

Top Stories

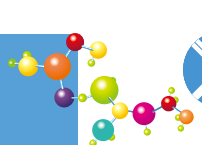
2018 Taipei PLAS International Press Conference

Procurement Meeting

Industry Seminars

Can Straw Be More Environmental Friendly?

Product Highlights



TAIPEI PLAS
Taipei International Plastics & Rubber Industry Show

ShoeTech Taipei
Taipei International Shoe Making Technology Show

AUG. 16, 2018

SHOW DAILY

Yesterday's Visitor

Local **3,292**

Foreign **1,132**

Total **4,424**

DAY 2

OPENING CEREMONY 2018 開幕典禮

ShoeTech Taipei
台北國際製鞋機械展

TAIPEI PLAS
台北國際塑橡膠工業展覽會



TAIPEI PLAS SUMMIT
2018 Industry 4.0 -
Shaping New PLASbility

Expect the New Plastic & Rubber Manufacture from the Grand Opening of Taipei PLAS & ShoeTech Taipei 2018

The 16th Taipei PLAS and the first ShoeTech Taipei celebrated their Grand Opening Ceremony on 8/15 morning at Taipei Nangang Exhibition Center, Hall 1. Joined by Taiwan's (R.O.C.) Vice President Chen Chien-Jen and the Legislative Yuan President Hsu Chia-Chuang, the shows this year are highly emphasized and well-participated by both the domestic administration and international associations. Other domestic administration directors at the ceremony also include the Ministry of Economic Affairs' Deputy Minister Tseng Wen-Sheng, Bureau of Foreign Trade Director General Yang Jen-Ni, and Industrial

Development Bureau Deputy Director General Yang Chih-Ching.

While the 2 shows are hosting 533 exhibitors and presenting 2,738 booths, Taipei PLAS and ShoeTech Taipei together are the 3rd largest show in Asia to provide buyers with the finest procurement platform. This year, the shows are themed around "Smart Machinery & Manufacturing", "Environmental Friendly Technology", and "Innovative Materials". During the opening speeches, the Vice President and other distinguished speakers all stressed on Taiwan industry's new direction gradually moving from labor

intensive toward smart manufacturing. In order to match with next manufacturing trend, Taiwan manufacturers should not only cooperate locally but also internationally. Therefore, Taipei PLAS is also a leading technology show with many smart and high productivity products presented onsite. Additionally, the shows also organize the Taipei PLAS Summit today with topics on smart manufacturing and factory, which will introduce on the current Industry 4.0 status and Taiwan's new movement to help the participants understand a better manufacture for the future.

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The Smart Box for Easy Injection Molding IoT

By Tang, Chun-Wen,
Industrial Technology Research Institute (ITRI)



ITRI is actively concerned about the smart manufacturing development among its related industries within Taiwan. Therefore with the support of the Department of Industrial Technology (DoIT) of the Ministry of Economic Affairs (MOEA), the Smart Manufacturing Data Value-Added Alliance (SMDVA) was established and joined by the research institutes, academic and industrial sectors. The aims of SMDVA are to foster a cross-industry/cross-domain networking platform on smart manufacturing, and the platform will construct a communication channel to integrate from the upstream to downstream of the smart manufacturing chain. The platform also aims to establish a systematic solution and offers to local industry, helping them enhance on their production efficiency and be more competitive in the world markets.

There are two smart boxes developed by the ITRI, one called as the "Production Information

Box (PI Box)" and the other the "Injection Molding Information Model Box (IM² Box)". With these two boxes, manufacturers who wish to upgrade to smart manufacturing will no longer have to retire their current equipment in their factory.

The PI Box is designed for general applications for all industries and applicable to manufacturers whose machinery is not equipped with controllers. The box is light weight, easy to install and set up, and capable to collect data from I/O of the equipment and from all types of analog and digital sensors. The box also has a built-in database. To install the box, manufacturers simply have to attach the box to the sensors, connect to the internet and complete settings on the specially designed software interface. The data can be collected in real time, and manufacturers is able to monitor online for the utilization rate, power output, and even to

examine the measured data from the completed workpiece.

Another box model, the IM² Box is a collaborated product by ITRI and the MIRLE, whom is one of the renowned brands for serving automation solution from Taiwan. The box is designed with combining MIRLE self-developed injection molding machinery controller, and its information model is based upon the OPC UA communication framework and matched to the European Association for plastics and rubber machinery manufacturers EUROMAP 77/83 protocol. Currently, the IM2 is undergoing testing and integration with cooperating on FU CHUN SHIN (FCS) machine, and soon it will be included within the Intelligent ManuFactory (iMF4.0) solution. This total solution is expected to help Taiwan manufacturers expand their sales market further and deeper into the Europe and China markets.

Taipei PLAS 2018 Event / Seminar Program

* Subject to change without notice.

