Taiwan International Fastener Show



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Taiwan International Fastener Show



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Organized by

Bureau of Foreign Trade, MOEA



The Bureau of Foreign Trade (BOFT), which was established by the Ministry of Economic Affairs (MOEA) on January 1,1969, is responsible for formulating Taiwan's international trade policies, promoting trade, and managing traderelated activities.

Co-organized by Kaohsiung City Government



Kaohsiung City Government is dedicated to promoting the fastener industry. Over a half of Taiwan's fastener products are made in Kaohsiung, which stands that the most important cluster of Taiwan is in Kaohsiung. You are assured that you can find a variety of high-quality products and qualified partners. Besides talking about business all day, don't forget to enjoy the attractive scenery and great delicacies!

Implemented by Taiwan External Trade Development Council (TAITRA)



Founded in 1970 to help promote foreign trade, the Taiwan External Trade Development Council (TAITRA) is the foremost non-profit trade promotion organization in Taiwan. Jointly sponsored by the government, industry associations, and several commercial organizations, TAITRA assists Taiwan businesses and manufacturers with reinforcing their international competitiveness and in coping with the challenges they face in foreign markets.

TAITRA boasts a well-coordinated trade promotion and information network of over 1,300 trained specialists stationed throughout its Taipei headquarters, five local branch offices in Taoyuan, Hsinchu, Taichung, Tainan and Kaohsiung, and 63 overseas branch offices worldwide. Together with its sister organizations, Taiwan Trade Center (TTC) and Taipei World Trade Center (TWTC), TAITRA has created a wealth of trade opportunities through effective promotion strategies.



TAIWAN INDUSTRIAL FASTENERS INSTITUTE (TIFI)

Founded in 1969, Taiwan Industrial Fasteners Institute (TIFI) now has 673 members. Among all the members, Mr. Tu-Chin Tsai, Chairman of Sun Beam Metal Industrial Co., Ltd., was elected to be the eighteenth Chairman of TIFI.

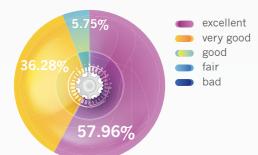
TIFI is committed to unite and promote the fasteners industry, to work with the Taiwanese government to implement economic plans as well as to coordinate industry relations to enhance common interests.



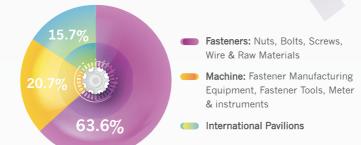
Fastener Taiwan 2018 Visitors' Review



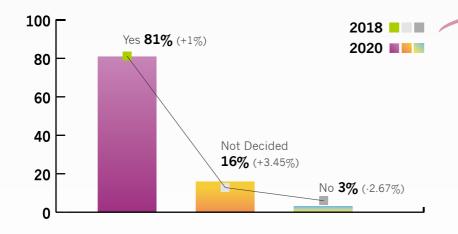
The Result of Your Visit to This Show



2020 Exhibitor Profile



Will you attend Fastener Taiwan 2020?



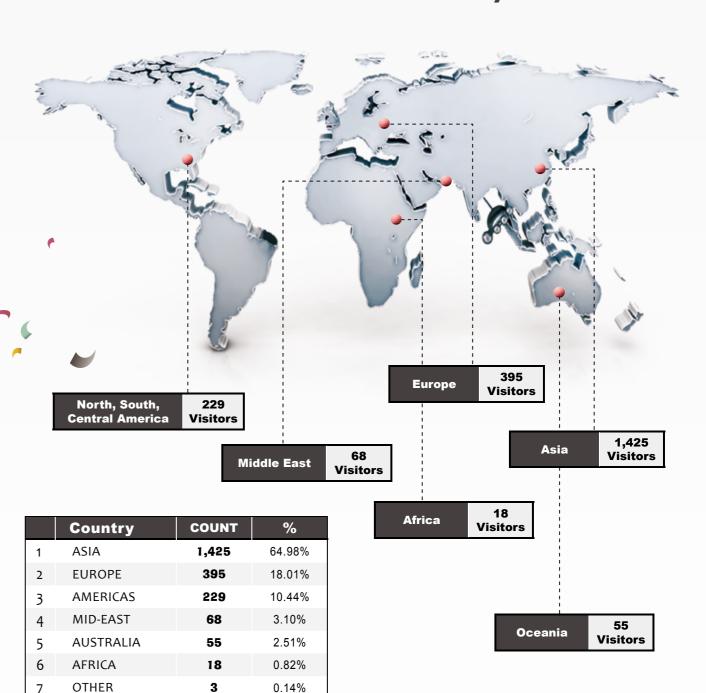
Product interest

Nuts, Bolts and Screws	49.15%
Fastener Manufacturing Equipment	21.04%
Fastener Tools, Meters & Instruments	17.28%
Wire & Raw Materials	12.53%

Purpose of visit

Place Orders	31.85%
Meet Existing Contacts	24.11%
Source for New Partners (Suppliers / Distributors / Agents)	22.90%
Industry/ Market Survey	15.73%
Evaluate Event for Future Participation	4.19%
Others	1.22%

Overseas Visitors Statistics by Continent



GRAND TOTAL:

2,193

(Figures of Fastener Taiwan 2018)

Taiwan Fasteners Embrace High-end Trends

By: Taiwan Industrial Fasteners Institute

When you need to buy screws, come to Taiwan! Fasteners such as screws, nuts, and bolts necessary for daily use, as well as those for land, sea, and aerial transportation are all available in Taiwan. Additionally, Taiwan has a "screw hub," industrial clusters, and professional fastener exhibitions. Throughout transformation and evolution, Taiwan has never failed to maintain its reputation as the "kingdom of screws."

From Traditional Accessories To Artificial Intelligence

Mr. Tu-Chin Tsai, Chairman of Taiwan Industrial Fasteners Institute (TIFI), said that Taiwan's fastener industry has long surpassed the traditional model to enter an age of technological research and development, ushering in an era of artificial intelligence and heading toward a high-end fastener market. He happily stated that "According to the data provided by the Metal Industries Research & Development Centre's (MIRDC),

Taiwan's fastener export volume and value both reached record highs in 2018, reaching approximately 1,679,000 tons and NT\$ 145.65 billion (same currency below). Our export ratio is as high as 85%. In the first half of 2019 (January to June), export volume totaled 803,000 tons, a negative growth (-3.25%) from the 830,000 tons for the same period in 2018, but export value reached \$71.62 billion, which was an increase of 2.23% from 70.02 billion for the same period in 2018; the average export price was \$8,919, an increase

of \$483 compared to \$8,436 in
2018. This shows that Taiwan's
fastener industry continues to
advance with success in the
high-end market."

Providing High-End Fasteners to The Global Market

Taiwan has contributed much to the global high-end fastener market. For example, any single screw used in a space shuttle is supplied by Taiwan. An airplane requires an average of 1.8 million fasteners; cars also need more than 2,000 fasteners. These products are all affiliated with Taiwanese screws; even the construction torque control screws used in Taiwan's tallest building Taipei 101 are from Kaohsiung's Gangshan District. All require the use of high-quality safety guaranteed screws, and are immediate business opportunities for Taiwanese manufacturers. With current trends in Al, an extremely high level of

precision and safety of screws is required. This is the best time for Taiwan manufacturers to actively research, develop, and evolve.

Industrial Clusters Are The Pride of Taiwan

There are many types of screws that are ever-changing. With 1,611 screw fastener factories in Taiwan, the number of employees is estimated at 34,000. These companies are mainly small and medium-sized

enterprises, each with its own advantages and specialties. However, these small and medium-sized enterprises form advantageous industrial clusters. For example, if domestic and foreign customers want to purchase specific items, they may need to visit different countries. But in Taiwan, clients may purchase everything they need at Kaohsiung's Gangshan "screw hub" within a distance of just more than 20 kilometers, a unique feature that



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cannot be matched by other countries. Also, for clients who have problems with the mold or machine that requires fine adjustments, they might need days or even weeks overseas to fix the problems, but at the "screw hub", appraisals can be made immediately by experienced factory workers. Taiwanese manufacturers also have good cooperation and

strong R & D capabilities, all of which make Taiwan a competitive "kingdom of screws".

