

Top Stories

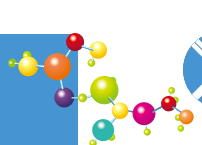
Organizers' Welcome

Excellence in Research & Innovation Awards Nominees

2017 & 2018 Q1 Report

Plastic Bank finds the way for sea drifting garbage

Product Highlights



TAIPEI PLAS
Taipei International Plastics & Rubber Industry Show



ShoeTech Taipei
Taipei International Shoe Making Technology Show

AUG. 15, 2018

SHOW DAILY

Exhibitor **533**

Booths **2,738 +6.04%**

DAY 1



Showcasing Products at Taipei PLAS & ShoeTech Taipei 2018

- Plastics and rubber processing machinery: injection molding, blow molding, extrusion, printing machinery, etc.
- Auxiliary equipment, mold & accessories, and mold processing equipment.
- Automated system, robotics, and 3D printing equipment.
- Plastics & rubber raw materials and finished products.
- China pavilion.
- Shoemaking Machinery.

Taipei PLAS & ShoeTech Taipei 2018 Deliver Smart Manufacturing for The Future

The 16th Taipei Plastics and Rubber Industry Show (Taipei PLAS) begins today at Taipei Nangang Exhibition Center, Hall 1. Being a highly recognized procurement platform for international buyers, Taipei PLAS 2018 is well organized into 3 different themes and the show is estimated to attract nearly 20,000 professional attendees.

This year, the show is set to be themed around "Reducing Carbon Footprints & Providing Green Products", "Smart Manufacturing & Machine Systems" and "Aesthetic Design & Upgrading

towards Industry 4.0 to Enhance Product value". And there's always more at Taipei PLAS! On 8/16, be sure to join the first-ever Taipei PLAS Summit. The topic this year is on Industrial 4.0, and the summit speakers are from both Taiwan and overseas with a total of 8 major industry brands. It's a great opportunity for you to learn the newest development on plastic and rubber smart manufacturing

Also, there will be nearly 30 seminars held at the show site. Many Taiwanese and international exhibitors are hosting seminars to launch their

newest products or present their technology breakthroughs. You cannot miss this chance to bare witness to the most up-to-date developments in Taiwan's plastics industry.

The show this year also sets a new record with co-hosting another new show brand, the ShoeTech Taipei 2018. While the ShoeTech is also presented at Taipei Nangang Exhibition Center, Hall 1, visitors are able to explore more diverse products and all participants can also enjoy a much larger platform for more business cooperation.

CLICK FOR YOUR FUTURE PRODUCTION

Produce Smart, and create the "Production for Future". We are specialized in delivering shoe-making machinery with visualized, High performance, and smart integrated system. Check in with Horng Chii, where you will always find your very own fully automated production line.

HC-258B/2CS
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No. 71, Lane 667, Zhongshan Rd., Shengang Dist., Taichung City, 42950 Taiwan



Organizers



Taiwan External Trade Development Council (TAITRA)
plas@taitra.org.tw www.taiwantradeshow.com.tw
www.taitra.org.tw



TAIWAN ASSOCIATION OF MACHINERY INDUSTRY
tami@tami.org.tw www.tami.org.tw

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Taiwan Plastics Industry Association
Taiwan Synthetic Resins Manufacturers Association
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Welcome to Taipei PLAS & ShoeTech Taipei 2018



Mr. James C. F. Huang
Chairman of TAITRA
(Taiwan External Trade
Development Council)

On behalf of Taiwan External Trade Development Council (TAITRA), I sincerely welcome all of you to visit 2018 Taipei PLAS and ShoeTech Taipei. ShoeTech Taipei is held for the first time, while the Taipei PLAS has recorded its 16th edition. I would like to express my gratitude towards your continued support.

Plastic and rubber can be seen in all aspects of our daily lives, from the sportswear made from

PET bottles and to the shoes worn by professional athletes. Taiwan's plastics and rubber industry has a complete industrial cluster and supply chain. Last year, the output value of plastic and rubber machinery exceeded USD1.4 billion, and its export value exceeded USD1.1 billion (up 12.8% from the previous year), making Taiwan the 6th largest producer and exporter in the world.

It is also obvious that the plastics and rubber industry and the footwear industry have an upstream-and-downstream relationship. Thus, the joint exhibition of Taipei PLAS and ShoeTech Taipei this year not only demonstrates the vertical expansion of exhibition contents, but also promotes cross-industry exchanges.

There are 533 manufacturers participating in this joint exhibition this year and using a total of 2,738 booths, among which 419 are used by foreign makers, accounting for a 6.08% increase from the previous edition. This indicates that this exhibition has gradually become internationalized and become the top 3 plastics and rubber professional trade show in Asia. Taiwan's plastics and rubber industry continues to develop products to meet market trends. For example, (1) intelligent machines and production lines combining robotic arms, data analysis, cloud computing, and IoT to meet the concept of Industry 4.0; (2) recycling and plastic pelletizing equipment that fulfills the increasing demand for environmental protection; (3) lightweight, high-strength, high-stability materials that meet various manufacturing needs. All these innovative products are visible here at the two shows.

On the other hand, ShoeTech Taipei provides a one-stop procurement platform to display a series of shoes-making machinery and related products. In response to the fast-changing and highly customized market trends in the footwear industry, the exhibitors will showcase the latest automated and intelligent machines that help shoe factories to shorten work processes, reduce manpower, increase flexibility and production efficiency. In sum, it is hoped to help shoe factories to upgrade to smart manufacturing.

Moreover, we will host the first-ever Taipei PLAS Summit. We have invited experts from Austria-based Engel and Wittmann Battenfeld, and Germany-based Arburg with domestic high-level executives from Fu Chun Shin, Diing Kuen, Hiwin and Fong Kee to discuss topics such as Industry 4.0 and smart manufacturing.

TAITRA has actively promoted and invited buyers from nearly 80 countries, such as the United States, Mexico, Russia, Turkey, Egypt, Kenya, Japan, India, the Philippines, Malaysia, Thailand, Vietnam, Indonesia, etc. to visit Taipei PLAS and ShoeTech Taipei this year.

In the face of volatile global economic and trade situations and fierce competition, TAITRA will continue to construct the best trading platforms, with the support of the government and the cooperation of the industry, to promote Taiwan's quality products and open up a new prospect for the plastics and rubber industry and the footwear industry. Last but not least, I would like to thank your support for these two shows. Wish you all good health, prosperity and happiness!



Mr. Ko Pa-Hsi
Chairman of TAMI
(Taiwan Association of
Machinery Industry)

Taipei PLAS (Taipei International Plastics & Rubber Industry show) and ShoeTech Taipei (Taipei International Shoe Making Technology Show) begin co-jointly today from August 15 to 19.

Taipei PLAS has been an international procurement platform among Asia plastics industry. In 2017, the world economy recovered and boosted Taiwan plastic and rubber machinery export to a total of USD 1.16 billion dollars and a 12.8% growth.

The top 3 buying countries were from China, Vietnam, and India. From January to May in 2018, the export growth continued with a total amount reached USD 0.49 billion dollars and a 4.2% growth, and the major machinery being exported were injection molding, extrusion, blow molding, vacuum forming, and other related auxiliary components. These outstanding numbers are the self-evident proofs of Taiwan's continuing innovations being highly recognized by the worldwide markets. Taiwan is now only behind Germany, Japan, Italy, China, USA, and ranked as the 6th biggest exporter for plastic and rubber machinery. For shoemaking and textile machinery, Taiwan together exported a total of USD 0.46 billion dollars with a 1.4% growth in 2017. The top 3 buying countries were from Vietnam, China, and Japan. From January to May in 2018, it maintained the growth from 2017 with a total amount reached USD 0.19 billion dollars. Over the years Taiwan shoemaking industry have devoted great amount of resources on researching, resulting Taiwan now only behind Italy, China, and ranked as the 3rd top exporter worldwide for shoemaking machinery.

In total, 533 exhibitors have fully booked the two levels of Taipei Nangang Exhibition Center, Hall 1 and occupied 48,000 square meters to showcase 2,738 booths. The two shows are featured with 10 exhibition areas, including the "Plastic and Rubber Processing Machinery" area, "Auxiliary Equipment" area, "Mold, Dies & Tooling Components" area, "Raw Materials, Semi-finished & Finished Product" area, "Intelligent Automation, Robotics & 3D printing" area, "International business" area, "Cross-Strait Plastic & Rubber" area, "Media" area, "International Association" area, and the new "Shoemaking Machinery Show (ShoeTech Taipei)" area. The shows aim to demonstrate Taiwan industry's competing advantage with presenting our smart production knowledge, energy saving technology, leading innovation, and highly rated value of Taiwan-made machinery.

