure high-precision, we adopt advanced production facilities, including multifunctional spring-making machines, S-spring making machines, S-spring coiling machines, computerized spring-making machines, CNC precision spring-processing machines, 6-axis CNC spring processing machines, tooling equipment, stress-relieving heat-treatment equipment, CNC image measurement equipment, computerized load testers etc. From material sourcing to compression, tension and torque testing, we do our utmost to meet customer demand for top quality, reasonable



Springs



Springs



Springs



Springs

### SHEN HAE SPRING CO., LTD.

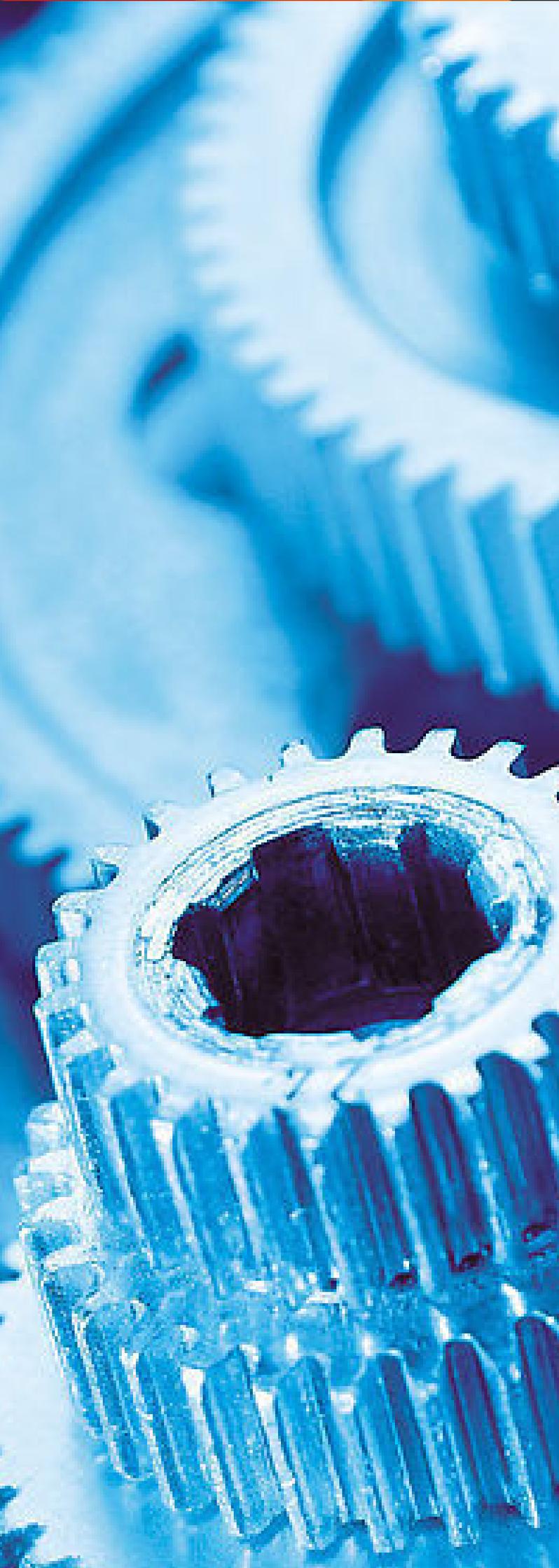
No. 349, Paoan St., Sec. 2, Shulin Dist., New Taipei City, Taiwan 238

Tel:886-2-2689-7277

Fax:886-2-2689-7279

E-mail: shen.hae@msa.hinet.net

Website:



# Casting, Forging and Die-casting, Heat Treating

## Recommended Advertisers

[YOU JI PARTS INDUSTRIAL CO., LTD.](#)

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## Advertiser Index

[SHENG YI INDUSTRIAL CO., LTD.](#)

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# YOU JI PARTS INDUSTRIAL CO., LTD.

## Forging Auto Parts, Aluminum Alloy Forgings, Aluminum Alloy Forgings Cast Parts, Forgings, Globe & Check Valves,

Founded in 1973 as a hot and warm-forging specialist, You Ji Traffic Co., Ltd. is an ISO 9001-certified maker of automotive transmission parts, stainless steel parts, warm tooth-form forging etc. Prioritizing quality and forging technologies, we welcome subcontract and OEM orders from players at home and overseas. Forging materials: Typical carbon steel, stainless steel, aluminum alloy, and brass alloy Forging equipment: Three forging lines, 3 high-frequency heating furnaces Main products/services: Forged auto/motorcycle parts, stainless steel and aluminum alloy items, as well as non-ferrous items, plus subcontract processing services Metallic items: Bevel gears; spindles; automotive gears, rockers; motorcycle gears; speed-reducer gears etc. Stainless-steel items: Flanges, disc valves, discs, check valves, tubing etc. Non-ferrous items: Brass alloy and aluminum alloy Max. OD of stainless steel items: 180mm; max. weight: 7kgs Max. OD of alloy



Forged Parts/Deep-Hole Forging



Special Forging/Forged Parts



Forged Parts/Industrial Valves/Stainless-Steel Forgings/Stainless-Steel Valves



Forged Parts/Components For Cultivators And Bicycles



### YOU JI PARTS INDUSTRIAL CO., LTD.

No.12, Alley 2, Lane 741, Tungping Rd., Taiping Dist., Taichung City, Taiwan 411

Tel:886-4-2270-2861

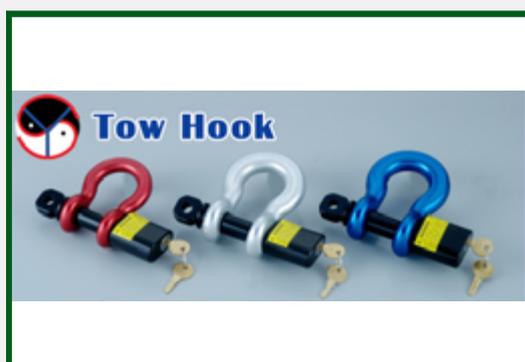
Fax:886-4-2270-5974

E-mail: ching062@ms57.hinet.net

Website:

# SHENG YI INDUSTRIAL CO., LTD.

**Hardware Parts Forging, Hardware Parts  
Development, Aluminum Alloy Forging, Brass Forging,**



Tow Hook (D-ring)

Founded in 2003 in the Dali Industrial Park in central Taiwan, Sheng Yi Industrial Co., Ltd. designs and makes forged products, including parts in high-strength brass, copper and aluminum alloys for aeronautical, automotive, motorcycle, mechanical, hydraulic pump and power equipment applications. Originally in a 25,200 square foot plant set up by San Yi Industrial Co., Ltd., we moved to the current Yongfong plant in 2013 due to production expansion and increased in-house production. Now in a 54,000 square foot plant, we are fully equipped for integrated production with higher competitiveness in quality and quantity. Striving to grow continually and take the lead, we steadily design, innovate and improve production to enhance added value of products.