Time	Event/Seminar	Host/Speaker(s)	Organizer(s)	Venue	Remarks
8/16 (Wed.)	9:30 17:00	Taipei Plas Summit 2018	TAITRA	Room 401, Taipei Nangang Exhibition Center, Hall 1	Lily Chu +886-2-27255200 #1576
10:00 10:50	Application and Development of Smart Machine Box for Injection Moulding Machine	Tang, Chun-Wen, Manager, Industrial Technology Research Institute			
10:50 11:40	Equipment Condition Monitoring and Prognosis Technology	Wang, Chun-Chieh, Manager, Industrial Technology Research Institute			
13:00 13:30	High value plastic material technology Lightweight Thermoplastic Composites Technology	Hsiu-Cheng Chang, Ph.D., Associate of Technology Research Dept., Plastics Industry Development Center			
13:30 14:30	High value plastic material technology Smart Plastic Materials Technology Eco-friendly Materials Technology	Chang, kai-jay, Ph.D., Li, chen-yu, Ph.D.,Associate of Technology Research Dept.,Plastics Industry Development Center			
14:30 15:10	Smart Mechanical Components for Plastic Machinery	Huang, Chun-Hung, Deputy Head, Industrial Technology Research Institute	TAITRA TAMI	Room 402bc, Taipei Nangang Exhibition Center, Hall 1	Rita Chang +886-2-23494666 #682
15:20 16:00	SMB consulting program and equipment networking introduction case introduction	Chang, Nai-Wen, Manager, Precision Machinery Research & Development Center			
16:00 16:40	Emerging technologies and products in machinery industry	Shiung, Jr-Min, Ph.D., Industrial Economics & Knowledge Center			
16:40 17:20	General introduction of Field Evaluation Service (FES) and America plastic machinery standards	Wang, Wen-Shen, Vice General Manager, Wen, Cheng Tao, Manager, TÜV Rheinland Taiwan Ltd			
17:20 18:00	Empowering Industrial OEMs for the Digital Era	Seng, Jackson, General Manager, Schneider Electric			
13:30 17:00	同心“鞋”力，再造良“機”研討會		TIEN KANG CO., LTD	Room 504a , Taipei Nangang Exhibition Center, Hall 1	Vic Chi +886-4-22870566

2018 Taipei PLAS Press Conference & Procurement Meetings on 8/15

Taipei PLAS Further Highlights on Taiwan Movement toward Industry 4.0

The 2018 Taipei PLAS Press Conference happened on the first day of the show on 8/15 was lead by TAMI's Convener of Board of Supervising- Larry Wei and the Executive Director of Exhibition Department of TAITRA- Thomas Huang. The participating speakers include also TAMI's President-C.C. Wang, and TAMI's Plastic & Rubber Machinery Committee Chairman-Alan Wang and the two Vice Chairman-Michael Wang and Bush Hsieh. During the conference, Taiwan was mentioned with having strong development energy in high-tech industries like computing, information communication technology, and smart sensor components. As the manufacturing today has move toward the Industry 4.0 era, plastics and rubber industry is urged to focus more on new directions such as lowering CO₂ and building machines that are environmentally friendly, low noise, and capable to deliver cleaner and higher precision manufacturing with predictive troubleshooting feature to lower the maintenance cost. Taiwan has never stopped on innovating new products that match to the world markets' trend and buyers' demand. At Taipei PLAS 2018, it shows that many exhibitors have already been displaying and promoting their new smart manufacturing models to the visitors from around the world. This expresses clearly on Taiwan manufacturers' ambition in developing intelligent manufacturing and smart services. Over the years, every member in Taiwan plastics and rubber industry has input their continuous devotion on making stable and high precision machines, and they always provide quick services support. As the result, Taiwan machines are the best promotion for the high quality "Taiwan-made" image.

During the Q & A session, the international journalists were also curious about the current events related to Taiwan. The questions include from the impact in China-USA trade war, the reaction on world banning plastic trend, the status of personnel training for Industry 4.0, to other regional questions like Taiwan sales towards middle east market. In respond to the plastic ban trend, speakers also provided Taiwan solutions with re-emphasizing on our direction to being more environmentally friendly and



devliering new circular economy model by building new machines with decreased material wastes. For the personnel training, the speakers shared that Taiwan has constructed cooperation from the industry, the academic, and the research institutes sectors. The Taiwan government has also instructed a new training program and participated by 3 parties that are from schools, manufacturers, and the Industrial Development Bureau of Ministry of Economic Affairs. The aim is to create more trained personnel and generate more new development required in the industry.

Taipei PLAS 2018 Procurement Meetings

To bridge a better connection between international buyers with Taiwan manufacturers, the procurement meetings organized by TAITRA have always been one of the highlights during Taipei PLAS. This year, there were 30 international companies registered and 90 meetings being arranged. The participation include buyers from USA, UAE, Turkey, Russia, Romania, South Africa, India, Mexico, Ukraine, South Korea, Portugal, Germany, etc.

The overall feedback from buyers have shown that "Taiwan-made" products still remain highly recommended in the international markets. Among all buyers being interviewed at the meeings, many of them already have experiences with purchasing and using Taiwan machinery. Compared to other machines, Taiwan is already capable in making similar high-quality products like European brands

but are still offered with a comparably lower pricing. Aside from the most companies that were looking for machinery products, some other buyers at the procurement meetings also shared their aim in buying PP, PE, mLLDPE, and other raw materials from Taiwan. However, these buyers said there were not enough exhibitors for supplying raw materials and hope there could be more on such sector for future Taipei PLAS.



PRODUCT

YW-8825SHY- A High Frequency Welding Machine

YOURWAY's automatic high frequency welding machine, YW-8825SHY-A is equipped with automatic electric current tracking system to automatically that is able to track the electric current within a set range. To initiate automatic electric current control, operator simply has to input the value on the control screen. The electric current value as well as the workpiece thickness for the upper and lower plates can be set individually for different requests. After setting the value, the machine can conduct precision welding and cutting to deliver high quality results.