Evolving Industry, Transcending Adversity

Over the past ten years, Taiwanese screw fasteners' annual export volume has fluctuated, though generally showing a steady increase. However, due to a recent shortage of domestic labor, and global demand being disrupted by political factors that affect international trade, Taiwan's fastener industry has not been performing well from the fourth quarter of 2018 to the third quarter of 2019.

How will the Taiwan manufacturers change adversity into opportunity? By building intelligent production lines, high-value products, and process automation – all goals that manufacturers can work towards. Smart manufacturing is the most important key to transformation. An in-depth integration of all aspects of production with the latest information technology, such as the Internet, big data, cloud computing, and artificial intelligence, will help improve the manufacturing process and stabilize product quality. Considering

current developments in digitalization, intelligence, and automation, the fastener industry still has a great deal of room for growth. At the same time, cross-border mergers and acquisitions, the application of new smart products, the development of medical supplies, automotive and aerospace-grade fasteners, etc., are all excellent opportunities for Taiwan's fastener industry to continually improve quality, while transforming and upgrading the industry.



TABLE 1. Taiwan Export Statistics of Screw Products in 2019 (Jan. ~ Dec.) by Country

Price (US\$)			Volume (KG)			Average Price (US\$/KG)			
Country	Rank	Price (US\$)	%	Compared to the same period in last year	Rank	Volume (KG)	%	Compared to the same period in last year	Average Price (US\$/KG)
United States	1	1,873,736,037	41.56%	-1.97%	1	675,606,983	43.67%	-3.23%	2.77
Germany	2	395,909,093	8.78%	-13.28%	2	132,939,387	8.59%	-14.59%	2.98
Netherlands	4	230,740,698	5.12%	-12.80%	3	80,987,763	5.23%	-12.97%	2.85
Japan	3	253,318,338	5.62%	3.57%	4	74,532,873	4.82%	3.75%	3.4
United Kingdom	5	176,007,541	3.90%	-3.55%	5	56,048,577	3.62%	-6.14%	3.14
Canada	6	148,053,452	3.28%	-10.22%	6	51,634,694	3.34%	-15.32%	2.87
Italy	10	84,244,716	1.87%	-21.64%	7	32,571,065	2.11%	-21.88%	2.59
Poland	14	68,094,646	1.51%	-4.68%	8	31,682,273	2.05%	-7.33%	2.15
Mexico	8	99,767,583	2.21%	2.65%	9	31,520,058	2.04%	-0.06%	3.17
Sweden	9	95,469,400	2.12%	-4.27%	10	29,114,718	1.88%	-3.14%	3.28
France	11	81,873,121	1.82%	-4.23%	11	27,744,355	1.79%	-1.79%	2.95
Spain	15	65,486,296	1.45%	-11.42%	12	27,238,025	1.76%	-10.49%	2.4
Thailand	12	71,794,678	1.59%	-9.99%	13	21,917,414	1.42%	-8.54%	3.28
China	7	119,918,364	2.66%	-21.19%	14	20,817,608	1.35%	-17.10%	5.76
Australia	13	70,523,125	1.56%	-13.70%	15	19,792,701	1.28%	-16.04%	3.56
Belgium	16	52,226,008	1.16%	-12.26%	16	17,662,174	1.14%	-11.85%	2.96
Russia	17	36,323,725	0.81%	-8.26%	17	17,467,142	1.13%	-13.20%	2.08
India	18	35,802,769	0.79%	-16.60%	18	13,003,450	0.84%	-10.30%	2.75
Saudi Arabia	20	20,447,536	0.45%	25.28%	19	10,178,905	0.66%	23.88%	2.01
Denmark	19	30,578,385	0.68%	5.96%	20	9,726,792	0.63%	6.74%	3.14
Others		498,693,270	11.06%	-14.82%		165,032,732	10.67%	-17.62%	3.02
Total		4,509,008,782	100.00%	-6.96%		1,547,219,689	100.00%	-7.93%	2.91

Source: https://portal.sw.nat.gov.tw/APGA/GA30E

TABLE 2. Taiwan Import Statistics of Screw Products in 2019 (Jan. ~ Dec.) by Country

		Price (US\$)			Volume (KG)			Average Price (US\$/KG)	
Country	Rank	Price (US\$)	%	Compared to the same period in last year	Rank	Volume (KG)	%	Compared to the same period in last year	Average Price (US\$/KG)
Japan	1	66,067,000	41.28%	1.22%	1	6,247,729	34.01%	112.88%	10.57
United States	2	27,383,000	17.11%	22.29%	7	352,331	1.92%	116.32%	77.72
Germany	3	11,832,000	7.39%	16.13%	6	399,696	2.18%	105.85%	29.60
China	4	10,236,000	6.40%	9.10%	2	3,667,825	19.97%	120.86%	2.79
Vietnam	5	4,579,000	2.86%	14.30%	3	3,170,962	17.26%	127.24%	1.44
South Korea	6	4,098,000	2.56%	-12.38%	8	332,905	1.81%	110.81%	12.31
Philippines	7	3,503,000	2.19%	-6.46%	5	1,167,517	6.36%	99.23%	3.00
Netherlands	8	3,368,000	2.10%	12.53%	11	238,787	1.30%	154.29%	14.10
Sweden	9	2,844,000	1.78%	-6.11%	12	149,688	0.81%	100.91%	19.00
Turkey	10	2,581,000	1.61%	36.78%	10	312,557	1.70%	171.38%	8.26
Switzerland	11	2,062,000	1.29%	-9.60%	17	55,705	0.30%	75.95%	37.02
France	12	2,054,000	1.28%	134.47%	24	17,452	0.10%	136.04%	117.69
United Kingdom	13	1,557,000	0.97%	21.64%	22	37,201	0.20%	111.28%	41.85
Thailand	14	1,535,000	0.96%	-4.95%	9	321,697	1.75%	90.78%	4.77
Singapore	15	1,354,000	0.85%	-0.15%	21	38,337	0.21%	107.44%	35.32
Czech Republic	16	1,330,000	0.83%	-26.07%	18	48,623	0.26%	55.68%	27.35
Italy	17	1,299,000	0.81%	-37.31%	13	88,397	0.48%	82.77%	14.70
Spain	18	621,000	0.39%	-15.97%	19	42,605	0.23%	131.77%	14.58
Malaysia	19	540,000	0.34%	-20.59%	15	65,386	0.36%	30.21%	8.26
India	20	514,000	0.32%	57.19%	16	59,995	0.33%	128.46%	8.57
Others		10,681,000	6.67%	-5.59%		1,554,578	8.46%	101.95%	6.87
Total		160,038,000	100.00%	5.35%		18,369,973	100.00%	13.19%	8.71

Source: https://portal.sw.nat.gov.tw/APGA/GA30E

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How to Get to Kaohsiung Exhibition Center?

Kaohsiung Exhibition Center (KEC) is located at the hub of the Kaohsiung Asian New Bay Zone and is easily reachable by different modes of transportation including air, sea and land, such as the high-speed rail from Taipei and other cities in northern and central Taiwan.

- Flights

There are direct flights from over 40 major Asian cities to Kaohsiung International Airport.

- Taiwan High Speed Rail (THSR)

High Speed Rail connects from Taipei in 1 hour and 30 minutes. The terminal in Kaohsiung is Zuoying Station. From Zuoying Station, you may take a 20-minute taxi ride to KEC, or take the Kaohsiung Mass Rapid Transit (KMRT) System to Sanduo Shopping District Station (R8) which is a 10-minute walk to KEC.

- Kaohsiung Mass Rapid Transit (KMRT) System

Sanduo Shopping District Station is the closest station to KEC. Exit from Exit 2, and KEC is a 10-minute walk away.