Hardware Parts



Hardware Parts



Hardware Parts



## SHENG YI INDUSTRIAL CO., LTD.

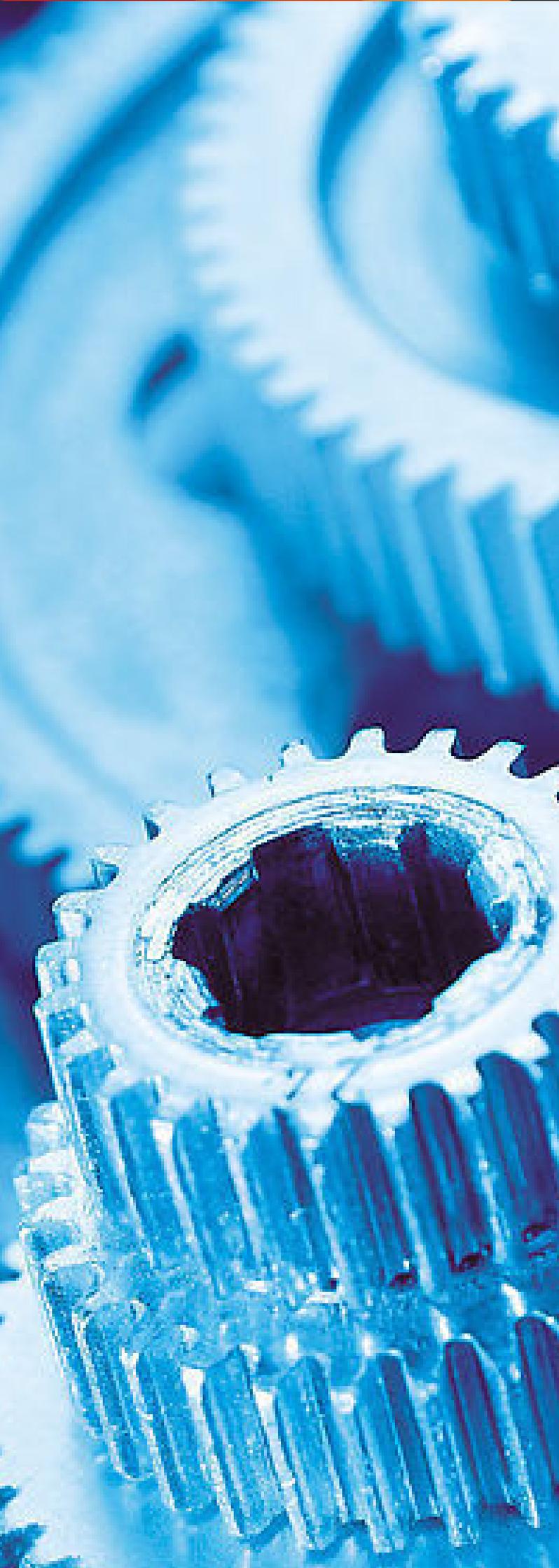
No. 28, Lane 291, Yongfong Rd., Taiping Dist., Taichung City, Taiwan 411

Tel: 886-4-2351-0169

Fax: 886-4-2351-0616

E-mail: [aluminium\\_forging@msn.com](mailto:aluminium_forging@msn.com)

Website: [www.sy-power.com.tw](http://www.sy-power.com.tw)



# Powder Metallurgy

## Advertiser Index

AURORAL SINTER METALS CO., LTD.

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YUJE CO., LTD.

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# AURORAL SINTER METALS CO., LTD.

## Powder Metallurgy



Inner and Outer Rotor



Powder Metallurgy



Transmission Parts



Synchronizer

Auroral, which is located in Zaociao town, Miaoli county in Taiwan, is a professional manufacturer of powder metallurgy since 1996. Auroral always adheres to the motto "Sincere management, best service, superior quality in the field of the powder metallurgy. We also pursue the spirit of innovation and creation by update modern equipments. All the efforts we make is for promoting competition. Our perspectives focus on internationalized and diversified development. We provide automobile parts, pump gears, rotors and so on. Auroral can grows steadily due to customer's support and affirmation. Furthermore, employees are viewed as the most valuable assets. We have the faith that self-improving and skill-sharpening will lead us to establish the strong and competitive enterprise.



## AURORAL SINTER METALS CO., LTD.

No.10, Dongxing, Lin 13, Zaociao Village, Zaociao Township, Miaoli County, Taiwan 36141

Tel:886-37-542-988

Fax:886-37-541-656

E-mail: am@auroral-sinter.com.tw

Website: www.auroral-sinter.com.tw

# YUJE CO., LTD.

## Tungsten Carbide-tipped Saw Blades

YUJE CO., LTD. is dedicated in Tungsten Carbide-tipped Saw Blades with operations in Taiwan



Tungsten carbide-tipped saw blades



Tungsten carbide-tipped saw blades



Tungsten carbide-tipped saw blades

### YUJE CO., LTD.

No. 297-6, Taichung Rd., East Dist., Taichung City, Taiwan 40146

Tel:886-4-2280-8855

Fax:886-4-2280-2280

E-mail: yuject@gmail.com

Website: www.yjdiamond.com



# Soldering and Welding of Tubing, Sheet Metal, Wires, etc.

## Recommended Advertisers

INTER-TECH METAL WORKS INC.

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CHUNG I SILVER SOLDER CO., LTD.

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CHUNG TIE ELECTRICITY WELDING MACHINERY CO., LTD.

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# INTER-TECH METAL WORKS INC.

**Laser Cutting, Punching, Shearing/Cutting, Bending, Welding and Assembly of Brass/Aluminum/Iron/Stainless-**

INTER-TECH METAL WORKS INC. is dedicated in "Laser Cutting, Punching, Shearing/Cutting, Bending, Welding and Assembly of Brass/Aluminum/Iron/Stainless-Steel Plates, Components, Machine/Decorative Metal-Sheeting, Metal Scaffoldings, and Landscaping Constructions, Laser Cutting, Hole Punching, Silicone Rubber Sheets, Innovative Products" with operations in Taiwan.