The FASTEST PET linear stretch blow moulding machine

CHUMPOWER is the main PET blow moulding machine manufacturer in Asia Pacific region, and now it has introduced the ultra-high-speed linear stretch blow moulding machines: CPSB-LS6 / CPSB-LSS8 with capacity of single cavity up to 2250 bph (the faster model today). In the past, the development of the PET linear stretch blow moulding machine was in a dilemma. The capacity of a single cavity in the four-cavity model used to be 2000 bph, which had reached the maximum limit and it couldn't produce without stopping. CHUMPOWER's CPSB-LS6 / CPSB-LSS8 not only achieves 2250 bph in a single cavity, but it also fits in the six-cavity (13500bph) and eight-cavity (18000bph) models to accomplish long-term stable production. This has set a new milestone in linear PET stretch blow moulding machine development; meanwhile, it provides customers with high speed, higher capacity, and better value production.



HORNG CHII Urge to Form New Collaboration on Shoe-making

Taiwan, the country once praised as the “Kingdom of shoe-making” is currently facing a great amount of shoe-making manufacture moving out. Now, the industry members carry on the obligation to revive and transform the shoemaking industry. This is why ShoeTech Taipei has returned to Taiwan from its last edition 18 years ago and be co-hosted with Taipei PLAS this year on August 15-19. To bring the show back to Taiwan marks another important step to re-emphasize the “Taiwan-made” shoe machinery and shoemaking techniques to the world. Mr. Chen Jin-Xiang, Chairman of the Shoemaking Machinery Committee, also expressed strong ambition to collaborate with more diverse applications related to shoemaking to be presented in the future exhibition. Industries such as textile, leather, and hardware can all be suitable options to help expand the future ShoeTech Taipei and become a must-visit show on shoe makers’ list.

“Taiwan owns very mature technology and knowledge to making high quality shoes. For instance, Horng Chii will present our self-developed automatic EVA injection/foaming molding machine. It is capable to manufacture products with multiple colors and different hardness, which is highly applicable to making outsole, insole, slippers, and any EVA foamed products. This new machine model is highly automated and designed for higher value production” Shared by Chen Jin-Xiang to highlight on the benefits of choosing Taiwan machinery.

Like many shoemaking machinery brands in Taiwan, the 40-year-old Horng Chii is now passing the company’s steering wheel to the second generation. The company combines the founding ideal and

the second generation’s innovative mind, and they still pay high attention to clients’ demands. With each demand, they always try to offer the most optimized and customized machinery and even deliver the turnkey solution and smart manufacture system. Horng Chii is like many other shoemaking machinery manufacturers in Taiwan that are able to integrate and provide one-stop services, which they are all striving to create a new path toward the future.



Where Are the Farm Wastes? Find out the pollution that may affect on our food.



To harvest the sweet melons in summer, farmers are used to cover their farms with agricultural films. These films might be good protection for our agricultural products, but in the meantime they also cause hazards to the air we breathe in. How does this happen?

These agricultural films are traditionally made of plastic materials like polythene (PE) or Polyvinyl chloride (PVC) or Ethylene Vinyl Acetate (EVA), which are not allowed in either trash or the recycling categories set by the government. Even for private recycling services, they only collect from the large space farms. When it’s difficult for farmers to recycle these films, many of them might just burn the films onsite and leave the ashes sit right next to the farms. This brings contamination to both our agricultural products and environment, which is also called as farm’s white pollution.

According to the field study, every year at least 10% of the plastic films have entered in our farms, soils, or rivers. These small scrambles of agricultural plastic films in the soil now not only are destroying the soil structure, but they are causing agricultural products to decrease, harming animals living on these ground,

and polluting the air when the films are burned. The study shows a farmland covered with agricultural film up to 5 years could leave with around 120 kgs of film remains, causing 15%-30% less in product quantity and damaging severely on our environment.

In responding to such urgent issue, the Taiwan composite manufacturer CHIAO FU has conducted research with support by the governmental lab. Together they have come up with a 100% bio-degradable agricultural film. This bio-degradable film uses fully degradable plastic as its base and added with spent grains and small amount of strain. Simply bury the film with soil and they can be fully degraded within 3 to 4 months. This new film still possesses functions to not only inhibit weed from growing, but it can keep the soil more moisturized, protect the farm with less pests, and help decrease the greenhouse gas from burning the film. The bio-degradable also proves a promising result with 10% decrease on the use of pesticide and fertilizer and helps save 10% on production cost.

The field test on this 100% bio-degradable film was quite a difficult journey. Many farmers were holding back on trying, since they doubted that there is any

film to be fully degradable. But, after it went through a 3-year span of study and now enters the final stage of testing the agricultural products, the farmers are all satisfied with using this film that is bringing them a great harvest. “Compared to the traditional plastic films, now it requires much less labor in harvesting work, but we are able to keep the same amount and quality on our products. Also, this film only needs to be buried in soil and can be fully degraded. It is definitely a better solution to protect our environment, and we no longer have to worry about how to dispose the agriculture films.” shared by Mr. Liang, whom is one of the contracted farmers in the study. This new 100% degradable film is patented, and it has been supplied to the market since June.



Another worth noticing reminder on other environmental friendly products like trash bags is their self-claimed disintegrable or degradable capability. While the products are often still made with PE or PVC as their base material, such bags can only be disintegrated into small plastic pellets instead of fully degradation into harmless products like water or carbon dioxide. Therefore, beware to check on the ingredients of the products and watch out for those that are made of Polylactic Acid (PLA) or Poly (butyleneadipate-co-terephthalate) (PBAT). Let us try not to be the supporter of harming our environment.



