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## 部長序文

中小企業是臺灣經濟的主體，依據《2016 年中小企業白皮書》資料顯示，2015 年臺灣中小企業有 138 萬 3,981 家，占全體企業 97.69%，較 2014 年增加 2.29%，創下近年來最高紀錄，而 2014 年中小企業研發經費較 2013 年成長 11.29%，顯見中小企業創新求變之旺盛企圖心，這股創新研發能量將成為中小企業無可取代之競爭力。



經濟部辦理「中小企業創新研究獎」已邁入第 23 屆，目的在於鼓勵中小企業自主從事創新研究發展、提升技術與服務水準，增強競爭力，迄今共有 3,809 件標的提出申請，歷屆已選出 801 件中小企業創新標的，歷屆得獎企業中已有 59 家中小企業上市上櫃、12 家興櫃、6 家公開發行及 7 家企業登錄創櫃板。今年共評選出 31 件優秀申請標的獲獎，獲獎標的創新技術多以節能、環保、資源有效再利用為出發點，獲獎企業中長期研發構想與營運等方面均有完整規畫，展現出臺灣中小企業持續且有系統性的擴充創新研發能量。

為因應國際競爭趨勢及協助企業升級，政府積極提供許多創新研發輔導及經費補助，期盼能帶動企業在創新研發方面的投入，包括辦理「協助傳統產業技術開發計畫」，提供傳統產業研發補助資金；「服務業創新研發計畫 (SIIR)」鼓勵服務業者積極投入新服務商品、新經營模式、新行銷模式及新商業應用技術之創新開發；「小型企業創新研發計畫 (SBIR)」鼓勵中小企業加強創新技術或產品的研發；另為完善中小企業融資體系，針對微型創新企業增設「創櫃板」，並開放民間業者申設群眾募資平台，提供新創企業取得資金的多元管道。

「創新」及「研發」是中小企業產業轉型升級發展的重要指標，也是促進經濟成長的基礎，期許得獎企業在進行創新研發之餘，更應掌握國際產業發展趨勢，運用創新優勢提升企業競爭力，朝永續經營目標邁進。

經濟部 部長

中華民國 105 年 11 月 18 日



# Foreword

Small and medium enterprises (SMEs) form the backbone of Taiwan's economy. According to the 2016 Small and Medium Enterprises White Paper, there were 1,383,981 SMEs in Taiwan in 2015, accounting for 97.69% of the total number of companies in the country, and representing an increase of 2.29% compared with the figure for 2014, the highest in recent years. Meanwhile, Taiwan SMEs' R&D expenditures in 2014 were up by 11.29% over the level for the previous year, indicating that such enterprises are devoting an ever larger share of their spending to the pursuit of innovation, which has become an indispensable element in maintaining their competitiveness.

The Ministry of Economic Affairs (MOEA) organizes the "Taiwan SMEs Innovation Award" with the aim of encouraging these enterprises to develop their innovative R&D capacity and improve their technology and service standards in order to boost their competitiveness. Since the award was established, a total of 801 of the most outstanding among the 3,809 entries have been selected as winners. Among the award-winning enterprises, 59 have become exchange-listed or OTC-listed companies, 12 have issued emerging stocks, six have made initial public offerings, and seven have registered on the Go Incubation Board for Startup and Acceleration Firms (GISA). For this year's 23<sup>rd</sup> SMEs Innovation Award, a total of 31 exceptional enterprises have been selected as winners. Many of these were awarded for development of innovative technologies featuring energy efficiency, eco-friendliness, and effective resource reuse. The award-winning firms have all developed comprehensive mid- and long-term R&D and operations plans, indicating that Taiwan's SMEs possess the capacity to systematically expand their innovative R&D and are actively utilizing this capacity.

In response to increasing global competition and in order to assist Taiwan enterprises in upgrading, the government actively provides various types of assistance and subsidies through a range of programs aimed at encouraging firms to devote more resources toward innovative R&D. Examples include the "Conventional Industry Technology Development (CITD) Program," which provides research subsidies to enterprises in traditional sectors; the "Service Industry Innovation Research (SIIR) Program," which encourages service-sector firms to invest in innovation and the development of new service products, operational models, marketing models, and business application technologies; and the "Small Business Innovation Research (SBIR) Program," which encourages SMEs to enhance their innovative technology and product R&D. In addition, the government has established GISA for innovative microenterprises and launched a public fundraising platform for private enterprises in order to provide comprehensive fundraising channels for start-up enterprises.

"Innovation" and "R&D" are keys to SME upgrading and development, as well as to stronger economic growth. So we congratulate all of this year's award-winning enterprises for their achievements while also encouraging them to continue actively engaging in innovative R&D, grasping global trends in industry development, and utilizing their innovative advantages to boost their international competitiveness and ensure enduring business success.



Minister  
Ministry of Economic Affairs  
NOV. 18, 2016





## ACME Machinery Industry Co., Ltd. 七信工業股份有限公司



### AM-ICD 智慧型輸送帶式高溫 定速染色機 AM-ICD Intelligent Conveyor Drive High Pressure Constant Speed Dyeing Machine

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#### ▼ 簡介

AM-ICD 染色機適合各種材質、組織之布匹，以節能減碳為設計主軸，以機械動力（輸送帶）取代傳統以大量用水帶動布匹循環，係革命性創新，世界首創，榮獲世界二十餘國百餘項專利，並經財團法人紡織產業綜合研究所現場評鑑證明可降低耗水量、蒸氣量、電量與化學助劑量 65% 以上，減少廢水及二氧化碳的排放量 65% 以上，以一台 300kg 之機器染針織棉布為例，每年可較傳統染機節省生產成本約 380 萬元，減少約 200 噸二氧化碳排放，大幅降低生產成本，協助改善環保問題，實踐綠色經濟。更採智慧化控制，促進工業 4.0，本機型勢必改寫染色機歷史，並開啟學術與產業界研究新領域。

#### ▼ 評語

- 本標的在於持續精進染色機之設計，以大幅節省水量、蒸氣量、汙水排放量、耗電量及助劑添加量等，邁向綠色生產的目標並大幅提高生產效率。
- 本標的創新技術包含以輸送帶取代水來帶動布匹，以布匹循環次數取代時間為控制參數等設計，大幅節省生產成本，且確保染色再現性。

#### ▼ Introduction

Instead of by a lot of water to circulate the fabric of a conventional dyeing machine, the AM-ICD machine is equipped with a conveyor to transport the fabrics, therefore, achieves its extreme low liquor ratio 1: 2.5~3.5, that means value added with environmentally friendly, therefore, achieving green economy. The Taiwan Textile Research Institute has proved that it can save water, steam, energy, chemical consumption and effluent by more than 65%. A 300kg AM-ICD machine can save the producing cost at least USD 125,000 for the Cotton with spandex knitted fabrics and minimize carbon emissions 200,000 kg per year compare with the conventional dyeing machines.

Since it is an revolutionary innovation, the first and only one in the world, it gets worldwide invention patents. No doubt this model m/c will be the new generation dyeing m/c. The dyeing machine history will be rewrote and new scope of academic / industry research will be opened from now on.

#### ▼ Commentary

- The project is to improve the design of dyeing in order to significantly reduce water, steam, waste water emissions, power consumption, and additives to achieve green production and to improve production efficiency.
- The innovative technology of this project includes using conveyors instead of water to drive the cloth, and using the number of cloth cycles to replace the time for the control parameters. All these substantially reduce production costs and ensure reproducibility of the dyed color.



# JOSN JOSN Electronic Co., Ltd. 九晟電子股份有限公司

## ▼ 簡介

本標的 (TD1800) 為全球首款唯一擁有輪胎異常振動偵測功能的胎壓偵測器，並取得多國專利。除可測胎壓胎溫外，亦可檢知胎面剝離、輪胎變形、輪胎附著異物、安裝不良、鋁圈變形等問題，更具有下列特點：

- 一、獨家射頻技術，抗干擾性更強。
- 二、液晶彩屏動態顯示，接收器可免接電源。
- 三、獨家低耗能，24 小時全時偵測。
- 四、感測器可換電池，符合環保及降低成本。
- 五、可做成專用模組，結合行車記錄器、導航系統等其他車用設備，增加車用裝備的產品附加價值。

## ▼ 評語

本標的為全球唯一加入「輪胎異常震動」偵測功能之胎壓偵測器，利用一般胎壓偵測器本已內建之加速度計，便能分析輪胎之狀況是否異常（例如是否變形或附著異物），對於行車安全性之確保有極大幫助。本標的功能特色豐富，創新性高且獲多項專利，市場前景頗佳。

## ▼ Introduction

Tire pressure vibration monitoring system is the world first and only TPMS that can detect tire and rim abnormal, its already patents in multiple countries.

Most of the TPMS on the markets today can detect pressure and temperature of the tire only, we have developed core microprocessor chip that can offer more functions. This is a one of kind technology TPVMS V stand for "Vibration". This feature is by using of six-way triaxial vibration sensor, mathematical calculus analysis, over years of development and testing, this TPVMS is cable of detect tire tread peeling, tire crack or fetal tire deformation, poor installation, aluminum rim deformation and other issues..., and these problems will cause a decline in the ability to control of the vehicle, increasing the risk of driving in danger.

## ▼ Commentary

This is the world's only tire pressure detector that incorporates the "abnormal tire vibration" detection function. It uses the built-in accelerometer of a conventional tire pressure detector to analyze the condition of the tire and to determine if there is any abnormality, such as deformation or adhesion of foreign objects. This is a great help in enhancing safety in driving. It features rich, high innovation and access to a number of patents, the market is quite good.



## 輪胎異常偵測系統 Wireless Tire Pressure Vibration Monitoring System

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DA.AI Technology Co., Ltd.

# 大愛感恩科技股份有限公司

## ▼ 簡介

台灣是紡織大國，但生產後的廢棄紡織品大多直接付費丟棄，對環境造成相當大的負擔，因此大愛感恩科技全心投入研究「廢棄紡織品回收再製回原料」，並進一步再製回全新產品的製程。

目前大愛感恩科技已經成功的將廢棄毛毯下腳料回收，研發出 100% 廢織物再製的 R2R® PET 酯粒，並且抽紗再製回 100% R2R® 刷毛布，開發出一系列的 R2R® 環保刷毛系列產品，包含毛毯、背心和圍巾，其中背心所使用的塑鋼拉鍊，也是由 R2R®PET 酯粒製造而成的！

原料由廢棄毛毯經物理法熔融再製，真正實踐低能耗、低汙染、具經濟價值的綠色工業封閉循環環保產品。這項技術已取得台灣及中國大陸專利，賦予廢棄紡織品全新生命，也讓大愛感恩從「減廢」朝著「零廢」邁進一大步。

## ▼ 評語

- 本標的以廢棄紡織品，利用物理法直接加熱熔融製出可以直接抽出長纖等級的回收酯粒，藉此回收、改質、造粒、紡絲製程，開發出刷毛布，製成毛毯、背心等產品，實踐了 R2R(回收再回收)的環保理念。
- 因應全球環保、回收、再利用的紡織品發展趨勢，本標的具有成本低、高附加價值的競爭優勢，可推廣運用於國外。

## ▼ Introduction

Taiwan textile industry creates 15 to 20 tons of disposal fabric from yearly manufacturing, and causes a great impact to the environment. Thus, DA.AI took a meaningful step in 2012 to establish its R&D department to further look into new possibility based on the Cradle to Cradle® design model. With years of development, DA.AI has successfully recycled and turned disposed fabric back to its PET chip form, and thus, new eco fabric and blanket are possible. We named it "Recycle to Recycle® (R2R®) PET chip" and "R2R® PET DA.AI eco fabric."