Sheet Metal Working  
Machines



Sheet Metal Working  
Machines



Sheet Metal Working Machines



Sheet Metal Working Machines

## **INTER-TECH METAL WORKS INC.**

No. 107, Lane 115, Shueiyuan Rd., Fongyuan Dist.,  
Taichung City, Taiwan 420

Tel:886-4-2515-9511

Fax:886-4-2515-9533

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

Website:

# CHUNG I SILVER SOLDER CO., LTD.

## 99.99% Silvers, Silver Brazing Alloys, Silver Solders, Phosphorus Copper Alloys, Phos Copper Alloys

Since the establishment in 1978, relies on the developing product with stable quality, Chung I has been manufacturing from the materials of silver brazing alloy to related business such as High-Tech soldering materials, fuse conductivity wire, advanced glasses soldering wire, flux-cored brazing alloy, and Tri-foil alloy etc., Furthermore, we invested the abrasive factory in Taiwan in 1986, and established CHUNG FU OPTICAL LENS FACTORY in Mainland China in 1995 which manufactures all kinds of sunglasses and reading glasses lens. In order to face the fierce competition in 21st century, we consider not only enhance the quality and develop new products, but also provide better service to our clients in the vicinity and expand the global channel. Hence, we set up our branch factory in DongGuan, China for further services and started the production since 2003.



### CHUNG I SILVER SOLDER CO., LTD.

No. 23, Hsinai Rd., Anping Industrial Park, Tainan City, Taiwan 702

Tel:886-6-291-0706

Fax:886-6-263-7167

E-mail: [cisscl@ms23.hinet.net](mailto:cisscl@ms23.hinet.net)

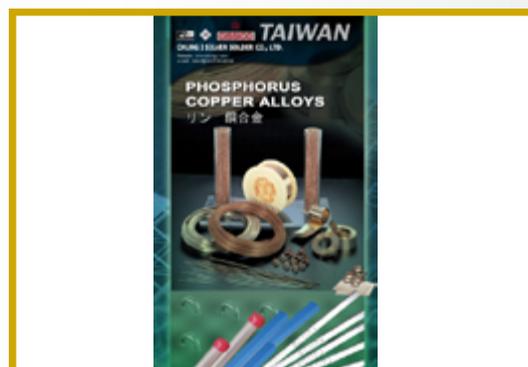
Website: [www.chung-i.com](http://www.chung-i.com)



Flux cored Seamless tubular



Silver-Based Brazing alloys



Phosphorus Copper Alloys



COPPER ALLOYS

# CHUNG TIE ELECTRICITY WELDING MACHINERY CO.,

## Spot Welding Machines, Multi-Spot Welding Machines, Pneumatic Seam Welding Machines, Pneumatic Butt Welding

Welding machine : We would like to introduce ourselves as the manufacturer and specialized in making welding since 1972, started at welding machine for metal wires. In 1974, we developed the welding machine for fan grille. We upgraded the machine to be automatic instead of semi-auto operation. Also kept on improving the whole plant equipment for fan network welding. Those precision and high efficiency equipments for molding industry make the production cost lower and profit increasing. In 1985, we developed a series of welding machines for the industry. Such as:

1. Multi-spot welding machine. The machine is automatic feeds and suitable for welding the steel of construction, racks and flat steel surfaces.
2. Hydraulic multi-spot welding machine for grid



Electric Fan Guard Production Flow



Auto Rolling Cutter



Column Type Multi-Spot Welding



Column Type Multi-Spot Welding Machine



### CHUNG TIE ELECTRICITY WELDING MACHINERY CO., LTD.

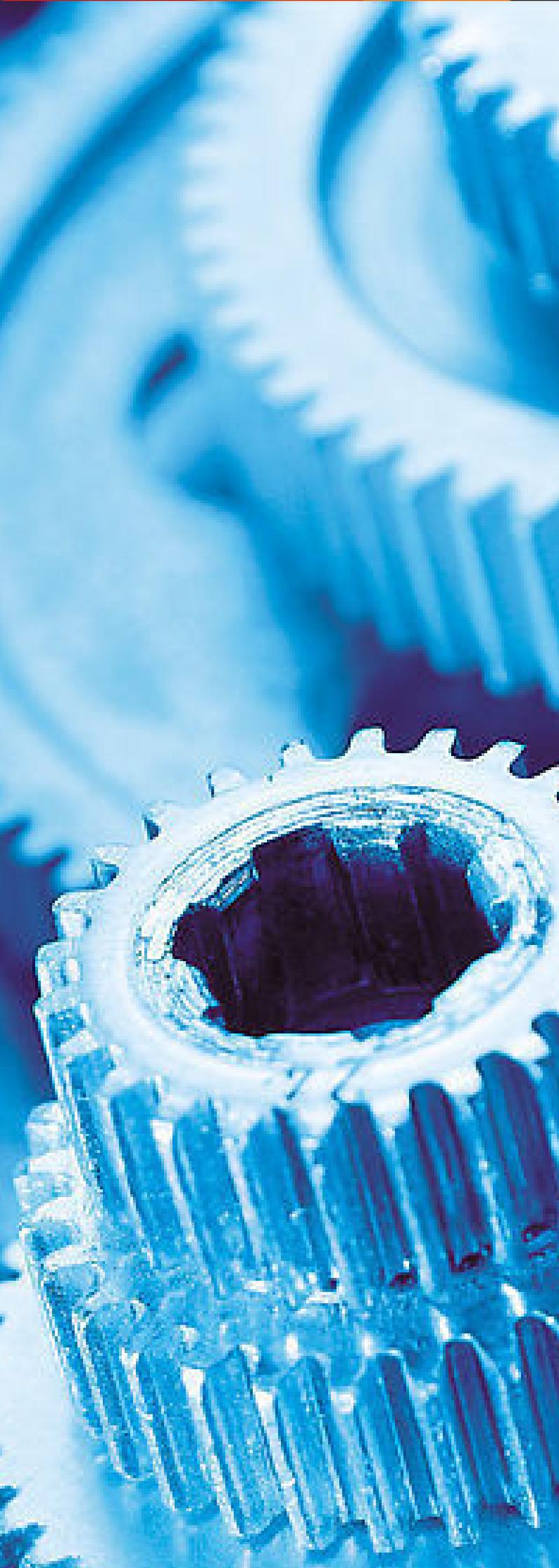
No. 163-8, Chengfeng Lane, Taiming Rd., Wujih Dist., Taichung City, Taiwan 41468

Tel: 886-4-2335-6998

Fax: 886-4-2335-6559

E-mail: ctewmcl@ms77.hinet.net

Website:



# Plastic Parts

## Advertiser Index

YOUNG SHANG PLASTIC INDUSTRY CO., LTD.

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SHEN SHAN INTERNATIONAL GLIDE MFG. CORP.  
(EXCELSIOR WORLDWIDE CORP.)