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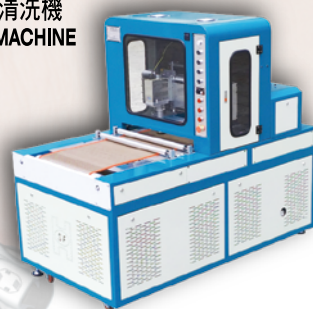
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POLYSTAR Shows Great Result on Simplified Plastic Recycle

As environmental protection thinking is now widely spread and many government officials from different continents all starting to set tougher regulations, this makes recycling business an even heated business than ever. POLYSTAR, whom is dedicated in providing the easiest recycling solutions to its customers, it is now one of the most renowned brands for plastics recycling machinery. POLYSTAR is well known to the industry with the image of its high-quality machines, quick order delivery, simplified operation system, and of course

not to forget, the elegant and neat POLYSTAR brand image you may find at various industry's event and on media.

On POLYSTAR's 3-in-1 plastic recycling machine, the machine perfectly integrates shredding, extruding, and pelletizing into one single process. The 3-in-1 machine is designed with highest simplicity to aim for the most comfort in operation. Also, by equipping the top quality auxiliary equipment like motor, gearbox, inverter, degassing device and filter system, this machine is able to add 20% on production rate and help save 10% off the required power. It is able to recycle PE (HDPE, LDPE, LLDPE) and PP packing film, where the recycled plastics are 100% guaranteed for remaking into new products. This 3-in-1 plastic recycling machine is definitely the most simplified and highly productive solution for industry users.

Smart Control for Even Better Performance

POLYSTAR's recycling and pelletizing machines not only deliver the most simplicity in operation, their highly automated and smart control systems are also another highlight. The machine feeder is equipped with automatic film nip roller to help reduce great amount of labor work, and it requires even just 1 operator for the process. The intelligent automation control of ampere loading feeding technology on the machine is able to precisely control the feeding speed, which helps deliver a much finer extruding and pelletizing process. The smart control system on the die face pelletizing process ensures an even cut and better quality in plastic pellets. Also for customers who have limited space in their plant, POLYSTAR is capable to redesign a customized solution. Through all these high standards set on their machines and services, POLYSTAR will, without doubt, continue to lead the plastic recycling industry with endless innovations.



Can Straw Be More Environmental Friendly?

The largest coffee chain, Starbucks has recently announced on banning all one-time plastic straws within the next two years. In the midst of world trending toward a less plastic environment, Starbucks pioneering action can be referred as the new direction for those international food and beverage enterprises. By the year 2020, only fully bio-degradable straws and specially designed cup lid will be found in all Starbucks shops, and they have even already shared a new non-straw design on their cold drinks. Even though this new design is still made of plastic like before, their action delivers a clear message on changing consumers' behavior in order to help decrease the use of straws.

Another action to solving the straw issue, also the most popular solution, is to replace plastics material in straws with other natural ingredients such as bagasse. However, the new combined materials are still now undergoing questions and examinations. Whether the new straws can be correctly recycled? Can they become fertilizer? Or will they really degrade if they flow into the ocean? In fact, the biggest problems on plastic

straws now are the extreme low recycle rate and people's extreme low motivation to recycle them. By taking all these doubts on straw to the biggest straw machinery maker in Taiwan, JUMBO STEEL Machinery might have presented solutions that will soon reflect on plastic straws. Years before the plastic straws takes the heat, JUMBO STEEL had already been researching and come up with mature quality PLA straw machinery. Now with the heat on straw, their order inquiries have also increased, and JUMBO STEEL also launches a PP/PLA straw machine to match with clients needs on different orders requests. To understand more about these more environmental friendly straws, take a visit to JUMBO STEEL's booth at Taipei PLAS 2018 on August 15-19.

Even though people's living standards have advanced, straws are still serving for their sanitation and convenience purposes. Instead of simply banning the use of straws,

why not think about a more thorough solution of making and using straws? From finding new materials to delivering better recycling education to the public are all necessary actions. It is hard to resolve the straw problem or stop all of them from entering the ocean in a very short time, but we can all start from now and make straw an earth and turtle friendly product.





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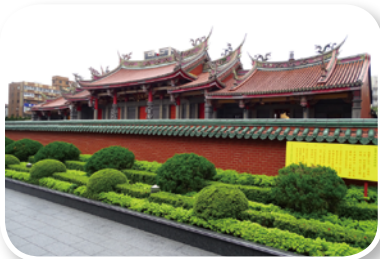
● 龍山寺 Lungshan Temple

坐北朝南是中國古典之三進四合院傳統宮殿式建築，門壁樑柱極盡精雕細琢之美，結合清代、日據與光復後綜合表現的寺廟藝術；前殿的八角藻井和鑄銅龍柱是特色所在，大殿也有金柱圓形螺旋狀藻井，都是代表臺灣傳統寺廟特色和格局。

★ 交通資訊：捷運→搭乘捷運板南線至龍山寺站即可到達艋舺龍山寺。

The temple mixes traditional Chinese siheyuan ("four-building courtyard") architecture with palace-style structure in its design. The joining of the wall and roof did not use any nails or braces made of metal. Covered by overlapping tiles, the temple roof is decorated with figures of dragons, phoenixes and other auspicious creatures. They represent the pinnacle of mosaic art in Taiwan. The temple has been declared a Secondary National Heritage Site.

★ MRT：Take the MRT Banan line to Longshan Temple Station to reach Longshan Temple.