- Free Shuttle Bus from KMRT

There are free shuttle buses from KRT Sanduo Shopping District Station (Exit 2) to KEC during the show period of Fastener Taiwan.

KMRT Route Map



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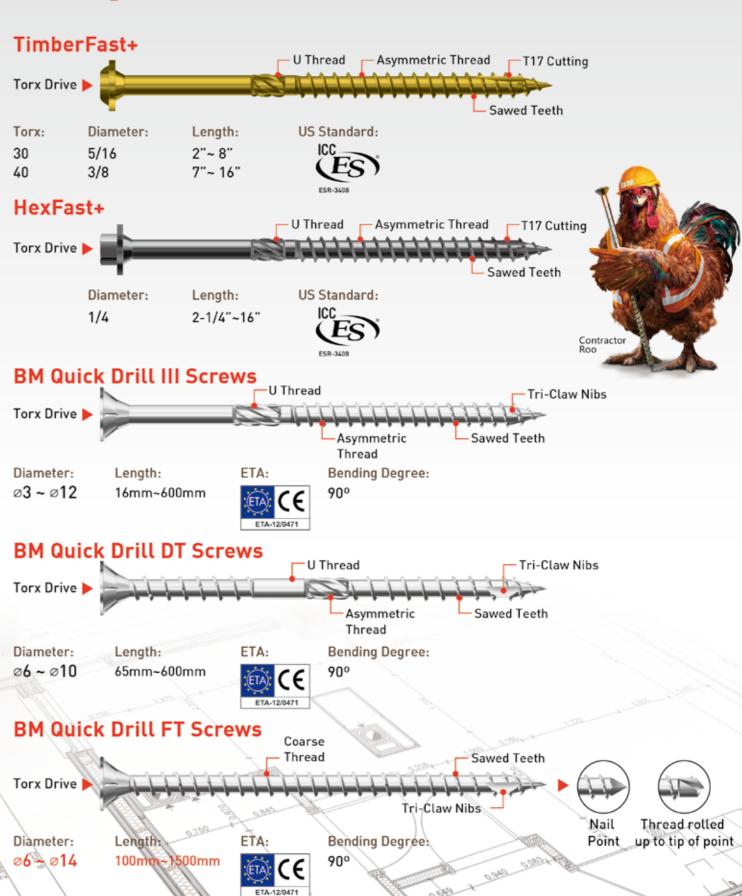
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kaohsiung.chateaudechine.com



INDIGO Kaohsiung Central Park

No. 4 Zhongshan 1st Road, Xinxing District, Kaohsiung, Taiwan

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Taiwan International Fastener Show

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Lianchitan (Lotus Pond) Scenic Area

Lianchitan (Lotus Pond) Scenic Area is one of Kaohsiung's most traditional scenic areas, and was listed as one of the "Eight Sights of Fongshan" in the Qing Dynasty. There are pavilions by the beach, massive statues of gods and the "old city", surrounded by the city wall, living settlements such as historical sites, old houses, and military dependents' villages. You can also sample Zuoying's rich, diverse food in the old streets and traditional markets. The Longhu Tower (Dragon Tiger Tower) is the most famous scenic spot in Lianchitan. Constructed in 1976, the tower is seven stories tall, and the dragon and tiger doors are its entrance and exit. Its walls are decorated with koji pottery, which represent proselytizing stories, from a variety of artists. The tower's body is connected to the Nine-Turn Bridge (Jiuqu Bridge) and is set off by the lake. There is a rule when visiting the Longhu Tower: enter at the dragon's mouth and exit from the tiger's mouth; this will allow you to avoid bad fortune and enjoy good luck. You can enjoy a 360-degree view of Lianchitan's scenery.



From the north of the Fisherman's Wharf to the Gushan Ferry Station, south to the Kaixuan Road Dream mall. The six-kilometerlong path runs through the famous sightseeing spots such as the Banana Pier, the Railway Story Museum, the Pier-2 Art Zone, the True Love Wharf, the West Link Line Cross River Iron Bridge, and the Glory Pier. It is connected to the Kaohsiung Harbor Coastal Landscape and the City Corridor. The beautiful scenery of Kaohsiung and the Love River are all in sight. It is the best way to experience the charm of Kaohsiung by bicycle.



The Wei Wu Ying Center for the Arts

Construction of the Wei Wu Ying Center for the Arts began with the aim of creating a world-level performing arts space, and two halls were established in the southern part. Not only is this the first national-level performing arts center in southern Taiwan, it is also the largest performing art and music center in East Asia. The building was designed by the Dutch architect Francine Houben, its long lines like flowing sound waves and also like stingray in the sea, inspiring poetic thoughts.

The special design allows viewers of different heights to enjoy the best sound and vision, taking care of the feelings of each audience. The auditorium seats surround the stage, bringing the audience closer. With the sky as the curtain, the curved structure extends from the ground to the roof, and the wind direction and landscape are incorporated into the design thinking. It enjoys the excellent view of the sunset, and the open space can feel the wind blowing.



Sizihwan Bay (West Bay)

Sizihwan Bay is known for its beautiful sunset and natural reefs, and the area includes scenic spots like the Siziwan Beach, Seaside Park, and the former British Consulate at Takao. You can enjoy the view of the sea, or gaze over Kaohsiung Port. The inscription on the gate of the Shaochuan artillery position, currently classed as a third-grade national heritage site reads "Kaohsiung Town North Gate".



THSR

Geographic Characteristics of Kaohsiuna

The 2,946 km² Kaohsiung City is a vertical strip of land in Southwestern Taiwan, bordering on the Jianan Plain, Pingtung Plain, Taiwan Strait and Bashi Channel to the north, east, west and south, respectively. The City provides a strategically located pathway from Northeast Asia to the South Pacific, with natural qualities befitting a good commercial harbor as well an emerging cosmopolis.

TRAVEL KAOHSIUNG

Kaohsiung: a Harbor City

West Bay

West Bay

According to 2012 statistics, the Port of Kaohsiung (PoK) is the world's 13th largest international harbor with cargo container terminal facilities and ranked No. 1 in Taiwan. Blessed with a warm climate and long strips of offshore sandbars, PoK lies along a perfect coast with 26.66 km² of navigable water, an 18 km long navigation channel and two harbors accommodating ships of up to 100,000 tons. It is also the centerpiece of local tourism, and comparable to any other world-class harbor in scenic beauty.

Kaohsiung Exhibition Center

The Kaohsiung Exhibition Center was established in 2000. Its purpose is to provide a place for holding international conferences and short-term trade shows. The exhibition center is the first multifunctional waterfront venue for exhibitions in Taiwan.



A Look at the Taiwan Fastener Industry, Now and the Near Future

The Current State and Circumstances of Taiwan's Fastener Industry

The fastener industry has been developing in Taiwan for nearly 70 years. In recent years, due to fierce international competition and the impact of lowcost demand for standard parts, many fastener manufacturers are looking for enterprise transformation and upgrading. Among them, using smart manufacturing technology to introduce production lines and equipment to develop higher value products is one of the important keys. However, the introduction of intelligent manufacturing involves problems such as expertise, system integration and the difficulty of service teams, resulting in slow development.

The global industrial fastener market is expected to reach \$110.24 million in 2025 and a cal) and NIFCO (Day/Industrial Components). Accounting for 10% of global total revenue are high-end fastener manu-

CAGR of 4.1% from 2017 to 2022, which will be largely driven by demand from the automotive, aerospace and construction industries. The major exporters are China, Germany, the United States, Taiwan, Japan, France, Italy, Switzerland, South Korea and the United Kingdom totaling US\$28.8 billion, of which Taiwan and China will account for 34% of the total value of these exports. The top five global fastener manufacturers are ITW (US/Industrial Components), Precision Castparts (US/Aviation/Industrial Components), Alcoa (US/Aviation), LISI (France/Aeronauti-

facturers, and low-level fastener manufacturers are located in developing countries (China, Taiwan and South Asian countries).

