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Jun 15, 2015 Volume 02

# Hardware



New Era for Hardware

**Chang Loon's Ratchet Wrench  
Built with Small Improvement for  
Big Difference in Efficiency and  
Functionality**



## ProRatchet®

Taiwan Sourcing Service Provider

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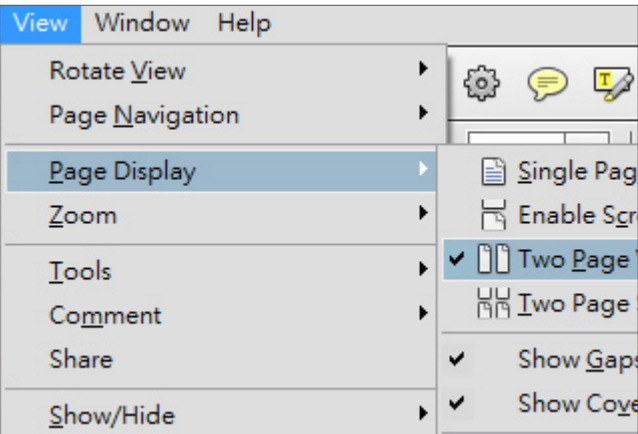


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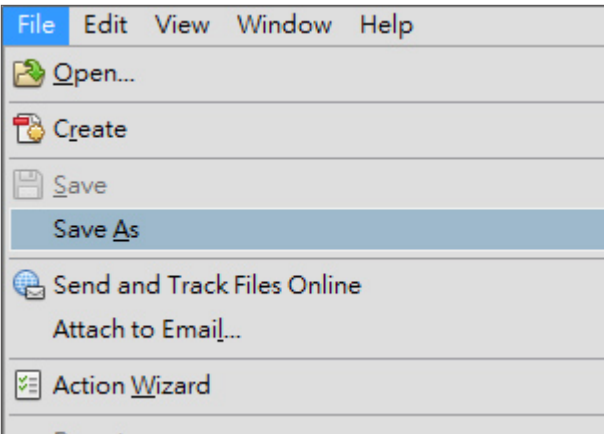
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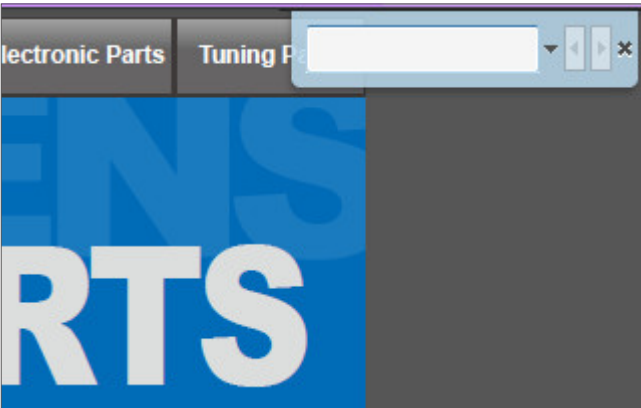
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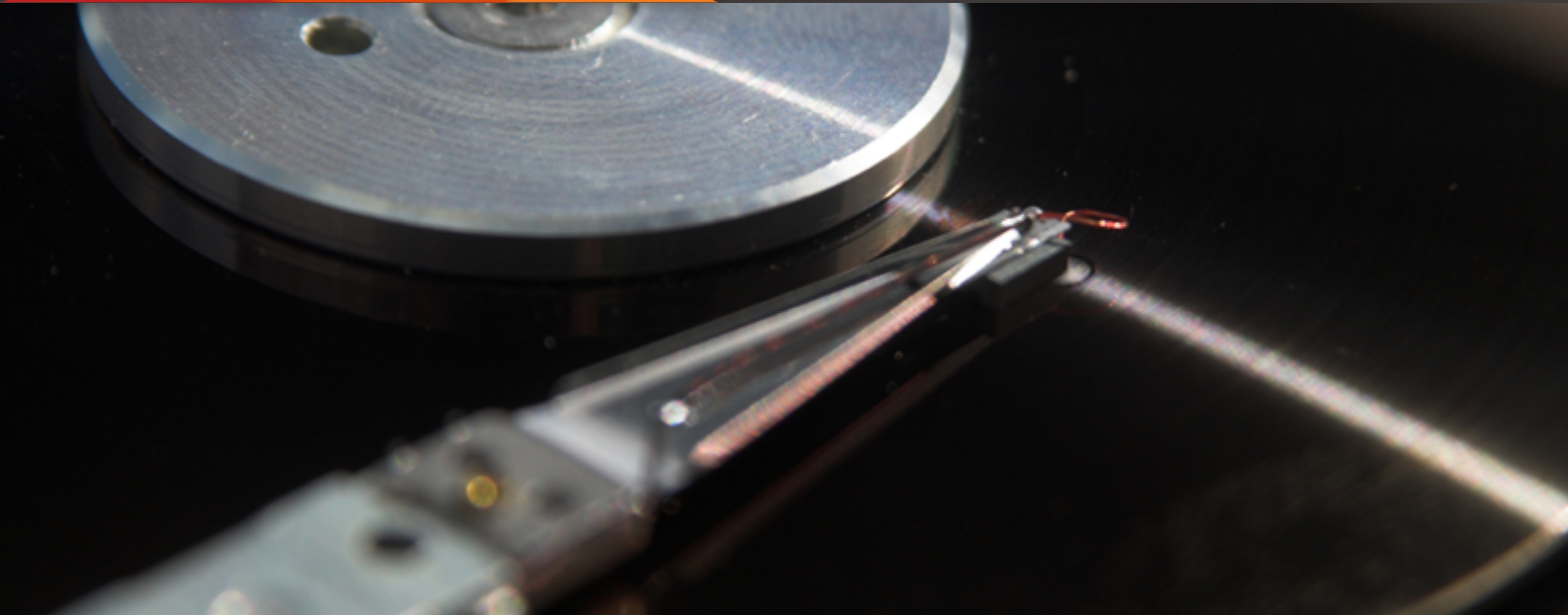
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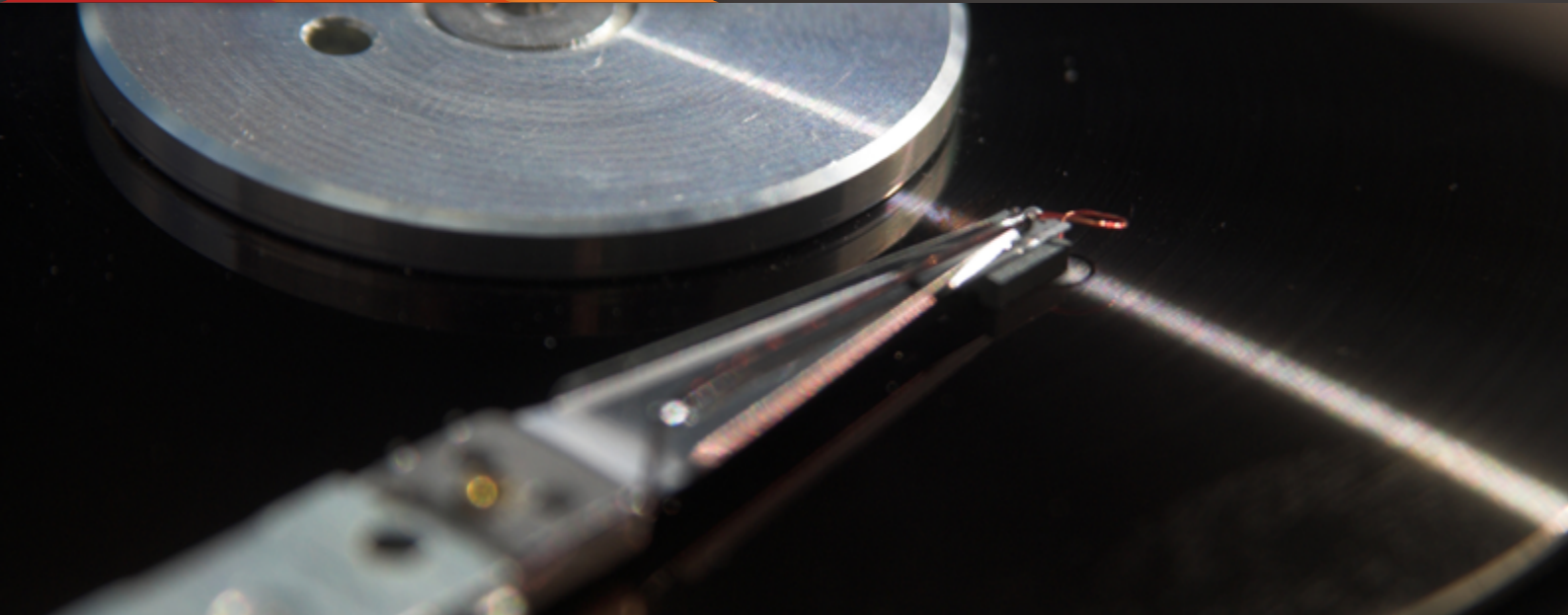