This year, the show is set to be themed around "Reducing Carbon Footprints & Providing Green Products", "Smart Manufacturing & Machine Systems" and "Aesthetic Design & Upgrading towards Industry 4.0 to Enhance Product value". To encourage Taiwan innovation, the shows also carry on the great tradition and present the 11th "Excellence in Research and Innovation" awards. Many new smart machines have been enlisted in the contest, and 22 of them are in the final round of selection. The final winners will be announced at the award ceremony on 8/16 and industry members are all welcome to participate.

Facing the recent worldwide trend on industry 4.0, Taiwan manufacturers are urged to produce smarter, better automated, and offer more customized solutions. Furthermore, collaboration between government, research institutes, and the industry are established to support Taiwan machinery industries into fully industry 4.0 manufactures and train new industry engineers for smart controller software, human-machine interface, smart robots, and sensor applications.

Taipei PLAS and ShoeTech Taipei 2018 have both been important procurement platforms to the industry. In the past 50 years, Taiwan has gained more influences and contributed increasingly to plastic, rubber, and shoemaking machinery industry in worldwide. Again, we hope the shows this year will be beneficial to all participants and may all of you at Taipei PLAS and ShoeTech Taipei 2018 have great harvest!

Taipei PLAS 2018 Event / Seminar Program

* Subject to change without notice.

| 8/15 (Wed.) | Time | Event/Seminar | Organizer(s) | Venue | Remarks |
|----------------|---------------------|---|--------------------------|---|--|
| | 10:30 | Opening Ceremony | TAITRA TAMI | Area M Lobby, 4F, Taipei Nangang Exhibition Center, Hall 1 | By Invitation Only Miranda Chien +886-2-27255200 #2867 |
| | 13:00 17:00 | Pola Forum | Polaris Creative Corp | Room 402a, Taipei Nangang Exhibition Center, Hall 1 | Emily Chen +886-4-24517070 #268 |
| | 14:00 17:00 | 2018 Taipei PLAS Procurement Meetings | TAITRA | Room 504, T aipei Nangang Exhibition Center, Hall 1 | Tina Ko +886-2-27255200 #1573 |
| | 14:30 15:30 | The Press Conference of Taipei PLAS 2018 | TAITRA TAMI | Room 403, Taipei Nangang Exhibition Center, Hall 1 | Savannah Hou +886-2-23494677 |
| | | | | | |

Excellence in Research & Innovation awards 2018 Nominees guide

A. PLASTIC INJECTION MOLDING MACHINE



A01
LAVIANN TECHNOLOGY CO., LTD.
120 Tons High Injection Speed All Electric Injection Molding Machine-LV120H



A02
LAVIANN TECHNOLOGY CO., LTD.
450 Tons Large All Electric Injection Molding Machine-LV450T



A03
FU CHUN SHIN MACHINERY MANUFACTURE CO., LTD.
Injection molding machine industry 4.0 - Adaptive control technology for viscosity Variation inhibition of melt



A04
CHUAN LIH FA MACHINERY WORKS CO., LTD.
CLF-60TX Smart Injection Molding Machine



A05
EDEX TECHNOLOGY CO., LTD.
AEEZ600-ES150 All-electric Injection Molding Machine



A06
CHEN HSONG MACHINERY CO., LTD.
SM150LSR Liquid Silicone Injection Molding Machine



A07
KING STEEL MACHINERY CO., LTD.
KS 9902ME4 Dual Color Preform EVA Injection Moulding Machine

B. PLASTIC EXTRUSION MACHINE



B01
CYKF CO., LTD.
CK-32HT Multi-function Twin Screw Material Testing Laboratory Extruder

C. PLASTIC BLOW MOLDING MACHINE



C01
KEENPRO INDUSTRY CORP.
EM08S3 Intelligent High-Speed Stretch Blow Molding Machine



C02
CHUMPOWER MACHINERY CORP.
CPSB-LSS8 All electric high-speed linear stretch blow moulding machine



C03
FONG KEE INTERNATIONAL MACHINERY CO., LTD.
FK / EHB 75GT20SS Single Head Single station full electrical blow moulding machine

D. RUBBER MACHINE



D01
TUNG YU HYDRAULIC MACHINERY CO., LTD.
TIP-1000-2RT-L-250-PCD iTungYu-efficient injection molding machine with UCRB

E. CIRCULAR SYSTEM OR RECYCLING EQUIPMENT



E01
GENIUS MACHINERY CO., LTD.
KRIEGER 85_Cutter Compactor Plastic Recycling Machine



E02
POLYSTAR MACHINERY CO., LTD.
Repro-Air 120 Intelligent Air-Cooled Recycling Machine

F. AUTOMATIC INTELLIGENCE PLASTIC & RUBBER MOLDING MACHINE, AUXILIARY EQUIPMENT AND SYSTEM



F01
CHUMPOWER MACHINERY CORP.
BottleViewer e-Manufacturing Real-time Execution System



F02
MULTIPLAS ENGINERY CO., LTD.
Industrialization of Smart Machinery & IM4.0 Smart Assistant



F03
HUARONG PLASTIC MACHINERY CO., LTD.
Intelligent management and triple injection component molding system



F06
SUN LUNG GEAR WORKS CO., LTD.
Smart Gearbox - Automatic diagnosis and warning system



F07
FU CHUN SHIN MACHINERY MANUFACTURE CO., LTD.
Injection Molding Machine Industry 4.0 Solution - intelligent ManuFactory 4.0 (iMF 4.0)

G. OTHER PLASTIC & RUBBER MACHINE



G01
CHUAN TAI HYDRAULIC MACHINERY CO., LTD.
SR2-24 Tank-outside double-port magnetic flange filter



G02
KINGTEC TECHNICAL CO., LTD.
K-3030 KING 3D Printer



G03
YANN BANG ELECTRICAL MACHINERY CO., LTD.
DHM-SL-06 Micro Multi-Function Dehumidifying Dryer

2017 Top Exporting Countries for Global Plastics Machinery Report

By C.C. Wang, President of TAMI

World Rankings for Plastics Machinery Exporting Country

| Rank | Country | 2013 | 2014 | 2015 | 2016 | | 2017 | | 2017/2016 |
|------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
| | | amount | amount | amount | amount | % | amount | % | |
| | Total | 16,875 | 17,126 | 15,741 | 15,909 | 100.0% | 17,779 | 100.0% | 11.8% |
| 1 | Germany | 6,212 | 6,164 | 5,236 | 5,479 | 34.3% | 6,003 | 33.8% | 9.6% |
| 2 | China | 3,074 | 3,307 | 3,517 | 3,514 | 22.1% | 4,050 | 22.8% | 15.3% |
| 3 | Japan | 2,482 | 2,325 | 2,116 | 2,139 | 13.5% | 2,563 | 14.4% | 19.9% |
| 4 | Italy | 2,271 | 2,327 | 2,140 | 2,119 | 13.4% | 2,383 | 13.4% | 12.5% |
| 5 | USA | 1,571 | 1,746 | 1,610 | 1,626 | 10.2% | 1,617 | 9.1% | -0.5% |
| 6 | Taiwan | 1,265 | 1,257 | 1,122 | 1,032 | 6.5% | 1,163 | 6.5% | 12.8% |

The top countries worldwide for plastics machinery manufacturing in sequence are Germany, China, Japan, Italy, USA, Taiwan, and Korea. Germany ranks as the largest plastics machinery producer and exporter, while China is the biggest importing and purchasing country. Japan, Italy, USA, Taiwan, and Korea are also important countries for supplying plastic machinery to worldwide markets.