DA.AI's R2R Series products include glasses frame, mouth cover, blanket, scarf, and vest, including its zipper. Moreover, this technique is patented in, which officially moves DA.AI from a "waste reduction" green brand into "zero waste" global green role model.

## ▼ Commentary

- The project is to use direct physical heating of textile wastage to create recycled resins that can be made into long fiber. Through recycling, texture-changing, granulation and spinning process, it creates fleece for blankets, vests and other products. It realized the environmental idea of recycle and recycle.
- The project is in-line with the global trend of environmental protection, recycling and reuse of textile products. The project has low cost and high added value. These competitive advantages can be marketed to overseas.



## 大愛感恩R2R® 刷毛系列產品 Recycle to Recycle (R2R®) Series

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# earnino Taiwan Earning Co., Ltd. 台灣恩寧股份有限公司

## ▼ 簡介

本公司產品鎖定嶄新藍海市場「寵物腫瘤臨床醫學」。根據多國臨床統計，寵物犬貓的第一致死病因是惡性腫瘤，七歲以上的寵物犬貓近半數（47%）死於惡性腫瘤；腫瘤也是飼主最關注的健康問題。面對棘手的腫瘤問題，臨床醫療選項卻是相當有限，目前仍以外科為主要手段，術後搭配的放療或化療資源卻不易取得，藥物療效有限，使得許多罹癌寵物無法獲得完整有效的治療。「腫瘤熱消融」是一種物理性療程，操作醫療器材提升腫瘤溫度造成不可逆細胞凋亡以達到治療目的。熱消融獨特之處在於，腫瘤壞死過程會釋放腫瘤特有抗原，特有抗原會激發免疫細胞並透過交互作用逐漸產生「抗腫瘤免疫力」攻擊腫瘤。

## ▼ 評語

本標的開發寵物用腫瘤熱消融系統，可以精準地提升腫瘤內部溫度達致死溫度（ $>45^{\circ}\text{C}$ ）並持續數分鐘，造成不可逆的細胞凋亡，以達治療效果，對寵物體表之腫瘤進行熱消融處理，目前已累積超過 200 個臨床案例，此系統已設計成一套設備，可以直接銷售至獸醫醫院或診所，具應用市場潛力。

## ▼ Introduction

Our product and business strategy aim towards an emerging market of veterinary oncology. Based on studies of clinical statistics in multi-national research, the malignant tumor, as known as cancer, tops the cause of mortality in pets. As high as 47% of pets above 7-year-old could die on cancer, raising the most concerns and issue of healthcare for pet owners. Controversially, medical options for veterinary oncology is limited. Surgery is the principal and most predominant option, however, subsequent therapies such as radiation therapy and chemotherapy is deficient in availability whereas poor quality of treatment may result in incompleteness and insufficient treatment to patients. Clinical needs of veterinary oncology is not yet fulfilled from the perspective of medical domain. Thermoablation is a modality and is performed by elevating core temperature of tumor to cause comprehensive necrosis within. Standing as an unique aspect of the process, ablated and dying tumor is found to release tumor-associated antigens to excites the immune cells. Which effect could cause anti-tumor immunity to gradually form and be enhanced by following cell-cell interactions. The tumor then is facing combined stress of thermoablation and immune response, enhancing the quality of treatment.

## ▼ Commentary

The project developed the thermoablation system of tumors for pets. It can accurately increase the temperature inside the tumor to lethal temperature ( $> 45^{\circ}\text{C}$ ) and sustain for a few minutes to achieve irreversible apoptosis for therapeutic effect on the surface of the pet's body. It has accumulated more than 200 clinical cases. The system has been designed as a set of equipment which can be sold directly to veterinary hospitals or clinics. It has market application potential.



寵物用腫瘤熱消融系統  
Thermoablation System of  
Veterinary Oncology

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HEARTWAY Heartway Medical Products Co., Ltd.

# 台灣維順工業股份有限公司



## ▼ 簡介

本產品是提供給脊髓損傷人士的行動輔助工具；主要訴求尊重人性、安全舒適、符合人體工學、堅固高輕量化、專利式收折車架及專利式前輪角度調整與全方位可調，針對脊髓損傷或無法獨立依靠自身能力行動，上肢有操控能力的使用者而設計的。本產品主要功能為協助脊髓損傷患者自立自強，提升家庭、社會、休閒生活、自尊，進而增加生活品質，並減少國家、社會之負擔與損失，化依賴為自立，使其早日達成自我重建的目標，藉由工作帶來經濟安定、自我實現與人際關係等，進而回歸社會，活出自信與尊嚴。

## ▼ 評語

本標的可快速收折，具有特殊駕照者或使用欲開車時，亦可自行收折上車，無需他人協助，且其背靠構造具多功能角度微調設置，符合人體工學之舒適性要求。與國內外相關競爭者比較，其玻璃纖維組架、車輪裝卸、煞車操作方式等設計考量上，具有輕便、安全與美觀之創新特色。

## ▼ Introduction

The Heartway HW6 lightweight foldable wheelchair not only has all the benefits of a foldable wheelchair with no compromises in term of rigidity, but also has two innovative patents: a horizontal cross-brace with unique shape, seagull-like, that fits under the seat it is barely noticeable –giving an open-frame feel that you would usually associate with a rigid wheelchair. Additionally, lightweight forged front casters offer a stylish look with height and angle adjustability. With a well-executed construction, the foldable foot-plate provides the end-users with high level of easier storage and transportation. The HW6 is equipped with the anti-pinch-point manual hand brake, the front bumper rolling guards, and the rear adjustable anti-tipper. By combining ergo engineering concepts with carbon fiber technology, giving the advantages of the high vibration dampening characteristics of carbon fiber materials, the HW6 delivers an ultra lightweight frame and hand-rim that weights as little as 7.5 kg and maximizes the end-users' speed with every push. The HW6 not only provides the end-users with the quick-released carbon fiber rear wheels with the central of gravity adjustability, but also has a backrest attachment, including a backward angle adjustable from 85 to 102 degree in just one handling. Size-wise, the HW6 allows the frame to greatly reduce in size and backrest to fold on the top of the seat. These features are "must have" advantages for the user who chooses a folding chair.

## ▼ Commentary

The product can be folded quickly. Drivers with special driving licenses or product users can fold the product by themselves when getting onto the car. The back-support of the product can be adjusted to various angle. It is in-line with ergonomic needs for comfort. When compared with domestic and international competitors, it is innovative, light, safe and beautiful with a glass fiber frame, wheel-loading and unloading function and brake function.

## 可收折式高活動型手動輪椅 翹翹 HW6 Foldable Active Wheelchair Adventurer HW6

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UHT Unitech Co., Ltd.

# 永虹先進材料股份有限公司

## ▼ 簡介

因應全球碳纖維市場競爭激烈，低成本的碳纖維生產技術是全球矚目的焦點；永虹的微波超高溫石墨化技術 (MW-UHT)，即是透過微波技術直接對碳纖維內部加熱，有別於傳統電熱式高溫爐系統是由外部加熱碳纖維，本技術可以有效縮短 50% 的加熱時間，進而降低 30% 生產成本。永虹所開發的新一代石墨化關鍵技術，不僅技術領先國際，更延伸世界獨有創新的商業模式，可針對不同領域之產業需求，客製化調整碳纖維規格。

申請標的 UM30-48K 大絲束中模數碳纖維，即是結合專利超高溫石墨化技術、業界首創及客製化等特色所開發之產品。

## ▼ 評語

本標的創新性包含超高溫石墨化技術、大絲束碳纖維石墨化技術、sizing 配方技術、分捲捲紗技術、樹脂含浸改善以及物性檢測認證等，在碳纖維製作過程中，可針對使用者各類需求調整，達成客製化目標，相關專利佈局完整，極具國際競爭力，可應用於汽車、航太、及能源相關產業，國內外市場及未來潛力極大。

## ▼ Introduction

In response to the competition of the global carbon fiber market, most of the carbon fiber suppliers to seize the market by development of low-cost carbon fiber. UHT's patented microwave graphitization technology is to use microwave to heat the internal of carbon fiber directly. It's different from the traditional electric heating furnace system which is to heat the carbon fiber externally. This technology can shorten the heating time effectively by 50% off, thereby reducing the production cost by 30% off. UHT developed a new graphitization furnace key technology to become the leader in this area around the world. Furthermore, UHT create a new business model to customize carbon fiber for vary requirements on different specifications.

The application UM30-48K Large-Tow Intermediate Modulus Carbon Fiber is the combination of our patented graphitization technology and customized service to make us become the first one in the carbon fiber supply field.

## ▼ Commentary

The innovations of this project include ultra-high temperature graphitization, large-two carbon fiber graphitization, sizing formulation, sub-volume yarn-winding, improved resin impregnation and physical testing and certification. It can be adjusted according to needs in the production of carbon fiber and to achieve customized results. The layout of the patent is comprehensive, and it is highly competitive in the international market. It can be used in automobile, aerospace, and energy-related industries. It has great domestic and international market potentials in the future.



## 中模數大絲束碳纖維產品開發技術

## Large-Tow Intermediate Modulus Carbon Fiber Development Technology

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EPF Hobby Co., Ltd.

# 伊比虎模型有限公司

## ▼ 簡介

電動噴射引擎：

目前主要用於模型飛機動力、無人機動力、多軸機動力、單人航空器。

特色：

1. 全機使用 6061-T6 鋁合金，材質強韌。
2. 一體式設計，三顆高速軸承做架構。
3. 8~12 葉高效率鋁合金葉片設計。
4. 雙氣流馬達冷卻系統在 15~20 秒內降至室溫。
5. 3 萬轉的高速動態平衡。
6. 設計簡化易維修，無須過多的周邊檢修設備。

## ▼ 評語

- 本標的主要在改善電動噴射引擎之推力、噪音、散熱等功能及減輕重量，增加安全性以提升競爭力。
- 本標的創新技術係以三顆高速軸承為架構，搭配 8~12 葉鋁合金葉片加上雙氣流馬達冷卻系統，且全機使用航太 T6 鋁合金材質一體式設計，以降低整體重量增加散熱效果提高推力。

## ▼ Introduction

E-Jet Engine :

At present, mainly used for model aircraft power, UAV power, multi-axis power, single aviation equipment.

Features:

1. Full Alloy Design(6061-T6).
2. One-piece design and three high-quality bearing structure.
3. High Precision CNC Cutting Rotator and 8~12 Blade.
4. Turbo Innercooling System let Motor down to room temperature within 15~20 seconds.
5. 30000RPM Hight Speed Dynamitic Motor and Fan balance adjustment.
6. Simple and easy to maintain.

## ▼ Commentary

- The product is mainly to improve the thrust, noise, heat and other functions of the electric jet engine, and to reduce the weight and enhance safety to increase competitiveness.
- The innovative technologies of this product are based on three high-speed bearings with 8 to 12 aluminum alloy blades and dual-airflow motor cooling system. The whole product uses aerospace T6 aluminum alloy and integrated design to reduce overall weight, increase heat dissipation and thrust.



## 電動噴射引擎 E-Jet Engine

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ICEWOODS ICEWOODS Digital Technology Co., Ltd.