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# Stricter Regulations Boost Taiwan's Green Building Materials Industry

Island manufacturers jump onto the green-is-good bandwagon

By KEN LIU

Beginning on July 1 this year, nine types of institution—colleges, libraries, medical organizations, social welfare institutes, government offices, railway stations, civilian airports, mass rapid transit stations, and shopping centers—became subject to the provisions of Taiwan's Indoor Air Quality Act.

The new law imposes strict requirements for air quality inside buildings to keep inhabitants from inhaling hazardous particles such as carbon monoxide, volatile organic chemicals (VOCs), formaldehyde, fungi, carbon dioxide, germs, and ozone. Offenders can be fined NT\$50,000 to NT\$250,000 (US\$1,666-8,333 at NT\$30: US\$1), depending on the magnitude of their infraction.

The Act follows a series of regulations stipulating the use of more eco-friendly materials in new buildings. One of the regulations requires all new government construction projects in Taiwan to meet the Ministry of the Interior's (MOI's) Green Building Mark standard for energy and water consumption beginning in 2014, and another



raises the ratio of eco-friendly materials in new private and public buildings from 30% to 45% for indoor materials and from zero to 10% for outdoor materials beginning in 2012.

The Indoor Air Quality Act and other regulations are expected to help resolve two of Taiwan's serious eco-related issues. According to architectural specialist Z.M. Jiang of National Cheng Kung University and Chairman T.C. Chen of the Taiwan Green Building Material Council (TGBMC), the island's office workers are 100 to 1,000 times more likely to develop formaldehyde-caused cancers than those in other workplaces, and the construction industry generates 28% of the island's total CO2 emissions.

### Manufacturers Take Advantage of More Stringent Rules

The increasingly stringent rules have attracted more of the island's building-materials manufacturers to roll out products that meet the recyclable, ecological, healthful, and high-performance standards set by the independent Taiwan Architecture & Building Center (TABC).

The Center, which has been commissioned by the MOI to administer the labeling system, reports that it issued a total of 964 Green Building Materials Labels covering 6,966 products turned out by the island's building-materials makers during the seven years to the end of 2013, including 203 labels issued in 2013 alone.

Chung Pei Paint Enterprise Co., Ltd., founded in 1979 as a Taiwanese-Japanese joint venture, was Taiwan's first lacquer manufacturer to win a Green Building Material Label; the label was granted for its water-based fluorocarbon resin paint, a replacement for VOC-dipped solvent-based fluorocarbon paint. The paint is noted for its adhesive durability and zero discoloring.

Akzo Nobel Paints Taiwan Ltd., which was founded in 1977 as a member of the AkzoNobel Group (owner of the Dulux brand) and started out by producing water-soluble lacquer, has developed several eco-friendly paints, including one that reduces light



Akzo Nobel Paints Taiwan's Dulux highly-reflective paint reflects 94% of illumination.

### Greater Reflection, Less Mold

Tests conducted by the company indicate that its highly-reflective paint reflects 94% of illumination, compared with 89.3% achieved by rival products. The better reflectivity, the company stresses, means that consumers need not use as many lights as they otherwise would. Like many of the company's other paints, the reflective paint also resists molds.

The company's deodorant paint uses nano-grade bamboo charcoal powder, not only to capture odors but also to stop mold from growing on the objects it covers.

G-Pro Co., Ltd. recently introduced several toxic-free lacquers, which the company says contain no formaldehyde, asbestos, hexavalent chromium, mercury, cadmium, cadmium compounds, argentums, or methylbenzene. All of the lacquers are odorless.

The company's catalog claims that its unique eco-friendly formula allows the lacquers to withstand at least 30,000 washings,



chemical erosion, and two consecutive hours of exposure to a temperature of 800 C, as well as stopping molds from growing on painted surfaces.

These lacquers are made with water-based paints from DuPont and are available in nine colors. Their Healthy Green Building Materials label attests to their toxic-free nature.

Taising Building Materials Co., Ltd., another green-certified supplier, specializes in paints which create the texture and color of granite. Its VOC-free coatings are made of various materials including cement, glass, metal, wood, and plastic.

Resistant to high temperature, acid erosion, ultraviolet rays, water seepage, mold, static electricity buildup, wear and tear, and discoloring, Taising's paints also do not flake and firmly adhere to walls.

Mosia Flooring Corp., a TGBMC member, also boasts Green Building Materials Label certification and has developed at least three non-hazardous technologies for making building materials.

The company has developed a sprayer which captures VOCs and dissolves them into non-toxic H2O and CO2. Testing by SGS shows that the sprayer captures 42% of all VOCs in a cubic meter in 15 minutes, 88% in half an hour, and 100% in one hour.



Mosia’s non-hazardous sprayer captures 100% of the VOCs in a cubic meter within one hour.

The firm's parquet flooring is made of bamboo instead of wood, with a patented lamination process that uses thermoplastic polymer as a replacement for urea formaldehyde resin, and carries a three-year warranty.

