



Feature: edited by Fastener World Small Screws Suppliers

Fasteners are required where there exists a need to fix two separate parts together and they (especially “small screws” with multiple variations) can be seen almost in any industry sectors. Precision electronics screws, wood screws, self-drilling screws and many other customized parts in response to the fast changing industries are all variations of small screws.

In the highly mature Taiwanese fastener industry, quality has become a requisite and many local businesses have also developed their own customized manufacturing procedures. With above-the-level experience and technology, Taiwanese companies are all very pleased to provide assistance in R&D. Also, with such a sincere attitude, Taiwanese manufacturers are willing to be a contributor behind those successful leaders and help the int’l giants play a significant role in the global market.

According to the statistics of Taiwan Industrial Fasteners Institute, the total fastener export from Taiwan in 2018 reached 1.681 million tons, up 5.3% from 2017 and the average unit price also hiked nearly 7.1%. The export volumes of wood screws and self-tapping screws increased by 11.1%-11.6% and the unit prices also increased by 7.2%-8.3%. Facing the price competition from other emerging fastener exporters such as China and Vietnam, Taiwan still maintains growing export in both volume and value, which shows the continuous improvement of Taiwanese fastener industry in technology and its outstanding product quality.

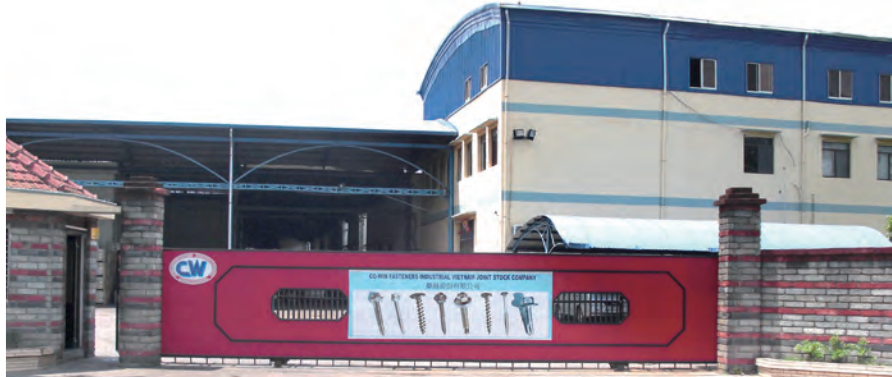
This time we are pleased to have **Pro-Visa (Lin) Int’l Corp.**, **Ably Screw Ltd.**, **JC Grand Corp.**, **Diing Sen Fasteners Industrial Co., Ltd.**, **Fu Kai Fastener Enterprise Co., Ltd.**, and **J.I. Morris (a division of Swissturn/USA)** joining us to share their effort in manufacturing high quality small screws.



Adhering to Quality, Honesty and Competitive Prices in Business- Diing Sen Fasteners Industrial Co., Ltd.

by Nai Wen Chang, Fastener World

Diing Sen Fasteners Industrial Co., Ltd. is a company capable of helping customers develop customized small screws. Despite challenges ahead, President Holland Wang with years of experience in small screws and passion maintains close collaboration with threading plates, molds, and dies factories to solve customers' problems. With up to 4,000 tons of monthly capacity, Diing Sen mainly produces screws made of low carbon steel/stainless steel/solid brass, chipboard screws, construction screws, drywall screws, wood screws, self-tapping screws, machine screws and special screws. Materials used can be as per customers' request and fasteners are available in diameters of 0.8mm-12mm and lengths of 3mm-600mm.



Led by the Management with Professional Background to Enhance Quality Continuously

Founded in 1981, Diing Sen, is also accredited to ISO9001, ISO14000 and CE. It has two plants in Taiwan, two in Vietnam and one in China, with more than 2,000 employees in total. Diing Sen's quality assurance division functions under the strict supervision of the company's president. In addition to the QA division, Diing Sen also has a technical center specifically responsible for the R&D of high value-added products. The company is planning to apply for TS16949 in order to ensure its competitive strength.

With a degree in a mechanical engineering department, President Wang runs the company with his professional background and practical attitude toward customer service, making lots of foreign customers willing to maintain long-term collaboration with Diing Sen. Collaborating with many associate upstream and downstream factories in Taiwan, Diing Sen can absolutely satisfy global demand and offer various and fast manufacturing solutions.