# 冰河森林數位科技股份有限公司

## ▼ 簡介

冰河森林數位科技之雲服務累積多年耕耘，自行研發，獲 ISO 27001:2013；CNS27001:2014 資安認證，核心能力為提供 Online Travel Agency 與電商的多渠道雙向同步管理服務以及雲端移動服務，成立智慧資訊交換中心平臺。特色為專注在旅遊與電商領域的即時雙向移動同步雲科技服務解決方案：

【旅遊】：旅宿房間銷售智慧控管、票券庫存控管

【電商】：跨境電商整合與上下架多渠道即時雙向同步

解決問題：(1) 解決多渠道管時庫存不精準問題；透過智慧即時自動同步，不須變動庫存修改，解決超賣困擾；(2) 增加管理效能，降低營銷成本；(3) 降低跨境交易多平臺與多渠道服務管理門檻；(4) 提供亞洲領先同步移動服務。

## ▼ 評語

本標的為一平臺，提供雙向同步 channel manager 及移動雲等服務，使中小型旅宿業者，方便與精準管理其住宿房間之庫存及去庫存，並可積極推動促銷。可減少庫存不精準與超賣之困擾及降低跨境交易多平台與服務的管理門檻。研發重點在於低資安風險、App 智慧多渠道自動開與關及儲存控制自動化及 App 設計等。

## ▼ Introduction

Smart e-Travel and SME Multichannel Sync up: (((ECho))) System

(((ECho))) System gives a reliable and real time bi-way multi-channel management applied in social media and e-commerce. With the power of internet and innovation, we offer service that based on open system architecture to solve sync-up problems and dedicated to hi-tech cloud platform. Moreover, we become one of the very few virtual service providers in mobile channel manager service and BRANDS to lead our customer to enhance the view of global market.

Our latest products about (((ECho))) System are ECho Cloud Boss APP and ECho Jumper APP. ECho Cloud Boss APP is widely applied in rooms and reservations management in Online Travel Agency(OTA), used by hotel owners and operators, on the other hand, ECho Jumper is designed to offer 3-in-1 application that combines vehicle rental, hotel reservations and coupon, and world-wide travel virtual service with e-commerce mobile platform.

According to the data last year, there are more than 500 hotels, Resort, B&B, SME linked this system in Asia and Taiwan.

## ▼ Commentary

The project is a platform that provides two-way synchronization channel managers and mobile cloud services for small and medium-sized hostel businesses to conveniently and accurately manage their room inventory and to reduce inventory. It can also help in sales promotion. It can reduce the problem of inaccurate inventory and overselling, and reduce the threshold of cross-border trading platform and service management. The research and development focus on low capital risk, intelligent multi-channel automatic open and read, and storage control automation app, app design, etc.



冰河森林智慧旅遊 ECHO迴聲  
移動雲端資訊管理暨資料交換  
平臺系統  
Smart e-Travel Exchange  
Platform+ (((ECho))) Mobile  
System

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## Chen Ya Resources Technology Corp. 成亞資源科技股份有限公司

### ▼ 簡介

太陽能產業的生產製程中會產生矽泥副產物，由成亞研發的矽泥加工技術，可以百分百將矽泥製造成為矽錠產品，供應給煉鋼廠作為冶煉的增矽劑使用。替煉鋼廠節省成本，減少對進口矽鐵的依賴。

成亞的矽錠在製造過程中沒有再衍生任何其他的廢棄物，技術創新兼顧綠色環保，為太陽能產業的矽泥副產物提供一個資源化的良好對策。同時也造就出太陽能產業跟鋼鐵業之間的靜脈工業循環，成為落實循環台灣的新典範。

### ▼ 評語

本標的讓台灣的矽泥二次資源得以有效商品化，從原本無專門用途或者廢棄物處置，到目前每個月約 200 噸的去化，資源再利用率可達二成，對太陽能產業矽泥的再利用處理廠跟煉鋼廠之間，建立了新的靜脈供應鏈，連結兩個不同產業的供需，對台灣整體的資源化再利用更往前邁進一大步。

### ▼ Introduction

The by-product coming out of the manufacturing process of solar panels is called silicon sludge, which now can be processed through the technology developed by Chen Ya Resources Technology Corp. and can be turned into silicon briquettes at 100% production yield. Those briquettes not only are a whole new application to the steel industry but also serve as an effective additive to enhance the smelting process as well. More importantly, the use of the briquettes can substantially reduce the production cost for the steel industry and hence allow lower dependency on the imported ferrosilicon.

The production of silicon briquettes at Chen Ya Resources Technology Corp. generates no further industrial wastes and provides an environmentally friendly solution to silicon sludge, thanks to the in-house technological innovation. In the meantime, this cross-industry solution helps complete the industrial cycle and builds up the norm for circular economy in Taiwan.

### ▼ Commentary

This project enables Taiwan's secondary resource - siliceous sludge - to be effectively commercialized. Originally, the resource had no special use and it was disposed of as waste. Now, about 200 tons per month is being re-utilized. The reuse rate is up to 20%. It has established a new vein supply chain between the siliceous sludge from the solar industry, the recycling treatment plants and the steel-making plants. It connects the supply and demand of two different industries and pushes the overall recycling industry of Taiwan substantially forward.



### 矽錠 Silicon Briquettes

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AirSig Technology Co., Ltd.

# 艾爾希格科技股份有限公司

## ▼ 簡介

「空中簽名生物辨識技術」為艾爾希格科技獨家開發擁有核心演算法技術，此技術透過內建於行動裝置的感測器取得終端用戶手持裝置在空中書寫動作的各項感測數值，如書寫速度、書寫軌跡、手腕旋轉角度及書寫力道等等特徵，將其轉換成空中簽名，藉以辨識與驗證使用者的身份，並觸發後續的相關指令，例如登入網路服務、執行特殊程式功能、通過門禁系統、進行資料保全、行動支付等等，可滿足各式新興行動服務所需的安全驗證需求。此技術不僅為全球第一個兼具身份辨識和快捷控制的技術，還具有高安全性、高準確度、高便利性與低成本的多重優勢。

## ▼ 評語

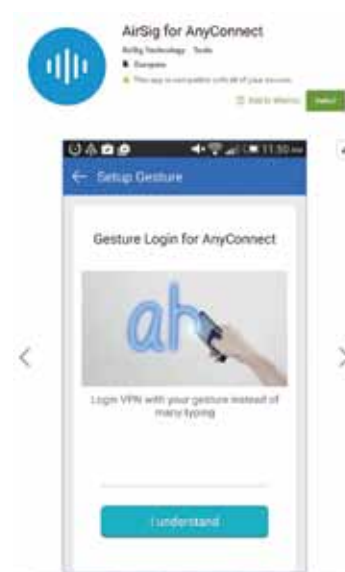
本標的兼具獨步全球之「身分辨識」和「快捷控制」技術，為純軟體解決方案，僅利用目前行動裝置均有搭載的感測器，不須搭配額外的特殊硬體元件，應用成本低，可以快速大量的佈署於各種系統中，具高安全性、高準確度及便利性，目前是全球唯一的產品，創新性極高。

## ▼ Introduction

"Air Signature Biometric Identification Technology" is an algorithm independently developed by AirSig Technology. This technology captures multiple sensor values when a user holds a handheld device and writes in the air, including writing speeds, tracks, wrist tilting angles, strengths, etc., transforms those values into an air signature for identifying and authenticating the user, and may optionally trigger specific functions upon the authentication, such as logging in web services, executing programs, passing access controls, performing mobile payments, etc. It is not only the world's first technology that offers both the identity authentication and the quick control, but possesses multiple advantages of outstanding security, great accuracy, remarkable convenience and low costs.

## ▼ Commentary

The project has a unique combination of "identity identification" and "fast control" technology. It is a pure software solution that utilizes only the sensors currently equipped on mobile devices. It does not need any special additional hardware. The cost of the application is low, and it can be quickly deployed in all kinds of systems. It has high security and high accuracy, and it is convenient. It is currently the world's only product, and it is highly innovative.



## 空中簽名生物辨識技術 Air Signature Biometric Identification Technology

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## Innovative & Superior Technology Inc. 宏傑科技股份有限公司



LED 檯燈燈泡  
LED Desk Lamp Bulb

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### ▼ 簡介

宏傑科技多年來致力於 LED 照明產業並深具環保信念，歷經數年終研發出可替換式 LED 檯燈燈泡，使 LED 檯燈更換燈泡與回收不再困難。LED 檯燈燈泡於 2015 年 4 月通過 SGS、ETC 與 BSMI 認證，為全國第一支通過認證的 LED 檯燈燈泡，且擁有 6 個國家 7 個專利，市場專利佈局完整。創新特色如下：

- 可調整光的方向
- 均光
- 無疊影
- 僅須更換燈泡，不需整台回收
- 材質皆採經 Rohs 認證的材料
- 焊接用的錫料採無鉛
- 易拆解設計 - 零組件容易分類回收
- 依各國需求更換為不同接頭
- 其他技術如智慧型、漸亮漸滅、多段式功能皆已具備

### ▼ 評語

本標的之光學結構技術增加了光照度，降低了能源浪費，同時運用最少零件創造出符合規格的照明，除大幅降低成本外，亦減少零件的廢棄，更環保。也因使用較少顆 LED，大大降低因熱所造成的 LED 光衰問題，且光學設計減少因多顆 LED 所造成的疊影現象，本標的符合輕、薄、短、小趨勢，在市場上有差異的利基點。

### ▼ Introduction

ISTI is committed to LED lighting industry for years, and finally developed the replaceable LED desk lamp bulb. It has passed SGS, ETC and BSMI certification in 2015 and became the first certified LED desk lamp light bulb in Taiwan. Moreover, it obtains 7 patents from 6 countries. The features are following:

- Adjustable lighting direction.
- Light output with no obvious halo and no overlapped shadows.
- Only need to change the light bulb when it is broken.
- Use Rohs certified materials.
- Welding by no lead-containing Tin.
- Design of easy to recycle.
- Change connectors to meet various countries' requirements.
- It can append to functions such as smart lighting, gradually brightness adjustment and multi-segment brightness adjustment.

### ▼ Commentary

The optical structure technology of this product increases illumination and reduces the waste of energy. It also creates lighting conforming to the specifications with the least number of parts. Besides reducing a large part of the cost, it also reduces the waste of the parts and it is more environmentally-friendly. Since it uses fewer LED bulbs, it greatly reduces the LED light failure problem caused by heat. Optical design also reduces the LED shadow phenomenon caused by multiple LED bulbs. The product is in-line with the light, thin, short and small trend in the market and it has its niche.



# APEC Asia Pacific Elite Corporation 亞太菁英股份有限公司

## ▼ 簡介

航太發動機機匣五軸加工中心機 MDU-2000W，是專為航太發動機機匣加工所研發設計的機型，可執行五軸同動重切削與精密加工，適合航空發動機機匣 (turbine casing)、轉定子環形件 (rotor & stator ring parts)、整體葉盤 (Blisk) 之高溫鎳基合金與鈦合金材料的加工。

1. 國內唯一成功開發動發航太機匣五軸加工中心機。
2. 特殊緊湊搖擺頭設計。
3. 同時具有 W 軸與 Z 軸的加工軸能力，滿足各種不同形式機匣的加工需求。
4. 四面包覆硬軌滑枕設計。
5. W 軸採用伺服比例閥配重設計。
6. 運用 roller-gear cam 技術於 C 軸轉台，其精度、剛性優於傳統 Worm-gear 30% 以上。
7. 自動交換工作台系統與彈性製造系統 FMS。
8. 智慧製造對應：生產管理、機台診斷、刀具管理等。

## ▼ 評語

本標的在於解決航太發動機機匣現有機具加工時搖擺頭搭配旋轉工作台只能做外部加工，內部加工需要加附加頭，無法自動化生產降低生產效率的瓶頸。創新技術包括可內外加工機匣之搖擺頭設計，四面包覆硬軌滑枕設計，自動交換工作台與彈性製造系統等，可提升切削剛性、穩定性與機台稼動率。

## ▼ Introduction

Aircraft turbine casing 5-axis machining center MDU-2000W, is designed specinlly for Aircraft engine part machining, it also can be performed simultaneously with heavy duty and 5 axis precise machining, fit for turbine casing, rotor& stator ring parts, Blisk of Nickel-based alloy and Titanium.