All Green

Taiwan Order Furniture Corp., whose chairman, Jackie Yang, is a former head of the TGBMC, boasts that it is the only furniture maker in Taiwan to have all of its products carry the Green Building Material label.



Taiwan Order Furniture's products use German-made toxic-free wood materials made solely of farmed trees.

Using German-made toxic-free materials such as melamine faced chipboard (MFC) that are made only of trees that are farmed and not naturally grown, the manufacturer tweaks its manufacturing process to limit waste within 5% of output, compared with 20% for traditional manufacturers.

According to the company, Germany requires materials suppliers, not homebuilders, to be green; so all German suppliers are eco-qualified and so are all buildings there.

Lien Cheng Environment Technology Inc.,

a subsidiary of plastic-processing-machine maker Hao Yu Precision Machinery Industry Co., is marketing its "Seven Plus" series of indoor plant walls and non-toxic wood-plastic composites as eco-friendly building materials.

The firm's green walls capture carbon dioxide and VOCs, and restrain the growth of micro-organisms. The composites of which they are made are 100% formaldehyde-free, recyclable, nonflammable, and resistant to humidity and insects, and are certified as a first-grade nonflammable building material in accordance with Taiwanese industry standards.

### Magic Carpet

George Rubber Industrial Co., Ltd., founded in 1978 in Tainan, southern Taiwan, is known as the maker of a unique thermal insulation carpet that it developed specifically for blanketing tinplate roofs. According to the company, the carpet utilizes a special resin and the thermal ceramic tile technology used on the Space Shuttle to bring down indoor temperatures by as much as 15 degrees C in hot summer weather, thereby minimizing air-conditioning costs. Besides keeping heat out, the carpet also resists water, sound, and rust.

George Rubber has installed the carpet on warehouse facilities run by over 50 organizations across Taiwan, including the Nan Ya PCB Corp., First Hotel, San Shing Fastech Corp., Uni-President Enterprise Corp., Hope Automation Corp., and Hualien Airport.

The carpet, which comes with a 10-year warranty, has reportedly impressed the government-backed Industrial Technology Research Institute (ITRI).

White Horse Ceramic Co., Ltd. is another certified green-material supplier, making tiles of recycled materials and coating them with nanometer-grade substances. The use of recycled materials help minimize ecological damage caused by the mining of virgin minerals, and the nano-coating reduces the adhesion index and enables easier cleaning—in fact, it eliminates the need to use water to clean high-rise walls.



White Horse Ceramic makes tiles of recycled materials and coats them with nanometer-grade substances.

Like White Horse, the Champion Building Materials Group makes the most of recycling technology in its production of tiles. The company's unique process turns out products containing 67% reclaimed materials, far above the 20% benchmark set in the government's green building materials standard.



Champion Building Materials produces tiles containing 67% reclaimed materials.

The efficient use of reclaimed materials, water, exhaust gas, and energy in its manufacturing operations over the past four years has enabled Champion to reduce its CO2 emissions to an amount equivalent to that absorbed by 130 hectares of vegetation, and to save enough water to fill 1,500 standard swimming pools a year.

Ua Wood Floor Inc. is promoting its "Ua Floors"-branded wooden flooring, which it presents as a nontoxic, bacteria-resistant, healthy, and energy-efficient product. The company uses nanometer and infrared technologies in its flooring for purposes of health.

The firm claims that its flooring has been adopted by the U.S. Pentagon, diamond maker DeBeers, and Apple iStores.

Ua Wood spent four years developing the flooring, which won the first MIT Smile logo for Taiwan's wood-bamboo furnishing industry, the island's first Ecological Green Building Material logo from the Ministry of the Interior (MOI), the first U.S. Forest Stewardship Council (FSC) certificate for the island's wood-bamboo furnishing industry, and the first nanoMark from the Ministry of Economic Affairs (MOEA) for a wood-bamboo furnishing maker. The company is also Taiwan's only furnishings maker to be granted Ecological Green Building Material and Low Emission Health Green Building Material logos.

### Green Consulting

City Green Corp. is Taiwan's first consulting firm to provide eco-building solutions encompassing building design, green building label application, intelligent building label application, green equipment and system engineering, construction project oversight, and turnkey project planning.

When it starts a construction project, the company works in cooperation with architects, engineers, landscape architects, lighting designers, air-conditioning engineers, electrical technicians, construction companies, building owners, building operators, green-building certification specialists certified by the Leadership in

Energy and Environment Design Accredited Professional (LEED AP) organization in the U.S., and specialists certified by Taiwan's Intelligent Green Building Accredited Professional (IGB AP) organization.

City Green uses a four-stage process in its projects: goal management and cost management in the initial stage, analysis of the green value of the project's engineering in the detailed design stage, provision of green-turnkey norms and documents in the turnkey stage, and implementation of green construction and green-function verification in the final stage.

Universal Cement Corp. has won the Green Building Materials Label for its healthful and recyclable gypsum boards, which are free of formaldehyde and asbestos as well as being 100% recyclable.

The gypsum boards have been installed as firewalls and acoustical barriers in many five-star hotels, mass rapid transit stations, office buildings, public work projects, and luxury apartments in Taiwan. [CENS](#)



# IHF Cologne 2014 Sees Increasing Exhibitors as EU's Economic Prospects Brighten

By STEVE CHUANG







CENS was present at IHF Cologne 2014 March 9-12 in Germany.

Driven by operators' growing optimism towards brighter economic future across the EU, International Hardware Fair Cologne (IHF Cologne) 2014, held March 9-12, in Germany, saw increasing exhibitors to again confirm its lead globally as a trade fair for hardware products.

IHF Cologne 2014 occupied some 142,500 square meters to accommodate 2,873 exhibitors from over 50 countries, compared to 2,663 exhibitors in the 2012 edition, according to the organizer, Koelnmesse GmbH. The event also drew more than 50,000 visitors and buyers from 136 nations.

According to a report by the organizer, almost 73% of those interviewed were involved in procurement decisions; 79% of the visitors were either satisfied or quite satisfied with the exhibits;

78% of the trade visitors were either satisfied or quite satisfied as far as achieving the aim of their

visit; and more than 90% of the trade fair guests would definitely or probably recommend the event to business acquaintances.

### EU's Increasing Economic Optimism

Although the EU's economy got off to a modest start in Q1, 2014, when GDP edged up by only 0.3% yearly, the latest report by the European Commission indicates that the recovery is very likely to gain significant momentum starting in 2015, and GDP in the EU bloc will grow by 1.6% this year and 2.0% in 2015. Meanwhile, Euro-wide GDP will rise by 1.2% in 2014 and 1.7% in 2015.

Making up nearly 30% of the EU bloc's collective output, Germany will likely drive the euro zone's recovery this year, when the country's GDP growth is predicted at 1.8%. In 2015, France, Italy and Spain are believed to post better economic growths to further fuel the uptrend.