● 行天宮 Xingtian Temple

行天宮主祀關公，是一座臺灣傳統民間信仰廟宇，行天宮發展至今，除了是當地重要的民間信仰外，也是全臺各地信徒的景仰所在，行天宮已成為臺灣重要的民間信仰中心。

★ 交通資訊：捷運→搭乘新蘆線，行天宮站下車，3 號出口右轉步行至民權東路即可抵達。

In addition to being an important local folk belief, the development of Tiangong has become popular in all parts of Taiwan. Xingtian Temple has become an important center of folk beliefs in Taiwan.

★ MRT：Take the Xinlu Line, get off at Tiangong Station, take Exit 3 and walk right to Minquan East Road to get there.



● 霞海城隍廟 Xiahai Chenghuang Temple

霞海城隍廟距今已有 144 年的歷史，是大稻埕一帶地區的重要人民信仰中心，在霞海城隍廟中，除了城隍爺之外，最吸引遊客的，莫過於拜月老，其中最搶手的就是馭夫鞋（又名幸福鞋），是臺北市有名的「愛情御守」。

★ 交通資訊：捷運→搭乘至北門站 3 號出口出站，步行約 10 分鐘即可抵達霞海城隍廟。

The century-old Xiahai Chenghuang Temple is host to statues of the City God, his wife, the Chinese Cupid, and 600 other deities. Tradition has it that if the statue of Chinese Cupid is standing, he is eager to find a good marriage for people. The temple therefore attracts a lot of singles looking to pray for a 'significant other'. Couples visit this temple praying for a good life together.

★ MRT: Take the Exit 3 to the North Gate Station and take a 10-minute walk to reach Xiahai Chenghuang Temple.



● 艋舺清水巖祖師廟 Qing Shui Yan Master Temple

艋舺清水巖為第三級古蹟，據說每逢天災巨變前，清水祖師便會落鼻示警，因此又有『落鼻祖師』尊稱。在這裡可以看到伴隨臺北成長的遺跡。

★ 交通資訊：捷運→板南線龍山寺站，3 號出口步行 5 分鐘即可抵達。

It is said that before any major natural disasters, Qing Shui Yan will show a warning. In addition, the historical sights of Handan are also quite abundant. If people want to revisit the nostalgia of ancient times, they can also visit the Longshan Temple, Yanqingshan Palace, etc. They are also other historic temples you can see Taipei.

★ MRT：Bannan Line Longshan Temple Station, Exit 3 can be reached in a 5-minute walk.



● 艋舺青山宮 Qingshan Mountain Palace

艋舺青山宮屬於國家三級古蹟，經歷了多次的整修，相當精美，如八角形藻井，相當可觀，整修用料也都頗有典故，如前殿的石柱與石垛，就是取自圓山神社所遺之石材。另外青山王的神像，眼神犀利，從每個角度去凝視，都會感覺不同，民眾可以來這裡親自體會。

★ 交通資訊：捷運：板南線龍山寺站 1 號出口，沿西園路前行左轉即抵。

Qingqingshan Palace has a history of more than 100 years and is three temples made of wood and stone that were mixed and rebuilt several times. For example, the pillars of the front hall and the stone sarcophagus are taken from the stones left behind from a Shinto Shrine. In addition, the statue of King Aoyama has sharp eyes and looks out from every angle. It will feel different, and people can come here to experience it personally.

★ MRT：Exit No. 1 of Longshan Temple Station, Bannan Line. Turn left on Xiyuan Road and arrive.



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環保吸管，該「管」不「管」？

星巴克（Starbucks）決定 2 年內在所有分店禁用一次性塑膠吸管，在全球減塑呼聲越來越高之際，星巴克提及塑膠對海洋構成的環境威脅，率先成為禁塑的最大食品和飲料公司。西雅圖星巴克宣布，2020 年前將使用生物可分解材料製作的吸管，例如紙吸管，以及特別設計的杯蓋，為響應該政策，他們還曝光了一款免吸管的冷飲杯蓋，希望逐漸改變消費者的習慣，也盼能減少塑膠吸管汙染問題。星巴克所推出的全新設計杯蓋材質雖仍為塑膠製，但主要目的是希望減少吸管的使用量。

現在吸管界中最熱門的就屬甘蔗渣吸管及其他取代塑膠材質，但是否能妥善回收？是否能作為堆肥？流入海洋後，容不容易被分解？也是非常需要檢視的問題，因為現在的塑膠吸管最大的問題就是「回收」的意願與效率都極低。身為國內最大吸管機製造商壯鋼機械股份有限公司，早在環保趨勢前，就已經研發 PLA 材質多年，而現今詢問度增加的產品，就是替代塑膠材質的吸管製造，至今壯鋼所開發出 (PP/PLA) 兩用吸管機，對此都是響應環保趨勢的方針，展覽期間也歡迎來自各國的廠商到壯鋼攤位來了解更多新環保材質吸管機的趨勢。



吸管的使用無非是希望衛生與便利，隨著時代和生活水平的提升，與其禁用塑膠吸管更應該是做好其配套措施，從生產端尋找替代材質、教育的方式或政策改善等，都是需要改變的，絕非一夕間就可以完全達到的目標，否則最終它們還是會流入海洋，問題依然沒有解決，該管的是從頭做起，讓環境更好。

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Booth No. **J0118**

世林化繁為簡 成就無限

基於全球市場環保意識高漲與法規日益嚴謹的情況下，後續回收產業的需求發展也現蓬勃之姿，世林機械致力於提供最簡單方便的回收操作系統給全球客戶，今日已成為全球知名之塑料回收機械製造商。**POLYSTAR** 將回收市場邁向嶄新境界，核心競爭下世林追求品質穩定、快速交貨、