Taiwan fasteners have low dependence on imports, and have a high industrial cluster effect (especially from Kaohsiung Gangshan to Tainan Guan Temple area, the fastener industry cluster is particularly significant, and the output value accounts for more than 50% of Taiwan's total. This area is known as Taiwan screw hub). Stand-alone equipment is all independently designed and manufactured, and offers advantages in high-grade fastener development and production capabilities such as aerospace / automotive high-value fasteners.

After more than 60 years of development, Taiwan's fastener industry has formed an export-oriented industrial model and has become the fifth largest supplier of fasteners in the world. The main exporter is is the United States, followed by Germany. Years of intensive cultivation have not only formed industrial clusters with fine division of labor, but also complete upstream and downstream structures; starting from raw materials, machinery and equipment, tools and molds,

manufacturing technology, secondary processing, heat treatment, surface treatment, optical screening, packaging and automatic storage, etc. Being self-sufficient and internationally competitive has created a global advantage. Equipment related to the screw nut process includes heading machines, forming machines, tooth rubbing machines, tapping machines, tail drilling machines, tail milling machines, groove cutting machines, chamfering machines, secondary processing machines, heat treatment furnaces and peripheral equipment. Electroplating lines and related equipment include surface coating lines, optical image screening machines, eddy current screening machine, automatic packaging machines,

Most of these equipment types have self-control capability and high technical maturity, allowing them to be exported to Japan, China and other regions, showing a strong level of international competitiveness.

Fastener sales channels are divided into two types: manufacturing plants and distributors. In the past, the global OEM market was still mainly controlled by local manufacturers in Europe, the United States, and Japan.





Therefore, the cooperation model between Taiwanese manufacturers and international fastener factories is still based on OEM production. Most of them are indirectly sold to users, that is, the so-called TIER 2 supplier lower supply model. This type of operation model has been maintained for decades. However, in recent years, in response to global competition, major international manufacturers have tended to outsource non-core businesses and reduce suppliers. As a result, the supply chain has been reorganized. Large suppliers with integrated supply capabilities will dominate the channel, and the role of traders

and importers may gradually disappear, allowing the Taiwan fastener industry to move away from the indirect sales model.

Role of the Metal Industries Research & Development Center

The Center will establish a service cloud platform as the main axis, to assist the fastener industry to establish SaaS application services and metal products industry cloud system infrastructure, the integration of fastener intelligent manufacturing software service technology, and the development of fastener intelligent production SaaS-ori-

ented service landing solutions. The focus will be to build a smart SaaS cloud application system infrastructure that can support the metal products industry. This infrastructure will be imported into the public version of the network system platform, with the service industry equipment network and sensing technology, through the selfbuilt production line field parallel production data collection, analysis, to complete the cloud operation combined with the production line required by the machine-side online monitoring operation of the fastener industry intelligent SaaS service.

Problems encountered in the industry: At present, the fastener industry is striving for the application of high-end fasteners (such as automotive and aerospace). It has encountered global smart manufacturing trends and requirements from customer manufacturers. Full online detection is an inevitable trend. The classification of defective products relies on manual methods, and the lack of systematic analysis in terms of accuracy and efficiency needs to be improved. Assistance to the operator to introduce pre-diagnosis technology for abnormal quality of the process, and the use of

special models of metal cold forging process to perform intelligent automatic screening of products online. Through the establishment of process failure models and decision-making methods, the accuracy and efficiency of the pre-diagnosis technology can be improved. In the future, equipment failure pre-diagnosis and finished product defect classification in the high-end fastener forming industry will be diffused. The new business model assists the metal fastener industry in establishing intelligent manufacturing technology for metal fasteners, becoming differentiated competitiveness with high quality and high efficiency, and enhancing product added value.

There are about 1.400 domestic fastener manufacturers, and at least 1/3 of them are willing to invest in smart manufacturing. It is difficult to accelerate the development one by one, and this endeavor depends on the input of more technical teams and SI manufacturers. A smart manufacturing platform will be built that gathers intelligent SaaS, technical consulting, technology matching, information exchange, etc. to accelerate the promotion of cloud platforms. The level of industrial intellectualization still needs to be improved: more than 90% of the production lines of fastener factories lack the infrastructure required for the introduction of intelligent SaaS such as sensing and equipment networking functions. Cloud influence: Accelerate the introduction of smart manufacturing SaaS in the fastener industry with cloud architecture & IoT, build a third-party unit to maintain a fair cloud service, develop and develop innovative cooperation models for the fastener industry, and provide the required intelligent technical services. The platform integrates production / learning / research to provide modular technology for continuous expansion.

Establishment of process equipment perception monitoring technology, process quality pre-diagnosis technology, fastener defect analysis and modeling technology, and process mold pre-diagnosis technology to solve the current situation of the fastener industry, which also relies heavily on manpower, and sense the networking and mold through the machine. Sensing and monitoring early warning system technology to improve the quality monitoring rate of forging process. Construction of a smart manufacturing production line factory for metal fasteners, successfully transformed and upgraded to enter the high-value fastener market.





During the forming process of metal fasteners, machine learning can be realized, and manual inspection can be replaced by online full inspection, which greatly reduces time, labor and cost consumption. However, under a single product line, a single raw material, and a single process parameter, a single model can be used to achieve nearly 100% prediction accuracy. In fact, the process is due to machine parameters, raw materials, production line characteristics, and human operating habits. The difference is that it is not possible to make all machines aware of the process through a single model, so this sub-item is expected to develop a trigger mechanism for the event. It is planned to trigger model retraining or fine-tuning when an abnormality is detected in the process. In the analysis framework service (AFS), model update options are preset. The model's MAPE (common presets <10%) will be determined based on the actual machine-side calculations. The results of the random test comparison will be compared and the model update status will be feedback online to ensure the model's health and machine-side. The accuracy of the calculation reduces the quality variability of the model and assists the time or manpower loss caused by artificial judgment.

Trends in Taiwan's Future Fastener Industry

A rapid acceleration of a large number of industrial establish-

ments is occurring for the intelligent manufacturing of metal fasteners, especially in response to the need for older fastener factories to transform into new factories. The help for relatively traditional factories (subcontractors) with small samples, and large quantity (one-stop) production modes, intelligent manufacturing results, cloudbased rapid introduction of efficiency differences, single-choice SaaS or check-saaS to deepen AI data analysis technology differences and CPS connotations, and therefore choose the appropriate industry to actually use PaaS and a large number of SaaS solutions. This is to obtain high-quality smart manufacturing technology investment benefits, and become a model for industry to compete.

A complete industrial cloud system infrastructure will be built, combining cloud computing with the production line on-line monitoring and calculation of the fastener industry's intelligent SaaS service model, through the industrial intelligence / industrial networking / cloud platform / smart manufacturing SaaS value-added service. It will also accelerate the transformation and upgrade of the fastener industry through the construction of this industry service cloud, and promote the industry to



intelligentize high-value equipment, intelligent production of high-value fasteners, and intelligent development of factories to enhance the added value of export products and industrial competitiveness. This will create the next wave of growth momentum for the industry.