### Tools the Biggest Category

This year's IHF Cologne was not distracted from its tradition of presenting a diverse line of exhibits, covering manual hand-held tools, power tools and accessories, workshop and factory equipment, protective equipment, fixing and fastening technologies, furniture and small fittings, decorative metalware, window fittings, door locks, door fittings, keys, safeguarding systems, chemical products, interiors and furnishings, sanitaryware and fittings, building materials, elements and ac

More than 2,700 exhibitors and 50,000 visitors took part in IHF Cologne 2014.



cessories, outside structures, automotive supplies and accessories, two-wheeler accessories, etc.

Among the abovementioned categories, tools remained the biggest at this year's IHF Cologne by both exhibitor number and exhibition area, largely laid out in Hall 1 to 4 and 10.

Mostly concentrated in the Taiwan Pavilion, the island's top-caliber hand tool makers were on-hand, including A-Kraft Tools Manufacturing (tool sets), Proxene Tools (adjustable wrenches and ratchet wrenches), Redai Precision Tools (socket wrenches and spanners), Eclatorq Technology (digital tools), Lu Kang Hand Tools Industrial (hammers), Lee Yeong Industrial (power tools), Mobiletron Electronics (auto repair tools), Yih Cheng Factory (screwdrivers) etc.

Also notable was the rapid, convenient and reliable online ordering and sales service systems displayed in Hall 1 to 3 and 5, where space was mostly occupied by companies of the fixing and fastening technologies, building fittings, furniture fittings and decorative hardware, a growing trend, due to the reality that fastener retailers are increasingly prone to restock in small quantities and frequently, hence the rising popularity of online sales.

The biennial show also received high accolades for holding concurrent events to make participants' visits even more worthwhile.

This year's concurrent events included EISEN 2014 Innovation Award and EISEN 2014 CSR

(Corporate Social Responsibility) Award, where the world's best innovation and high-profile industrialists from targeted sectors were honored; and Speakers' Corner, BME Buyers Day and Expert Talks, where speakers provided insights into the latest market and industrial trends. Besides, with additive manufacturing increasingly a buzzword in industry, a special concurrent show for 3D printing was also popular with visitors.

### Taiwan Again Obvious Presence

Taiwan, with recognized manufacturing prowess globally in hardware products over the past decades, remained a high-profile presence at IHF Cologne 2014.

Some 403 Taiwanese exhibitors took part in the show, organized by Taiwan External Trade Development Council, Taiwan Hand Tool Manufacturers' Association and Importers and Exporters Association of Taipei.



Taiwan Pavilion was crowded with buyers interested in the island's top-caliber products.

Various concurrent events were held to add to the show's profile.



To further make an impression, TAITRA joined hands with THTMA to set up a special area for showcasing 110 new products, including hand tools, locks, auto repair tools, garden tools and DIY supplies, from 76 Taiwanese suppliers. The first day of the show drew hundreds of buyers, mostly impressed by eco-friendly, ergonomic, lightweight, digital and multifunctional features, which helped to create promising business opportunities between Taiwanese suppliers and international buyers.





Foreign buyers at CENS'booth.

A regular participant in IHF Cologne, China Economic News Service (CENS) was kept busy handling a constant influx of inquiries from global buyers interested in Taiwan's world-caliber suppliers at its booth in the Hall 3.2 during this year's exhibition, also being business matchmaker through its buyer guides and services.

CENS's publications on display included the March 2014 issue of the CENS Hardware and Guidebook to Taiwan Hand Tools 2014. Both the magazines were sought-after by buyers, for the March 2014 issue of the CENS Hardware touched on Taiwan's high-quality power tools suppliers, the current development of the island's fastener industry and a large number of top-caliber companies from related sectors to enable easy access to Taiwan's hardware industry, while Taiwan Hand Tools 2014 collected hundreds of Taiwanese suppliers of hand tools as an extensive buyer guide.

Meanwhile, CENS's online buyer services, including CENS Global Pass, also proved to be a useful tool for foreign buyers looking for truly suitable suppliers from Taiwan within the shortest possible time. [CENS](#)

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# Hans Tool of Taiwan Launches 520-piece Tool Set to Tap Bullish Heavy and Medium-duty Truck Market in North America

New tool set meets ASNI, DIN standards and works on N.A. Class 4-8 trucks

Compiled by STEVE CHUANG

Among many economic indicators, sales of heavy and medium-duty trucks in a country is perhaps one of the telltales of activity and growth in certain primary and secondary industries as manufacturing, extractive industries as mining and oil exploration, construction, trucking or shipping. With the American economy steadily on the mend over the past few years after President Obama Barack proposed the idea for American manufacturers to "re-shore" or return home to bring jobs back to the nation, overall sales of such trucks (Class 4-8 in the U.S. including trucks with gross vehicle weight rating ranging 6,351 kgs.-14,969 kgs) in North America showed a strong finish in 2014 and are expected to further grow in 2015, a trend likely to drive growth in demand for maintenance and repair services to benefit hand tool suppliers.

According to a report issued by the National Automotive Dealers Association (NADA) from the U.S., annual sales of Class 4-8 trucks in the country totaled 406,747 units in 2014, representing a 15.6-percent increase over 2013 and the highest since the 544,581 delivered in 2006. The figure includes 111,384 units sold in Q4, significantly up 14.4 percent year-on-year.

After brisk growth in 2014, the market is expected to keep expanding in 2015 by many market observers, including Business Wire, a global market analyst, who issued its latest report to predict overall output in North America and Next 11 markets, such as Europe, Brazil and Russia, to reach 2.88 million units this year, mainly led by persistently strong demand in the U.S.

Also, Americas Commercial Transportation Research, Co., LLC, a research and forecasting firm for the North American transportation market, cited the NADA's data to emphasize that a total of 65,700 units of Class 5-8 trucks in December of the year were booked to bode well for the market in 2015, when U.S.'s economy is generally forecast to grow by around 2.4 percent, thanks largely to surging housing starts and buoyant manufacturing industries, despite looming threats to shale gas suppliers who have been sapped by the so-called "Fracking Bust" caused by weak international prices of crude oil, not to mention shelved new exploration projects and layoffs by oil explorers whose costs are too high.



Under the scenario, a handful of Taiwanese hand tool makers are eyeing the considerable business potential behind the bullish N.A. truck market, including Hans Tool Industrial Co., Ltd., a Taiwanese top-end branded supplier with sound reputation among professionals and DIY users worldwide. Hans's general manager M.H. Chang summed up the market by saying that the future for tool suppliers tapping the segment is certainly looking up, for trucks are crucial for a country's economy to be carriers of industrial, manufacturing goods, and require more extensive maintenance and repair services than passenger cars simply because they are typically exposed to some of the most rigorous conditions.

To explore such segment, Hans has just launched a brand new tool set specifically for maintaining and repairing trucks. Chang introduced this tool set that comes in a roller cabinet and consists of 520 pieces of tools and accessories, with the tool combination and quantity able to be customized to meet different purposes. All the major tools in the set, such as sockets and torque wrenches, are exactly made and finished to meet ASNI and DIN standards in terms of torque and structural durability, hence being suitable for removing and fastening large parts in the N.A. Class 4-8 trucks, which includes heavy-duty Ram pickups for tradesmen to Kenworths and Peterbilts.