2017 Plastics Machinery Export Status

GERMANY

Unit: USD 1,000

| Rank | Country Destination | 2016 | 2017 | | 2017~2016 Change (%) |
|------|---------------------|------------------|------------------|---------------|----------------------|
| | | | Value | % | |
| | Total | 5,479,762 | 6,003,400 | 100.0% | 9.6% |
| 1 | United States | 850,917 | 959,762 | 16.0% | 12.8% |
| 2 | China | 689,992 | 815,512 | 13.6% | 18.2% |
| 3 | Mexico | 285,005 | 302,978 | 5.0% | 6.3% |
| 4 | Italy | 208,818 | 276,252 | 4.6% | 32.3% |
| 5 | Poland | 235,815 | 262,598 | 4.4% | 11.4% |
| 6 | France | 217,381 | 213,739 | 3.6% | -1.7% |
| 7 | India | 197,512 | 196,000 | 3.3% | -0.8% |
| 8 | Czech Republic | 180,067 | 184,362 | 3.1% | 2.4% |
| 9 | United Kingdom | 156,813 | 162,717 | 2.7% | 3.8% |
| 10 | Spain | 151,505 | 154,654 | 2.6% | 2.1% |

Data Source : German Custom Report

CHINA

Unit: USD 1,000

| Rank | Country Destination | 2016 | 2017 | | 2017~2016 Change (%) |
|------|---------------------|------------------|------------------|---------------|----------------------|
| | | | Value | % | |
| | Total | 3,513,522 | 4,050,685 | 100.0% | 15.3% |
| 1 | United States | 264,891 | 419,717 | 10.4% | 58.4% |
| 2 | Vietnam | 301,468 | 375,534 | 9.3% | 24.6% |
| 3 | India | 255,119 | 252,874 | 6.2% | -0.9% |
| 4 | Thailand | 233,127 | 246,931 | 6.1% | 5.9% |
| 5 | Japan | 162,374 | 180,037 | 4.4% | 10.9% |
| 6 | Indonesia | 186,576 | 154,349 | 3.8% | -17.3% |
| 7 | Mexico | 116,999 | 151,963 | 3.8% | 29.9% |
| 8 | Turkey | 124,765 | 143,809 | 3.6% | 15.3% |
| 9 | Malaysia | 84,953 | 126,721 | 3.1% | 49.2% |
| 10 | South Korea | 117,805 | 123,156 | 3.0% | 4.5% |

Data Source : China Custom Report

JAPAN

Unit: USD 1,000

| Rank | Country Destination | 2016 | 2017 | | 2017~2016 Change (%) |
|------|---------------------|------------------|------------------|---------------|----------------------|
| | | | Value | % | |
| | Total | 2,138,536 | 2,563,390 | 100.0% | 19.9% |
| 1 | China | 608,299 | 902,455 | 35.2% | 48.4% |
| 2 | United States | 389,758 | 337,217 | 13.2% | -13.5% |
| 3 | South Korea | 147,000 | 215,805 | 8.4% | 46.8% |
| 4 | Thailand | 129,130 | 141,595 | 5.5% | 9.7% |
| 5 | Taiwan | 63,584 | 107,216 | 4.2% | 68.6% |
| 6 | Vietnam | 80,981 | 101,327 | 4.0% | 25.1% |
| 7 | Mexico | 79,009 | 84,210 | 3.3% | 6.6% |
| 8 | India | 63,854 | 74,296 | 2.9% | 16.4% |
| 9 | Indonesia | 80,554 | 68,393 | 2.7% | -15.1% |
| 10 | Malaysia | 52,283 | 67,657 | 2.6% | 29.4% |

Data Source : Japan Custom Report

ITALY

Unit: USD 1,000

| Rank | Country Destination | 2016 | 2017 | | 2017~2016 Change (%) |
|------|---------------------|------------------|------------------|---------------|----------------------|
| | | | Value | % | |
| | Total | 2,119,059 | 2,383,645 | 100.0% | 12.5% |
| 1 | United States | 184,307 | 222,056 | 9.3% | 20.5% |
| 2 | Germany | 155,629 | 185,029 | 7.8% | 18.9% |
| 3 | France | 96,198 | 125,691 | 5.3% | 30.7% |
| 4 | Spain | 106,704 | 121,603 | 5.1% | 14.0% |
| 5 | China | 115,266 | 120,921 | 5.1% | 4.9% |
| 6 | Mexico | 141,376 | 120,382 | 5.1% | -14.8% |
| 7 | Poland | 90,603 | 107,045 | 4.5% | 18.1% |
| 8 | United Kingdom | 82,575 | 94,155 | 4.0% | 14.0% |
| 9 | Romania | 46,256 | 76,332 | 3.2% | 65.0% |
| 10 | Turkey | 78,629 | 73,713 | 3.1% | -6.3% |

Data Source : Italy Custom Report

USA

Unit: USD 1,000

| Rank | Country Destination | 2016 | 2017 | | 2017~2016 Change (%) |
|------|---------------------|------------------|------------------|---------------|----------------------|
| | | | Value | % | |
| | Total | 1,625,906 | 1,617,607 | 100.0% | -0.5% |
| 1 | Mexico | 400,671 | 402,611 | 24.9% | 0.5% |
| 2 | Canada | 307,494 | 291,959 | 18.0% | -5.1% |
| 3 | Germany | 164,190 | 167,723 | 10.4% | 2.2% |
| 4 | China | 89,960 | 140,538 | 8.7% | 56.2% |
| 5 | United Kingdom | 37,908 | 40,403 | 2.5% | 6.6% |
| 6 | India | 32,834 | 40,364 | 2.5% | 22.9% |
| 7 | Japan | 30,854 | 36,553 | 2.3% | 18.5% |
| 8 | Hong Kong | 24,051 | 31,335 | 1.9% | 30.3% |
| 9 | Thailand | 20,836 | 28,090 | 1.7% | 34.8% |
| 10 | Brazil | 23,388 | 26,292 | 1.6% | 12.4% |

Data Source : USA Custom Report

TAIWAN

Unit: USD 1,000

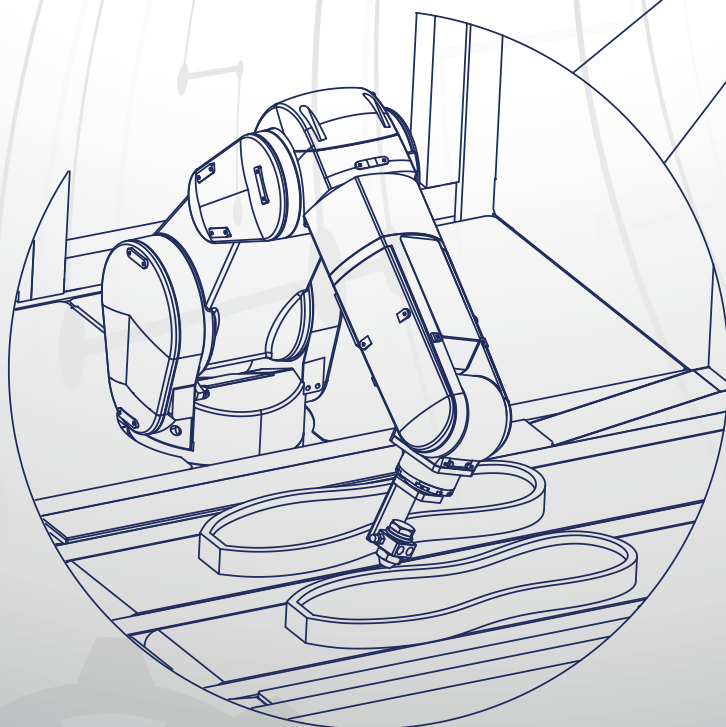
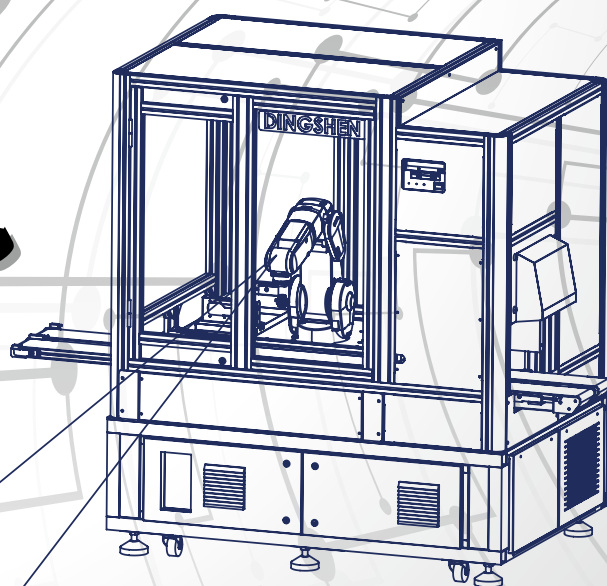
| Rank | Country Destination | 2016 | 2017 | | 2017~2016 Change (%) |
|------|---------------------|------------------|------------------|---------------|----------------------|
| | | | Value | % | |
| | Total | 1,032,302 | 1,163,938 | 100.0% | 12.8% |
| 1 | China | 195,034 | 247,618 | 21.3% | 27.0% |
| 2 | Vietnam | 136,337 | 139,504 | 12.0% | 2.3% |
| 3 | India | 63,648 | 91,699 | 7.9% | 44.1% |
| 4 | Indonesia | 70,944 | 89,253 | 7.7% | 25.8% |
| 5 | Thailand | 63,898 | 76,920 | 6.6% | 20.4% |
| 6 | Japan | 48,056 | 56,873 | 4.9% | 18.3% |
| 7 | USA | 56,724 | 54,986 | 4.7% | -3.1% |
| 8 | Malaysia | 28,702 | 34,281 | 2.9% | 19.4% |
| 9 | Mexico | 24,220 | 28,428 | 2.4% | 17.4% |
| 10 | Turkey | 25,243 | 21,679 | 1.9% | -14.1% |

Data Source : Taiwan Custom Report

鼎新



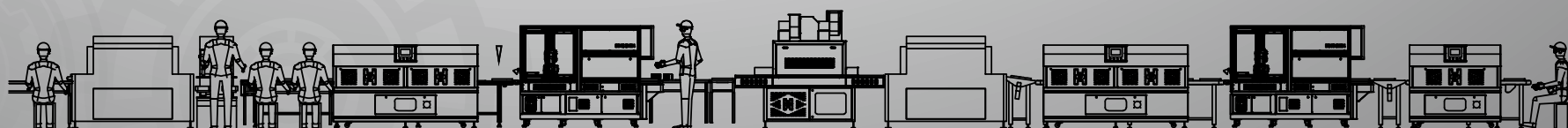
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Plastics Waste As Currency:

“Plastic Bank”

Make Use of Unwanted Ocean Plastics

*From 2018 No.16th Issue Newsletter
by Recycling Fund Management Board of Environmental Protection Administration*

A report on ocean trash shared by the International Solid Waste Association in 2017 reveals that, the plastics particles and fibers produced by the petrochemical industry worldwide was around 380 million tons in 2015, where 275 million tons of which became trash. From 2010 to 2015, 6 to 15 million tons of plastic trash had gone into rivers and oceans.