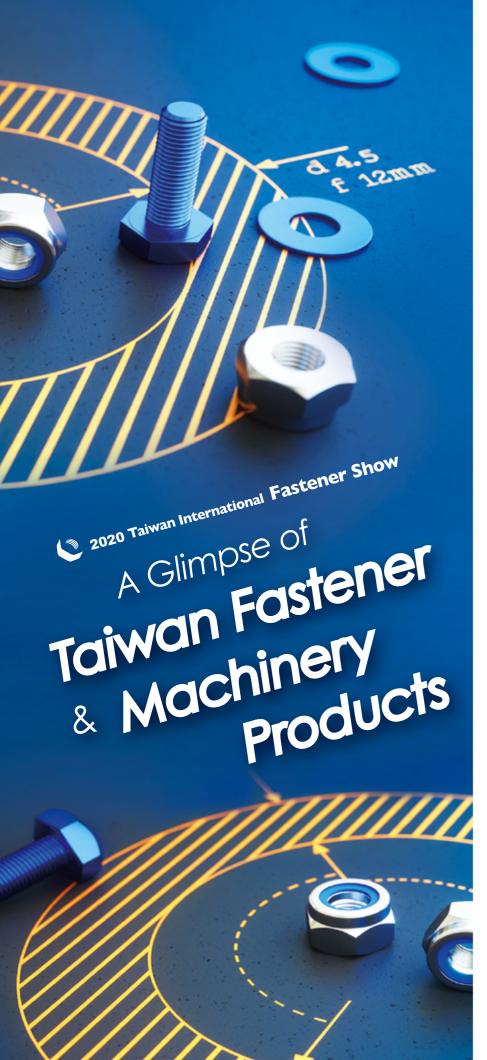
The promotion of intelligent manufacturing in the fastener industry will be accelerated, establishing an application model of intelligent manufacturing that can quickly replicated and spread, and that will actively connect domestic equipment factories, hardware and software manufacturers, SI manufacturers and IT system factories. Planning and promotion of the implementation of intelligent services will be through the Taiwan Screw Industry Association (TIFI).

Domestic research will be com-

bined with applied technology development, and then domestic equipment and system industries integrated into manufacturing upgrades. The industry must also have the expertise to enhance the R & D design in the factory, establish the parameters for simulation, prediction and optimization of the process digital painting system, and the key R & D parameters. Initially, process quality model pre-diagnosis technology was used to develop a digital model dedicated to the cold forging process quality of fasteners; the process quality pre-diagnosis decision-making technology continues to be developed, and a process failure model established a taraet mold equipment failure pre-diagnosis and finished product defect classification, making intelligent decisions and eliminate defective products to maintain full quality inspection requirements. Inter-industry and inter-industry strategies will be combined with domestic and foreign academic research units, various types of machinery manufacturing plants, software vendors, component and peripheral equipment factories with cross-machine machine connection, software value-added service

platform framework, and application development. Based on the domain of the corporate and educational research units, intelligent SaaS is developed. integrating mature industry solutions, and assisting in the industry's intelligent transformation. Combined with service providers such as Smart Machine Box (SMB) solutions, a common environment for automatic acquisition of machine information and serial integration of field information can be used to implement SaaS application services. Device sensing will be combined with sensor manufacturers (such as Superb, Marposs) to install high-sensitivity sensors on forming equipment (heading machines, dental rubbing machines), and develop device sensing and communication modules to collect and analyze the characteristics of the equipment and establish a cloud-based SaaS application service.







SAN SHING For more than 50 years, San



Shing has dedicating ourselves to offering quality-oriented services in fastener-related industries. With pioneering experience and background in product manufacturing in recent decades, our production-ready equipment and tooling units have already contributed to the substantive help of other industry players, who are striving to dig out additional perks from better productivity and product quality. As it is widely known, the optimum performance on forging tooling undoubtedly has become one of the important approaches to seizing the the extra edge from the market competition. The self-contained tooling factory of San Shing nowadays spares no effort in not merely satisfying the huge internal demands of consumable tooling for more than 5,000 tons production, but also serves hundreds of thousands of quality-oriented punches and dies annually to well-known automotive and aerospace manufacturers around the world. Recently, with all sorts of automation in parallel with various multi-axis machining centers and EDM machines, San Shing tooling factory is committed to improving production efficiency and boosting our capability to face more challenges from high-end molds or work-pieces from different fields. Apropos of San Shing machinery, the Precision series nut former features an incomparable linear feeding system design with accurate cutting tolerance and time-saving alignment, as well as a crankshaft equipped with bushing and clutch brake system that combines accuracy with ease-of-operation, which helps pave the way to deal with the challenge of producing high-value parts. On the other hand, the IIoT-based HMI system also satisfies essential requirements for real-time production monitoring when Smart Manufacturing System is imperative.

www.sanshing.com.tw



LIH TA Fasteners has been in the screw OEM / ODM business for over 40 years, mainly focusing on automotive (IATF 16949), electronic industries (EICC), DIY market and others. The manufacturing strengths of Lih Ta's Taoyuan plant include: Over 40 years' fastener manufacturing & management experience. IATF 16949, ISO 9001, ISO 14001, and OHSAS 18001 certified factory with D-U-N-S registration. PPAP III documents submission, IMDS code and ROHS commachines in house, including 6 sets of multi-forming machine (2 dies 4 blows). Manufacturing range: M0.8 ~ M10 automotive & industrial screws / studs / welding bolts. One station solution (Strong connection of reliable heat-treatment and plating houses). Master in the materials of carbon steel (C1022, 10B21, 35 /40 ACR, S45C.. etc.), stainless steel (300 series, 410)

pliance. 1.5 ~ 2.0 billion piece of screw

Machining layout: 60 sets of standard

supply annually, large capacity.

Licensed products with certifications: SCREW RECESS: TORX®, TORX-PLUS®-SCREW THREAD: REMFORM®. POWERLOK®, MAThread®, MAT® point, TAPTITE®, PLASTITE®, THERMO-PLASTIC THREAD, etc.

and alloy steel like SCM435.

www.lih-ta.com.tw

TAIWAN SHAN YIN has factories both in Taiwan and Malaysia; certified by IATF16949 and ISO 9001. We have strong R&D and innovation capabilities, and supply full product ranges, especially for high-end customized products.

Our patented "X'TRA" screw has ETA certification, X'tra Screw's penetration performance is 20%-30% faster than other similar brand models, and its pullout performance shows better result with 10%~20% higher than others. As the outcome indicates, the product saves time and manpower during the working process.

Furthermore, this patented screw does not need pre-drilling in most applications, even when drilling on the edges of premium hardwood/lumber, NO cracks will appear on the wood surface. The X'TRA patented screw is made with high quality material which delivers stable and high performance. Together with SKT coating, the product is able to sustain performance even in tough outdoor environments.

The X'TRA is a highly popular product among European and USA customers, and the product has helped many of our clients (with their own private label) expand their market, and increase

their sales with greater profits.

With more than 35 years of experience in the fastener industry, we provide the best quality and the best service. Taiwan Shan Yin offers total solutions to our partners, and we are ready to be your ideal partner and supplier.

www.shanyin.com.tw

PATTA International From a Blind Rivet to a Fastener and Hardware Kingdom.

Since our first blind rivet was manufactured in 1982, followed by self-drilling screws, we at the PATTA Group have continuously improved on technology and the quality of our products, invested massive resources in product development, moving toward becoming a diversified company of manufacturing service provider. We not only focus on R&D, but also pursue high standards and consistent production process and services. Simultaneously, we listen to our partners' needs around the world. PATTA is qualified with TS 16949, ISO 9001, and ISO 14001.



www.patta.com



YI-XIU This is not the common type of thread rolling machine that you are using now.

YI-XIU INDUSTRY (YXI) has employed its new patented "SWING-ARM TECHNOLOGY" on thread rolling machines, officially presented in 2018. The SWING-ARM can directly push the thread die to move back and forth steadily in a perfectly straight path. Therefore, YXI's rolling machine can reach a degree of high precision rolling ability that common machines cannot come near.

- Improved thread quality
- Higher production efficiency
- Better equipment longevity
- Low manufacturing cost

www.dynamatictech.com



OSG Corporation is a comprehensive cutting tool manufacturer specialized in the manufacturing and sales of taps, end mills, drills and rolling dies. In our mainstay area of taps and threading tools, we hold the world's largest market share.

Since the company's foundation in 1938, we have consistently focused on offering products of high-value-added by combining a proactive response to customer needs with highgrade manufacturing capabilities.