1. The only successful development in aero engine casing of 5 axis machining center in Taiwan
2. Special compact swivel head design
3. With W axis and Z axis design , fit for different types of machining in engine casing.
4. Full 4 box-way deign on RAM to increase rigidity and dmping effect.
5. W-axis with counterweight system design.
6. Using roller -gear cam technology in c axis , accuracy and rigidity better than worm-gear 30% up.
7. Auto pallet exchange system and FMS available.
8. Intelligent manufacturing correspondence: production management, machine diagnosis, tool management.

## ▼ Commentary

The product is to solve the issue in the existing processing tools of aerospace engine casings: the rotating head with a rotating table can only perform external processing. An additional head is needed for internal processing. This reduces production efficiency and creates a bottleneck. Production cannot be automatized. The innovative technology of this product created a rotating head which can perform both external and internal processing. It has a four-sided coated hard rail ram, and it provides automatic table-changing, flexible manufacturing system, etc. It can enhance the cutting strength, stability and machine mobility.



航太發動機機匣五軸加工中心機  
MDU-2000W  
Heavy Duty 5-axis Machining  
Center MDU-2000W For Aero-  
engine Turbine Casing Machining

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# 和鑫生技開發股份有限公司



## ▼ 簡介

因應全球牙科電腦斷層設備要求低輻射劑量及高品質影像之發展趨勢，本穿透式牙科電腦斷層用 X 光模組 (50% 超低輻射) 產品以創新技術顛覆傳統作法，從根本的核心元件 -X 光源著手，大幅度地降低輻射劑量。

- (1) 全世界唯一利用於醫療診斷影像之穿透式 X 光模組
- (2) 低輻射吸收劑量：可降低 50% 以上
- (3) 高解析度：比傳統反射式 X 光管高出 10%
- (4) 複合靶特性：可將無效雜訊 X 光減到最低
- (5) 寬光角：相同距離之下，視野範圍面積大 2 倍
- (6) 快穩脈衝技術：每一發脈衝之 X 光輸出劑量穩定度提升 2 倍

## ▼ 評語

本標的在相同解析度下，所需的輻射照度可大為減少 (單張降低 50% 以上劑量)，另外在解析度及最大出光角度上亦具優勢。大部分的關鍵零組件皆在台灣自製，已累積超過 20 件多件的專利，具技術的優勢。待與醫療器材大廠合作，共同進入醫療院所，一旦能獲得大廠支持，具市場的競爭力。

## ▼ Introduction

In response to the current trend of low dose and high quality image in the Dental Cone Beam Computed Tomography (CBCT) development, NanoRay's Transmission X-ray module has subverted the traditional practice with innovative technology to reduce dose significantly from the X-ray resource.

- (1) World's only Transmission X-ray module adopted in Medical Imaging.
- (2) Low Dose: 50% lower than the conventional X-ray.
- (3) High Image Contrast: 10% higher than the conventional X-ray.
- (4) Multiple Targets: minimize the X-ray noise.
- (5) Wide Angle: make field of view area 2 times larger than the conventional X-ray under the same distance.
- (6) Fast and Steady Pulse Mode: upgrade the stability of X-ray output dose to 2 times during each pulse.

## ▼ Commentary

The technology greatly reduced (by more than 50% for leaflets) the radiation illumination required for the same resolution. It also has advantages on resolution and maximum light angle. Most of the key components are made by the company itself in Taiwan. It has accumulated patents for more than 20 components. It has a technical advantage. When it cooperates with large medical equipment manufacturers, it will gain access into medical institutions. It will have market competitiveness after gaining the support of large manufacturers.

穿透式牙科電腦斷層用X光模  
組(50% 超低輻射)  
Transmission X-ray Module  
for Dental CBCT(Ultra Low  
Dose 50% off)

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# 偉裕生技股份有限公司

## ▼ 簡介

銀耳 (*Tremella fuciformis* Berk.) 又稱白木耳，為一種可食用之膠質真菌。銀耳多醣體具有養生、美容、保健及防癌等功效。偉裕生技股份有限公司與亞洲大學菇類研究中心產學合作，並向亞洲大學林俊義教授技轉銀耳環控生產技術，量產有機新鮮銀耳。本標的創新作法為建立全球首創之「銀耳自動化環控栽培技術」植物工廠，開發銀耳栽培專利容器搭配自製研發之自動化生產機械，在台灣可量化生產供應新鮮有機銀耳，取代市場進口之具農藥殘毒高風險之大陸進口乾貨，並可常年栽培不受氣候及病蟲害影響。銀耳經亞洲大學食藥用菇類研究中心及中國醫藥大學動物試驗可以提高老鼠免疫力及促進腸道益菌數增加，可做為保濕化妝品及生醫材料，亦可開發多種加工產品、飲品等保健產品。

## ▼ 評語

本標的開發有機銀耳的環控量產技術，建立全球第一座有機銀耳自動化環控植物工廠，並於 2015 年開始量產，目前月產 12 萬瓶，運用菌種栽培技術及環控生產管理技術，首度將銀耳生產量產化，可以穩定且大量的供應市場需求，未來的市場需求仍不斷提升，具有行銷國外的優勢競爭力。

## ▼ Introduction

Silver ear mushroom (*Tremella fuciformis*) containing rich nutrients and polysaccharides is the important healthy food in the world. Most of silver ear mushroom in Taiwan was imported from Mainland, China which was highly spread with pesticides and treated with SO<sub>2</sub> for controlling diseases and insects. Well-youth Biotech Co. cooperated and transferred the production techniques of *Tremella fuciformis* from teams of Dr. Chien-yih Lin's lab in Asia University. This company already established the first automatic production factory of *Tremella fuciformis* in the world, and developed a new key method for year round and non-pesticide organic fruiting bodies, its polysaccharides could promote the growth of good bacteria in intestine, and also be used as moisturizing cosmetics and biomedical materials or beverages, health care products, etc.

## ▼ Commentary

The project is on the development of controlled-environment mass production technology of organic *Tremella*. It has created the world's first automatic environment-controlled organic *Tremella* plant. It has started mass production in 2015. It uses bacteria cultivation technology and environment-controlled production technology to mass produce *Tremella* for the first time. Currently it produces 120,000 bottles per month. It can provide a large-scale and stable supply for market demand. Market demand is still rising. It also has competitiveness for selling in overseas markets.



## 環控量產有機銀耳 Organic *Tremella fuciformis* Berk

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**kotai** Kotai Tannery Co., Ltd.  
Kotai Tannery Co., Ltd.

# 國泰皮革工業股份有限公司

## ▼ 簡介

台灣出口的魚肉產品以台灣鯛為最大宗，每年數萬噸的魚皮被當成下腳料來處理。其實魚皮有比做成動物飼料更具經濟價值的用途 - 例如把它們作成美麗的魚革。

我們以創新的「環保清潔製程」來挑戰纖細的魚皮纖維，成功鞣製出堅韌、無味且純淨無斑的魚革。

青花魚是一件以青花瓷為設計概念的作品。外觀：將魚皮代替瓷器胚，植物藍染代替鈷藍，以真實的魚鱗代替繪製的紋飾，最後再以仿瓷器的釉面處理，呈現出青花瓷器精緻。越來越多的設計師將魚皮認真的作為一種有吸引力且環保的材料來運用。青花魚也將高端時尚帶到更高目的 - 改變人類生活。

## ▼ 評語

本標的運用漁業副產品（台灣鯛魚皮）製成時尚皮革，在製程上，採用蛋白鞣製技術並以打印圖案（青花瓷）、植物性藍染、PET 淋膜，製成質感特殊、紋理新穎且具耐用性之鞋類、袋包及服飾...等用料。採合約式訂單模式，具獨一性、後續性的有利商機。

## ▼ Introduction

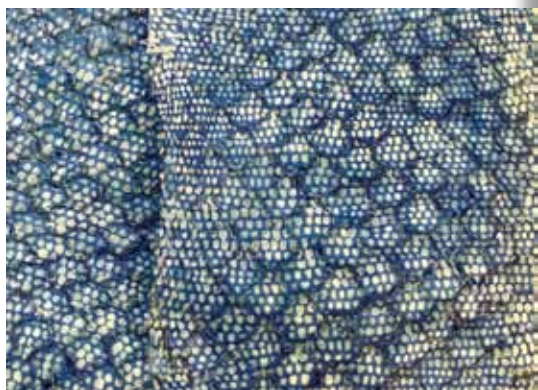
Tilapia is the largest export of frozen fillets of Taiwan, and thousand tones of discarded fish skins are turned into the meal for animals. However, there are more economical and glamorous uses for this by-product than just an ingredient in animal feeds.

We challenged the fish skins with modern solution- "Green Tanning Process" and integrate patterns and colors inspired from the blue-and-white fine China, which gives them a new life as eco-friendly luxury leather.

Fish leather is an alternative for the typical exotic leathers such as crocodile and snake that are endangered. More and More designers are taking fish skins from the dinner table and put them on the runways to make a noisy fashion statement.

## ▼ Commentary

The project uses by-products of fisheries (Taiwan sea bream skin) to create fashionable leather. It uses protease tanning technology and printed patterns (blue and white porcelain), plant-based blue dye and PET films to produce durable footwear, bags and clothing of special texture and modern patterns. It uses a unique contract-based order model which can be extended. This creates a favorable business opportunity.



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GWOXI  
國璽幹細胞

Gwo Xi Stem Cell Applied Technology Co., Ltd.

# 國璽幹細胞應用技術股份有限公司

## ▼ 簡介

商業化幹細胞製程技術及儲存服務蘊含著巨大的商機，進入障礙門檻高。本申請標的「醫藥級脂肪幹細胞製劑生產技術平臺」已建立人類幹細胞之採集、分離、純化、放大及儲存製程專利，在動物試驗證實細胞製劑不具致瘤性、染色體維持正常狀態、具安全性，能提供符合人類細胞治療產品（藥品）審查相關專業知識、技術、檢測實驗室及代工生產服務，所有過程均符合 GTP 規範，經衛生福利部核准幹細胞肝硬化新藥 GXHPC1 及腦中風新藥 GXNPC1 已進入人體第一期臨床試驗，上述證實本標的具提供人類細胞治療產品研發及生產服務之能力及其未來發展潛力。

## ▼ 評語

本標的開發醫藥級脂肪幹細胞製劑之生產技術平臺，係目前唯一以脂肪幹細胞進行肝硬化治療的臨床試驗，研發具相當的創新性與前瞻視野。該公司長期投入細胞治療產業關鍵技術平臺的建立，經過多年的努力已取得了豐碩的成果，配合臨床試驗的持續投入，未來可以開創另一波細胞治療的先機。

## ▼ Introduction

Commercialization of stem cell process technology and storage services presents an enormous business opportunities and high barriers to entry. The subject of application "The Production Technology Platform of Pharmaceutical-Grade Adipose-Derived Stem Cell Products" has been patented, including isolation, purification, expansion and storage of human stem cells. Toxicological test confirmed that this platform will not cause stem cell products tumorigenicity and no chromosomal abnormality stem cell products. The subject of application provides stem cell technology related services of expertise, technology, testing laboratory and original equipment manufacturer (OEM). All process of the subject of application is compliance with GTP requirements, and TFDA approved the phase I clinical trial of GXHPC1 and GXNPC1 on November 2015 and June 2016. All of the above confirmed that our company has expertise of human stem cell products and future development potential.

## ▼ Commentary

The project developed the technology platform for the production of pharmaceutical grade fat stem cell medicine. It is currently the only clinical trial for the treatment of liver cirrhosis using fat stem cells. The research and development is highly innovative and forward-looking. The company has been investing in key technology platforms for the cell therapy industry for a long time, and it has achieved fruitful results after many years of hard work. Building on this foundation and together with the continuous investment in clinical trials, it can create another wave of cell therapy.