合理價格、極簡操作風格、工業時尚簡約設計等優質形象及產品差異化讓世林在客戶心中占有一席之地。

POLYSTAR 三合一塑料回收機：完美整合粉碎，押出及切粒工程於一體，藉由極簡高效的創新結構設計，搭配優異的馬達、齒輪箱、變頻器、排氣及過濾系統，可有效提升產能達 **20%**，並節省能源損耗達 **10%**。主要用來回收 **PE (HDPE、LDPE、LLDPE)** 及 **PP** 薄膜包裝材料，所回收再生的高品質塑粒可 **100%** 再次回收使用於生產線上，為企業客戶提供了一個最極簡方便與經濟高效的塑料回收解決方案。

智能控制 成就極致

POLYSTAR 回收造粒機除了具備簡約耐用的產品特性外，其高度自動化與智能化的技術整合效能展現也是獲得客戶青睞之主要原因。進料前端製程搭配自動化成卷薄膜夾輪裝置讓客戶大幅節省人力操作成本，只需一個操作員即可輕鬆搞定所有回收造粒製程；安培定量進料自動化控制技術則精準地控制進料速度，讓粉碎及擠出製程效能充分展現；模頭切粒智能化控制技術也讓塑粒尺寸的均勻性與品質更加完美。此外，**POLYSTAR** 也可針對客戶工廠原本侷限的空間限制，進行機台結構的設計變更與客製化。這些極致工藝再次印證了 **POLYSTAR** 在回收產業技術的引領地位與創新能量。



產品報導

YW-8825SHY-A 全自動電腦自動追蹤高周波熔接機

元威推出的全自動電腦自動追蹤高周波熔接機 (YW-8825SHY-A) 有電流全自動追蹤系統，在螢幕上進行設定完目標電流並輸入至設定後，本機便無需人工手動調整將會自動追蹤電流數值並穩定在設定的電流內。另外，此機的上下層是各自單獨的設定電流以及產品的厚度皆可分開設定。在設置好產品的厚度後，此機台可準確的熔接與裁斷同時有效的控制產品的品質。



市面上最快的直線式吹瓶機

亞太地區主要的 PET 吹瓶機製造廠商 - 銓寶工業股份公司，推出超高速直線式吹瓶機種：**CPSB-LS6 / CPSB-LSS8**，單腔產能高達 **2250bph**。過去 PET 直線式吹瓶機發展遇到瓶頸，四腔機種做到單腔最高產能 **2000bph** 已是極限，而且無法連續生產。銓寶的 **CPSB-LS6 / CPSB-LSS8**，不只做到了單腔 **2250bph**，更可以在六腔 (**13500bph**)、八腔 (**18000bph**) 的機型上實現長時間穩定生產，為直線式 PET 吹瓶機的發展寫下全新的里程碑，為客戶提供造價合理、高速且更高產能的生產解決方案。



鴻綺同心「鞋」力，共創未來

臺灣曾是全球的「製鞋王國」，近年製鞋產業外移，當年的光輝榮景不再，如何再次擦亮製鞋王國的美名，亦或轉型產業是這個時代所肩負的使命。且鞋機設備已有將近 20 年沒在臺灣舉辦展覽，此次特地將鞋機展從橡膠展中獨立出展區，就是希望能讓鞋機重回臺灣，打開臺灣市場。鴻綺董事長陳金象，身為本屆製鞋機械公會會長，深深期盼日後臺灣鞋機能結合更多臺灣週邊廠商，如：布料、皮革、五金等，獨立開辦一個屬於臺灣的展覽，並發展成國內外業界人士必定到訪的展覽。

陳董事長說：臺灣鞋機技術成熟，至今舉出臺灣鞋業，無疑是優良品質的代表。此次展會，鴻綺將展出自動 EVA 發熱壓泡成型機。可製作多色、多硬度產品，例如：鞋底、中底、拖鞋及 EVA 發泡相關產品等，為自動化、高效益的設備，十分具有可看性。

創立 40 年的鴻綺，已邁入第二代，結合第一代的理念與傳統技術和第二代的創新研發，努力傾聽客戶的需求，為客戶

提供高效益、高智慧的客製化製程，更提供整廠設備與智能化系統的整合服務，希望在競爭激烈的產業中，走出一條屬於自己的道路。



農棄物何去何從？農民不能說的秘密！



孟夏到來，在一畝畝的瓜田底下，覆蓋著一層薄膜，這正是大多農民都會使用的 PE 膜、銀灰膜、傳統地膜。在大家大快朵頤這沁心的消暑聖品時，卻不知產物背後所付出的代價正是我們分秒皆需的空氣！為什麼呢？傳統地膜常以聚氯乙烯（PVC）、聚乙烯（PE）及乙烯-醋酸乙烯（EVA）等原料為主，皆不屬於一般垃圾，亦不符合政府回收機制、回收業者也只收大面積耕地的膜……以上現象，迫使許多農民，只能現地直接焚毀、遺留於農田旁，因回收不完全，對農業生產和環境帶來極大的危害隱憂，稱作農田的「白色汙染」。

依據調查，每年殘存於田野、土壤、溝河中的塑膠薄膜至少占供應總量的 10%。廢棄在農田裡的農膜碎片及其他塑膠垃圾進入土壤後對農業的危害包括：破壞土壤結構、農作物產量減少、危害牲畜健康、殘膜燃燒造成空氣污染等。研究顯示：覆蓋傳統農膜達

