

汽车轻量化推动塑料电镀需求 Lightweighting Pushing Demand for Automotive Plastics Electroplating



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“汽车轻量化在保证汽车强度和安全性前提下可提高汽车动力,并能减少能耗、降低排气,达致节能环保。轻量化是全球汽车发展潮流,汽车整车生产商及零部件供应商可选择的轻质材料也越来越多,例如铝合金、镁合金、复合材料和塑料电镀制品等,并大范围更新及替换传统金属材料。据估计,塑料材料占轻量化车辆体积的50%,但仅占车辆重量的8%。一台典型轻型车辆可包含1,000多件塑料部件,而且汽车工业对塑料和聚合物复合材料的需求正在增长。其中,塑料电镀制品成为了主要轻质材料之一,并广泛应用于格栅、车门把手、商标、仪表盘、车轮壳罩等内外饰件上。

壳罩等内外饰件上。

在设备方面:JCU有自动电镀生产线,并配备了一系列自动分析装置及在线回收用设备;在药水方面:JCU具有独立且快速的研发能力,可对应各种高标准及多样化产品需求。例如JCU与丰田汽车公司共同研发的超级镍封技术,在1988年获得专利,至今仍保持技术领先优势;无铬粗化等新型环保产品也进入了后期研发阶段。JCU以「设备/药水一体化」为基础,是电镀行业为数极少的综合解决方案提供者。

在日益严峻的环保政策下,希望整条供应链,包括整车厂家、电镀厂家、药水厂家等,都能注重长期利益,注重可持续发展。

Automotive lightweighting, under the premise of ensuring the strength and safety of the car, can improve car power, reduce energy consumption and exhaust gas to achieve energy saving and environmental protection. Lightweighting is the global automobile development trend. For the past few years, lightweight materials such as aluminum alloys, magnesium alloys, composite materials and plastic plating products, have been gradually replacing traditional metals. It is estimated that plastic materials comprise approximately 50% of a lightweight vehicle's volume, but only about 8% of the vehicle's

weight. A typical lightweight vehicle can contain more than 1,000 plastic parts, and demand from the automotive industry is growing for plastics and polymer composites. Among them, plastic plating products have become one of the major lightweight materials, and are widely used in interior and exterior trims such as grilles, door handles, trademarks, instrument panels, wheel covers.

For equipment, we can provide an automatic electroplating production line, a series of automatic analysis devices as well as recycling equipment. For the plating solutions, we have strong R&D capabilities to meet high standards and diversification of product requirements. For examples, the super nickel seal technology jointly developed by JCU and Toyota Motor Corporation got patented in 1988 and till now still maintains its technological leadership. New environmentally friendly products such as chromium-free roughening have entered their last development stage. JCU is one of the few providers who can offer "Equipment - Plating Solutions" Integrated Solution in the electroplating industry.

Under the increasingly severe environmental protection policy, we hope the entire supply chain, including vehicle manufacturers, electroplaters and plating solution providers, can work together for long-term interests and sustainable development of the industry.

展台号 Booth No.: 5.1C15-20

探索本届展会先进技术及创新解决方案 Explore Advanced Technologies & Innovative Solutions at SFCHINA2018 Guangzhou

开展清洁生产,实践绿色环保、低碳环保,研发先进生产技术等方向是表面处理行业主要发展目标,配合当前环保及废物处理的法规要求,业界纷纷推出新技术及新产品,为表面处理行业提供更多创新解决方案。发掘更多新技术及新产品,请即登记参观「中国国际表面处理展」!

Cleaner production technology, green revolution, low carbon and advanced manufacturing technologies are key drivers in revolutionizing surface finishing industry. In line with the latest regulatory environmental requirements, new technologies and new products are designed to offer more innovative solutions for the industry. Explore more from visiting SFCHINA2018 Guangzhou!



ZONE 1 电镀及精饰技术 Electroplating & Finishing Technology

展馆 Hall: 5.1



电镀锌添加剂和锌镍电镀合金工艺 Zinc Plating Technology & Zinc Nickel Processes



安美特可提供市场上各种电镀锌添加剂和最全面的锌镍电镀合金工艺,以及各种各样高性能三价铬钝化剂和封闭剂。我们独特的工艺超越了工业上的最高要求,使产品外观与抗腐蚀性性能结合。

Atotech's product portfolio includes every variety of zinc plating technology, as well as the most comprehensive range of zinc nickel processes available on the market. This selection also includes a broad spectrum of high-performance Cr(VI)-free conversion coatings and sealers. Our unique processes are designed to exceed the industry's most demanding requirements, creating the optimal combination of high corrosion protection and sophisticated appearance.