Two entrepreneurs from Vancouver Canada, David Katz and Shaun Frankson started a social enterprise called the “Plastic Bank”. Their business plan is to combine the recycling system with the Blockchain technology. This combined system, also known as the Social Plastic system, has delivered a whole new currency.

With this Social Plastic system, local residents are able to change their recycled plastics into digital money. The digital money from Social Plastic can be exchanged for real money or used for purchasing other goods like coal, gas, electricity, soap, or teaching accessories for schools. The recycled

plastics then become Social Plastic currency, which the Plastic Bank can then sell to large enterprises as socially responsible action for helping to solve the ocean trash problem. The Social Plastic system has been recognized by global society since it was first launched in 2015. In 2016, the project was first carried out in the Philippines as a cross state program. Next, it will expand to Brazil, Indonesia, South Africa, Panama, and India.

The Social Plastic system may sound similar to conventional recycling methods, but the Blockchain has differentiated it as a financial data managing system. In 2017, the Plastic Bank, together with IBM, launched the “hyperledger” mobile application using Blockchain technology. This allows application users to easily manage their Social Plastic money online and trace the source of their purchased products. As a result, consumers are better able to make a more environmentally friendly purchase. But for economically poor countries, people need to find sufficient food and daily necessities to get through their everyday life.

If these local people understand that plastic waste can become money, it will provide an incentive to reduce the volume of plastic being dumped in rivers and oceans.

The Social Plastic system is a mind changing solution for our society with mutual benefits to both poor and rich countries. On the one hand, the system will enable economically vulnerable countries to exchange plastic for a better life. On the other hand, the Plastic Bank has changed the very idea of a traditional purchase and has encouraged more large enterprises and economically wealthy people to participate in this socially responsible action.

Another almost identical breakthrough lies with the use of Blockchain. This allows money exchange with no boundary limit in different financial systems from different countries. The Social Plastic system has provided a more fluent and flexible process to empower the responsible use of plastics and assign it much more social value.

PRODUCT

New Generation Molding System : FA-160

The FA series is a new generation standard servo energy-saving model. Not only are the specifications upgraded, but its design has also been optimized. The machine will come with the electronic control system KEBA for enhanced integration. This has been combined with our IMF 4.0 solution to develop intelligent injection molding machines that will extract data and values about the molding parameters, quality control, auxiliary equipment and will reuse them afterwards so that the needs of high-end customers will be satisfied.

☑Including increases in tie-bar distance, injection velocity, and higher system pressure to match high injection volume requirements.

☑Strength of the platen design has been reinforced by 30% more uniform clamping force distribution, lower machine platen deformation, and smoother mold closing-opening operational control.

☑Machine operates accurately with injection closed-loop operational control without installing additional sensors or equipment.



DS-138 Automatic Recognition Spraying System

In order to respond to automation in the footwear production line of shoe factories, DING-SHEN MACHINE has developed an automatic recognition spraying system, which can be used with related machines to become a complete automated shoe production line. We are hoping to help shoe factories achieve their goal of becoming an automated, unmanned plant.

DS-138 automatic recognition spraying system is the newest machine from DING-SHEN MACHINE in 2018. DS-138 is focused on the cementing process for shoes outsole automatic spray. Our software calculates the robot path intuitively and automatically. It can recognize the spray area with optimization path and it also is adjustable on the tilt angle of the outsole sidewall. The system can reduce the time and difficulty involved in operator modeling. The system is the best solution for outsole cementing.





Injection Molding Solutions



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Delivers New Gear

Being the supplier for over 70% of the plastic machinery gearboxes in Taiwan and with a sales network covering more than 30 countries, Sun Lung has always been an innovative manufacturer. Sun Lung has accumulated 58 years of gear manufacturing experience and built a well-established product series together with providing complete after sales service. Every gear produced by Sun Lung is made for high precision, high-energy savings, and top performance. These high quality gearboxes and services have earned Sun Lung industry trust and increased sales over the years. Sun Lung is now a supplier to many internationally renowned machinery brands.

To match its increased sales, Sun Lung has expanded its manufacturing facility to nearly 60,000 square meters. In 2016, Sun Lung invested over 200 million NT Dollars in building a new smart factory and purchasing new smart gear-making machines from Germany. The advanced manufacturing knowledge and increased productivity has allowed Sun Lung to produce innovative gears for smart manufacturing. In the past, Sun Lung has received numerous awards and has been certified from domestic and overseas markets.

The purpose of innovation is not just about profit but should also be focused on satisfying client demand. More innovation also means lowered production costs and helping clients to become more competitive in the market. In the past, Sun Lung has achieved several good cases. Their smart gearbox cloud monitoring function delivers defect pre-alerts; the green gearbox helps clear out sludge inside the box and operates for a longer service life; the new energy-saving

gearbox simplifies the traditional complex structure and achieves cooling results to save costs; the high torque double cone gearbox provides high efficiency and stable quality production. Also, Sun Lung maintains expertise in high precision gear design and machining services.

Inside Sun Lung, the company now operates under a modularized managing system and aims for developing fully automated management and smart manufacturing systems. Sun Lung also incorporates several smart management systems like Enterprise Resource Planning (ERP), Business Intelligence (BI), Shop Floor Tracking (SFT), and Human Resource (HR). These new systems are expected to further upgrade Sun Lung's productivity and match with customized production requests. All these new developments will enable Sun Lung to still be a winner in the future industrial revolution and green enterprise.



ALL-ELECTRIC BLOW MOULDING MACHINE

單頭單模全電式中空成型機

Full range from 200 ml bottle - 30 liter canister



EHB Series

ADVANTAGE / EFFICIENCY

Compared to Hydraulic System Machine:



40-50%
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Saving



20-25%
Production Rate
Increase



25-30%
Dry Cycle
Faster



20db
Noise Level
Reduce



0%
Pollution



INDUSTRY 4.0

The "Smart" Manufacturing

Apart from the PLC and HMI control system being used, SCADA system is available to link thru internet as to collect all the data and be monitoring from distance, such as office computer, personal PC or Mobil for machine:

- Performance data
- Production status
- Productivity status
- Material consumption, input and output
- Energy consumption
- Running parameters
- Alarm management

With long term production, all data can be collected for further analysis to improve the efficiency, cut down the cost and bring more profit.

EXTRUSION ISO 9001:2008 

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鳳記國際機械股份有限公司

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三合一塑膠廢料回收機

THREE IN ONE PLASTIC RECYCLING MACHINE

- 適合原料 : PE, PP, ABS, PS, PLA, EPS, EPP
APPLICABLE MATERIAL: PE, PP, ABS, PS, PLA, EPS, EPP
- 模頭切 DIE-FACE PELLETIZER
- 產量 : 100KGS/HR. - 1,200KGS/HR.
CAPACITY: 100KGS/HR. - 1,200KGS/HR.



ABA PE共擠壓吹膜機

ABA PE CO-EXTRUSION BLOWN FILM LINE

- 中間層使用70%碳酸鈣降低製膜成本
DRIVE MATERIAL COSTS DOWN DUE TO 70% OF CaCO₃ IN THE MIDDLE
- 產品 : 平口袋, 印刷袋, 壓花袋, 垃圾袋, 包裝袋
PRODUCTS: FLAT BAG, PRINTED BAG, EMBOSSED BAG, GARBAGE BAG AND GENERAL PACKAGING BAG

兩段式塑膠廢料回收機

TWO STAGE PLASTIC RECYCLING MACHINE

- 適合原料 : 表面大量印刷膜, 清洗膜, 髒料
APPLICABLE MATERIAL: HEAVY PRINTED FILM, WASHED FILM AND CONTAMINATED MATERIALS
- 模頭切 DIE-FACE PELLETIZER
- 產量 : 100KGS/HR. - 1,000KGS/HR.
CAPACITY: 100KGS/HR. - 1,000KGS/HR.