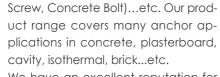
This philosophy is the corporate DNA of OSG, and a key driver of our global business operations and development of world-leading products in the area of cutting tools.

www.tosg.com.tw

Taiwan International Fastener Show

JOKER Industrial Co., Ltd. Joker is an experienced manufacturer specializing in the production of Anchors for over 35 years. We produce a wide range of anchors, including Hollow Wall Anchor (Molly Anchor), Jack Nut, Sleeve Anchor, Spring Pin (Express

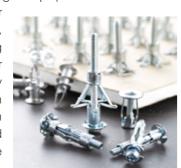
Nail), Easy Anchor (Zinc alloy anchor), Safety Nail (Ceiling Anchor), Hammer Drive Anchor, New Fixing, Metal Insulation Plug, Sissy Stud with ETA option 1 approved ETA-14/0374 (Concrete



We have an excellent reputation for quality and have been awarded TÜV Rheinland ISO 9001 certification for

over 19 years. In 2014, JOKER became the first Taiwanese manufacturer to have patented design Sissy Stud Concrete Screw approved by ETA directly from EOTA, getting the number ETA-14/0374.

www.joker.com.tw



DA YANG ENTERPRISE CO., LTD.

We are an automotive special nuts manufacturer since 1992, and we are certified with IATF16949. Our main sales regions extend throughout Taiwan, America, Europe and Japan.

Da Yang has high development capability in producing various types of specialized automotive fasteners, and we strive to excel at making parts based on cold forged technology for



single-stage manufacturing processes to eliminate the concerns of further secondary machining processes. We also continuously upgrade our tooling and facilities to enhance product quality and customer satisfaction.

We possess a strong and superb research team and exercise strict quality control. Therefore, kindly remember if there are any special nuts problems, Da Yang is there to solve them. We are masters of special nuts.

SPECIAL AUTOMOTIVE PARTS: SPECIAL WELD NUTS, BUSHINGS, T-NUTS, PARTS ACCORDING TO CUSTOMER'S DRAWING.

PRODUCT RANGE: LENGTH: 5-170 mm, O.D.: 5-60 mm

www.specialnuts.com.tw



EVEREON INDUSTRIES, INC was established in 1993. We are one of the leading mold producers at the primary stage, and our outstanding products have earned a great reputation for our good quality. Our YDS brand was accredited by ISO 9001 in year 2004. Devoting our attention to research and development, we successfully developed "German zebra hose (pipe) clamps" in the year 1994 and then became the pioneer factory in Taiwan.

Today, our products have been sold worldwide, and our hose clamps are primarily exported to markets in Europe and Asia. Currently, we are expanding our business to the Americas. We possess both R&D and self-manufacturing capability. Our products have competitive prices and high-end quality, which has led to our continuous growth.

Hot selling products: Assortment Kits. Our latest new packaging for packing hose clamps. There are many sizes and quantities to choose from to make your own plastic box.

www.evereon.com.tw

ANCHOR For more than 30 years, Anchor has been dedicated to manufacturing high quality fasteners for the Construction, Automotive and Electronic industries. Constantly improving our research and cold forging technologies, Anchor has been able to provide manufacturers and distributors excellent products for their clients' every need. In addition, we are a qualified supplier certificated by IATF 16949 and ISO-9001. In Europe, we have ETA/CE approval for drop in anchor, wedge anchor and concrete screw. Our line of products include various concrete anchors, rivet nuts, clinching fasteners, lock bolts, interlock rivets and custom



fasteners per customer design specifications using steel, stainless steel and aluminum. Anchor's commitment to product development, engineering, consistent high quality and delivery is how we have been able to provide our products and services to customers around the world.

www.anchorfast.com.tw



SUN THROUGH is an innovative screw manufacturer who owns many amazing patents on the following items. Main products include: bi-metal/410/carbon steel spiral self-drilling screws, twin-spiral cutting wood construction screws, self-drilling screws for composite (wood + steel plate) materials, ultra-high strength (grade 14.9) bolts, and regular carbon steel/bi-metal self-drilling screws.

Our Spiral Self-Drilling screws are designed to work on heavy-duty steel plate. They

have amazing drilling capacity up to 30mm with zero failure rate in drilling and relatively shorter working time. Sizes range from M5.5 to M6.3 (M8 in development), length from 38mm to 365mm.

Twin-spiral cutting wood construction screws, different from regular T-17 cutting screws, have two blades to facilitate the drilling process, for efficient and effortless working without loss of strenath.

Grade 14.9 ultra-high strength bolts hold structures more firmly, providing more safety and lower maintenance costs.

Sun Through owns heat-treatment facilities in house and a blade design laboratory so we can iterate design cycles quickly and keep making breakthroughs in self-drilling fastener industries.

www.sunthrough.com.tw

CHAN CHANGE / CHANG HORNG



Our company adheres to the spirit of sustainable service and invests heavily to provide complete and excellent mechanical and professional part data integration, with professional screw machinery technical advice, training, mechanical repair, maintenance, and other services. In order to ensure the quality of service, we set up factories in Qingpu and DongWan. We provide a more efficient and better quality of service for you. After years of research and develop-

ment, Chan Change Machinery upholds the attitude of diligence, professional development of 2 Die-4 Blow screw heading machines, and development of models of 1 Die-2 Blow, 3 Die-3 Blow, 3 Die-6 Blow, and other machines. We strengthen the precision of the machine, provide more convenient humanized operation, make the machine easier to get started and develop the unique system.

www.chan-change.com

LCSY(LU CHU SHIN YEE) Founded in 1965, LCSY is the first factory to produce stainless steel nuts made by cold forging in Taiwan. We have a variety of products, including screws, nuts and drawing parts, and the production diameter is complete, with sizes ranging from smallest to largest. We have also combined the cold forging technology and facility with secondary machining. By this way, we reduce costs, and enhance our product

Featured products include stainless steel

competition ability in the market.



fasteners used in the auto industry, micro screws & nuts, high added value special materials & special surface coatings, and products by both forming & machining.

www.lcsy.com.tw

ZXY "VISION X" by ZXY Technology Ltd with Intuitive User Interface

ZXY Technology provides sorting machines originated from user-oriented designs, and specializes in the development and manufacture of customized optical sorting machines. "VISION X", the company's latest invention of this year, incorporates intuitive design on the user interface. The new operating sequence of VISION X enables the user to complete the desired inspection configurations with ease. We have made a complex sorting machine just as simple and convenient as using an iPhone! VISION X uses a large number of graphic icons to replace the text on the interface, making the operation more intuitive and faster so even a newbie can quickly remember the functions and services.

ZXY can customize machines as per clients' provided demand on sample inspection, and perform actual inspection on the required items. The new user interface has not only accurate computing algorithm, but also significantly improves operating smoothness. The setup, function adjustment and replacement of consumable supplies are all based on ergonomic designs, and the design focus also eases cleaning and maintenance.

www.zxy-tech.com



JET FAST Company Ltd. was founded in 1979 in Kaohsiung, Taiwan and specializes in the manufacture of Rubber Nut-inserts, Metal Rivet Nuts and Nylon Nut-inserts with more than 450 different sizes. The products are mainly used on automotive, industry and DIY markets for architecture in Europe and North America.

Rubber nut-inserts: Function as a threaded insert and fastener; effectively seal against air or liquid leakage at the assembled joint. Good to reduce vibration and absorb shock and noise. It is an ideal fastener for automotive assembling.

Metal rivet nuts: Maintenance free alternative to welding, tapping or con-

ventional nut and bolt.

Nylon nut-inserts: Reusable and can be used in metal, fiberglass and plastic panels.