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# YOUNG SHANG PLASTIC INDUSTRY CO., LTD.

**Plastic Tableware, PET / PVC / PS  
Plastic Container, PET Plastic Jar,  
PET Plastic Bottle, PET Jar, PET  
Bottle, Narrow Neck Bottle,**

At the production forefront of various PET bottles and wide mouth plastic jars, Young Shang Plastic Industry Co., Ltd. earns good reputations and comments on our high quality plastic products, such as aluminum easy open ends, water dispensers, plastic molds, plastic jars, wide mouth jars, PET preforms, PET / PVC / PS containers, and other plastic containers. We own advanced production technology and advanced equipment including NISSEI ASB injection-stretch-blow molding machines and two stage blowing machines of the latest generation. Extending to worldwide markets, Young Shang supplies a variety of plastic containers and other related products. We offer you high quality clear plastic containers which are produced with over 200 sizes ranging from 15cc to 5 gallons, as well as preforms which are ranging from 28mm to 180mm for two stage blowing machines. We



**YOUNG SHANG PLASTIC INDUSTRY  
CO., LTD.**

No. 6, Wenming 1st St., Gueishan Township, Taoyuan  
County, Taiwan 333

Tel:886-3-397-9788

Fax:886-3-397-9799

E-mail: youngshang@yahoo.com

Website: www.youngshang.com.tw



120mm Series Wide Mouth Jar



63mm Series Wide Mouth Jar



28mm Narrow Neck Bottle



120mm Series Wide Mouth Jar

# SHEN SHAN INTERNATIONAL GLIDE MFG. CORP.

## Casters, Adjustable Gliders, Knobs, Inserts, Round/Bullet Squ

Founded in 1981, Shen Shan International Glide MFG. Corp. specializes in plastic products applicable to furniture accessories, healthcare equipment, sporting goods, hardware accessories, mechanical hardware etc. Backed by ample experience, we offer standard and custom products made as per shop drawings and samples. Equipped with plastic injection molding machines and robotic arms, we use automatic production systems to ensure consistent quality. Known for competitive prices and short lead time, we have built solid reputation among customers, and are steadily developing advanced technology. Emphasizing tooling quality, we have set up a tooling department to handle QC and shorten lead time. Backed by precision equipment and expert staff,



### SHEN SHAN INTERNATIONAL GLIDE MFG. CORP. (EXCELSIOR WORLDWIDE CORP.)

No. 10, Lane 267, Minsheng Rd., Sec. 3, Yafeng Borough, Taya Dist.,  
Taichung City, Taiwan 428

Tel:886-4-2566-5612

Fax:886-4-2567-2556

E-mail: [service@excelsior-corp.com](mailto:service@excelsior-corp.com)



Plastic handle with zinc-alloy ring



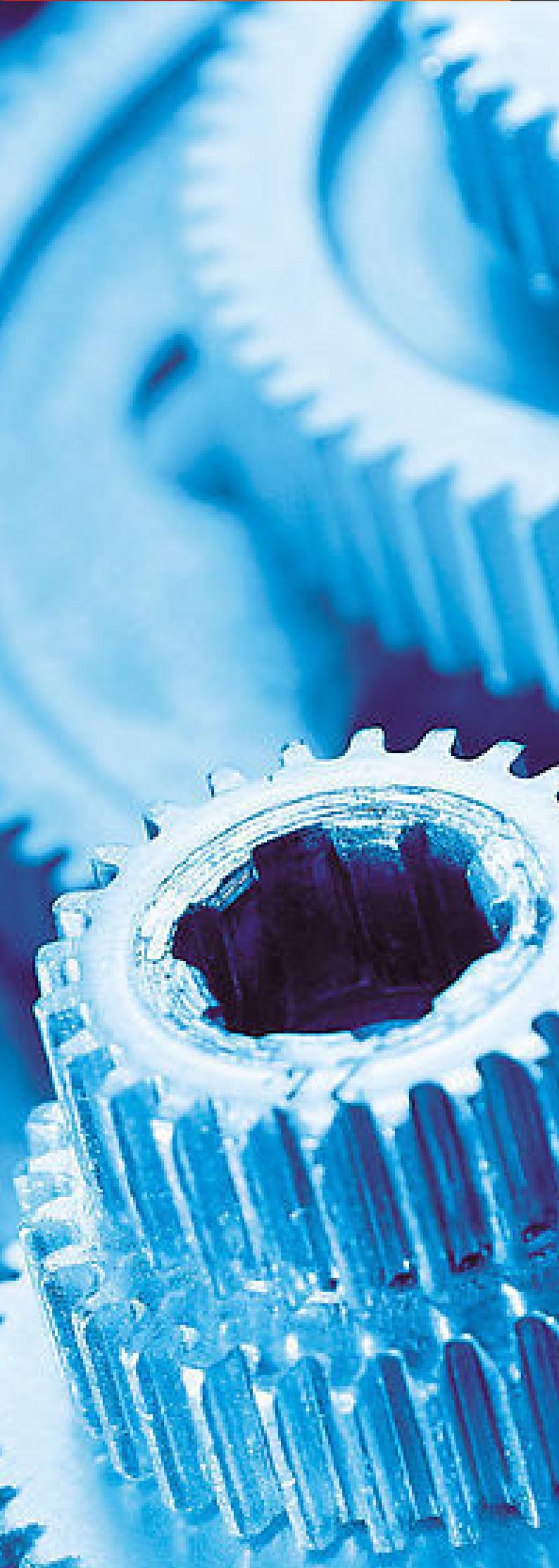
Plastic handle/Aluminum handle



Steel cover glide



Twin wheel caster



# Rubber Parts

## Advertiser Index

[TAI TSUANG OIL SEAL INDUSTRY CO., LTD.](#)

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[YOW SONG INJECTION MOLDING CO., LTD.](#)

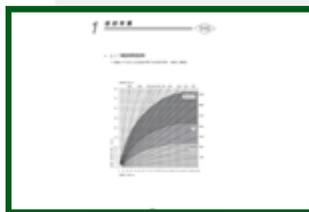
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# TAI TSUANG OIL SEAL INDUSTRY CO., LTD.