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一億機器廠股份有限公司 YEI MACHINERY FACTORY CO., LTD.

台南市永康區民東路6號 No. 6, Mindong Road, Yeong Kang Dist., Tainan City, Taiwan

Tel: +886-6-253-6066~9 Fax: +886-6-254-3717 E-mail: service@yei.com.tw





推薦！來臺北必做的6件事

Six things to do in Taipei

1



遊大稻埕舊城區 Visit Dadaocheng Old Town District

18世紀末的大稻埕，因淡水港的開放後開始大放異彩，讓大稻埕成為商貿繁榮、人文薈萃之地。想體會臺北傳統生活，來臺北絕對不能錯過大稻埕！

In late 1880s, Dadaocheng started to prosper in light of the opening of Tamsui Harbor. You can also roam in the alleys where various select shops with distinctive features await your visit, or enjoy a cup of coffee and a moment of serenity in the elegant street house. In short, Dadaocheng is definitely the place to visit if you want to experience the traditional lifestyle of Taipei!

2

走進文青小巷弄 Go into hipster alleys

華山、松山文創園區，以及懷舊的四四南村，喜歡購物逛街的話，推薦中山商圈光點臺北和民生社區富錦街的周邊巷弄，個性小店、文具墨水、獨立書店等，每到假日更有許多文創市集在各地區舉辦。

Other than the renowned National Palace Museum and art museums, some indispensable hipster spots include Huashan 1914 Creative Park, Songshan Cultural and Creative Park and the retrospective Four-Four South Village. Additionally, cultural and creative markets take place during weekends and holidays.



3



小館品咖啡 Explore small cafés

想知道全世界最棒的咖啡城市在哪裡？沒錯，就是臺北。英國 BBC 從旅遊報導中評選出全球最棒的 6 大咖啡城市，臺北正因為擁有多元特色且創意十足的咖啡館而名列其中。

If you are wondering where the best coffee city in the world is, the answer is Taipei. BBC has reviewed the world's top six major coffee cities in the world and Taipei is among the list, featuring diverse and creative cafés.



4

廟宇巡禮，心誠則靈 Visit temples with a pious heart and your wish will come true

萬華區信仰中心龍山寺素有「臺北第一名剎」之稱；行天宮主祀財神關聖帝君，在工商業大本營的臺北極受景仰；關渡宮是臺灣三大媽祖宮之一，是臺灣北部最古老、人氣最旺的聖母祖廟。

The religious center in the Wanhua District houses Longshan Temple is also referred to as 'the most well known temple in Taipei'. The main deity of the Longshan Temple is the Holy Ruler Deity Guan, the god of wealth, who is extremely respected and worshiped in the heavily industrialized and commercialized Taipei. Guandu Temple is among the three major Mazu temples in Taiwan. It is also the most ancient and most visited temple dedicated to the Holy Mother Goddess.



5



溫泉泡湯趣 Have fun bathing in hot springs

北投溫泉從日據時代便有盛名，深受喜愛泡湯的日人自然不會錯過，龍乃湯、星乃湯、鐵乃湯就是日本人依照溫泉的特性與療效給予的名稱，據說對皮膚病、神經過敏、氣喘、風濕等具有很好的療效，也因此成為了北部最著名的泡湯景點之一。

'Hot spring', a precious gift to humans on earth, has been regarded as a natural resource that is healthy and therapeutic. The hot springs are said to be able to ease skin disease, neurological disorders, asthma and rheumatic disorders. Hence, the Beitou hot spring is one of the most well known hot springs in Northern Taiwan.

6

雙層觀光巴士，樂遊臺北 Hop on a double-decker sightseeing bus and tour around Taipei

觀光巴士精心規劃了紅、藍雙線的行程，讓遊客不僅可搭乘雙層觀光巴士樂遊臺北故宮、101 等知名景點，還能夠聽著車上導遊為您講解精彩的臺北故事，一覽臺北的風光美景與人文歷史。

Two lines, the red line and the blue line are elaborately designed to ensure visitors to Taipei have a good time. Visitors can enjoy the beautiful scenery, and rich culture and history of Taipei as they tour renowned attractions like the National Palace Museum and Taipei 101 on the double-decker sightseeing bus along with the passionate story-telling of the bus tour guide.



塑膠變貨幣： 『塑膠銀行』 為海漂垃圾找條國際出路

文、圖：環保署資源回收管理基金管理會提供 .2018 年 16 期電子報

根據國際固體廢棄物組織（International Solid Waste Association）2017 年針對海洋廢棄物的調查報告，2015 年全球石化產業生產大約三億八千萬噸的塑膠顆粒和纖維，其中 2 億 7 千 5 百萬噸成為垃圾，然而在 2010 至 2015 年間，約有 6 百萬到 1 千 5 百萬噸的塑膠垃圾，從河川和岸邊漂進大海中。

來自加拿大溫哥華的 David Katz 和 Shaun Frankson 成立的社會企業「塑膠銀行」（Plastic Bank），結合 21 世紀最具顛覆性發明的「區塊鏈」（Blockchain）及回收拾荒系統，推行「社會塑膠」（Social Plastic®）貨幣。

透過社會塑膠貨幣系統，當地民眾可以將撿拾的塑膠回收物換成數位代幣，代幣可以換取現金，或者用來購買所需物資，包含煤炭或瓦斯等煮食燃料、電力、肥皂，或者是學校教學道具

等。另一方面，塑膠銀行向跨國企業兜售社會塑膠與社會塑膠貨幣，對於這些知名的企業公司，購買的產品不僅僅只是由塑膠銀行收集分類後的回收塑料，更是解決海洋廢棄物的解決之道。塑膠銀行自 2015 年在海地推行社會塑膠系統開始，榮獲國際大獎不斷，2016 年於菲律賓執行第一個跨州計畫，預計將其體系陸續擴展到巴西、印尼、南非、巴拿馬、印度等國家。

乍聽之下，塑膠銀行的系統和傳統回收系統幾乎雷同。其獨特之處，是運用區塊鏈作為貨幣財務與資訊存取的管理系統。2017 年塑膠銀行和 IBM 合作，推出了超級帳本（hyperledger）app，方便民眾將代幣直接存入個人的電子錢包，進行帳戶財務管理。對消費者而言，可以透過區塊鏈系統追蹤產品的來源和情況，進而做出對環境更友善的選擇。眾多的貧窮國家中，

抽象的環境議題遠不及溫飽和生存問題。如果在他們眼中塑膠是錢，那麼塑膠垃圾，就能脫離隨意棄置、倒進水裡的命運。

換個說法，塑膠銀行公司所推出的「社會塑膠代幣」區塊鏈系統，是一套一體兩面的「價值轉換體系」，一邊面對貧困的發展中國家時，塑膠銀行系統把環境價值轉化成經濟價格，使原本不符合回收成本的塑膠垃圾，變成了可以直接換取生活物資的替代貨幣；另一方面，面對已開發的富有國家民眾和企業而言，塑膠銀行在原本純屬經濟生產與消費行為上，增加了社會與環境價值，原本只是買東西和產品的區分時，而被賦予道德與環境論述之後，東西產品成了解決方案。同時，透過區塊鏈的金融管理技術，這些價值轉換更加順暢，不受地區區域既有的金融體系所困擾。

創新三隆 引領價值

秉持對產品高標準、不斷研發創新以及完善售後服務的堅持與用心，三隆塑膠機械齒輪箱在臺灣已經擁有超過 7 成的市場占有率，並行銷世界 30 多國。58 年精密齒輪的加工經驗，令三隆擁有豐富的產品系列，高精密、高節能、高效能的產品與快速的交貨期，也為公司帶來業務持續穩健成長，多年的努力三隆已成為許多國際知名公司的主要供應商。

位於臺南市科技工業區的三隆齒輪，佔地面積 1 萬 8 千餘坪，近年來三隆為配合業績大幅成長，因此於 2016 年投資擴建國際級新廠房，並且又增購許多智慧型齒輪製造設備；擁有世界最先進的德國加工機械已經為三隆落實品質及超越預期的績效目標，這些設備都高達超過 2 億元新臺幣。由於三隆齒輪的先進製程設備及掌握許多齒輪加工關鍵技術，加上對產品品質