Our goal is to provide professional and speedy service to our customers with ISO/TS16949 and inventory in the warehouse. Dimensions can be customized according to customer's needs.



www.jetfast.com.tw

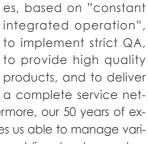
SONG CHYUAN

Industrial Co., Ltd. is specialized in the manufacture of retaining rings, spring pins, spring nuts, and lock washers. We pos-

sess the largest scale and the longest history in the field of circlips in Taiwan. In recent years, we have further diversified our portfolios through auto/motorcycle parts, electronic parts, other metal parts and stamping products. In addition to ISO-9001 & ISO-14001 certificates, we use automatic production equipment and continuous

HCT(Huana Chao-Tai) was established in 1991. Nowadays, HCT has over 29 years of experience. Being a high volume turned part supplier, HCT produces precision components according to clients' drawings with customization. We are equipped with TSUGAMI (Japanese-made) Swiss-type CNC machine, NC machines, Turret-type CNC machines, CAM machines, with a total of 54 sets. For quality, QC inspection equipment includes profiler, 2.5D image measurement, projector, surface roughness tester, optical microscope, precise thread gauges, thread gauges, electronic micrometer and concentricity measurement.

HCT specializes in CNC precision turning parts. We are industry renowned for supplying a vast array of service for kinds of material based on turned part/ screw machined components. We are committed to cost-effectiveness and fast production speed with the capability to export on a world-wide scale, and also offer comprehensive service-assembly and surface treatment without minimum order quantity. For machine equipment and technology, HCT is not only guaranteed by domestic customers and the government, but also by international customers around the world. In 2017, We updated to ISO 9001:2015 international quality certifications. HCT



heat treatment furnac-

work. Furthermore, our 50 years of expertise makes us able to manage various complex molding developments. Directly or indirectly SONG CHYUAN supplies many of Taiwan's largest firms / agents / traders with goods and also markets merchandise all around the world.

www.songchyuan.com



parts are widely used in automobile/bike/suspension system/electronic equipment/medical instruments/mechanical machinery/bath ware part/hydraulic& air tool/toy gun parts/building hardware/special fasteners (screw/nut/insert/connector/washer/shaft) HCT is your reliable partner.

www.hct-tw.com.tw



SHEH FUNG is a leading company in screw manufacturing in Taiwan. Since 1973 Sheh Fung has established themselves as a leader in screw design and technology. We have grown as a company of high quality products with a trusted well established reputation.

We specialize in small construction screws like wood screws, self drilling screws, drywall screws, chipboard screws, self tapping screws, machine screws and many others. We can design packaging to meet requests and own our own automated packing facility.

In order to continuously improve the manufacturing quality of Sheh Fung, we received ISO-9001, ISO-14001, CE, ETA Certification, also we have got A2LA laboratory certification in order to advance the credible quality control recognition at home and abroad, to ensure our products have the world-class guarantee.

www.shehfung.com

BIING FENG For the past 40 years, we have specialized in the development and manufacture of cold forging nut/part formers. The models of BIING FENG nut/part former range from 11B to 50B, working process from 5 stations to 8 sta-



tions and divided into "Standard", "Long stroke" and "P.K.O." series.

The products are used in various fields such as furniture, architecture, automotive and aerospace industries. In addition to three professional series, we also accept ODM orders by exchanging technical knowledge with customers and design unique machines for them. By making the machines more user-friendly, we satisfy a wide range of customer needs.

www.bf-bestformer.com

TONG HWEI

Founded in 1978, Tona Hwei Group is a alobally leading manufacturer of Stainless Steel Fasteners. The group consists of Tong Hwei Enterprise - focusing on making SS bolts, nuts & studs, Min Hwei Enterprise - focusing on making SS machine screws and self-tapping screws, and Min Hwei Energy - focusing on making mono crystal solar cells that deliver high efficiency power generation. By integrating product ranges, Tong Hwei & Min Hwei can satisfy customers' needs of a one-stop shop for stainless steel fasteners, and also provide customized surface coatings, packages and labels. We are also interested in blue-print items and special material types (such as Duplex Stainless) with value-added products.

Based on environmental awareness, Tong Hwei has created a park-like friendly working environment, with solar panels installed on its rooftop for generation of green energy. In addition, the automated warehousing systems are employed from tooling & dies to finished products for serving customers with quick response times.



www.the.com.tw

LOCKSURE – Cage nuts can be an important element for many areas in the automotive industry (e.g. seat systems), and are used massively in all kinds of vehicles with a very large volume.

Locksure has built up a strong showcase of various kinds of cage nuts successfully in recent years. We have spent time to develop the production lines, and to strengthen competitiveness in terms of



price and capacity of production.

In 2019, we have developed a cage nut that includes assembled elements like a) cold-forged nut, b) Nylon fittings, c) stamping part, plus a new automated assembly line. All the elements must be made precisely to close tolerances, to perfectly fit into the stamping shell. But before the assembly, the pre-galvanized coiled sheet that meets the automotive spec has to be imported from Japan under our well-planned schedule, while the Nylon fittings are made from the branded spec of the world acclaimed Nylon material suppliers that provide proven quality.

www.locksure.com.tw



KINGWIN Precision Co., Ltd was founded in 2000. It is an ISO 9001 quality assurance manufacturer specializing in producing the highest quality forming tools worldwide. With nearly 20 years of experience and commitment, we are confident to face stricter challenges in the new era of global markets, while providing customers with reliable solutions and the best forming tools. In an 8000 square meter plant, KINGWIN supplies required tools according to customer drawings or appropriate sample parts.

With two shifts of workforce and over 70 CNC machines operated 16 hours a day, we accept quantities from 3 to more than 3,000 pieces in every single order.

We offer - Punches: Stamping, Square, Socket, 6-lobe, Hex, 12 point, Piercing, Header, Recess, Extrusion, Ejector, Insert, Sleeve, K.O. Pins and Customized Punches

Dies & Molds Parts: Dies for Nut, Screw, Segment, Cutting, Trimming, Carbide Insert, Header Dies and Open Die Sets.

Forming Machine Tools: Transfer Finger, Cutter, Cutter Holder, Punch Holder, Punch Collect, Feed Roller, Ratchet Wheel, Spacer, Spring Clip and Customized Parts in Aluminum, Copper, stainless steel.

www.kingwin.tw

Taiwan International Fastener Show



BROADEN Worldwide Co., LTD established in 2009, specializes in manufacturing and exporting self-drilling screws for the building and construction industry.

Aiming to providing the best, 100% Made-in-Taiwan screws in the fastener industry and on the market, we introduced the BDN Fasteners brand in 2015, and established a base in Thailand in 2016. BDN Fasteners offer a full range of Self Drilling and Self Tapping screws for steel-to-steel and steel-to-timber applications, and in various corrosion resistant coating options to combat the elements.

Starting out as an original equipment manufacturer, we have always been a customer-service oriented company, with the main objective being to meet customer demands. Using unconventional but creative sales and marketing methods, we aim to gain global recognition through BDN branded fasteners.

www.bdngroup.com.tw



Special Fastener 9.4 x 38 ScrewTech has IATF 16949:

2016 and ISO 9001: 2015 certification and we expect to receive full QC080000 and VDA6.3 certificate soon. We have made this customized pin for major automotive OEMs. It has the following characteristics:

- Five-die / five-blow multistroke production
- Based on many years of experience, we are able to make the multiple planes and grooves on this part with only two processes.
- Automotive OEMs use this part in the steering wheel for air bags.

www.screwtech.com.tw

SCHMOLZ + BICKENBACH Group is

one of the world's leading providers of customized solutions in the specialty steel long products business, and a global name in tool steel and stainless steel long products.

Our production mills are located in Europe and North America, including Ascometal, Deutche Edelstahlwerke, Ugitech, Finkl Steel, Steeltec and Swiss Steel, offering a very large range of semi-fi nished and fi nished special steel products. With more than 70 service locations worldwide, the global presence of SCHMOLZ + BICKEN-



BACH International allows us to provide our customers with local supply chain and more services. SCHMOLZ + BICKENBACH is a reliable partner, supporting and supplying customers wherever they operate.

www.schmolz-bickenbach.com.tw



Here we would like to introduce a newly developed machine "High Speed Bolt Pointer HC-P14". This machine provides solutions for the screw end pointing, chamfering and drilling.