**Oil-Seals, O-Rings, Rubber Parts, Transmission System, Machinery Parts, Auto Parts, Motorcycle**



Oil seal material (rubber)



Oil seal material  
(rubber)



Metal Case/ Spring

Oil seal material (rubber)

Tai Tsuang Oil Seal Ind. Co. Ltd. Originally based on technical joint venture with Japanese oil seal company, we continue to research new compounds for all applications. Through life testing equipment, we verify the actual material under specific conditions and the testing data can be apply to upgrade our other products. In view of international developing, we introduce the well-known quality assurance system ISO9002 into our company to control every stage of the process. This is to achieve consistent and reliable services. TTO has been enjoying a leading reputation. In gathering our 40 years experience we clearly understand the characteristics of seal's usage and manufacturing. From designing (Auto CAD), molding, metal case treatment (computer control), spring, vulcanization (vacuum forming) to package, all process are manufactured by ourselves. In order to stay ahead of our competition, we are developing more and more



## TAI TSUANG OIL SEAL INDUSTRY CO., LTD.

2-1 Fukung Rd., Fuhsing Township, Changhua County,  
Taiwan 506

Tel:886-4-769-6111

Fax:886-4-769-7669

E-mail: sales@tto.com.tw

Website: www.tto.com.tw

# YOW SONG INJECTION MOLDING CO., LTD.

## High Quality Silicone Rubber Products, Specifically for Medical, Food and Industrial Applications, Odd-Shaped

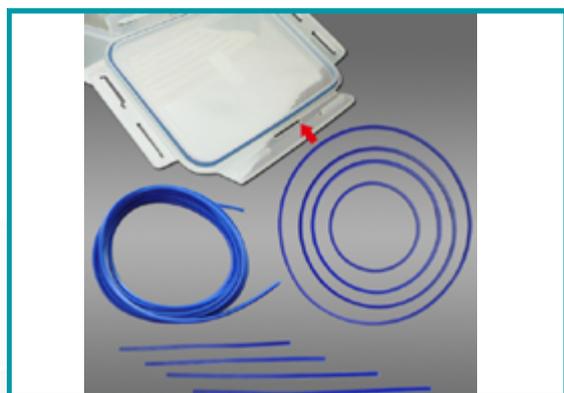
Founded in 1987, Yow Song Injection Molding Co., Ltd. is engaged in making silicone rubber products, with advanced extruders and hot-extrusion-molding machines. Designed for medical, food and industrial applications, our products include silicone rubber hoses (for medical instruments, drinking-water dispensers and electronics), air-seal strips, gaskets (for airtight jars and cosmetic bottles), irregularly-shaped strips (for doors of dish-dryers, dehumidifying storages, and machinery), and hot-extrusion-molded items (including suction cups, keyboard keys, gaskets, clothes-iron rests, and electronic shock-resistant/heat-insulation pads). Contact us for more information. Company name: Yow Song Injection Molding Co., Ltd. Owner: Lin Sen-yung



Air-Seal Strips



Silicone



Air-Seal Strips



Silicone Rubber Tubing for Industrial Applications



## YOW SONG INJECTION MOLDING CO., LTD.

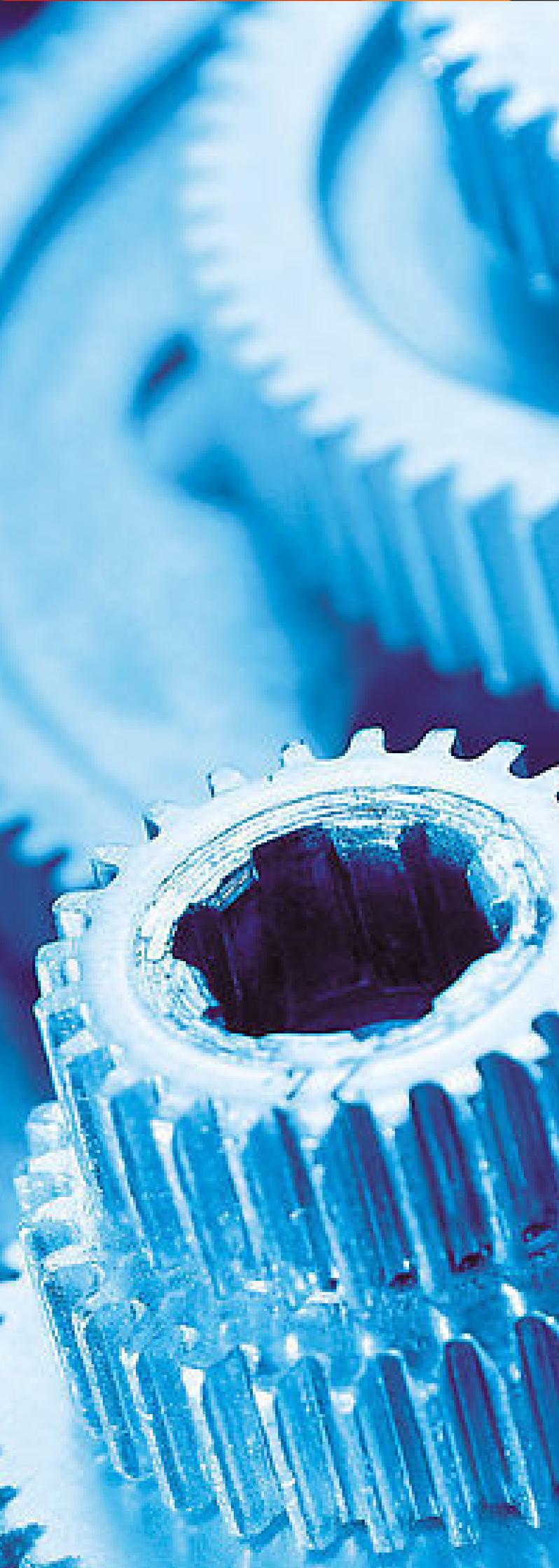
No. 27, Peifeng Rd., Wufeng Dist., Taichung City, Taiwan 413

Tel:886-4-2330-3868

Fax:886-4-2333-5251

E-mail: horsemax@ms76.hinet.net

Website:



# Surface Treatment

## Recommended Advertisers

[DO JIN CO., LTD.](#)

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# DO JIN CO., LTD.

## Manufacturer and Exporter of PVC Handle Sleeves for All Types of Valves, Hand Tools, Hardware Products,



Handles

Founded in June of 1997, our company specializes in the manufacture of various valves and hand tools, as well as PVC handle protectors. Available in a wide variety of specifications, styles, and colors, our products are now sold at both domestic and foreign markets. We offer special designs for piping products. Specification designs from customers are also welcomed. Meanwhile, we offer prompt delivery of any amount of products ordered, thus helping you reduce costs.