Chang added that the roller cabinet also features exceptional rigidity and structural strength, achieved by application of advanced jigs throughout production, a means that the young general manager stresses ensures the product is solidly fixed in place during each process to ensure optimal geometric engineering, which results in minimal dimensional deviation and maximum structural rigidity as expected during R&D.





"Global demand for heavy- and medium-duty trucks is robust, but hand tool suppliers have generally overlooked the segment to rather focus on passenger cars. Therefore Hans has taken a different path by focusing on the niche market since having been inspired by a contracted agent in East Europe, where truck maintenance and repair services are increasingly needed," said Chang, who is optimistic that the newly launched tool set, which handles most parts in steering, chassis, brake and other systems of trucks, and has been proven practical for mechanics, will also help the firm to achieve bigger sales gains in the N.A. market.

### Synonymous with Top Quality

Founded in 1973, Hans Tool has marketed products globally under the "Hans" brand for 42 years to have built a trustworthy name among professionals, buyers from the auto repair tool segment in Europe, the Middle East and Southeast Asia. Justifying using the eponymous brand, Chang said, "Hans is a typically German masculine name, so using it would help buyers associate our brand to top quality, which is usually a feature of German products."

While Taiwanese hand tool manufacturers have generally succeeded with American buyers to be known as competent OEM (original equipment manufacturers), for Taiwanese brands have so far not been able to establish reputation and acceptance in markets, Chang is confident that Hans has the expertise to be a reliable partner for retailers and dealers interested in truck maintenance and repair tools, mostly due to its successful experience in branding and building positive relationships with agents and distributors worldwide.

Another factor driving such confidence, Chang stated, is that Taiwan's hand tool industry began life and then rapid gestation when the U.S. army heavily outsourced supplies and tools from the island during the Vietnam War in the early-1970s, and this historical tie between the industry of both countries has inevitably set the mold to motivate Taiwanese suppliers to keep developing, improving hand tools to meet ANSI standards and preferences of American end-users.

Chang finally said, "Hans has built its success mainly on taking the path less often traveled, in addition to commitment to quality, and the launch of our new tool sets in response to steadily growing market for trucks stateside is how we differentiate ourselves from competitors to create mutual profit for all those involved in our ventures."



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Taiwan's hand-tool industry has developed steadily for many years to become a recognized player in the international market for high-quality, innovative and reasonably priced products for global users, especially in the professional and industrial application segments.

Despite its solid foothold in the global market, Taiwan's hand-tool industry still faces challenges ahead, not so much from low-cost competitors as from difficulty of growing and taking market share in high-end markets and upgrading technologically to meet niche needs while taking on international brands.

One person who foresaw this looming challenge before most is Brand Hsiao, marketing director at Stand Tools Enterprise Co., Ltd., who sheds light on how Taiwanese hand-tool makers can advance in the new business environment they face ahead.

# Stand Tools

## Sees Challenges & Opportunities

### Stand Tools

Founded in 1988, Stand Tools is an internationally reputable tool manufacturer with a broad line of products including ratchet screwdrivers and magnet-integrated products, such as multifunctional holders, boxes, hangers, sweepers, trays, and related products. Besides having won a dozen awards from the Taiwan government for excellent R&D, the company is also a leading original design manufacturer (ODM) of hand tools in Taiwan.

With a solid position in the global ratchet and magnet-integrated tool market, the company's younger-generation management decided to steer the firm in a new direction a few years ago, which would guide Stand Tools towards becoming the world's leading manufacturer of high-end digital torque wrenches.

Stand Tools launched its first micro-electromechanical systems (MEMS) sensor-integrated digital torque wrench in 2009, after long-term R&D efforts dating back to 2000. Sales of the new product have been growing rapidly, especially in China, as the company continues to introduce new models..



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# in Higher-end Markets

## TAF-Certified Torque Testing Lab

One of the essential things when upgrading added value of a product is to provide trustworthy testing documentation for customers to prove our digital torque wrenches actually provide reliable level of precision. Many tool manufacturers might opt to invest more in product styling and functionality upgrading, which are correct and necessary, but the investment in setting up a Taiwan Accreditation Foundation (TAF) certified lab is more fundamental, Hsiao says.

Stand Tools was the first hand tool manufacturer in Taiwan to set up a TAF-certified lab with torque testing devices, Hsiao says. He firmly believes excellence in digital torque wrench technology hinges on the precision and accuracy of the torque force applied.

Stand Tools offers high-end digital torque wrenches approved by the company's in-house TAF-certified torque testing and calibration lab.

The company's TAF-certified Testing & Calibration Lab follows all ISO:17025 standards and local laws. Above all, Hsiao stresses, accuracy in torque wrenches helps to ensure product safety.

Hsiao says that it took two years to build and equip the lab. The TAF is the only national laboratory accreditation institute in Taiwan that assesses local organizations by evaluating competency in specific certifications, calibrations, testing and inspections, as well as providing proficiency testing services.

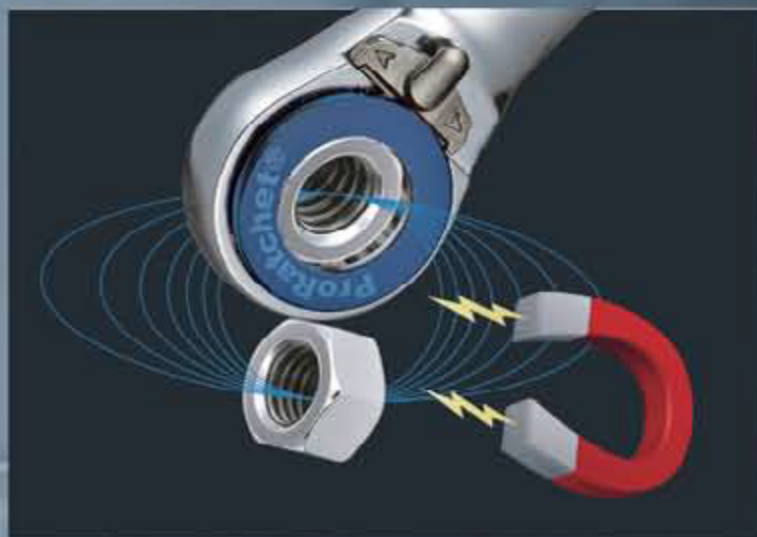
## World's Next Biggest Market

Stand Tools set up a branch office in Xiamen, Fujian Province of China, several years ago, having also partnered with various tool brands in China. The mainland is the company's largest market for torque wrenches and sales there are growing rapidly.

The huge demand for torque wrenches in China comes mainly from infrastructural and public works projects related to railway (high speed railways, subway systems etc.), power generation, defense, and automotive industries (production and repair/maintenance), Hsiao says. Currently, the major export markets for Stand Tools' torque wrenches include China (the biggest), Japan, and Europe.