與功能不斷創新研發，因此獲得多數獎項。

創新的目的不只是獲利，更是為了滿足客戶的需求，不斷的研發更好更先進的技術，來降低成本，使產品於競爭市場中居於領先的優勢，獨特的品牌價值也為企業創更多的契機。三隆這些年來不斷的努力對齒輪箱產品研發了許多成功的案例。如：1. 智慧型齒輪箱透過雲端，可預警告知齒輪箱即將故障的資訊，避免生產線突然停擺造成損失、2. 綠淨化齒輪箱可以輕易的去除箱底的汙泥並淨化油脂，延長齒輪箱壽命、3. 新式樣節能齒輪箱可簡化複雜的傳統冷卻方式，並達到降溫效果及節約成本、4. 超高扭力雙錐齒輪箱可為終端使用廠商帶來高效率的產能、高優質的產品、5. 各種高精密



齒輪設計及加工技術之承製業務。

另外，三隆並已全面建立模組管理系統，已將管理自動化、製造智慧化的趨勢列為目標，引進 ERP（企業資規劃）、BI（商業智慧）、SFT（廠區生產追蹤）、及 HR（人力資源）等智慧管理系統，透過完整電腦系統流程的改造，使生產更有效率，更能滿足客戶端客製化需求的速度，也確保快速的市場變化中，仍保有技術領導地位，讓三隆有機會成為下一波工業革命的贏家及邁向綠能企業的標竿典範。

2017年全球塑橡膠機械出口代表性國家報導

By 王正青 TAMI秘書長

全球塑橡膠機械出口代表國家統計分析表

| 排名 | 國家 | 2013金額 | 2014金額 | 2015金額 | 2016 | | 2017 | | 2017~2016 % |
|----|-----|--------|--------|--------|--------|--------|--------|--------|-------------|
| | | | | | 金額 | % | 金額 | % | |
| | 合計 | 16,875 | 17,126 | 15,741 | 15,909 | 100.0% | 17,779 | 100.0% | 11.8% |
| 1 | 德國 | 6,212 | 6,164 | 5,236 | 5,479 | 34.3% | 6,003 | 33.8% | 9.6% |
| 2 | 大陸 | 3,074 | 3,307 | 3,517 | 3,514 | 22.1% | 4,050 | 22.8% | 15.3% |
| 3 | 日本 | 2,482 | 2,325 | 2,116 | 2,139 | 13.5% | 2,563 | 14.4% | 19.9% |
| 4 | 義大利 | 2,271 | 2,327 | 2,140 | 2,119 | 13.4% | 2,383 | 13.4% | 12.5% |
| 5 | 美國 | 1,571 | 1,746 | 1,610 | 1,626 | 10.2% | 1,617 | 9.1% | -0.5% |
| 6 | 臺灣 | 1,265 | 1,257 | 1,122 | 1,032 | 6.5% | 1,163 | 6.5% | 12.8% |

全球塑橡膠機械生產與銷售最具代表性國家依序是德國、大陸、日本、義大利、美國、臺灣、韓國等國家。德國是塑橡膠機械最具代表生產與出口國家，大陸則是最大進口與消費國家，日本、義大利、美國、臺灣、韓國等則是全球塑橡膠機械重要出口基地等。

2017年塑橡膠機械出口統計分析表

| 德國 | 排名 | 出口國家 / 地區 | 2016年 | 2017 | | 2017~2016 Change (%) |
|----|----|-----------|-----------|-----------|--------|----------------------|
| | | | | 出口額 | % | |
| | | 合計 | 5,479,762 | 6,003,400 | 100.0% | 9.6% |
| | 1 | 美國 | 850,917 | 959,762 | 16.0% | 12.8% |
| | 2 | 中國大陸 | 689,992 | 815,512 | 13.6% | 18.2% |
| | 3 | 墨西哥 | 285,005 | 302,978 | 5.0% | 6.3% |
| | 4 | 義大利 | 208,818 | 276,252 | 4.6% | 32.3% |
| | 5 | 波蘭 | 235,815 | 262,598 | 4.4% | 11.4% |
| | 6 | 法國 | 217,381 | 213,739 | 3.6% | -1.7% |
| | 7 | 印度 | 197,512 | 196,000 | 3.3% | -0.8% |
| | 8 | 捷克 | 180,067 | 184,362 | 3.1% | 2.4% |
| | 9 | 英國 | 156,813 | 162,717 | 2.7% | 3.8% |
| | 10 | 西班牙 | 151,505 | 154,654 | 2.6% | 2.1% |

金額單位：US1,000

資料來源：德國海關進出口統計

| 大陸 | 排名 | 出口國家 / 地區 | 2016年 | 2017 | | 2017~2016 Change (%) |
|----|----|-----------|-----------|-----------|--------|----------------------|
| | | | | 出口額 | % | |
| | | 合計 | 3,513,522 | 4,050,685 | 100.0% | 15.3% |
| | 1 | 美國 | 264,891 | 419,717 | 10.4% | 58.4% |
| | 2 | 越南 | 301,468 | 375,534 | 9.3% | 24.6% |
| | 3 | 印度 | 255,119 | 252,874 | 6.2% | -0.9% |
| | 4 | 泰國 | 233,127 | 246,931 | 6.1% | 5.9% |
| | 5 | 日本 | 162,374 | 180,037 | 4.4% | 10.9% |
| | 6 | 印尼 | 186,576 | 154,349 | 3.8% | -17.3% |
| | 7 | 墨西哥 | 116,999 | 151,963 | 3.8% | 29.9% |
| | 8 | 土耳其 | 124,765 | 143,809 | 3.6% | 15.3% |
| | 9 | 馬來西亞 | 84,953 | 126,721 | 3.1% | 49.2% |
| | 10 | 韓國 | 117,805 | 123,156 | 3.0% | 4.5% |

金額單位：US1,000

資料來源：大陸海關進出口統計

| 日本 | 排名 | 出口國家 / 地區 | 2016年 | 2017 | | 2017~2016 Change (%) |
|----|----|-----------|-----------|-----------|--------|----------------------|
| | | | | 出口額 | % | |
| | | 合計 | 2,138,536 | 2,563,390 | 100.0% | 19.9% |
| | 1 | 中國大陸 | 608,299 | 902,455 | 35.2% | 48.4% |
| | 2 | 美國 | 389,758 | 337,217 | 13.2% | -13.5% |
| | 3 | 韓國 | 147,000 | 215,805 | 8.4% | 46.8% |
| | 4 | 泰國 | 129,130 | 141,595 | 5.5% | 9.7% |
| | 5 | 臺灣 | 63,584 | 107,216 | 4.2% | 68.6% |
| | 6 | 越南 | 80,981 | 101,327 | 4.0% | 25.1% |
| | 7 | 墨西哥 | 79,009 | 84,210 | 3.3% | 6.6% |
| | 8 | 印度 | 63,854 | 74,296 | 2.9% | 16.4% |
| | 9 | 印尼 | 80,554 | 68,393 | 2.7% | -15.1% |
| | 10 | 馬來西亞 | 52,283 | 67,657 | 2.6% | 29.4% |

金額單位：US1,000

資料來源：日本海關進出口統計

| 義大利 | 排名 | 出口國家 / 地區 | 2016年 | 2017 | | 2017~2016 Change (%) |
|-----|----|-----------|-----------|-----------|--------|----------------------|
| | | | | 出口額 | % | |
| | | 合計 | 2,119,059 | 2,383,645 | 100.0% | 12.5% |
| | 1 | 美國 | 184,307 | 222,056 | 9.3% | 20.5% |
| | 2 | 德國 | 155,629 | 185,029 | 7.8% | 18.9% |
| | 3 | 法國 | 96,198 | 125,691 | 5.3% | 30.7% |
| | 4 | 西班牙 | 106,704 | 121,603 | 5.1% | 14.0% |
| | 5 | 中國大陸 | 115,266 | 120,921 | 5.1% | 4.9% |
| | 6 | 墨西哥 | 141,376 | 120,382 | 5.1% | -14.8% |
| | 7 | 波蘭 | 90,603 | 107,045 | 4.5% | 18.1% |
| | 8 | 英國 | 82,575 | 94,155 | 4.0% | 14.0% |
| | 9 | 羅馬尼亞 | 46,256 | 76,332 | 3.2% | 65.0% |
| | 10 | 土耳其 | 78,629 | 73,713 | 3.1% | -6.3% |