Handle



Hand tool kits



Handles

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Lathe Tailstock

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Fax: 886-4-2335-7567

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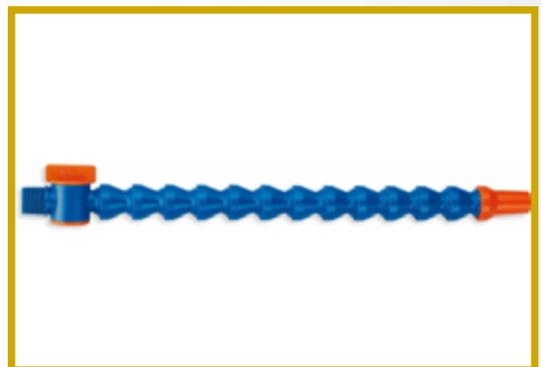
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CODE KEY



3-PC Ball Valve



Y-Strainer



3 Way Ball Valve (ENCONOMIC TYPE)



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Male F Type And Double Female



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Needle Valve



Needle Valve



Small Boiler Safety Valve



Safety Relief Valve

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Tel:886-4-2239-8302, 2239-1480

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E-mail: hopeet@ms3.hinet.net

Website: www.hopeet.com.tw

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Sanitary Butt Weld End Ball Valves



Sanitary Butt Weld End Ball Valves



Sanitary Butt Weld End Ball Valves



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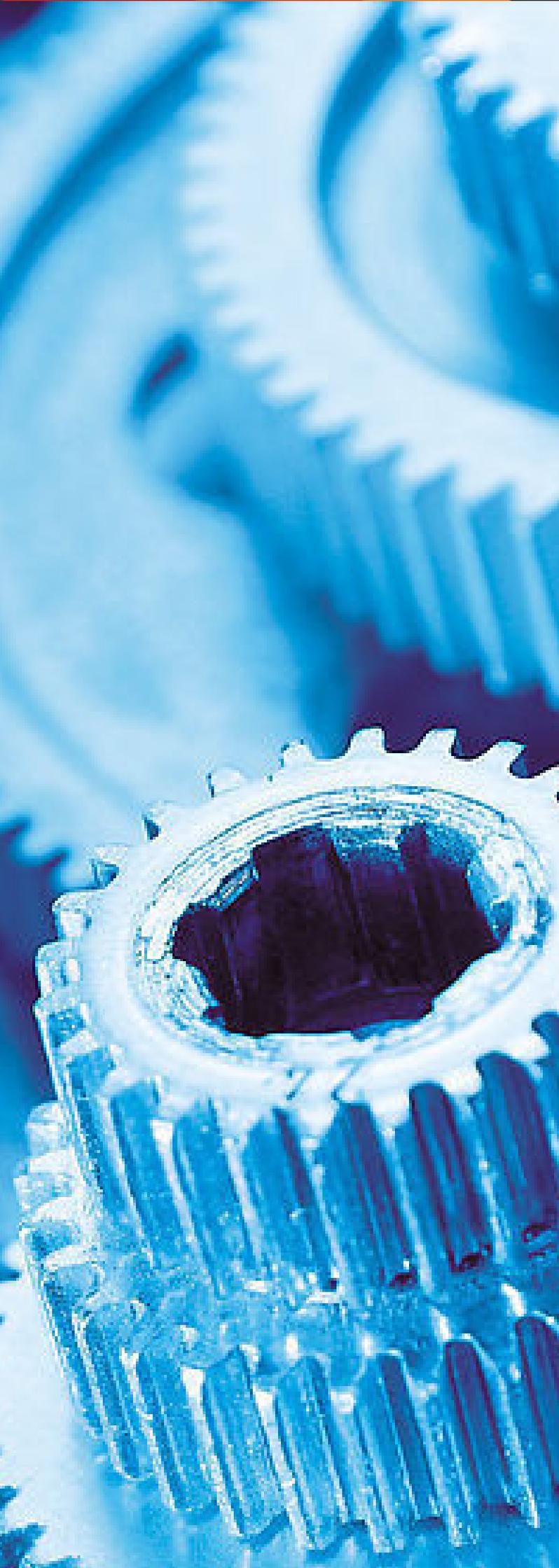
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# Transmission System

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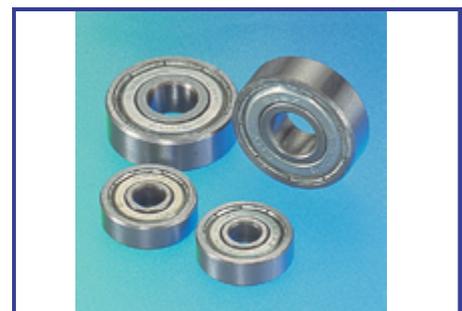
Ball bearing



Ball bearing



Ball bearing



Ball bearings

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CSPTEP



CSPEP



DSC-ZP23



DSC-10688

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Piston Ring



Piston Ring



Piston Ring



Piston Ring

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Fax: 886-4-2330-6173

E-mail: [clr@ms78.hinet.net](mailto:clr@ms78.hinet.net)

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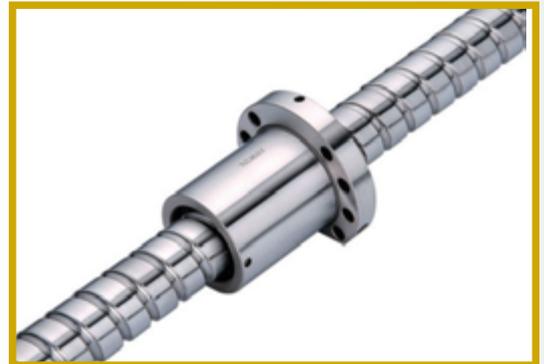
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Fax:886-4-2359-4420