Global Presence and Capabilities to Offer Large Volumes and Any Dimensions

With an aim at marketing its superior products around the world, each operation of Diing Sen supplies specially designated markets for local demand, while its two plants in Taipei and Kaohsiung supply U.S. market. As for the plant based in Jiansu (China), it supplies the whole domestic demand in China as well as certain industries in Japan. However, the value of products supplied to the "certain" industries in Japan per month also means more than US\$ 1 million worth of orders.



In terms of Europe, President Wang set up a 160,000 sq. m plant in Vietnam at the beginning of 2000 for supplying the European market, which produces low carbon steel screws and can process wire drawing, annealing, forging, rolling, hardening, electroplating, coating and packaging. Its monthly capacity includes more than 2,500 tons of bolts/nuts/special parts and 500 tons of stainless steel screws. The plant in Vietnam not only shows the most outstanding production & sales records amongst its other plants, but is also the only one plant of Diing Sen capable of completing all manufacturing processes from wire drawing to the final packaging.

All solutions for surface treatment used in Diing Sen's plants are internationally licensed and compliant with environmental protection regulations and quality requirements. President Wang said, "Keeping talented people in the company is a key to maintaining good quality. From our forefront sales to the final packaging workers, all of our employees adhere to the principle of quality, which shows our technique and experience and establishes the reputation for our quality." Quality is the basis for a company's sustainable operation, while expertise and service are both critical factors for winning customers' trust.

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Customizing the Best Suited Fastener for You- Pro-Visa (Lin) Int'l Corp.

*material provided by Pro-Visa &
edited by Nai Wen Chang, Fastener World*

Several purchasers used to hesitate before choosing their own cooperative traders or manufacturers, as most of the time they do not trust in traders' knowledge of fastener manufacturing and their capabilities of offering high quality products. In terms of choosing manufacturers, they are also concerned about that demand cannot be 100% satisfied due to the complexity and diversity of fastener and peripheral industries. What if they can get both, which means getting one who has the trader's ability to make coordination and the manufacturer's profession to conduct manufacturing? If this could come into reality, not only time and cost can be saved, but also all manufacturing procedures can be appropriately supervised by professional managers.

Yielding Twice the Result with Half the Effort / Integrating All Your Needs to One Single Contact

Distinguished from general traders, Pro-Visa (Lin) Int'l Corp. implements its quality control process from the very beginning of material sourcing, as according to President Lin, who has been dedicated to fastener manufacturing for so long, the most critical part in manufacturing high-quality small screws is not only the manufacturing technique, but also the quality of materials and the results of secondary processing. Moreover, with the introduction of standardized quality inspection systems for strict quality control before shipments, as well as the advantage as a manufacturer and trader, Pro-Visa is able to create a "No need to worry!" supply route for customers.

In order to effectively handle with customers' inquiries, President Lin then carried out a "Flat Management," which is to integrate sales and manufacturing to a single contact and organize a professional team well-experienced in manufacturing technology to fast provide customers with the optimal solutions.



Adhering to Quality Stability and Being Highly Flexible for Any R&D Demand

Always adhering to the principles of stable quality and a complete range of service in business, Pro-Visa currently is also able to provide customizing service in addition to carbon steel/SS wood screws, self-drilling screws and self-tapping screws, to help customers increase their market share. While extending its business reach, Pro-Visa has also introduced the ISO 9001 quality management system to consolidate its collaboration with customers. Thus far, the American market has represented more than 80% in Pro-Visa's global sales. Other than the American market, extending its business reach to the EU and the Middle East markets is also underway.

President Lin herein stressed, "Confronted by the price-cutting challenge from China and Southeast Asia, Taiwanese fastener industry, in addition to the reinforcement of technique, definitely has to fully utilize its industrial clustering advantage, integrate resources, form alliances with other businesses, and enhance the competitiveness of products. Pro-Visa sets no boundaries for its business at all and is capable of manufacturing various products, which are all for providing more service selection to customers."