## 醫藥級脂肪幹細胞製劑生產技術平臺

## The Production Technology Platform of Pharmaceutical-Grade Adipose-Derived Stem Cell Products

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# 傑智環境科技股份有限公司

## ▼ 簡介

大型兩槽式蓄熱焚化爐，實務上經常面臨問題包括：(1) 間歇性異味排放問題 (2) 預處理含膠結物之 VOCs 排氣，衍生黑煙排放問題 (3) 經燃燒後產生二氧化矽粉末進而阻塞蓄熱床等問題 (4) VOCs 排氣中含氮基之高沸點水溶性有機物，燃燒後衍生大量 NOx、SOx 排放之二次污染問題。傑智研發標的對於不同產業排氣特性差異所面臨問題，藉由應用多項獨家專利技術（可依實際需求選配）來客製化該產業製程最佳化的高效能蓄熱焚化爐設備，以處理各式各樣製程含有 VOCs 有機廢氣處理排放的需求。為相關產業解決廢氣排放問題，深獲客戶滿意。

## ▼ 評語

- 本標的主要針對工廠排放之揮發性有機氣體加以處理以符合廢氣排放標準。
- 本標的應用多項創新技術解決閥體切換時產生間歇性異味排放、黑煙排放、二氧化矽粉末阻塞蓄熱床及 NOx、SOx 排放二次污染等關鍵問題。

## ▼ Introduction

For the user of two-tower RTO, they usually face the following problems:

(1) Periodical odor emission (2) black smoke problem due to colloidal substance of VOCs gas (3) silica powder accumulation problem of RTO combustion process (4) secondary NOx, SOx emission problem due to nitrogen-containing high boiling point substance of VOCs gas.

JG has been focusing on research and develop for solving different features of the industry emission issues. JG try to resolve these issues with customized RTO system which JG has several patents employed that help industry to handle various kind process of air pollution issues. With our great effort, we are highly recommended and appreciated by our customers, obtaining more purchase order from new market application, and also enhance industries to meet with many environmental and regulatory requirements.

## ▼ Commentary

- This project mainly deals with VOC emissions from the factory. It provides treatment to meet the emission standards.
- This project applied a number of innovative technologies to solve the indirect odor emission, smoke emission, silicon dioxide powder blockage at the regenerator, the secondary pollution of NOx, SOx emission, etc. during valve changing.



(大型)高效能雙槽蓄熱式廢氣焚化爐  
(Large-scale) High-efficiency, Two-tower Regenerative Thermal Oxidizer

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# nuazure Nuazure Innovative Technology Co., Ltd. 湛天創新科技股份有限公司

## ▼ 簡介

湛天創新科技希望提供一個內容上及使用上的優質閱讀服務，於是發揮研發團隊的技術，開發了「Pubu 飽讀電子書」服務，除了提供「當期雜誌」及「嚴選好書」外，有上萬本電子書籍雜誌可供閱讀，且結合下列創新功能，促使提升民眾閱讀電子書的意願。本服務之創新功能重點：

1. 閱讀功能：內容分類清楚好搜尋；分段下載可立即閱讀；雙頁模式畫面不失真；書籍 QR Code 自動辨識；可畫線註記、手寫筆記、書籤標示、分享圖文
2. 書櫃功能：指紋解鎖保隱私；私密檔案分類好整理；釋放手機空間不浪費
3. 體驗功能：邀請好友賺飽讀；LBS 來就享閱讀

## ▼ 評語

- 該企業獨特之電子書城（零售及月租）及圖書館（借閱當期雜誌及新版書）整合模式，在同業競爭者中具有獨性。
- 透過“來就讀”模式，提供一天免費試閱，加上病毒式行銷，使會員快速增長，遠勝過其他業者。
- 該公司亦有線上出版商業務，可幫作者直接在線上出版，供讀者閱讀。

## ▼ Introduction

Nuazure Innovative Technology has developed an industry-leading ebook service named “Pubu all-you-can-read” service, which provides “latest issues of magazines” and “select ebooks” for reading lovers. We also designed and developed many innovative digital reading features that can significantly improve reading experience:

1. Reading function: clear content classification for search, reading immediately by segmented download, dual page mode without distortion display, automatic identification of in-book QR-codes, highlights/notes, free-hand writing, bookmarks, shares on social media.
2. Bookcase function: unlock with fingerprint, folder-like content classification, ease of free device storage
3. Experience function: invite friends to earn all-you-can-read service, LBS reading.

## ▼ Commentary

- The company's unique integrated model of e-bookstore (retail and monthly rental) and library (current magazines and new books are available for customers to borrow) are unique in the industry.
- One-day free trial "reading material on demand". Through "virus" marketing model, its members grew rapidly when compared with other competitors.
- The company also has an online publishing business and it can help authors to publish their books directly online.



## Pubu飽讀電子書 Pubu All-You-Can-Read Service

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GIROVITA Girovita International Co., Ltd.

## 隆騎國際企業有限公司



### BS-01直立/橫放式兩用停車架 Vertical & Horizontal Bike Stand in One

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#### ▼ 簡介

首創可獨立直式停放方式之自行車停放架，解決以往水平橫放較佔空間的缺點，讓室內空間更為寬廣。

用最簡易的掛勾結合底座結構，將單車以三點式固定方式將單車垂直擺放。

1. 不用鑽牆壁，不使用任何工具即可以輕易放置單車。
2. 直立式設計可有效節省 1/2 置放空間。
3. 精密角度設計讓單車置放於上，即使地震搖晃也不易傾倒。
4. 單一產品可輕鬆直立或橫式水平放置單車。

#### ▼ 評語

- 本標的為首創可「直立」及「橫放」兩用置放自行車之獨立式車架（不需在牆面或地上鑽孔鎖定），其結構穩定、操作方便，具有實用、安全及節省收納空間...等創新特色。
- 結構設計呈簡約，可降低製造成本，其創意及功能之整體呈現，本標的獲得 IF 台灣自行車創新設計獎及台灣金點設計獎。

#### ▼ Introduction

The first straight type of parking model of the bike rack, to solve the previous level of horizontal more space, so that a more spacious interior space. With the most simple hook & base structure, the bike will be three-point fixed way to put the vertical bike.

- 1) Do not drill the wall, do not use any tools you can easily place a bike
- 2) Up right design can effectively save 1/2 placed space.
- 3) Precision angle design allows bike place on, even if the earthquake shaking is not easy to dump
- 4) An unity products can easily stand bike in vertial or horizontal

#### ▼ Commentary

- This project is the first stand-alone bike which can be placed vertically and horizontally without being tied to the wall or floor. Its structure is stable and easy to operate. Its innovative features are practical, safe and space-saving.
- The structural design is simple, and it can reduce manufacturing costs. The design shows its creativity and functions. It has also won the IF Taiwan Cycle Design & Innovation Awards. and the Taiwan Golden Pin Design Award.





Microcell  
Composite Company

Microcell Composite Company

# 微細科技股份有限公司

## ▼ 簡介

微晶木，一個具有木材質感的創新素材。

微細科技於 2008 年以特殊的高分子配方、高壓發泡技術、以及複合纖維材料的製程，並學習大自然木材的特性概念，研發出 100% 可以回收再利用的高科技環保發泡材質，具有類木材的特性，稱之為微晶木。

微晶木不含任何木粉及木屑，具有防水、防蟲、無毒、無重金屬、無甲醛等質特性，也同時具有木材、塑膠、橡膠的加工特性，使用上又有止滑、安全及耐候的優點，目前正廣泛應用在戶外景觀建築、室內外裝修工程及戶外家具上，是現有木類及仿木材質中的最佳選擇。

## ▼ 評語

本標的創新性包含同時具有塑膠、橡膠及木材的三種材質及加工特性、利用獨創配方與高壓發泡技術，做出獨立氣孔 (close cell) 且具有木頭質感的創新材料、100% 沒有添加任何的木粉或木屑、100% 回收再利用、無氯、無毒、無甲醛等，產業利用價值高，可近乎取代現有的木材及木製品，其價格亦具市場競爭力。

## ▼ Introduction

CELLwood, it is an innovative and woodlike material.

CELLwood, a revolutionary, eco-friendly material, was invented by Microcell in 2008. It is a new concept that comes from special copolymer formula, foaming technology, fiber reinforcement engineering, and natural wood properties. CELLwood is also an eco-friendly material and can be 100% recyclable and reusable.

CELLwood is a better choice among current materials such as woods and WPC on the market, because of non-toxic, heavy metal free, no formaldehyde and no wood flour or dust added. It is applied on landscaping, decoration and construction, and outdoor furnitures.

CELLwood is aiming to decrease the rate of deforestation and provide a green and healthy environment for generations.

## ▼ Commentary

The innovations of this product include the combination of three kinds of materials - plastic, rubber and wood. It has combined processing characteristics. It uses innovative formulas and high-pressure foaming technology to create innovative materials with closed-cell and wood texture. It is 100% free of wood powder and wood chips. It is 100% recyclable, chlorine-free, non-toxic, formaldehyde-free, etc. It has high value for industrial use, and it can replace almost all existing wood and wood products. Its price also has market competitiveness.



## 一種神奇的人造木材—微晶木 CELLwood – A Surprised New Wood

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Amaryllo International, Inc.

# 愛瑪麗歐股份有限公司



## ▼ 簡介

「全球首創 360 度自動追蹤人臉偵測安控機器人」

- 係愛瑪麗歐透過自主開發的軟硬體技術，將昂貴的自動追蹤及自動偵測與機器人等技術實現在一個雙核心的 CPUs 上，此大幅降低產品成本，讓消費性市場也能享受到這些技術。
- 全球唯一使用與美國國防部相同等級的 256 位元加密，徹底保護隱私。
- 獨家網路頻寬監控與 P2P 技術，自動調整影像品質，確保影音傳輸延遲低於 0.5 秒，可做即時雙向通話。
- 獨創語音警報與打招呼擬人化的語音功能，可有效嚇阻入侵者。
- 智慧型感測系統，實現全視角偵測，使入侵者不論從任何角度進入到偵測範圍都無所遁形。

## ▼ 評語

本標的之造型相當吸睛，具有自動入侵偵測及追蹤人臉之能力，全球首創 10 秒影片警報通知，完整呈現異常狀況發生的實際狀況。本標的具人工智慧 360 度晝夜自動偵測追蹤的能力，且系統聯網能力強大，安裝一台可抵 3 台一般之 IP Camera。本標的無外露天線，可降低輻射對人體的傷害，在此類市場中具有領導地位。

## ▼ Introduction

World's first 360-Degree Auto-Tracking and Face Detection Security Robot

- Using proprietary technologies and a dual-core CPU, Amaryllo is able to lower the costs of auto-tracking, auto-detection and robotic technologies and enable consumers to enjoy these once very expensive functions.
- Use 256-bit data encryption, which is the same security level as Pentagon, to ensure user's privacy.
- Automatically adjust video quality based on available bandwidth to ensure the latency is less than 0.5 sec.
- Embedded speech function and voice alert can effectively deter any intruder.
- Multiple sensing networks ensure no blind spot no matter where the intruder comes from.

## ▼ Commentary

The design of the product is very eye-catching. It can automatically detect invasion and track human faces. The world's first 10-second video alarm notification can demonstrate the actual situation of the abnormality. The product is equipped with artificial intelligence 360-degree day and night automatic detection and tracking. It has strong network connectivity, and one unit can replace 3 units of general IP Cameras. The product has an internal antenna which can reduce the harm of radiation to the human body. It has a leading position in the market.