金額單位：US1,000

資料來源：義大利海關進出口統計

| 美國 | 排名 | 出口國家 / 地區 | 2016年 | 2017 | | 2017~2016 Change (%) |
|----|----|-----------|-----------|-----------|--------|----------------------|
| | | | | 出口額 | % | |
| | | 合計 | 1,625,906 | 1,617,607 | 100.0% | -0.5% |
| | 1 | 墨西哥 | 400,671 | 402,611 | 24.9% | 0.5% |
| | 2 | 加拿大 | 307,494 | 291,959 | 18.0% | -5.1% |
| | 3 | 德國 | 164,190 | 167,723 | 10.4% | 2.2% |
| | 4 | 中國大陸 | 89,960 | 140,538 | 8.7% | 56.2% |
| | 5 | 英國 | 37,908 | 40,403 | 2.5% | 6.6% |
| | 6 | 印度 | 32,834 | 40,364 | 2.5% | 22.9% |
| | 7 | 日本 | 30,854 | 36,553 | 2.3% | 18.5% |
| | 8 | 香港 | 24,051 | 31,335 | 1.9% | 30.3% |
| | 9 | 泰國 | 20,836 | 28,090 | 1.7% | 34.8% |
| | 10 | 巴西 | 23,388 | 26,292 | 1.6% | 12.4% |

金額單位：US1,000

資料來源：美國海關進出口統計

| 臺灣 | 排名 | 出口國家 / 地區 | 2016年 | 2017 | | 2017~2016 Change (%) |
|----|----|-----------|-----------|-----------|--------|----------------------|
| | | | | 出口額 | % | |
| | | 合計 | 1,032,302 | 1,163,938 | 100.0% | 12.8% |
| | 1 | 大陸 | 195,034 | 247,618 | 21.3% | 27.0% |
| | 2 | 越南 | 136,337 | 139,504 | 12.0% | 2.3% |
| | 3 | 印度 | 63,648 | 91,699 | 7.9% | 44.1% |
| | 4 | 印尼 | 70,944 | 89,253 | 7.7% | 25.8% |
| | 5 | 泰國 | 63,898 | 76,920 | 6.6% | 20.4% |
| | 6 | 日本 | 48,056 | 56,873 | 4.9% | 18.3% |
| | 7 | 美國 | 56,724 | 54,986 | 4.7% | -3.1% |
| | 8 | 馬來西亞 | 28,702 | 34,281 | 2.9% | 19.4% |
| | 9 | 墨西哥 | 24,220 | 28,428 | 2.4% | 17.4% |
| | 10 | 土耳其 | 25,243 | 21,679 | 1.9% | -14.1% |

金額單位：US1,000

資料來源：臺灣海關進出口統計

PRODUCT

新世代智慧成型系統：FA-160

FA 系列為 FCS 全新發表之二代標準伺服節能機種，不僅規格升級，設計也更加優化，集合性能、效能與智能於一體，更整合高階電控系統優勢，結合 FCS 工業 4.0 解決方案，發展具智能化射出成型機，滿足高端客戶需求。

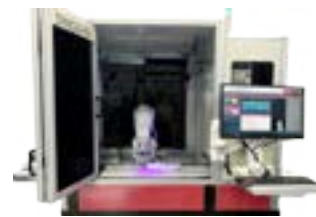
- * 柱內距加大、射速提升、加大射出量、系統壓力提升等滿足高射量、高射壓產品需求，如大型家用五金。
- * 車壁結構強度提升 30%，降低車壁變形量，以及開關模運動平順控制，可降低顫震提升成型穩定與設備壽命。
- * 標配射出全閉迴路控制技術，全面提升射出精度與穩定度，提供客戶加值不加價的選擇方案。



DS-138 自動辨識噴膠系統

為了因應鞋廠精進製鞋生產線上的自動化程度，鼎聖機械為此開發了自動辨識噴膠系統，可搭配相關定型機台，成為一完整的自動化製鞋生產線，藉此希望幫助鞋廠達到自動化、無人化工廠的目標。

DS-138 自動辨識噴膠系統為鼎聖機械 2018 年度的新機台，功能為針對鞋底組合所需要的上膠流程進行機械手臂路徑規劃與自動噴塗，此系統可自動辨別需噴塗的範圍並規劃最佳化路徑、亦可針對鞋底側牆的傾斜角度進行調整，減少人力建模的時間與困難度，是鞋廠未來針對鞋底上膠的最佳選擇。



2018塑橡膠機械研究發展 創新產品競賽活動入圍名單

A. 塑膠射出成型機械類



A01
致再科技股份有限公司
LV120H 鎖模力
120 公噸高射速全電式塑膠射出成型機



A02
致再科技股份有限公司
LV450T 鎖模力
450 公噸大型全電式塑膠射出成型機



A03
富強鑫精密工業股份有限公司
射出機工業 4.0 解決方案 -
FA160 熔體變異適應控制



A04
全立發機械廠股份有限公司
CLF-60TX 智慧射出成型機



A05
宜得世股份有限公司
AEEZ600-ES150 全電式射出機



A06
震雄機械廠股份有限公司
SM150LSR 液態矽膠射出成型機



A07
鉅鋼機械股份有限公司
KS 9902ME4 EVA 雙色初胚射出成型機

B. 塑膠押出成型機械類



B01
誠玉開發機械廠股份有限公司
CK-32HT 多功能雙螺桿材料測試實驗機

C. 塑膠中空成型機械類



C01
金展精密科技工業股份有限公司
EM08S3 智慧高速吹瓶機



C02
銓寶工業股份有限公司
CPSB-LSS8 直線式全電高速吹瓶機



C03
鳳記國際機械
FK / EHB 75GT20SS
單頭單模全電式中空成型機

D. 橡膠機械類



D01
東毓油壓機械股份有限公司
TIP-1000-2RT-L-250-PCD
智慧型節能雙邊自動脫模設備

E. 循環系統或回收設備類



E01
長毅機械工業有限公司
KRIEGER 85_ 三合一塑膠回收造粒機



E02
世林機械有限公司
Repro-Air 120 智能型風冷造粒回收再生機

F. 智動化塑膠成型機械及其週邊設備與系統類



F01
銓寶工業股份有限公司
BottleViewer 智慧吹瓶生產系統



F02
百塑企業股份有限公司
智機產業化暨 IM4.0 智慧助手



F03
華嶸精密機械股份有限公司
智慧管理三射複合成形系統



F06
三隆齒輪股份有限公司
智慧型齒輪箱 - 自動診斷預警系統



F07
富強鑫精密工業股份有限公司
射出機工業 4.0 解決方案 - 智
慧製造工廠系統 4.0

G. 其他塑橡膠機械設備類



G01
全泰油壓機械有限公司
SR2-24 雙口箱外磁性法蘭式過濾器



G02
美洛克工業股份有限公司
K-3030 KING 3D 列印機



G03
晏邦電機工業有限公司
DHM-SL-06 空壓式除濕乾燥機



中華民國對外貿易發展協會
董事長 黃志芳

台北國際塑橡膠工業展 暨台北國際製鞋機械展 歡迎您！

本人謹代表外貿協會誠摯歡迎各位蒞臨參觀 2018 年「台北國際塑橡膠工業展」與「台北國際製鞋機械展」，製鞋機械展為首屆辦理，而塑橡膠工業展則已邁入第 16 屆，在此感謝所有業界先進們的鼎力支持。

塑橡膠無所不在，從食衣住行的生活必需品到運動員身上穿的寶特瓶抽紗球衣及腳上穿的专业運動鞋鞋底都需要用到塑橡膠製程與材料。我國塑橡膠產業擁有完整的產業聚落與供應鏈，去年塑橡膠機械產值逾 14 億美元，出口值超過 11 億美元（較前年成長 12.8%），為全球第 6 大生產與出口國。

此外，塑橡膠產業與製鞋產業有著上下游的關係，本屆塑橡膠工業展與製鞋機械展同期展出，除了垂直擴大展出內容，發揮互補綜效，更可促進產業跨界交流，別具意義。今年展覽有 3 大亮點，顛覆各位對傳統產業的印象：

一、展覽國際化程度高 為亞洲第 3 大塑橡膠展：今年兩展合計共有 533 家國內外廠商參展，使用 2,738 個攤位，其中，有來自德國、奧地利、義大利、日本、印度等 22 國外商參展，使用 419 個攤位，較上屆成長 6.08%，顯示本展國際化程度持續提升，為亞洲第 3 大塑橡膠專業展。

二、展出內容符合市場趨勢 邁向智慧製造：臺灣塑橡膠產業實力堅強並且持續研發符合市場趨勢的產品，例如：(1) 符合工業 4.0 發展趨勢，結合 3D 列印、機械手臂、數據分析、雲端運算、物聯網等的智慧機械及智慧製造整體解決方案；(2) 符合環保趨勢，將塑膠廢料回收、清洗及粉碎後重新造粒的回收機及整廠造粒設備；(3) 更有符合各項製造業需求的輕量化、高強度、高穩定度的尖端材料與製品，皆可以在本屆展覽中看到。

另一方面，同期展出的首屆「台北國際製鞋機械展」，參展廠商將展示最新自動化、智慧化機械與整廠規劃，以縮短工序、降低人力、提高彈性及生產效率，以因應近年鞋業快速多變且高度客製化的市場趨勢，協助鞋廠升級，進一步邁向智慧製造。