5 年的表層土壤中，每公頃殘膜積累量高達 120 公斤，使作物減產 15%-30% 及土壤環境破壞。

鑒於此，國內複合塑料指標企業 - 喬福材料與政府相關研究單位共同開發出一款 100% 生物可分解農地膜，以可全分解塑料為基底，加入廢棄麥粕與微量特殊菌種，使農民只需翻土掩埋，3-4 個月內，即可於土壤中自行分解！此農膜除維持傳統地膜可抑制雜草的功能外，也能大幅提升土壤保濕、減少病蟲害及溫室氣體排放的效益，有助我國精緻農作品質及環境保護。預期產出成果除了可以減少農藥、肥料的使用量至少 10% 外，還能降低生產成本至 10% 以上。

歷經 3 年研究歷程，目前已進入最後的農作生長評估階段。在初期的實驗中，許多農民仍

抱著觀望：地膜可否只需翻土即可分解的懷疑心態；隨著農作物的收成，逐漸解除農民心中的疑惑！苗栗後龍西瓜農連先生表示：「在整體收成過程中，與傳統地膜相較，人力真的減少很多，且作物亦無差別，還是一樣甜！而且分解膜就可直接埋進土裡，自行分解，對整體環境來說，環保很多！我們也不需擔憂地膜要往哪丟，這是農耕者值得期待的耗材。」商品現今已取得相關專利與認證，並於今年 6 月量產於市。

另外，業者提醒消費者，市面上有許多標榜可崩解、可降解之產品，如塑膠袋、垃圾袋等，仔細看其生產成分，卻是以 PE、PVC 為基底的塑膠料，以上產品至多只能崩解為眼睛看不到的微小塑膠微粒，而不能完全分解為水與二氧化碳等無害物質。提醒消費者在購買此類產品時，可注意其成分是否以聚乳酸（Polylactic Acid; PLA）、聚己二酸 / 對苯二甲酸丁二醇酯 Poly（butyleneadipate-co-terephthalate）為基底，以避免買貴又當了危害生態環境的殺手！





2018年台北國際塑橡膠工業展覽 記者會 + 採購洽談會 現場實況

Taipei PLAS強調臺灣邁向智慧製造

本屆記者會由臺灣機械工業同業公會監事會召集人魏燦文、中華民國對外貿易協會展覽處處長黃漢唐、機械公會塑橡膠機械專委會會長王俊賢、副會長王誠與副會長謝樹林、秘書長王正青共同主持。現場說明，由於臺灣電腦科技、資訊網路與智慧感測元件的發展是突飛猛進，工業生產模式已進入工業 4.0 時代，塑橡膠產業機械也必須在節能減碳、綠能環保、低噪音、潔淨空間、提升精準度、預測故障、降低維修成本等方面，符合工業 4.0 的需要；臺灣產品持續在創新及研發上深獲國外買主青睞，從本屆展覽可以看到參展商因應智慧製造的趨勢，積極開拓全球市場，打造智慧機械、達成智慧製造、提供智慧服務為主要重點。

臺灣塑橡膠機械產業多年來在業界先進們的支持下，品質穩定、技術精良、服務快速，儼然成為臺灣精品的發聲者。本次記者會中

開放問答時間，媒體記者們詢問高度踴躍，討論從中美貿易大戰對臺灣的影響、針對全球禁塑令如何應對、工業 4.0 的人才培育是否能快速跟上腳步，以及中東市場開發狀況等問題，現場主持人針對問題一一回應。以禁塑令的角度，從製造方面就應避免浪費及塑膠原料的提升，另以循環經濟的概念，如何因應一次性使用產品的回收機制，講者都做完整回覆；關於人才方面也提及現今智慧機械發展需整合產、學、研單位，政府單位推出人才扎根計畫，由經濟部工業局、學校、企業三方共同開啟，讓企業有人才可用，學生學有所用所長，為產業共盡心力。

外貿協會於首日舉辦一對一採購洽談會，成功邀請 30 家國際買主，共舉行 90 場次，直接與參展商進行面對面洽談；受邀買主來自於美國、阿拉伯聯合大公國、土耳其、俄羅斯、羅馬尼亞、南非、

印度、墨西哥、烏克蘭、韓國、葡萄牙、德國等國。經現場國際買主的整體表示「臺灣製造」產品，仍然在國際市場上備受推崇，因其看好優質與高性價比產品，這些國際買主們當中許多都早已購買和使用臺灣機械的經驗，除了多數尋求機械產品的公司外，採購會上其他買主也分享了此行希望能從臺灣購買 PP、PE、mLLDPE 和其他原材料的目標；而這些買主表示展覽中沒有足夠的參展商供應原材料，並希望未來的 Taipei PLAS 可以有更多這樣的廠商。



射出成型設備 智慧聯網及應用發展

文：工業技術研究院 湯鈞汶

工研院積極關切國內智慧製造相關產業發展，故在經濟部技術處支持下，聯合多個智慧製造領域研究法人與學界單位共同成立並啟動「智慧製造聯網數據加值產業聯盟」，以孕育出一個跨產業 / 跨領域共通性智慧製造聯網平台，共同突破產業鏈上下游聯網整合問題，建立在地產業聯網數據加值的系統性解決方案，提昇產業合作效能並推展至國際市場。

於此，工研院配合此目標研發出兩款智慧機上盒，「工業用—基本型智慧機上盒」(Production Information Box; PI Box)，與「射出成型機專用智慧機上盒」(Injection

Molding Information Model Box; IM² Box)，讓廠商可以不需汰換全部設備，只要安裝上列機上盒，解決連線通訊問題，升級智慧製造不再是廠商的沉重負擔。