## Chang Loon's Ratchet Wrench Built with Small Improvement for Big Difference in Efficiency and Functionality

Ratchet-head-embedded color rings ease size identification

Compiled by STEVE CHUANG

Countless mechanics and hand tool suppliers owe a debt of gratitude to Robert Owen, an American from Ohio who in 1913 was granted the patent for his invention the double-acting wrench, which has since been improved. Before such ingenious invention, one can only assume backyard and professional mechanics had to pull a wrench from a bolt or nut to continue tightening or loosening after each cycle. Surely tradesmen and mechanics all over in the 21st century can't simply imagine working without a ratchet wrench.

Hand tool suppliers in Taiwan have also played a part to improve ratchet wrenches over the decades, ever since the sector on the island began in the early 1970s during the Vietnam War to

supply the U.S. army, thereby helping boost image of Taiwan-made hand tools in the global market. Among Taiwan's globally competitive suppliers in the line, Chang Loon Industrial Co., Ltd. is widely recognized among its local peers as Taiwan's largest supplier of ratchet wrenches by export, who has focused on R&D to make its ratchet wrenches with high precision, accuracy and functionality.

### Continuous Improvement

Chang Loon started in 1978 in Changhua County, central Taiwan, home to Taiwan's hand tool manufacturers, as a metalworking service provider, and then tapped its know-how to venture into production of wrenches, ratchet wrenches, pliers and bolt cutters. The decisive factor enabling the maker to grow sustainably is its decades-long devotion to

continuous product improvement.

Among Chang Loon's hot-sellers, the 72-teeth ratchet wrench, for example, embodies the firm's dedication to R&D, which highlights the most surefooted ratcheting mechanism in the line, able to control the ratchet to move each turn 5 degrees precisely and efficiently to enable easy use in very narrow spaces. Also, the company has improved the structure to outdo competing models in terms of lightweight, torque force and durability. In other words, the wrench is user-friendly to enable extended usage as in professional settings, like auto repairing, plumbing and machine maintenance.

Another professional-caliber tool Chang Loon has developed to facilitate mechanics' work is the ratchet wrench



with a two-way socket developed to meet a Japanese customer's need for a highly functional, user-friendly repair tool for air conditioners. Derived from the firm's combination wrench series, the two-way wrench effortlessly removes fasteners tightly fitted in air conditioners, mostly thanks to the improved two-way socket on the closed end, which enables the tool to firmly grasp bolts in three different sizes.

Also a significant invention by Chang Loon to enhance value and functionality of its ratchet wrenches is the colored rings built into the inner side of the ratchet head to achieve clear visual identification of wrench size in Imperial or metric units. This design has proven particularly sought-after in the U.S., where both measurements are popular. Besides, the color rings are also applicable to enterprise identification, so have been increasingly adopted by customers in Europe to build recognizable links between product and corporate names.

#### Well-established Maker

Over the past decades, Chang Loon has successfully built a solid reputation among buyers as a trustful, competent veteran supplier of its kind in the global market. So far the company has marketed products to Europe, Southeast Asia, Latin America, Canada and the U.S. In addition to OEM (original equipment manufacturing), Chang Loon's products are also available on an ODM (original design manufacturing) and OBM (original brand manufacturing) basis.

The company's products comprise various bolt cutters, conventional cutters, gear wrenches, 72-teeth ratcheting combination wrenches, special snips for aircrafts and ships, pliers, pipe wrenches, oil filter wrenches and power tools, all of which are made of high-quality steel alloys sourced locally and in line with ISO 9001:2008 system to either measure up to or exceed international standards, including ANSI and DIN, in terms of durability and torque. With integrated production capabilities, including laser processing, thermal treatment and surface finishing, this maker is capable of turning out 1.2 million units of wrenches in different specifications and sizes every month with incredibly high qualitative consistency.



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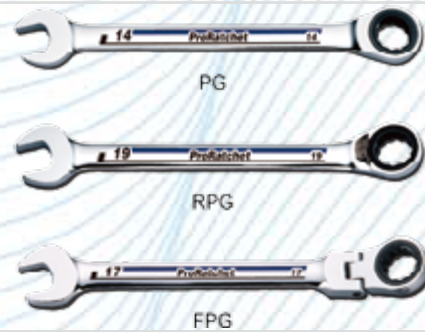
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Ratchet wrenches are one of Taiwanese hand tool industry's export drivers (photo courtesy of Chang Loon).



Chang Loon's 72-tooth gear wrench features each turn at surefire 5 degrees to attain effortless operation and torque accuracy.



Chang Loon invents magnetic color rings embedded in the ratcheting head to help boost work efficiency and build brand recognition.

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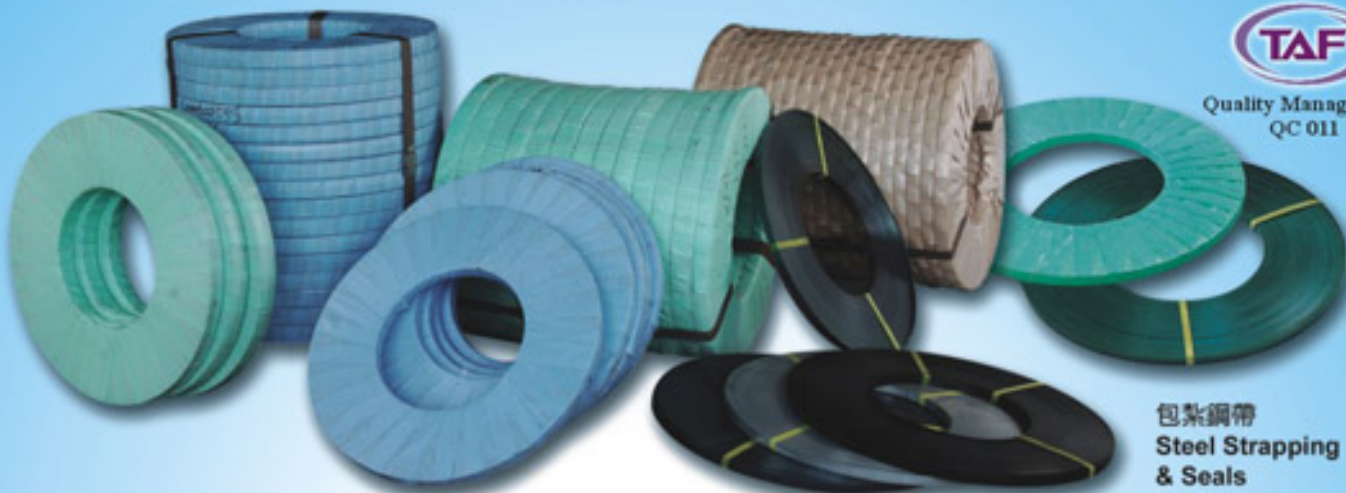


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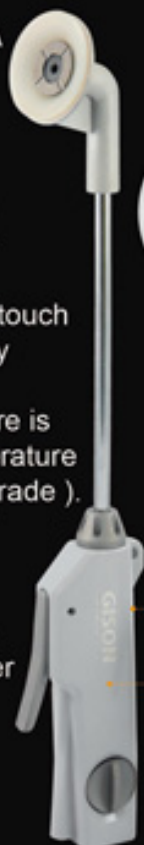
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3152



3152C



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3158A



3158B



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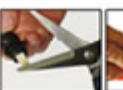
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T-718



T-715A



T-618



T-615C



A-841



T-719A



T-616



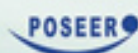
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YNX CHING ENTERPRISE CO., LTD.