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Small Screw Maker Resolving Damaged and Stripped Threads- Fu Kai Fastener Enterprise Co., Ltd.

by Nai Wen Chang, Fastener World

Fu Kai offers a complete line of small screws. In addition to machine screws, its primary products in the small screw category include self-tapping screws, trilobular thread screws, PT screws, Clinching Series (PEM Series) and Welding Studs. These screws are designed to fasten plastic parts and metal parts. They are heat treated to have enough strength so there is very little occurrence of stripped threads during fastening. Fu Kai is particularly stringent about the quality of small screws, and its products do not cause stripped threads in fastening.

Smooth Fastening, Delicate Design, Flexible Uses

Fu Kai helps clients develop more visually appealing and durable small screws, and helps them improve the fineness of products and satisfaction of end-users. "Our small screws are used in various industries, mostly automobiles, furniture, and sheet metal. Products today are expected to be more visually appealing, compact and delicate. Small screws in service can reduce volume and are easy to hide, giving developers more flexibility to design their uses. Used with firmly fixed mating parts, the screws can have additional endurance and therefore increase buyers' confidence in us," said General Manager Bruce Chen.

Since the time of inception, apart from manufacturing screws, Fu Kai has been targeted to providing clients with fastening solutions. "Most clients found they had no one to ask when they had problems in fastening with mating parts after they purchased the screws, or the lack of knowledge of screw's and mating part's properties in the design phase led to a halt of the assembly line in the manufacturing phase. To tackle this, the founder of Fu Kai began to participate in discussing with the product development department and give developers reference of related technique and material properties. As a manufacturer, Fu Kai can develop clients' desired tooling on its own, so it can help clients speed up product development. Additionally, the production line will not be forced to stop during mass-production, thereby increasing clients' production efficiency."



and optical sorting machines this year. These equipment is expected to reduce the cost for sorting, improve quality and create better prices for clients. Having improved equipment not only allows for accuracy and speedy inspection, but also significantly decreases deflection and increases clients' trust.

In addition to ISO9001, EQA, ANAB ISO17025 among other certificates, Fu Kai is planning to improve the quality of production line by applying for ISO16949. "Our automotive parts clients are from the after market. With their recognition on our products, our improvement on production line and our certificates, we will have better advantages in investing in the automotive components market in the future." The whole manufacturing process from material feeding, production to packaging are inspected to maintain stable quality. Fu Kai's products are sold to Asia, Europe, the Americas among other regions and its small screw lineup mainly includes machine screws, self-tapping screws, PT screws, high-low screws, Clinching Series (PEM Series) and Welding Studs.

Adequate Capacity to Supply High-End Automotive Screw Market

Fu Kai has sufficient capacity to produce the desired amount that clients need for a specified deadline. The current monthly capacity is over 20,000,000 pcs and up to a maximum of 50,000,000 pcs depending on orders. With particular focus on quality control, Fu Kai uses 2D projectors and has purchased 2.5D measuring machines, hardness testers

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Quick Delivery! The Expert in Precision S.S. Screws- Aby Screw Ltd.

by Nai Wen Chang, Fastener World

Aby Screw is a company with a full knowledge of electronic screws demanded by many of the fast growing Taiwanese industries. As Aby Screw realizes the growing market demand, it then extended its products portfolio to cover M1.4-1.7 small screws and tries to supply customers ready-to-ship products and offer quick delivery service. Moreover, in order to further improve its technology of electronic screws, Aby Screw and its in-house technicians also devote themselves to R&D and technique enhancement. Looking forward, it is also planning to dedicate themselves to the R&D of Micrometer Screws (M1.0-M1.2).

Efficient and Innovative with the Ability to Customize Special Screws as Per Request

Aby Screw is well-known for its quick delivery of samples and the ability to develop innovative products, both of which make it the best supporter to customers eager to seek for high efficiency and innovation on the fast-changing market. Always considering customers' profit priority, Aby Screw is able to manufacture a diverse range of complicate products in low volumes as per customer's request. Thus far, it has successfully manufactured for customers many customized products, such as special SEM washers (DIN6900 Z4-Z1), small PT threaded screws, and electronic screws. It offers a comprehensive range of various precision and SEM screws in stock.

Aby Screw, which is confident of its quick delivery and excellent technique, was once requested by a customer to manufacture a type of screw covering three processes, through cold forging, slotting and turning and ship the sample within 30 days. Facing the increasing demand for customization, Aby Screw continues to improve its technology and knowledge and help customers create more competitive products.