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

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E-mail: info@li-ming.com

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Gears



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SpecialBallscrewB



BallScrewSFIS



BallScrewSFI

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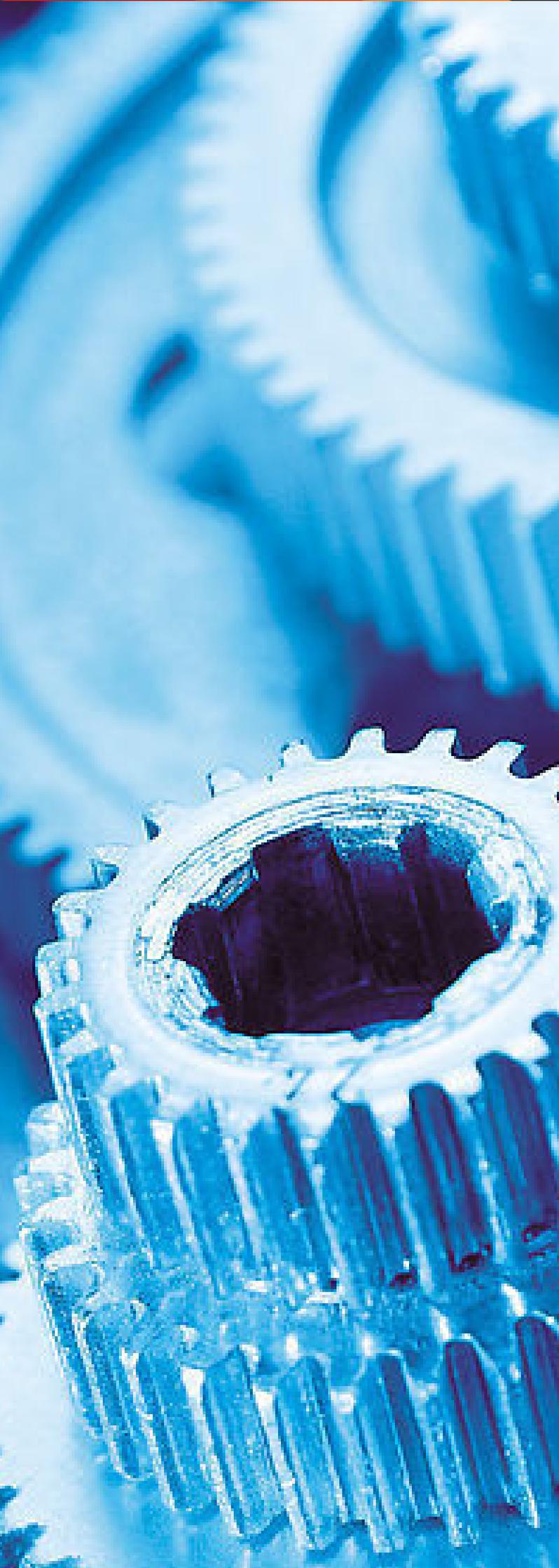
Tel:886-4-2532-8118

Fax:886-4-2273-1295

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Website: www.x-long.com.tw





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E-mail: sales@exactmachinery.com

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Tilting Rotary Table



Tilting Rotary Table



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Tilting Rotary Table



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Yellow Coconut Tree Co., Ltd. is a new company from Jun, 2012. The idea get the silver medal of Geneva International Inventions, Apr. 2012. And become the first product of Yellow Coconut tree Co., Ltd. The main difference is that no external power supply is needed to generate ions. We just need attach the device at the air outlet or fan, and the device will produce negative ions and the ions will travel with the airflow.

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26th Fl.-9, No. 3, Ziqiang 3rd Rd., Lingya Dist., Kaohsiung City, Taiwan 802

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Fax:886-7-722-8568

E-mail: roc\_lai@yellow-coconut-tree.com

Website: www.yellow-coconut-tree.com



Wind Power Anion Generator (Air Purifier)



Wind Power Anion Generator (Air Purifier)



Wind Power Anion Generator (Air Purifier)



Wind Power Anion Generator (Air Purifier)

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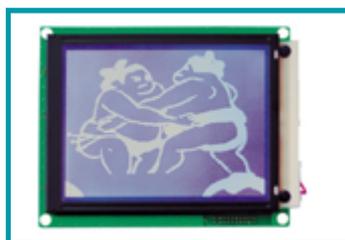
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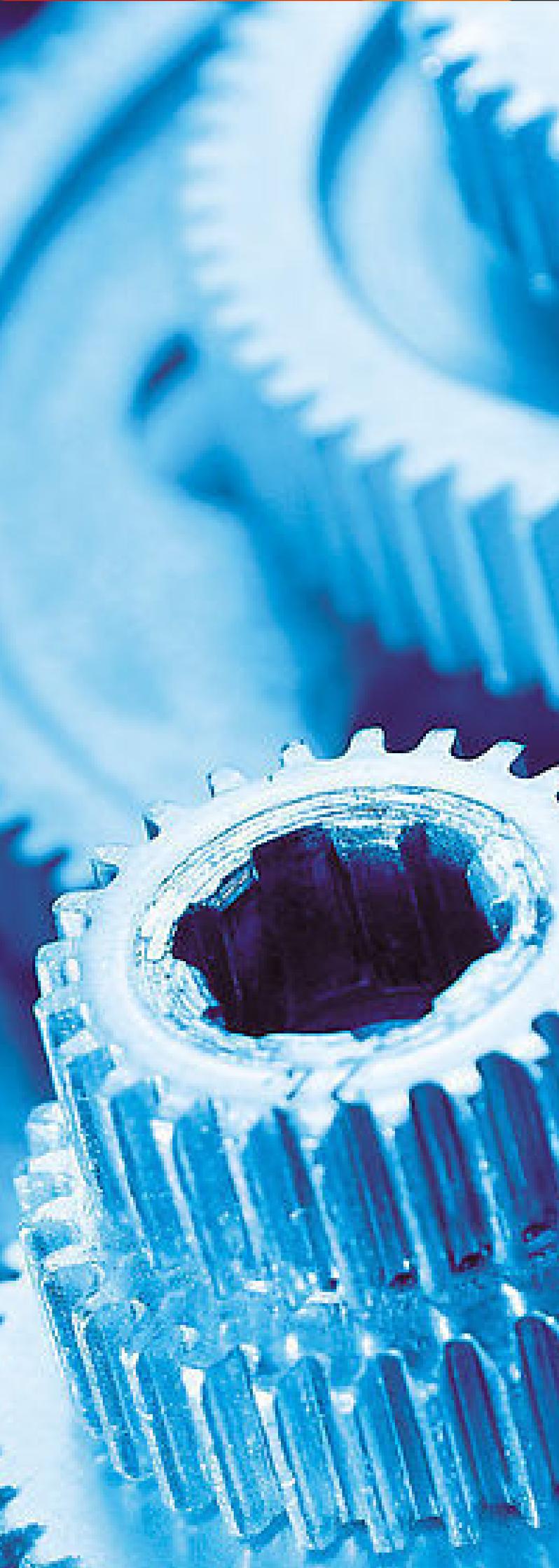
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Foldable Wire Containers