ABA UFO INTERNATIONAL CORP., Lock, Cable Locks, Door Lock Set, Cam Lock, Vending Machine, Cylinder Locks, Padlocks

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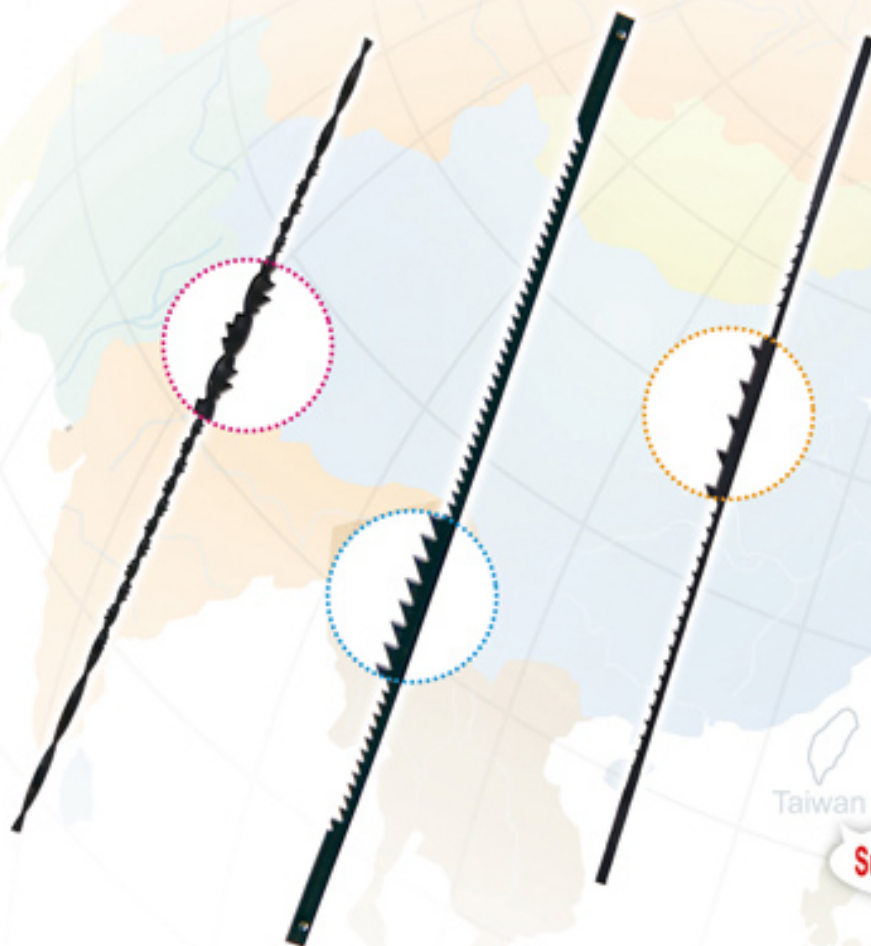
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# Jih Sheng Spring Co., Ltd.

Springs, precision springs, pins, E-clips, furniture parts, bathroom hardware and parts, bicycle parts



Following 16 years of development, Jih Sheng Spring Co., Ltd., inaugurated in 1997 in Taiwan's central county of Changhua, has grown into a world-caliber manufacturer of springs and related parts for different purposes.

Jih Sheng is an ISO9001-certified manufacturer with D&B D-U-N-S certification to underscore its achievement in quality management of its two modern factories across 86,000 square feet, with many production machines systematically laid out and regularly calibrated in accordance with international standards to optimize efficiency and facilitate quality control.

The company is also noted for comprehensive production techniques, capably handling wire forming, stamping and other processing to assure reliable, efficient manufacturing services and value-added technical support.

The company supplies springs and wire forming products, including retaining springs, irregularly-shaped springs, extension springs, torsion springs, precision springs, pins, R-pins, E-clips, C-clips, etc., mainly for molds and dies, machinery, furniture, electronic devices, bicycles, hand tools, watercrafts, and builders' hardware. The versatile manufacturer also draws on in-house techniques to produce decorative products, lighting fixture accessories, locks, bathroom accessories, etc.

The company's products have been exported mostly to Southeast Asia, winning wide recognition for high precision and competitive prices. The company is willing to accept OEM orders. (SC)

## Jih Sheng Spring Co., Ltd.

彈簧廠：504彰化縣秀水鄉鶴鳴村復興巷117號  
Spring Plant: No. 117, Fuxing Lane, Homing Village, Hsiushui Township, Changhua County, Taiwan 504

沖床廠：彰化縣秀水鄉鶴鳴村永興巷45、47號  
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# Tai Cheer Industrial Co., Ltd.

## Ball bearing drawer slides



Medium-duty Drawer Slides



Heavy-duty Drawer Slides

Established in 1985, Tai Cheer Industrial Co. initially generated ball-bearing slide roll forming machines, and in 1993 became in the production of ball bearing drawer slides. With experience in the industry for more than 25 years, the company is now able to offer high-end quality products to its clients.

Today, Tai Cheer has three manufacturing plants in central Taiwan, with two located in Huwei and Tuku township of Yunlin County and one in Puhsin of Changhua County. The company supplies slide loading light-duty, medium-duty and heavy-duty ball bearing drawer slides, all available in two types—full extension and 3/4 extension, mainly for furniture items, OA furniture, toll carts, refrigerators, and medical equipment.

Tai Cheer has been ISO 9001: 2008 certified and its plants have a total of 100 production lines, turning out quality products to meet the demand of customers. The consistent product quality and punctual delivery has been highly recognized by many renowned furniture manufacturers in Europe and the United States.

The company supplies its products mainly on an OEM, ODM, or OBM basis, and welcomes special orders with special customer specifications.



Tai Cheer Industrial Co., Ltd.

196 Hsinchuang Li, Tuku Town, Yunlin Hsien, Taiwan 633

Tel: 886-5-665-4716 Fax: 886-5-665-4717

E-mail: taicheer@ms41.hinet.net

Website: www.proslide.com.tw



ISO 9001:2008

# Full vision showcases, aluminum showcases, cashier desks, corner cabinets

Founded in 1988, Tang Yi Industrial Co., Ltd. is a professional builders' hardware manufacturer branching into production of various showcases and cabinets.