## 全球首創360度自動追蹤人臉 偵測安控機器人

### World's First 360-Degree Auto-Tracking and Face Detection Security Robot

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# ARCS Precision Technology Co., Ltd. 源台精密科技股份有限公司

## ▼ 簡介

探針卡光學量測及調針機 (PIS 系列) 是針對目前半導體產業在晶圓探針卡 (Probe Card) 產品製程中原本只能使用從歐美採購進口昂貴的機台設備，而且需要分開成兩段式 1. 檢測 2. 調整針卡的作業型態，在不改變使用者既有的作業習慣，將上述兩個檢測及調整針卡的功能整合於同一設備上，再開發高速量測方法及專用軟體的輔助判定。所以此系統是針對半導體產業的使用習慣元素，提供一個嶄新的”單機台、雙功能”，檢測及調整系統。

## ▼ 評語

- 本標的在於解決探針卡操作員調整探針找不到挑針位置，不知將針往哪個方向挑，反覆翻轉探針量測及挑針的煩悶等問題，提供客戶方便且有效率的探針調整設備。
- 本標的創新技術包括運用全自動光學量測、探針調整單元自動定位，達到晶圓探針狀態 OK/NG 及針卡偏移方位清楚、方便調整，提升作業效率。

## ▼ Introduction

Probe Card Inspection and PIN Adjustment System (PIS series) is designed for the Semiconductor Industry field, the wafer probe card production. The customers only can purchase the more expensive system from Europe or the United States. And they also need to separate the Probe Card production procedure into two sessions, First is to inspection the all PIN's location. Second is to adjust the PINs to their corrected location. Now ARCS keep the original procedure, without changing the customer's existing operating habits. To integrate the above two session procedures into one system, and subjoin the high-speed measurement methods and the dedicated software to increase the production effectiveness. So this PIS system is suitable for the semiconductor industry, to provide customers a "One system, Dual functions" inspection and adjustment system.

## ▼ Commentary

- The product is to solve the problems of measurement needle operators: Losing the position of the measurement needle, unsure which direction to adjust the needle, turning the measurement needle respectively, picking the needle, etc. and provide customers with a convenient and efficient measurement needle adjustment device.
- The innovative technologies of this product include the use of fully-automatic optical measurement, and the automatic positioning of the measurement needle adjustment unit, in order to achieve OK/NG state of the wafer measurement needle and clear measurement needle deviation. It provides easy adjustment and it enhances operating efficiency.



探針卡光學量測及調針機  
Probe Card Inspection and  
Adjustment System

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# OSTAR Ostar Meditech Corp. 源星生醫科技股份有限公司



## 智慧型雲端家庭健康照護系統 OSTAR Smart Cloud Health System

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### ▼ 簡介

1. 可同時量測體重及血糖資料，分析減重後血糖降低後情形，供醫師參考。當傳輸完成時，於 G6 螢幕上顯示傳輸成功（Y），如未傳輸成功顯示（N），可讓病人確認資料已送出。
2. 健康資訊整合趨勢圖，完整分析血壓、心臟、體重及血糖。
3. 心臟頻譜分析，提前預警中風與心肌梗塞發生機率。
4. 螢幕可直接顯示資料上傳狀況，已接收血糖資料、血糖資料正傳輸中、已確認血糖資料進入雲端資料庫。
5. 資料自動補傳機制，資料如已接收，但未傳入雲端資料庫，將自動補傳。
6. 充電顯示，本機內建鋰高分子電池，可供外出旅遊時攜帶。
7. 可使用讀卡機輸入 ID 資料。

### ▼ 評語

源星生醫為 GMP 廠，從研究、雛形、製造至量產皆自行完成，並與研究型大學之醫院進行產學合作，提供雲端系統即時診斷之功能，適合於醫院病房出院病患之居家追蹤，也可應用於遠距照護中心、老人養護中心及個人居家。產品的開發已獲數家廠商認可，將共同開發雲端照護系統，產品已具市場價值。

### ▼ Introduction

1. Measurement of body weight and blood glucose data, analysis of weight loss after the situation, lower blood sugar, to provide a doctor's reference. When transmission is complete, the screen displays G6 transmission success (Y), and if no transmission is successfully displayed (N), the patient may be allowed to confirm that the data has been sent.
2. Integrate trend graphs to analyze blood pressure and heart, body weight, and blood sugar.
3. Heart noise analysis, do Early Warning Stroke and Coronary Artery Disease.
4. The G6 screen directly displays the data upload status.
5. Automatic data transfer function, such as data has been received, but did not enter the cloud, the data will automatically fill the database transmission.
6. Charging display, G6 built-in lithium polymer battery for travel to carry.

### ▼ Commentary

The company is a GMP plant that operates from research, prototype, and manufacturing to mass production. It also cooperates with hospitals of research-based universities to provide a real-time diagnosis cloud system. This is suitable for the tracking of discharged hospital patients. It can also be used in distance care centers, elderly centers and individual homes. The project has already been recognized by several manufacturers, and they will jointly develop the cloud care system. The project already has market value.



HEX

瑞德感知 HEX SAFETY, Inc.

# 瑞德感知科技股份有限公司

## ▼ 簡介

瑞德感知科技的「動態導引系統」，是全球首創的智慧消防疏散系統，「動態導引主機」會自動偵測建築物內的危險程度，即時規劃火場逃生路線，透過最新 LoRa 遠距傳輸技術，遠端控制「動態導引號誌」改變指示方向，引導群眾前往安全的出口，有效提升建築物公共安全標準，適用於所有建築物當中。系統核心技術獲得微軟競賽世界冠軍、iF 產品設計獎、智慧建材標章及美國防火工程學會 SFPE 的認可，是全台唯一取得消防認證之動態導引號誌，可以完全取代一般傳統消防指示燈。

## ▼ 評語

本標的「動態導引系統」，係透過動態 LED 顯示之引導號誌介面及動態即時運算之資訊系統，能作即時逃生路徑之規劃及即時動態號誌之顯示，俾利逃生需求之動態即時引導，其獨特產品特性與領先優勢，在國內外均有龐大的市場。該公司研發團隊具多樣及專業背景，有利於整合運用及開發新產品。

## ▼ Introduction

HEX brings technology into traditional fire preventing industry and is changing the face of it by becoming a pioneer to the world of developing "Dynamic Evacuation System". The core technology has been validated by many awards, patents, recognitions and certifications.

From the perspective of intelligent fire prevention to integrate the Fire Panel then it will pass the updated fire information to "HEX Dynamic Evacuation System". HEX Dynamic Evacuation Panel will analyze the dangerous level of a building, predicting the fire growth and calculate the best escaping route through the gathered data. The "HEX Dynamic Exit Signs" has far-end control function, which will direct people to safe exits; guide people escape and speed up the evacuation.

## ▼ Commentary

The Dynamic Evacuation System of this project is an information system with dynamic LED direction sign and real-time analysis. It can plan and display real-time escape routes and real-time dynamic signs to guide evacuation. The product is unique and market-leading. It has huge markets both at home and abroad. The research and development team of the company is diversified and its members are from various professions. This helps to integrate applications and to develop new products.



動態導引系統  
Dynamic Evacuation System

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Access Motor Co., Ltd.

# 雍御企業股份有限公司



## ▼ 簡介

全地形車 (All Terrain Vehicle 簡稱 ATV)，俗稱沙灘車。顧名思義，ATV 就是以能克服種種艱難地形為主要功能之交通載具，被常用於沙地、林地、草地、溪底、礫石、泥濘等艱難地面的環境，並以優異的越野性能與相對於越野汽車更輕巧的越野結構見長，多半用於牧場、狩獵、救難、冒險旅程與刺激的遊樂競賽，甚至已被納入野戰等軍事用途。ATV 大致可分成實用型 (Utility ATV) 及運動型 (Sporty ATV)。

創新特色：

1. 以 600c.c. 引擎達到 700c.c. 引擎馬力的創新研發
2. 傳統魚眼大燈改為時尚汽車一體式 LED 大燈
3. 獨特設計可依地形調整輪胎 (打破一車型一種輪胎的侷限)

## ▼ 評語

- 本標的主要創新目的在於不須提高引擎汽缸體積，使 600c.c. 引擎的馬力能達到 700c.c. 引擎馬力的水準，以減少車重與成本。
- 本標之創新特色包括提高進氣效率、運用燃油電子噴射、調整空氣與汽油混合比、加入時尚元素如 LED 大燈一體設計等，且通過賽車耐久測試 14,500 公里。

## ▼ Introduction

All Terrain Vehicle commonly is known as ATV. As implied by the name, the main function of this vehicle is to overcome the difficult terrain. It is commonly used in sandlot, woodland, grassland, river bottom, gravel, mud and other difficult ground environment. Its excellent off-road performance and the lighter weight structure than off-road car is known and used for most of the pasture, hunting, rescue, adventure and racing, and even into the military field. ATV can be divided into practical (Utility ATV) and sports (Sporty ATV).

Innovative features:

1. the horsepower of 600c.c. engine is reached to 700c.c. one.
2. change the traditional fish-eye headlamps into fashionable LED car headlamps.
3. According to the terrain to adjust the tire size to break a limitation, one model with one tire size.

## ▼ Commentary

- The innovation of this product is mainly to increase the horsepower of 600c.c. engines to the level of 700c.c. engines without increasing the size of the cylinder. This is to reduce vehicle weight and cost.
- The featured innovations of this product include improved fuel efficiency, the use of electronic fuel injection, adjusted mixing ratio of air and fuel, and fashion elements such as integrated LED headlamps, etc. It has also passed a 14,500 km durability test of racing cars.

## 600 c.c.電噴式全地形車性能 提升及外型創新 The Electronic Injection Engine of 600 c.c. ATV and Innovation for Overall

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# 碩網資訊股份有限公司

## ▼ 簡 介

SmartRobot 智能機器人協助建立各種自主智能服務平台，利用各種通訊裝置與程式來實現與客戶的自動化問答流程，藉由運用自然語言分析、機器學習，以及各種 AI 人工智慧技術，實現人機互動情景，提供最精確的答案，全面升級客服中心，達到快速解決問題，有效降低客服成本，提升客戶滿意度；透過建置與擴充客服知識庫，SmartRobot 智能機器人將能不斷增加回覆客戶問題範圍與內容，讓企業擴大 24/7 完美服務體驗。

## ▼ 評 語

本標的以自然語言、語意分析、人機互動與智能搜尋等人工智慧技術為基礎，做到以擬人化方式與訪客對話之軟體系統，可有效降低人工服務成本，迅速提供客戶解答，改善客戶體驗，提升服務的品質和企業形象。本標的已運用於銀行業，市場穩定成長中，未來可擴及其他需要人員服務之業務市場。

## ▼ Introduction

Enhance customer experience using natural language, machine learning, and various cutting-edge AI technologies. Automate omnichannel customer engagement with hybrid chat and multilingual support.

1. Natural Language Technology: SmartRobot using a natural conversational interface that understands what customers need.
2. Machine Learning: Ability to learn and improve responses over time based on experience.
3. Hybrid human/machine chatting: Seamlessly link to a human live chat to enable fluid experience of both customers and service agents.
4. Omni-channel support: Instantly get access to web, email, SMS, social media and mobile applications through easy-to-use APIs.
5. Enable 24\*7 Service: As an automated service available 24/7, SmartRobot enable employees focus on higher value activities.

## ▼ Commentary

The project is based on artificial intelligence technologies such as natural language, semantic analysis, human-computer interaction and intelligent searching. The software system can provide human-stimulated conversation with the customers. It can effectively reduce the cost of labor, quickly answer customers' enquiries, improve customers' experience, and enhance service quality and corporate image. The product has already been used in the banking industry. The market is growing stably and it can expand to other businesses that require human services in the future.