三、辦理首屆高峰論壇 主題呼應工業 4.0 趨勢：另響應政府推動的「智慧機械」產業政策，同時因應工業 4.0 趨勢，我們首次在本展期間辦理高峰論壇，特別邀請來自奧地利的恩格爾 (Engel)、威猛巴頓菲爾 (Wittmann Battenfeld)、德國的阿博格 (Arburg) 及國內大廠富強鑫、鼎坤、上銀及鳳記的高階主管，針對智慧工廠、智慧製造及工業 4.0 解決方案等主題，分享最新發展動向，協助業者掌握未來趨勢。

今年兩展首度同期舉辦，貿協積極宣傳並動員全球駐外單位強力洽邀買主來臺觀展，目前已有來自美國、墨西哥、俄羅斯、土耳其、埃及、肯亞、日本、印度、菲律賓、馬來西亞、泰國、越南、印尼等近 80 國買主預先登記參觀，期能協助業者開拓全球市場商機，爭取訂單。

面對全球經貿情勢的詭譎多變與產業的激烈競爭，貿協將持續為業者打造優質的交易與交流平台，並在政府的支持與業界的合作下，共同為塑橡膠及製鞋機械產業開創新局。在此感謝各位對兩展的支持，敬祝大家身體健康、萬事如意、生意興隆！

2018 年第十六屆台北國際塑橡膠工業展 (Taipei PLAS) 暨台北國際製鞋機械展 (ShoeTech Taipei)，自 8 月 15 日至 19 日，展出 5 天。台北國際塑橡膠工業展，是本年度亞洲地區最重要展覽之一，2017 年臺灣塑橡膠機械出口值達到 11.6 億美元，在全球經濟景氣回溫之下，成長 12.8%，外銷市場排名第一位是大陸，越南排名第二，印度排名第三位。

2018 年 1 至 5 月，臺灣塑橡膠機械出口亦持續呈現成長，出口主力產品是塑膠射出機、押出成型機、吹製成型機、中空成型機、塑橡膠機械零組件等。出口額 4.9 億美元，較上年同期成長 4.2%。臺灣塑橡膠機械業經由多年來的積極研發以及在海內外市場努力拓銷，在全球已是第六大塑橡膠機械生產國，僅次於德國、日本、義大利、大陸、美國等國，可見臺灣塑橡膠機械已能於國際市場享譽盛名，及受到全球各國買主之肯定。

2017 年臺灣製鞋機械和縫紉機出口值達到 4.6 億美元，成長 1.4%，外銷市場排名第一位是越南，中國排名第二，日本第三位。2018 年 1 至 5 月，出口額達 1.9 億美元，較上年同期持平。臺灣製鞋機械業在多年研發和努力拓銷全球市場下，目前排名全球第三大，僅次於義大利、大陸等國家。此次合計共 533 家廠商參與這場盛會，展出面積達 48,000 平方米，合計使用 2,738 個標準展示攤位，本次展出共規劃包括塑橡膠加工機械區、塑橡膠周邊設備區、模具暨零組件及模具加工設備區、塑橡膠原料及製品區、智慧自動化及機器人與 3D 列印區、外商區、海峽兩岸塑橡膠工業區、媒體區、國際公協會區、以及製鞋機械展專區等十大展區，以「智慧化生產系統、智慧機械暨智慧製造」、「設計美學質感優、工業 4.0 產業升級」以及「節能減碳重環保、綠色設備正當道」等三大面向作為展覽主軸，期望邀請更多買主前來臺灣參觀，體驗臺灣塑橡膠產業「智慧製造、節能創新、技術領先、性價比高」的強大優勢。

今年也持續舉辦第 11 屆塑、橡膠暨製鞋機械「研究發展創新產品」競賽。業界非常踴躍提供與智慧機械有關之新機種參賽，共有 22 件作品已進入決選作業，足見臺灣塑橡膠機械業長期對研究開發之重視。頒獎典禮安排在 8 月 16 日晚上，亦期盼各位貴賓及業界代表，能撥冗出席 8 月 16 日晚上之頒獎典禮及酒會。

因應工業 4.0 浪潮席捲而來，臺灣機械設備業要朝向生產更為智慧化、自動化、客製化的智慧機械，與世界各國相互競爭，所以臺灣產官學研，必須正視此國際上對工業發展之大趨勢；並希望研發單位、學校等能夠多培育與智慧機械有關的智慧控制器軟體開發、人機介面、智慧機器人、感測器應用等的專業人才，並能進入機械業界，貢獻所學，以讓機械業界能夠加速跟上工業 4.0 的趨勢潮流。

Taipei PLAS 與 ShoeTech Taipei 2018 將提供一個最好之平台，過往 50 餘年來，臺灣塑橡膠機械業對全球塑橡膠與製鞋機械市場之影響力及貢獻與日俱增，期望本屆展覽能對各位與會之貴賓、專家及先進有所幫助，獲得最滿意之結果。在此特致上最誠摯的謝意，並祝福大家身體健康，萬事如意。謝謝！



臺灣機械工業同業公會
理事長 柯拔希

2018年 台北國際塑橡膠工業展 研討會 / 活動日程表

如有修正，以現場實際狀況為準，不另通知。

8/15
(Wed.)

| 時間 | 活動內容／講題 | 主辦單位 | 地點 | 備註 |
|---------------------|-------------------------------|------------------|--------------------------|--|
| 10:30 | 開幕典禮 | 外貿協會 機械公會 | 台北南港展覽館 1 館 4 樓 M 區門廳 | 憑邀請函入場 簡馥茗小姐 +886-2-27255200 #2867 |
| 13:00 17:00 | 普拉講堂 | 普拉瑞斯創意 整合有限公司 | 台北南港展覽館 1 館 402a 會議室 | 陳依蓉小姐 +886-4-24517070 #268 |
| 14:00 17:00 | 「2018 年台北國際塑橡膠工業展」 聯合採購洽談會 | 外貿協會 | 台北南港展覽館 1 館 504 會議室 | 柯采慧小姐 +886-2-27255200 #1573 |
| 14:30 15:30 | 2018 台北國際塑橡膠工業展記者會 | 外貿協會 機械公會 | 台北南港展覽館 1 館 403 會議室 | 侯馨青小姐 +886-2-23494677 |



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HEADQUARTERS

+886 6 5950688
+886 6 5951129
fcsco@fcs.com.tw

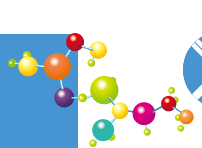
FCS DONGGUAN

+86 769 83313753
+86 769 83181903
cdg@fcs.com.tw

FCS NINGBO

+86 574 56138688
+86 574 56138600
cnb@fcs.com.tw





展覽快訊

參展家數 **533**

展出攤位數 **2,738 +6.04%**

第**1**日



Taipei PLAS & ShoeTech Taipei 2018 展區分類

- 塑膠加工機械區：射出成型、中空成型、押出成型機械等。
- 塑膠周邊設備、模具暨零組件及模具加工設備區。
- 智慧自動化及機器人與 3D 列印區。
- 塑膠原料及製品區。
- 海峽兩岸塑膠橡膠工業展區。
- 製鞋機械展。

Taipei PLAS & ShoeTech Taipei 2018 展出智慧機械 塑造未來

第 16 屆台北國際塑膠橡膠工業展覽會，即日起假台北南港展覽館 1 館盛大展出！**Taipei PLAS** 是許多國際買主一致公認的優質採購平台，人潮預估突破上屆人數，近 20,000 名國內外參觀者造訪；以「智慧化生產系統、智慧機械暨智慧製造」、「設計美學質感優、工業 4.0 產業升級」以及「節能減碳重環保、綠

色設備正當道」等三大面向作為展覽主軸，方便買主參觀採購，並在展覽期間 8/16 日辦理「2018 年台北國際塑膠橡膠工業展覽會」高峰論壇，邀請國內外塑膠橡膠知名業者分享工業 4.0 發展趨勢，提供產業界交流的最佳時機。展覽期間另有近 30 場的技術研討會，內容涵蓋最新發展趨勢，希望藉由豐富多元的技術

交流活動為國內塑膠橡膠產業開啟新契機，參觀者既可採購又能瞭解市場脈動，這將是今年不可錯過的最佳盛會。此外，首屆台北國際製鞋機械展（**ShoeTech Taipei**）將於同期同場地展出，兩展預期吸引眾多國內外買主蒞臨參觀，協助業者拓展商機。

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E-mail: sales@horngchii.com.tw

42950 台灣台中市神岡區社南里中山路667巷71號
No. 71, Lane 667, Zhongshan Rd., Shengang Dist., Taichung City, 42950 Taiwan