PI Box 是工研院針對一般業者所研發的智慧機上盒 (亦可用於射出成型機)，針對不具有控制器的設備，提供一個體積輕巧、易裝附於機台的機上盒，可連接各式類比與數位感測器，且內建資料庫，只需完成感測器接點安裝、網路線連結、網頁化設定等步驟，即可直接從感測器擷取資料，且可隨時透過專用軟體介面，掌握產線設備稼動率、能源監測、完工計量等管理運作。

IM² Box 則是因應國際客戶需求，由工研院與台灣自動化設備大廠「盟立自動化公司」合作，結合其射出機專用控制器研發而成。其中的資訊模型 (information model) 乃是基於國際通用的標準通訊架構 (OPC UA) 的標準連線方式，並符合歐洲塑料和橡膠工業機械製造商協會 EUROMAP 77 / 83 制定而成。此刻正與「富強鑫工業」共同合作整合測試機上盒，並規畫將此資訊模型導入 iMF4.0 (intelligent ManuFactory 4.0)，有助於廠商打開歐洲及中國大陸市場的大門。

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。

8/16
(Thu.)

時間	活動內容 / 講題	主持人 / 主講人	主辦單位	地點	備註
9:30 17:00	2018 年台北國際塑橡膠工業展 高峰論壇		外貿協會	台北南港展覽館 1 館 401 會議室	朱湘綺小姐 +886-2-27255200 #1576
10:00 10:50	射出成型設備 智慧聯網及應用發展介紹	工業技術研究院 機械與機電系統研究所 工業物聯網技術組製程聯網技術部 湯鈞汶 經理			
10:50 11:40	設備狀態監測與智慧診斷技術	工業技術研究院 機械與機電系統研究所 工業物聯網技術組預診決策技術部 王俊傑 經理			
13:00 13:30	高值塑膠材料技術 輕量化熱塑性碳纖維複合材料	塑膠工業技術發展中心 張修誠 博士			
13:30 14:30	高值塑膠材料技術 智能化塑膠新材料技術 綠色循環—綠色循環材料技術	塑膠工業技術發展中心 張凱捷 博士 李晨宇 博士			
14:30 15:10	塑膠機械的智慧機械組件介紹	工業技術研究院 機械與機電系統研究所 黃俊弘 副組長	外貿協會 機械公會	台北南港展覽館 1 館 402bc 會議室	張家蓁小姐 +886-2-23494666 #682
15:20 16:00	智慧機上盒 (SMB) 輔導計畫 暨設備聯網導入案例說明	財團法人精密機械研究發展中心 張乃文 經理			
16:00 16:40	2018 年全球機械領域新興 技術與產品展望	工業技術研究院 產業經濟與趨勢研究中心 熊治民 博士			
16:40 17:20	美國現場機械檢查服務介紹 與相關美國的塑膠機械標準簡介	台灣德國萊因 技術監護顧問股份有限公司 王文盛 副總經理 溫政道 經理			
17:20 18:00	協助台灣機械業邁入 數位時代及提升國際競爭力	施耐德電機股份有限公司 孫志強 總經理			
13:30 17:00	同心“鞋”力， 再造良“機”研討會		天尚精機科技 股份有限公司	台北南港展覽館 1 館 504a 會議室	紀明宏先生 +886-4-22870566



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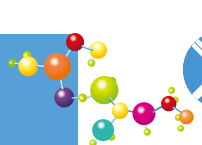
FCS DONGGUAN

+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

第一天累積參觀人數

國內人數 3,292

國外人數 1,132

總計 4,424

第2日

OPENING CEREMONY 2018 開幕典禮

ShoeTech Taipei
台北國際製鞋機械展

TAIPEI PLAS
台北國際塑橡膠工業展覽會



迎向塑橡膠製造新趨勢

Taipei PLAS暨ShoeTech Taipei 2018盛大開幕

第16屆「台北國際塑橡膠工業展 (Taipei PLAS)」及首屆「台北國際製鞋機械展 (ShoeTech Taipei)」於昨 (8/15) 日假台北南港展覽館1館舉行開幕儀式，現場邀請中華民國陳建仁副總統、立法院院長蘇嘉全、經濟部曾文生政務次長、經濟部國貿局楊珍妮局長、經濟部工業局楊志清副局長及多位貴賓和國內外產業菁英與國際公協會代表等

出席參與，兩展合計共有 533 家廠商參展，共使用 2,738 個攤位，為亞洲第三大展覽，提供給參觀者最完整的採購平台。今年 3 大趨勢以「智慧機械及智慧製造」、「環保科技」以及「創新材料」為展出主軸，以創造更大商機。現場副總統及與會嘉賓皆提出臺灣塑橡膠產業已從勞力密集的時代走向智慧機械，產業必須連結在地、連結國際、連結未來，

並朝向智慧化及高值化產品，方能帶動產業新趨勢；透過臺灣廠商的優質產品，足以證明 Taipei PLAS 於亞洲塑橡膠產業的領先地位。另外響應政府推動智慧機械產業政策及工業 4.0 趨勢，展覽期間首次辦理國際高峰論壇，針對智慧工廠、智慧製造等議題，分析最新產業趨勢，使業者即時掌握未來產業動向。

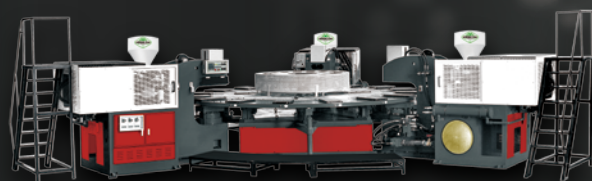


「2018 年台北國際塑橡膠工業展覽會」高峰論壇
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