## SmartRobot智能機器人解決方案 SmartRobot - Intelligent Assistant

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weGoLuck Co., Ltd.

# 聚豐全球股份有限公司

## ▼ 簡介

聚豐全球貿聯網期以 weGoLuck 全球首創跨境電商平台打破傳統國際貿易形態，開創革命性新通路，與全球兩大電子商務巨頭 amazon 及 eBay 串接，無縫接軌美國電商市場，完整串接物流、金流、資訊流，了解市場脈動進而掌握商品趨勢，大幅提高企業出口利潤，與企業攜手推開未來電子商務經濟大門！

聚豐全球以本標的積極與學術或電子商務相關組織及單位合作發展、共同經營推廣，提供協助工廠與海外賣家對接，在海外電商平台上進行商品曝光及銷售，廠商亦可透過平台申請寄倉服務，第三方物流即會協助廠商自臺灣海運發貨，送交北美專業倉儲；金流上，提供廠商小額收款，月結電匯指定帳戶，使廠商收款無虞。藉由聚豐全球貿聯網，讓商務人士及學子們皆能站上新趨勢浪潮頂端，自信地成為下一個臺灣的驕傲！

## ▼ 評語

- 提供具一條龍式的跨境電商平台及多元化服務：含商品國際市場分析、富彈性定價機制、整合在地物流、串接在地資訊與交易金流 / 稅物等服務。
- 本標的已上架百餘件商品，提供國內製造業、微型企業或個人創業等產業一個有效鏈接國際電商市場（美國），並可進行目標商品之銷售媒合與物流配送的平台。

## ▼ Introduction

weGoLuck's innovative and unique global eCommerce platform was the answer that we came up with to fight the status quo and open up a revolutionary new channel that leverages on the forces of such eCommerce major players as Amazon and eBay, seamlessly connecting logistics, cash flow, and information flow with the U.S. eCommerce market, and thus understanding the latest market and product trends. As such, the platform is capable of assisting businesses in raising their export profit margins and opening the future gates to the eCommerce economy!

The trilateral cooperation among businesses, official, and private entities form a positive social cycle; we believe the transmission of professional knowledge through education, and the spirit of giving back to society go hand-in-hand with our values. Therefore, we take a proactive role in seeking out opportunities to cooperate with academia and eCommerce-related organizations and institutions for educational promotion, enabling businessmen and students alike to stand up confidently as leaders on the peak of this new trend, thus becoming the next Taiwanese pride!

## ▼ Commentary

- It provides a one-stop cross-border e-commerce platform and diversified services: including international market analysis of products, flexible pricing mechanism, integrated local logistics, local information and transaction money flow/tax and other services.
- This project has already got more than 100 products on its platform. It provides an effective connection to the international e-commerce market (US) to domestic manufacturing companies, micro-enterprises, individual entrepreneurs and other businesses. Its clients can conduct product match-making and arrange delivery through the platform.

## 聚豐全球貿聯網 weGoluck Cross-border E-commerce Service

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E.L.S. System Technology Co., Ltd.

# 億力鑫系統科技股份有限公司

## ▼ 簡介

6 吋全自動單晶圓濕式光阻去除機，主要用於半導體製程中，將不需要的光阻使用濕製程的方式將其去除，全機自動化，只需將製程參數設定好，再將欲做製程之 Cassette 擺放至機台的 Loader，機台便會自動開始做製程。

億力鑫 100% 自行研發，將塗滿光阻晶片連續式浸泡到藥液槽內，用 1/3 的傳統浸泡時間，讓光阻和藥液產生反應而膨潤，但光阻不脫落和溶解於浸泡槽內，再將晶片送到億力鑫發明專利的 TCM (Total Clean Module) 系統用純水將半固態的光阻沖洗掉完全不留雜質，再將被去除的光阻以過濾網濾起，用過的純水仍可以符合一般排水的環保標準排除，既環保又節省大量的處理廢液成本。

## ▼ 評語

- 本標的主要用於以砷化鎵為基板的高頻通訊元件等光電半導體製程中，將不需要的光阻使用濕製程的方式將其去除。
- 本標的創新設計在於用少量的藥液軟化光阻，再輔以特殊設計之流體噴頭噴水將光阻去除，替代傳統使用大量藥液去除光阻的方法，且獲得高產量及低成本的成效。

## ▼ Introduction

A new concept for removing thicker photo-resist and cleaning Via hole, we save much DIW & chemical in Advance package process, it is an environment friendly machine.

## ▼ Commentary

- This technology is mainly used in the optoelectronic semiconductor manufacturing process such as the production of gallium arsenide-based high-frequency communications components. It removed the unnecessary photo-resistant element with a wet production process.
- The innovative design of the technology uses a small amount of chemical liquid to soften the photo-resistant element, and then remove the element by the water sprayed with a specially-designed fluid nozzle. It replaces the traditional method of removing photo-resistant elements by using a large amount of chemical liquids. It has high production volume and low cost.



6吋全自動單晶圓濕式光阻去除機  
6-Inch Full-Auto PR Stripper

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## Perseidas Enterprise Co., Ltd. 薈昇企業有限公司

### ▼ 簡介

本產品以橡膠盤、塑膠盤與數個重量塊通過模組化之組合方式，以達到不同重量結構，可組合成 5.5KG 到 7.5KG 之槓片，且直徑符合 IWF 認定之標準競賽規格直徑 45cm，此具人體工學之設計考量可以降低姿勢不正確所造成運動傷害的機率，並使舉重初學選手可同步受到正確舉重技術因而縮短學習訓練時間。因此系列槓片外觀直徑、厚度均相同，在製作過程中可於槓片周圍以一體成形方式加入重量識別色帶，以供辨識不同重量。產品外圍為橡膠盤包覆具吸震設計，故耐摔不易破裂變型且不會產生巨大刺耳噪音。本產品的橡膠盤面可以客製客戶所需代表隊伍的立體文字與圖騰。

### ▼ 評語

- 本標的具機構創新性，以可調配重之單元規劃與共用模組，符合降低成本之考量。產品採訂單客製化及製程模組化，具市場競爭力，有利於提升使用普及性。
- 本標的以安全人因為考量，減低舉重者腰椎受傷機率及減少因使用摔落或放置之較大噪音。

### ▼ Introduction

This is the first and only one in the weightlifting gear in the world for 5.5KG to 7.5KG light weight plates with 450mm stander size of competition bumper plates, its durable rubber and plastic with weight blocks, its combination design creates the different weight plates with the same shape, so to molded the different color strip around the plate to indicate the different weights be made, light weight plates provide the same quality and ergonomic to weightlifting athletes, especially, for beginners and ladies are easy to training in such light weight plates. This light weight design of bumper plates are the perfect tool to learn Olympic lifting technique with a manageable entry-level weight. This plate is damn-near unbreakable, and has been made within the strict tolerances which define our other Elite Level Bumper Plates.

### ▼ Commentary

- The project is institutionally innovative. It can adjust to weight planning and module sharing to reduce cost. Products are ordered through customized orders and module process. It has market competitiveness, and it helps to expand the number of users.
- The project considers human safety and aims to reduce the chance of lumbar injury for the weight carriers, and reduce the noise created by dropping and placement of the weights.



### 5.5-7.5Kg可調整重量之輕型槓片 5.5-7.5Kg Weight Adjustable Bumper Plate for A Barbell

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Onyx Healthcare Inc.

# 醫揚科技股份有限公司

## ▼ 簡介

Venus 系列經由 Onyx 研發團隊的努力，以破壞性創新，將電池整合在 AIO 系統中，並成功加入熱插拔設計。新的架構，當電池處於低電量，醫護人員只需換上充飽的電池，護理推車便可繼續使用，徹底解決了傳統推車需待機充電的問題。另外，Onyx 對於搭配的軟體也下足功夫，ORION 便是一套全功能醫院 IT 遠端管理系統。此系統可自動診斷電池狀況，並主動告知何時需要更換電池，解決 MIS 人員在電池管理上的窘境。ORION 亦可遠端監控全院 Venus 設備，讓 MIS 人員在辦公室就可以輕易掌握狀況。Venus 完整解決方案，不但能協助醫院提升醫療品質，也可提高 40% 護理人員的工作效率，資料正確率也達到 100%。

## ▼ 評語

本標的開發醫療級不斷電行動醫護平臺（亦即 Venus 護理推車專用電腦），具有遠端管理與抽換式電池的優勢，可以去除目前護理推車的缺點，在營運策略上採取可以只更換電腦不必換推車的模式，有助於行銷推廣，在技術和營運模式上均有創新之處，具有相當的競爭優勢和潛力，可以行銷國外。

## ▼ Introduction

Onyx Healthcare Inc. Venus series which equipped two swappable batteries to supply stable and safe power is designed for constancy medical operating environment. The battery system allows Venus always keeps turn-on by replace one of the batteries, and that is really good for any mobile/non-stop requirement. Venus is the best medical mobile cart computer which reach high-performance, multifunction, waterproof, dustproof and easy-clean.

Besides, in an effort to reduce the manpower needed to manage a large number of network connected Venus computers, Onyx has created ORION, a proprietary remote software management application. ORION can provide a complete set of hardware and battery information for any connected Venus, supplying important feedback to hospital IT staff if any problem should occur. IT managers increase their efficiency and productivity by no longer having to travel throughout an entire healthcare facility to configure devices individually.

## ▼ Commentary

The technology developed the medical standard mobile health care platform (that is, Venus medical computers for carts). It has remote management and the advantages of a removable battery. It can solve the issues of current medical carts. In operation, only the computer needs to be changed, and the cart can remain the same. This helps in marketing, and it is innovative in both technology and operation models. It has considerable competitive advantage and potentials, and it can sell in overseas markets.



醫療級不斷電行動醫護平臺  
(Venus - 護理推車專用電腦)  
Mobile Cart Computer

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# POLYTRON Polytron Technologies, Inc. 寶創科技股份有限公司

## ▼ 簡介

寶創 LED 透明顯示屏之創新技術，在於玻璃表面看不到任何線路，卻能將玻璃內部之 LED 做單點控制，其做法為將一般大眾所使用之 LED 以矩陣方式貼合在透明導電材料上，再將 LED 膠合於透明玻璃內，除導電材料邊緣以 FPCB 導出外，整片顯示屏皆呈現透明狀態，且除了作顯示屏外，亦是一種綠建築材料（抗 UV 及 IR）。適用於各式平板以及彎曲玻璃，滿足顧客的各種設計應用需求。客戶可以運用無限的創意和想像力去設計多樣化的應用概念！建築師、設計師可應用 LED 透明顯示屏來設計各式創意商品或開拓各種創新概念，提升其附加商業價值。

## ▼ 評語

本標的之優勢為透明、薄、可彎曲、壽命長、省電、環保，顏色豐富，樣式多變，除了作顯示屏外，亦是一種綠建築材料（抗 UV 及 IR），可運用於大樓帷幕牆、落地窗、商業廣告、展出陳列、隔屏等用途，目前國內尚無相同產品之競爭對手，屬於獨占市場；國外雖有競爭，但本標的物具有低成本之優勢。

## ▼ Introduction

PolyDigit™ is an enhanced, moving LED display unlike any in the market. A unique feature is the total transparency, which LED can shine through the glass and radiates from both sides. We put LED matrix on transparent materials and interlayer into glasses. In addition to leading out by FPCB, the whole display is transparent. Many features besides the true transparent LED glass display, PolyDigit™ can be custom for design specific, configured for moving graphics and energy saving for cost effective.

Users can pre-install text, logos, messages and animation by uploading from a PC to its controller. Providing visual information anywhere from bus stations, airports to any public glass displays from both sides. It's a great way to create public awareness and in most cases impress audience at night with PolyDigit™.