- The machine capacity has the range of 3mm~15mm in diameter and 12mm~150mm in length.
- Production speed up to 0~150 pieces/
- Spindle Speed is 1,000~6,000 RPM.
- Other than pointing, the machine is also able to do chamfering, facing, and drilling operations.
- Modularization jig with Quick-Change
 Option and higher accuracy.

Often pointing operations are con-



ducted with machining lathe with specialized feedings. However, Machining Lathes are slow in production and inflexible in feeding and tooling change. Now, our HC-P14 offers solutions in high-speed and flexibility. CYC is the exclusive distributor for HC-P14 and will display the machine in the Taiwan International Fastener Show.

www.chumyuan.com

MOLS Group has specialized in screw manufacturing for 30 years, and owns a complete production line from screw manufacturing, heat-treating to painting. We export our screws worldwide for a variety of types, such as Tapping Screw,

Construction Screw, Roofing Screw, Thread Forming Screw, Self-Drilling Screw & Home Appliance Screws. We're also confident to be your onestop solution in the field of screws. Capacity: Applicable manufacturing range: dia. #4 - 5/16 (M2.9-M8); Length 1/4"-3" (6.35mm-76.2mm). Screw manufacturing factory: 1,500 metric tons/ month; Heat-treating plant: 4,500 metric tons/ per month; Painting factory: 60 containers/month.

www.molscorp.com

BOSS Being a main supplier of diverse fastener products in Taiwan, we are also able to make new designs according to customer's idea & market demand, and various special appli-



cation fasteners in carbon steel and stainless steel...etc. With support from experienced satellite factories, we have a wide range of product category. Now, we focus on the development of speciality fasteners based on our professional knowledge & service, including our new XDCut Screws and DMP Screws.

We are confident that our product & quality will meet your needs in the market. We are capable of maintaining consistent and superior quality. As an ISO-9001-2015 certified supplier, our product specifications follow IFI, DIN, JIS standards, and CE EN: 14566 Certificates.

Our main products:

Construction Screws, Self-Tapping Screws, Self-Drilling Screws, Machine Screws,

Roofing Screws, Outdoor Screws, Drywall Chipboard Screws, Particle Board Screws,

JIS Screws, Wood Screws, Furniture Screws, Concrete Screws, Sems Screws, Bolts.

www.screwboss.com

YOUR CHOICE Fasteners & Tools Co., Ltd has devoted itself to the fastener Industry since 1992 and is an ISO 9001:2015 and CE quality certified professional manufacturer and exporter in Taiwan. Your Choice has been granted a great rate for passing anti-dumping duties (CBSA) in Nov. 2019 to extend business in the Canadian market.

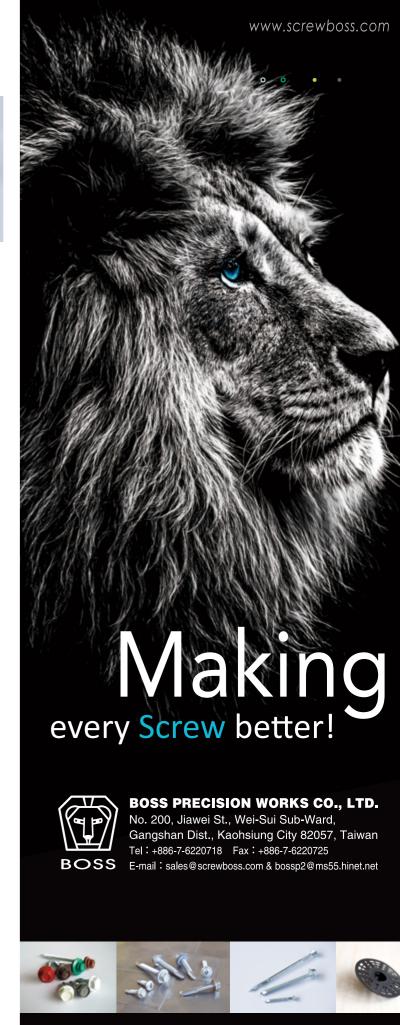
Your Choice provides both standard and customized screws, and we continue to develop better and more efficient manufacturing process. Our average monthly capacity is between 800~1000 tons to satisfy screw range in construction, automobiles, bicycle and fitness

With great experience in fastener field, Your Choice's service team insists on high quality, competitive price, and punctual delivery. Our products are sold worldwide

and we are growing up with great efforts. Under globalization, we seek for new development on quality, technology and innovation to create winwin business cooperation with our valued customers.



www.ycs.com.tw



Customization / Innovation & Development

Modern Production / Inspection Capacity

LONG HWA was established in 1988, and has over 30

years of experience in the screw manufacturing business. Starting out as a traditional OEM factory, Long Hwa began with inherited knowledge and techniques passed on by Japanese predecessors. As the company developed with years of experience, we took on challenges from every aspect of our service. By improving and taking on new challenges, Long Hwa aggressively seeks out new and more interactive ways to cooperate with our customers. Our logo consists of colors red and blue, symbolizing our aggressive, devoted approach towards our product and services. Our specialization is long-size screws for self-drilling screws, chipboard screws, concrete screws, distance screws, wood screws....etc. Long Hwa Produces various types of screws to customer's demand. We are highly specialized in developing new models.

www.long-hwa.com.tw

KCS Enterprise is devoted to the R & D of rubber related products. Current major products include Bonded® Washer and Customization Rubber Products (Customized Services). R & D, manufacturing, and marketing are our operational priorities. Providing our customers with premium quality products, competitive price, and innovative products are our guarantees. We welcome your inquiries, questions and designs.

KCS is the best and most professional manufacturer of Bonded Washer in Taiwan (R.O.C). KCS's main product is EPDM Bonded with Steel Sheet Washer, i.e. Bonded® Washer. This product derives its benefit from combining rubber and metal (materials like galvanized steel plate, aluminum, stainless steel, etc.) to produce washers with compound mate-



rials and technology. It surpasses other metal or rubber washers in weathering ability, ozone resistance, heat resistance, slip resistance, leak resistance... and so on, and it has become a mainstream product in the world's building markets. This product is suitable for buildings and automobiles. In addition, high-level products (M-type) are also available for wooden cabins and villas.

www.kcs.com.tw

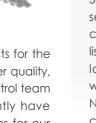
BI-MIRTH was founded in 1986, and ever since then our mission has been to strive to be one of the top fastener manufacturers through quality, innovation, and expertise. We have evolved and expanded from a trade company at Taipei with only three employees to a manufacturing company based in Gangshan, Kaohsiung with our own forming, electroplating, coating, and packaging plant with approximately 250 employees.

Our company specializes in self-drilling, self-tapping, wood construction, and concrete screws from diameters M3 to M20 and up to 1,500 mm in length. We're also constantly researching and



developing potential products for the market. To ensure our fastener quality, we have a strong quality control team in our company. We currently have CE, ETA, and C4 certifications for our European market, and the ICC certification for our American market.

www.bi-mirth.com





MAUDLE (TUZ)

Industrial Co., Ltd., established in 1984, is located in central Taiwan. As a premier professional fastener manufacturer, TUZ is dedicated to supplying a wide range of hex socket screws from high strength alloy steel, carbon steel to stainless steel. The products meet various international industrial standards including German, United States, Great Britain, Japan and ISO; Ranges from M2 to M24 in metric sizes and #0 to 1" in Imperial Size.

Our products suit multiple industries, such as machinery, electric appliances, molds, automotive, high-tech construction and high-speed transportation. In addition to the standard sizes, our well-trained technicians are able to produce customized unique bolts or screws to satisfy the special requirements of our valuable customers.

TUZ is still growing healthily in the past 3 decades. TUZ set up Morgan Hardware Co., mega production center, in Kunshan, China in 2000. It occupies over 20,000 square meters and has 350 employees. We also have several sales centers in major cities. TUZ fasteners have established excellent reputation and loyal customers around the world, particularly in Asia and North America market. We will continue to expand our sales channels and benefit all customers in the future.

www.tuz.com.tw



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