SEMS Screws
M2.0~M10

Double International Certification and Strict Quality Control

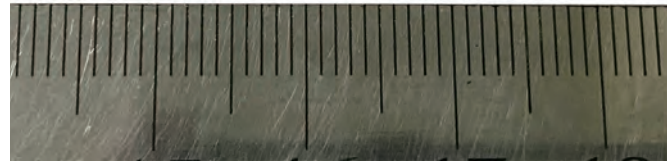
Being fastidious about quality management, Aby Screw is not only approved to ISO9001:2015 and EN-CE 14592, but also adopts strict quality control in different processes (including first-sample inspection, in-process inspection and finished products inspection) and stores data into a computer system for future traceability. In addition, Aby Screw calibrates its instruments periodically and has increased more inspection instruments, such as Penetration Gage PHIL #0, Torx-T3-T6, etc.

Saving Time for Customers and a Wide Range of Product Applications

Currently Aby Screw sells 80% of its products to Taiwan, 15% to Europe and the rest of 5% to America & Other Regions, and most of the products sold are S.S. screws. Aby Screw's products are widely used in various applications, such as public construction and different fastening technology. In addition to standard products, Aby Screw can also manufacture customized reinforced-torque screws (A4-80S.S.) and relevant others with anti-corrosion coatings. With over 25 years of manufacturing experience, Aby Screw has confidence in satisfying all customers' requests.



PT Ø2.0~5.0



M1.4~M2.2



Besides the industries it gets involved in, Aby Screw also expects to develop fasteners for more different industries. It is now planning to launch the R&D projects for small SEM screws (M2 & M2.5) and PT screws (M1.6-M2) in anticipation of create value for more industries. Flexible processes scheduling and lead times for customized S.S. screws within around 30 to 40 days enable Aby Screw to create more strengths for customers.

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Multiple International Certification Approvals and Strict Quality Control-

JC Grand Corp.

by Nai Wen Chang, Fastener World

JC Grand was established in 1978 and is a leading manufacturer and exporter of industrial metal fasteners and hardware components. For over 40 years, the company has been serving customers globally with an extensive line of high quality screws, nuts, bolts, washers, anchors, and customized hardware products from wholly-owned factories in Taiwan and China.

Quality Control and Accreditation

JC Grand is one of a few fastener suppliers with an A2LA accredited ISO 17025 compliant quality inspection lab. All of JC Grand factories are certified with ISO 9001 and CE EN14592. In addition, its Taiwan operation also has an IATF 16949 certification. The quality system is fully integrated with JC Grand's SAP R3 operations management software, and includes provisions for part revision management control, production lot traceability, process capability and control, and much more.

Professional Services

JC Grand offers design, engineering and custom manufacturing services to custom specifications. Many component specifications do not fit neatly into a standard category, but JC Grand is staffed with engineers who can offer design suggestions to solve real world problems. The company is also experienced with coming up with packaging solutions to meet customer needs.

Management Team and Staff

JC Grand's management team includes native English speakers with extensive experience working in, and with, Fortune 500 companies. The general manager received his degrees in Mechanical Engineering from Caltech and was a principal engineer at Boeing. The VP of Operations worked for Hewlett Packard prior to joining JC Grand. The entire staff, including those in sales, engineering, production, and logistics, is trained in the goal of consistently meeting customer expectations both in product quality and customer experience.

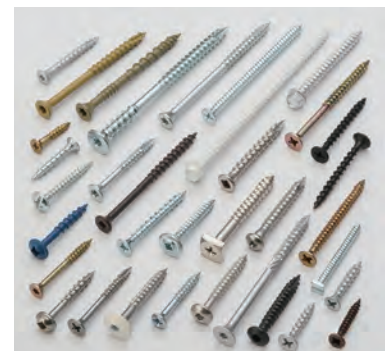


Optical Sorting

In addition to its extensive line of production equipment, JC Grand factories are equipped with automated, high-speed optical and roller sorting machines in both Taiwan and China. The Taiwan operation also has an automatic warehouse and semi-automatic packaging stations that allow for high throughput and efficiency.

Summary

For these reasons, JC Grand has been one of the most reliable manufacturers and suppliers in the fastener industry. For more information, please visit www.jcgrand.com or contact the company via e-mail at sales@jcgrand.com.