## ▼ Commentary

The advantages of this product are transparent, thin, flexible, long-life, energy-saving, environmentally-friendly, colorful, and multiple-designs. In addition to being used as screens, it is also an environmentally-friendly building materials (anti-UV and anti-IR). It can be used in curtain walls, floor-to-ceiling windows, commercial advertising boards, displays, partitions, etc. Currently, there is no domestic competitor, and the company has an exclusive market. Although there are competitors overseas, the product has a low-cost advantage.



LED透明顯示屏  
PolyDigit™

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# 決審委員名單

決審委員召集人：葉雲龍委員 經濟部中小企業處處長

余日新	財團法人中衛發展中心董事長
吳明機	經濟部工業局局長
李鎡	經濟部商業司司長
林廣宏	科技部綜合規劃司司長
林慧瑛	社團法人中華民國全國中小企業總會理事長
姚立德	國立臺北科技大學校長
梁啟源	財團法人中華經濟研究院董事長
梁廣義	國立陽明大學校長
黃文谷	經濟部加工出口區管理處處長
楊珍妮	經濟部國貿局局長
蔡憲浩	中小企業信用保證基金董事長
蔣丙煌	財團法人生物技術開發中心董事長

(上述名單除召集人外，依姓氏筆畫排列)



# 初審委員名單

初審委員總召集人：蔡新源委員 創智智權管理顧問股份有限公司董事長

類別	姓名	服務單位 / 職稱
資訊 與 電子類	徐永珍 (分組召集人)	清華大學電機工程學系暨電子工程研究所教授
	王永和	成功大學電機工程學系教授
	曾煜棋	交通大學資訊學院院長兼教授
	廖婉君	臺灣大學電機工程學系教授
機械 與 自動化類	蔡新源 (分組召集人)	創智智權管理顧問股份有限公司董事長
	張所鉅	臺灣大學機械系教授
	顏家鈺	臺灣大學工學院院長兼機械工程學系教授
	羅裕龍	成功大學機械工程學系教授兼系主任
材料 與 生技類	廖啟成 (分組召集人)	財團法人食品工業發展研究所所長
	丁志明	成功大學工學院副院長兼材料科學及工程學系教授
	李勝偉	中央大學材料科學與工程研究所教授暨研發處研究推動組組長
	賴志煌	清華大學材料工程科學學系講座教授兼工學院院長兼學士班主任
服務類	方至民 (分組召集人)	中山大學企業管理學系教授
	唐震寰	交通大學電機工程學系教授
	陳銘崑	臺北科技大學服務與科技管理所副教授
	廖文志	臺灣科技大學企業管理系副教授
綜合類	官政能 (分組召集人)	實踐大學臺北校區副校長
	巴白山	臺北教育大學數位科技設計學系教授
	張文智	臺灣科技大學工商設計系教授
	黃啟梧	臺北科技大學工業設計系副教授

(上述名單除召集人外，依姓氏筆畫排列)



# 申請須知

## 一、目的

為鼓勵中小企業從事創新研究發展、提升技術與服務水準、增強競爭力，經濟部依據「中小企業發展基金獎助中小企業創新研究要點」針對持續以有組織、有系統之方法，自行從事創新研究而有具體成效之中小企業，甄選傑出者予以適當之獎勵，以期技術生根，進而達到產業升級與健全發展之目的。

## 二、申請資格

### (一) 獎勵對象

合於行政院核定「中小企業認定標準」且目前仍在營運中之中小企業，其民國 104 年之研發費用佔營業淨額比例不得低於 2.0%。(研發經費請參考申請書表 1、註 2)

### (二) 獎勵範圍

自行研發之創新性產品、技術、製程、流程、服務(包含技術服務、知識服務、商業服務)等項，於民國 104 年完成，並已商業化運用或量產者。

註：申請獎勵之標的如已(曾)獲得政府機關補助款(如主導性新產品開發輔導計畫、協助傳統產業技術開發計畫、服務業創新研發計畫、數位內容產業發展補助計畫、小型企業創新研發計畫、地方產業創新研發推動計畫、A+ 企業創新研發淬鍊計畫(原業界開發產業技術計畫)、創新科技應用與服務計畫、研發精進產學合作計畫、高科技設備前瞻技術發展計畫、農業生物技術研發成果產業化輔導計畫...等)不得申請，但其獲得補助並執行完畢後，再自行創新及研發程度高者，不在此限。

## 三、獎勵方式

- (一) 申請標的未曾獲政府機關其他獎項獎金且該企業前一屆未曾獲本獎項獎助金，經評審通過者獲頒證書及獎助金新台幣 15 萬元正，以 30 名為限。其中以員工數認定之中小企業得獎名額以不超過 15 名為原則，確實得獎名額視申請審查情況核定(獎助金須依稅法相關規定辦理扣繳)。
- (二) 申請標的已(曾)獲政府機關其他獎項獎金者(如科學工業園區-創新產品獎、國家發明創作獎...等)或前一屆已獲本獎項獎助金之得獎企業，經評審通過者獲頒證書，以不超過 10 名為原則。
- (三) 同一企業當年度同時有兩項(含)以上之標的獲獎，僅頒發獎助金新台幣 15 萬元正，不得累加獲獎金額。

## 四、申請手續

### (一) 申請方式

1. 檢附申請資料紙本、電子檔各一份。申請書請以電腦繕打，以 A4 規格裝訂整齊，另以電子檔形式儲存於光碟(含附件掃描)交寄，申請資料概不退件，送審前請自行影印留存。
2. 網路報名後通訊寄件，請將申請資料掛號郵寄至：  
「106 臺北市大安區羅斯福路二段 95 號 6 樓 創新研究獎工作小組收」
3. 網路報名及下載申請書請至經濟部中小企業處([www.moeasmea.gov.tw](http://www.moeasmea.gov.tw))、中華民國全國中小企業總會([www.nasme.org.tw](http://www.nasme.org.tw))及創新研究獎專屬網站(<http://tsia.moeasmea.gov.tw>)。
4. 洽詢電話：(02)2366-0812 分機 213 創新研究獎工作小組 茆小姐。

### (二) 送審資料

1. 申請書
2. 公司登記資料影本  
(可逕行至全國商工行政服務入口網 <http://gcis.nat.gov.tw> 查詢列印)



# 申請須知

3. 工廠登記證明文件影本  
註：廠房面積未達 50 平方公尺且電力容量、熱能（馬力與電熱之合計）未達 2.25 千瓦之石油及煤製品製造業、化學材料製造業及化學製品製造業等業者；或廠房面積未達 150 平方公尺且電力容量、熱能（馬力與電熱之合計）未達 75 千瓦之小型製造業者免附，惟需檢附切結書。
  4. 申請獎勵標的之商業化或量產之相關證明文件影本（於 104 年 1 月 1 日至 105 年 5 月 20 日前銷售之發票、合約書、訂單等，若為醫療或食品需檢附相關主管機關核可之證明文件）
  5. 其他申請獎勵標的之相關證明文件影本。（如：專利、獲獎記錄、標準、認證、著作權、相片及型錄等〔請參選企業儘量提供〕）
  6. 以員工人數認定之中小企業，請附 104 年 1~12 月勞保局核發之「勞工保險局保險費繳款單及明細表」影本。  
註：以資本額或營業額認定之中小企業免附。
  7. 104 年度營利事業所得稅結算申報書影本。（包含資產負債表及損益表；此項資料最遲應於 105 年 6 月 13 日前掛號寄達）
- (三) 申請期間  
即日起至 105 年 5 月 20 日 17:30 止（通訊寄件以掛號郵戳日期為憑）。

## 五、評審

### (一) 評審方式

分為資格審、初審與決審 3 階段：

1. 資格審：由創新研究獎工作小組進行基本資料審查，缺件者應於期限內完成補件。
2. 初審：由初審委員會進行書面審查，並視實際狀況需要，派員實地查核。
3. 決審：由決審委員會進行書面審查，並決定得獎名單。

### (二) 評審標準

基本評審項目及權重：

- |                             |      |
|-----------------------------|------|
| 1. 申請獎勵標的之創新性 .....         | 35 % |
| 2. 申請獎勵標的之實用性 .....         | 35 % |
| 3. 申請獎勵標的之國內外競爭力 .....      | 20 % |
| 4. 申請企業之目前及中長期研發構想及營運 ..... | 10 % |

100 %

### (三) 評選原則

當申請標的之評審積分相若時，以未曾獲本創新研究獎之企業優先考慮，惟仍由評審委員會議決之。

## 六、得獎企業之義務

得獎企業有配合蒐編專輯、提供相關資訊及參加頒獎典禮、成果展示會與中小企業創新研究獎聯誼會等相關活動之義務，並有建立與傳承本獎項之精神與樹立學習典範之責任，得獎企業若經查證有違反本須知規定、不實陳述或違反環保與工安衛、智慧財產權等相關法規情節重大者，或其他爭議事件致影響社會大眾及本獎項形象者，主辦單位得撤銷得獎資格，其獎狀及獎助金應繳回，並自負法律責任。

## 七、其他

得獎名單預計於 105 年 11 月公佈，並以專函通知所有申請企業。



# 申請須知

## 附錄 1：行政院核定之中小企業認定標準相關規定

- ◆ 中小企業係指依法辦理公司或商業登記，並合於下列標準之認定：
  - 一、製造業、營造業、礦業及土石採取業實收資本額在新臺幣八千萬元以下者。
  - 二、除前款規定外之其他行業前一年營業額在新臺幣一億元以下者。
- ◆ 另就經常僱用員工數為中小企業認定標準，則不受前項規定之限制：
  - 一、製造業、營造業、礦業及土石採取業經常僱用員工數未滿二百人者。
  - 二、除前款規定外之其他行業經常僱用員工數未滿一百人者。
- ◆ 具有下列情形之一者，視同中小企業：
  - 一、中小企業經輔導擴充後，其規模超過第二條所定基準者，自擴充之日起，二年內視同中小企業。
  - 二、中小企業經輔導合併後，其規模超過第二條所定基準者，自合併之日起，三年內視同中小企業。
  - 三、輔導機關、輔導體系或相關機構辦理中小企業行業集中輔導，其中部分企業超過第二條所定基準者，輔導機關、輔導體系或相關機構認為有併同輔導之必要時，在集中輔導期間內，視同中小企業。

## 附錄 2：申請標的分類定義標準

類 別	定 義
資訊與電子類	含通訊設備、電腦通信、資訊軟體、資訊硬體、消費性電子、半導體製造、電子機械器材製造修配、視訊產品、視聽電子製造、電子零組件製造、光電器材、積體電路設計、其他電子資訊製造等資訊與電子相關之標的。
機械與自動化類	含機械設備製造、運輸工具製造，模組開發製造、航太製造、自動化機械、物流 / 倉儲設備、動力傳動 / 制動設備及零組件等機械與自動化相關之標的。
材料與生技類	含生物化學、纖維材料、工程塑膠材料、金屬材料合金、鑄造材料、化學品製成、生化技術、藥品製造、食品加工製造、醫療器材等材料結構製造及生化科技等材料與製程相關之標的。
服務類	含知識服務、技術服務與商業服務模式等，其成功經營模式、服務方式或行銷方法具有前瞻性、示範性及可提昇工作效率之標的（例如：環保服務類、能源服務類、檢測服務類等）。
綜合類	含一般民生用品、消費性產品、創意設計及非前述類別之申請標的物皆納入綜合類之範圍。

註：請企業先依上列分類定義填寫申請之標的所屬類別，審議過程中評審委員會得依標的內容與性質確認或更動申請類別。





第23屆  
**中小企業創新研究獎**  
The 23rd Taiwan SMEs Innovation Award

**得獎專輯**

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出版日期：中華民國 105 年 11 月