Foldable Wire Containers



Foldable Wire Containers



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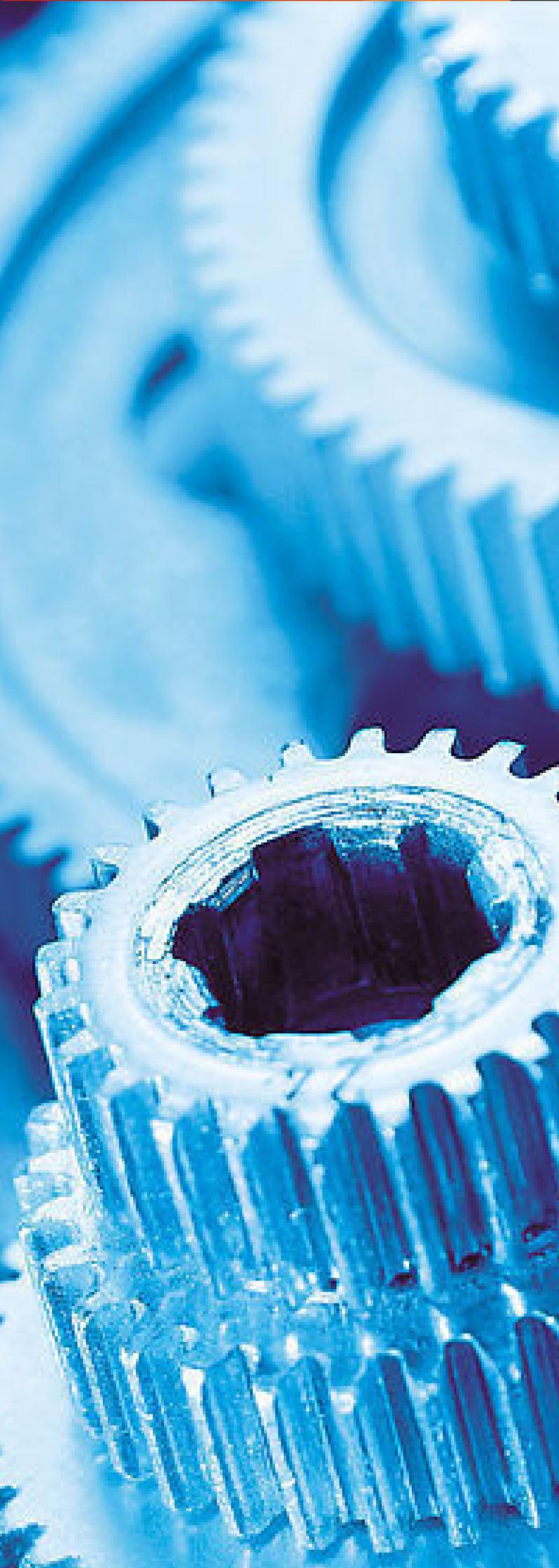
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Wheel Chassis



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ENAMAX Main Physical Properties & Character						
Code	Product	Application	Package	Color	Weight	Features
ENA-101	High Temp. Adhesive	Industrial Machinery	20 L, 40 L, 80 L, 160 L	Black	11.5	Working temperature 100°C (max. 2 min.) to 150°C (max. 1 min.) Highly resistant to heat and aging Highly resistant to oil and grease Highly resistant to water and steam Highly resistant to acids and alkalis Highly resistant to solvents Highly resistant to UV radiation Highly resistant to mechanical stress
ENA-102	High Temp. Adhesive	Industrial Machinery	20 L, 40 L, 80 L, 160 L	Black	11.5	Working temperature 100°C (max. 2 min.) to 150°C (max. 1 min.) Highly resistant to heat and aging Highly resistant to oil and grease Highly resistant to water and steam Highly resistant to acids and alkalis Highly resistant to solvents Highly resistant to UV radiation Highly resistant to mechanical stress
ENA-103	High Temp. Adhesive	Industrial Machinery	20 L, 40 L, 80 L, 160 L	Black	11.5	Working temperature 100°C (max. 2 min.) to 150°C (max. 1 min.) Highly resistant to heat and aging Highly resistant to oil and grease Highly resistant to water and steam Highly resistant to acids and alkalis Highly resistant to solvents Highly resistant to UV radiation Highly resistant to mechanical stress
ENA-104	High Temp. Adhesive	Industrial Machinery	20 L, 40 L, 80 L, 160 L	Black	11.5	Working temperature 100°C (max. 2 min.) to 150°C (max. 1 min.) Highly resistant to heat and aging Highly resistant to oil and grease Highly resistant to water and steam Highly resistant to acids and alkalis Highly resistant to solvents Highly resistant to UV radiation Highly resistant to mechanical stress
ENA-105	High Temp. Adhesive	Industrial Machinery	20 L, 40 L, 80 L, 160 L	Black	11.5	Working temperature 100°C (max. 2 min.) to 150°C (max. 1 min.) Highly resistant to heat and aging Highly resistant to oil and grease Highly resistant to water and steam Highly resistant to acids and alkalis Highly resistant to solvents Highly resistant to UV radiation Highly resistant to mechanical stress
ENA-106	High Temp. Adhesive	Industrial Machinery	20 L, 40 L, 80 L, 160 L	Black	11.5	Working temperature 100°C (max. 2 min.) to 150°C (max. 1 min.) Highly resistant to heat and aging Highly resistant to oil and grease Highly resistant to water and steam Highly resistant to acids and alkalis Highly resistant to solvents Highly resistant to UV radiation Highly resistant to mechanical stress
ENA-107	High Temp. Adhesive	Industrial Machinery	20 L, 40 L, 80 L, 160 L	Black	11.5	Working temperature 100°C (max. 2 min.) to 150°C (max. 1 min.) Highly resistant to heat and aging Highly resistant to oil and grease Highly resistant to water and steam Highly resistant to acids and alkalis Highly resistant to solvents Highly resistant to UV radiation Highly resistant to mechanical stress
ENA-108	High Temp. Adhesive	Industrial Machinery	20 L, 40 L, 80 L, 160 L	Black	11.5	Working temperature 100°C (max. 2 min.) to 150°C (max. 1 min.) Highly resistant to heat and aging Highly resistant to oil and grease Highly resistant to water and steam Highly resistant to acids and alkalis Highly resistant to solvents Highly resistant to UV radiation Highly resistant to mechanical stress
ENA-109	High Temp. Adhesive	Industrial Machinery	20 L, 40 L, 80 L, 160 L	Black	11.5	Working temperature 100°C (max. 2 min.) to 150°C (max. 1 min.) Highly resistant to heat and aging Highly resistant to oil and grease Highly resistant to water and steam Highly resistant to acids and alkalis Highly resistant to solvents Highly resistant to UV radiation Highly resistant to mechanical stress
ENA-110	High Temp. Adhesive	Industrial Machinery	20 L, 40 L, 80 L, 160 L	Black	11.5	Working temperature 100°C (max. 2 min.) to 150°C (max. 1 min.) Highly resistant to heat and aging Highly resistant to oil and grease Highly resistant to water and steam Highly resistant to acids and alkalis Highly resistant to solvents Highly resistant to UV radiation Highly resistant to mechanical stress

Man Physical Properties & Character



ENA-1358 DELUXE CERAMIC REPAIRING PUTTY



ENA-1358 DELUXE CERAMIC REPAIRING PUTTY



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Sample

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