World Leader in Miniature Screw Threads



J.I. MORRIS COMPANY Joins Forces with SWISSTURN/USA

J.I. Morris Company was founded in 1920 as a supplier to the optical industry. In the 1960's, the company started manufacturing miniature screws for precision instruments. It was involved in writing the American National Standards Institute (ANSI) standards for miniature screw threads. J.I. Morris Company became a leader in the manufacturing of miniature screws with thread sizes from 0000-160 and 0.5 UNM.

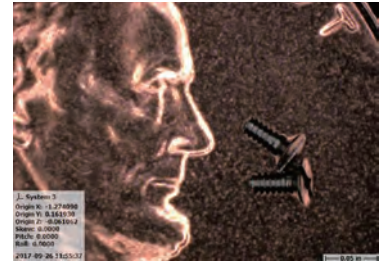
by Dean Tseng, *Fastener World*

Miniature Fastener Line Purchased by Swissturn



Ken Mandile

In 2017, the miniature fastener line of J.I. Morris Company was purchased by Swissturn/USA, a CNC Swiss screw machine job shop located in Oxford Mass. Established in 1987, Swissturn is a world-class precision Swiss screw machine products manufacturer, providing machining services to a wide variety of industries, including medical instruments, laboratory instruments, business machines, automotive components, etc. The scope of purchase included the fastener line of miniature number and UNM screws, self-tapping screws, hex nuts, flat washers, and turned parts from J.I. Morris.



Joining Forces Opens New Opportunities for Swissturn

So how and why did J.I. Morris and Swissturn decide to join forces? In a *Fastener World* interview with Ken Mandile, who has been working in the screw machine industry since he was 10 years old (50 years ago) and is now President of Swissturn/USA, Inc., said, "Swissturn's primary business is manufacturing of high precision miniature components in mid to high volume, so the product line of J.I. Morris fits very well with the company's competencies. In addition, customers of miniature fasteners often need custom precision machined components for their products, so the purchase of J.I. Morris has opened other opportunities for Swissturn."



On the benefits from this purchase, Ken added, "Combined with the technologically advanced machining capabilities of Swissturn, we offer customers same day shipment, reliable quality, and superior customer service. 100% of our products are made in the USA at our facility in Massachusetts."

10 Million Miniature Fasteners in Stock in Various Sizes

The J.I. Morris Miniature Fastener Division of Swissturn manufactures and distributes over 300 standard miniature screw, nut, washer, and threaded rod sizes and types. Sizes start at 0000-160 and go up to 2-56 and from 0.50 UNM to 1.2 UNM. The standard screws, washers, threaded rod, and nuts are available in brass and 303 stainless steel. Screw head types in flat fillister, oval filister, flat head, hex, and slotted round head. J.I. Morris does not stock Phillips head or socket head screws. It stocks brass and stainless steel threaded rod in one foot lengths. The best-selling products are self-tapping flat head stainless steel screws used by research laboratories. Larger thread sizes are done by custom order by Swissturn.

"Manufacturers of precision instruments and medical devices are the largest market segment for our stainless steel miniature screws. Brass screws are commonly used by hobbyists. Our miniature self-tapping screws are used by neurobiology research laboratories, medical research centers, and university laboratories all over the world," said Ken.



will consider almost any request. All of our stainless steel products are passivated." In addition, Swissturn will manufacture many of J.I. Morris' standard fasteners out of other materials on request, including steel, aluminum, plastic, and silver.

New J.I. Morris Website to Come up in June

Ken said he expects to be launching a new J.I. Morris web-site in June. "The website will be integrated with our enterprise resource planning (ERP) software to allow for a better customer experience when ordering online. The website will also include drawings on all of our products." With nearly 50 years of contribution to the industry, Ken still sees new challenges in need of innovative solutions and looks forward to expanding the product line in 2019.

High Quality + Material Traceability + Plating Service

Swissturn has been ISO 9001 registered since 1997. In 2017, it was registered to the ISO 9001:2015 standard. It offers material traceability on most of its products. Its core business is high precision turned parts for the medical device, defense, laser, and industrial industries, so it is used to the demanding quality requirements of these customers. Additionally, J.I. Morris Miniature Fasteners will plate its standard products upon request. "We do not stock our fasteners plated, but we will take special orders. Common plating requests are for nickel, gold or silver plating, though we

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