Following decades of hard work, the company has successfully built positive business links with customers in the U.S., mostly thanks to its dedication to continuous improvement of quality. To secure sustainable development, the supplier is actively engaged in R&D to satisfy customers from different sectors as well.



The company's current product category encompasses full and half vision showcases, jewelry showcases, cashier desks, display racks, aluminum showcases, and various corner cabinets, all of which are knock-down and suitable for wide-ranging applications, with monthly output of more than 1,000 units. In addition, the manufacturer is also able to turn out tens of thousands of units of various fittings, LED pointers, and latches for displays per month.

## Tang Yi Industrial Co., Ltd.

No. 20, Alley 52, Lane 247, Lucao Rd., Sec. 2,  
Lukang Township, Changhua County 505, Taiwan  
Tel: 886-4-776-5718 Fax: 886-4-776-6706

**Email:** [royko\\_yen@yahoo.com.tw](mailto:royko_yen@yahoo.com.tw)

**Website:** [www.tang-yi.com.tw](http://www.tang-yi.com.tw)





YNX CHING ENTERPRISE CO., LTD., Hose Clamps, Clips, Eyelet, Mouse Trap, Catch Mouse

# Hose clamps, butterfly clamps, T-bolt clamps, Interlock clamps, catch mouse, mouse trap

**Y**nx Ching Enterprise Co., Ltd., founded in 1997, has been dedicated to production of a variety of hose clamps made of galvanized steel, stainless steel and nylon.

**T**he company has established an integrated production line, covering R&D, mold design and finishing processes, to ensure top quality of hose clamps.

**A**t present, the company's major product lines are hose clamps, ear clamps, American-type hose clamps, butterfly clamps, constant tension hose clamps, hand pull hose clamps, heavy-duty clamps, T-bolt clamps, catch mouse, mouse trap, eyelets, etc.

**T**o best serve its customers, the firm has spared no efforts upgrading product quality and sustaining reasonable prices. It is able to roll out the products on the OEM/ODM (original equipment/design manufacturer) basis to meet customers' special requests.



**Ynx Ching Enterprise Co., Ltd.**

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# Household Hardware (Household Products and Small Electrical Home Appliances Included)

## ■ Recommended Advertisers

CHEIN YING ENT. CO., LTD.

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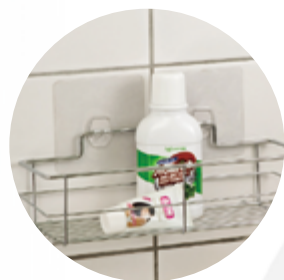


# Chein Ying Ent. Co. Ltd.

Self-sticky hooks, pens, office supplies, stationery, novelties, plastic tableware and kitchenware, various handbags and totes

SGS Inspection No.cy/2011/61194

Patent No.M397762



CYM-10408



CYM-10401



CYM-10402

CYM-10403



CYM-10404

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CYM-10407



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CYM-10430



CYM-10432



CYM-10433



CYM-10436



Established in 1981 in New Taipei City, northern Taiwan, Chein Ying Ent. Co., Ltd., a specialized and seasoned manufacturer of stationery, continues to promote innovative, convenient-to-use self-adhesive hooks to meet robust demand for fastening solutions that help storage, organization in home, commercial settings when many users prioritize cost-efficiency.

This hook is made of high grade plastic backed with a square, self-adhesive foam for easy fixing and comes in transparent color. The specially-formulated adhesive enables easy mounting on various non-porous surfaces as painted masonry, tiling, smooth wood or glass, with each hook able to carry around 2.5 kilograms or more, and can be repeatedly used without damaging wall or using a drill.

For enhanced marketability and to meet consumer demand for personalized designs and aesthetics, the product can be customized with motifs,

patterns and colors. It is patented in Taiwan for improved structural strength and innovative designs.

In addition to the hook, the R&D-driven maker also offers office supplies, novelties, plastic tableware and kitchenware, handbags, school bags, sports bags, and leisure bags, among other items.

Chein Ying regularly attends international exhibitions and exports 70 percent of its output, mainly to Europe, the U.S., and Japan. It has built solid reputation for high quality and on-time delivery, and offers OEM/ODM services as an all-round supplier. Buyers are welcome to send shop drawings and ideas on which to base development of new, creative products. (SC)

## Chein Ying Ent. Co., Ltd.

No. 17-1, Lane 778, Huacheng Rd., Xinzhuang Dist.,  
New Taipei City, Taiwan 24253  
Tel: 886-2-8521-1870 Fax: 886-2-8521-3827  
E-mail: chien.ying@msahinet.net



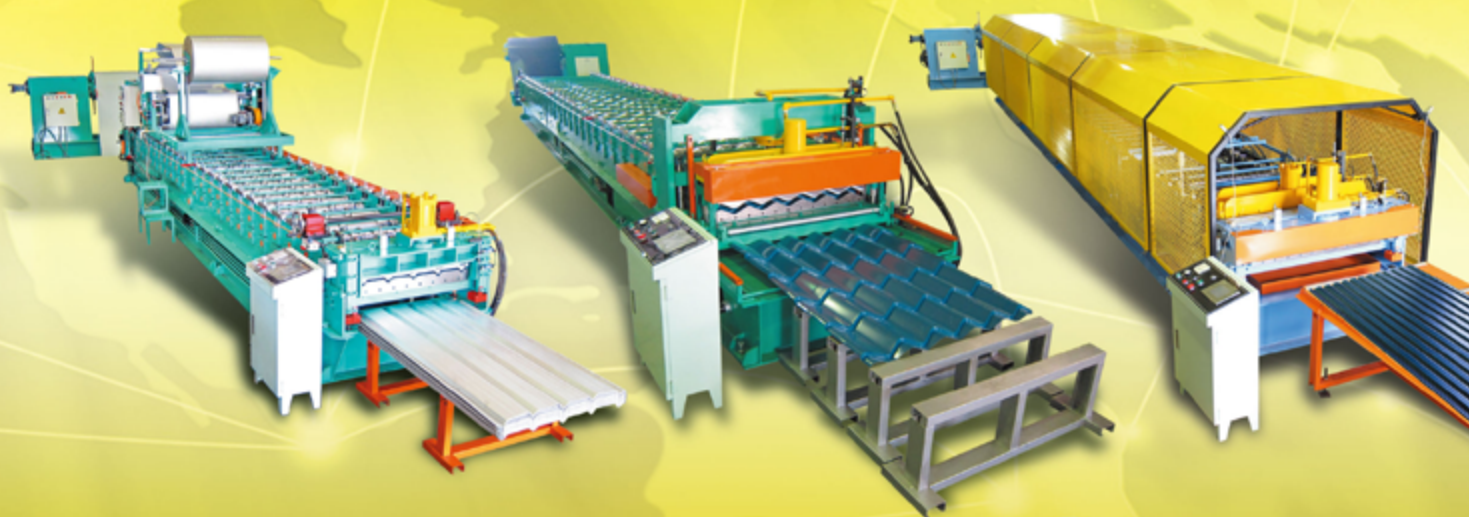
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