安美特 Atotech
展台号 Booth No.: 5.1D01-06

Lackote LC 阴极电泳加工 Lackote LC Cathodic Electrophoretic Process



Lackote LC 阴极电泳加工用在固体黄铜、锌基压铸件和大多数电镀基板上沉积透明涂层,保护它们免受氧化并提高耐磨性。

Lackote LC is a cathodic electrophoretic process for depositing a clear coating on solid brass, zinc based diecastings and most electroplated substrates to protect them from oxidation and to enhance wear resistance.

土耳其 EPP Coatings
展台号 Booth No.: 5.1H11-12

铬盐系列 Chromate Salts



银河年产10万吨铬盐,生产红矾钠、铬酸酐、氧化铬绿、铬粉、红矾钾五大类、20多个品种的铬盐产品。

Yinhe manufactures chromate salts with an annual production volume of 100,000 MT. The company supplies sodium dichromate, chromic acid, chromic oxide green, basic chrome sulphate, potassium dichromate and 20 other kinds of chromate salts.

银河 YinHe
展台号 Booth No.: 5.1E37-40

AURUNA® 502 中性、无镉的金铜电镀液 AURUNA® 502 Neutral, Cadmium-free Gold Copper Electrolyte



AURUNA® 502 中性、无镉的金铜电镀液,不含游离氰化物。粉红色表面明亮,坚硬且耐磨。主要用于装饰性电镀,也适用于滑环等功能性应用。18K 镀层可以节省黄金,同时具有非常好的耐腐蚀性和抗锈蚀性。金铜电镀液适用于挂镀和滚镀,最高镀层厚度可达 10µm。

AURUNA® 502 is a neutral, cadmium-free gold copper electrolyte working without free cyanide. The red surfaces are bright, hard and abrasion-resistant. It is mainly used for decorative coatings, but is suitable for technical applications such as slip rings. As gold-saving, low-carat layers, the surface exhibits very good corrosion and tarnish resistance. The gold copper electrolyte can be used for rack and barrel plating, it can deposit layers of up to max. 10 µm in thickness.

优美科 Umicore

展台号 Booth No.: 5.1D19-20

铝阳极氧化用处理剂 Aluminum Anodizing Treatment Agent



阳极氧化处理赋予铝素材:丰富多彩的装饰性、防腐性、理想的硬度和耐磨性能,提高铝素材的应用领域,并丰富铝材感觉、触觉、视觉方面性能。



Anodizing treatment imparts the aluminum materials to become highly decorative, anti-corrosive, hardness and wear resistant. It enhances the application of aluminum materials and enriches all aspects of aluminum feel, touch and vision.

欧得美 ODM

展台号 Booth No.: 5.1F01-06

YMF-655LC 磁力泵 YMF-655LC Magnetic Pump



YMF-655LC 磁力泵特色:

无轴封设计,泵体完全密封,绝对防漏,不会引起泵体腐蚀及污染的烦恼,泵体材料采用聚炳烯玻璃纤维(GFRPP)及陶瓷材料,是理想的腐蚀性液体输送泵。

The shaftless design of YMF-655LC magnetic pump, completely seals pump body, offering leak proof. It causes no pump corrosion and pollution. The pump body is made of Allene mixed glass fiber (GFRPP) and ceramic materials, making it an ideal pump for transferring corrosive liquids.

韵茨 Yunci

展台号 Booth No.: 5.1E63-66

铜、镍、镍合金、镀铬系统 Systems for Copper, Nickel, Nickel Alloy & Chrome Plating



科文特亚的精饰技术包括用于铜、镍、镍合金、镀铬等先进系统,以满足当今全球市场(包括OEM汽车)不断提升的环保、外观和性能标准。

COVENTYA's Decorative Technologies include advanced systems for copper, nickel, nickel alloy and chrome plating that are engineered to meet the ecological, appearance and performance criteria of today's demanding global markets, including OEM automotive.

科文特亚 Coventya

展台号 Booth No.: 5.1D11-12

螺杆式冷水机 Anges Chiller



螺杆式冷水机比一般压缩机效能高 20~30%;采用高效率硅钢片及特殊槽型设计,配备内外全向式设计冷却流道,使压缩机马达在任何负载下均可发挥最高效率。

Anges Chiller has a 20~30% more efficient screw-rotor compressor than other common ones. It equips with efficient silicon steel and special slots, together with inside-and-outside all-around cooling runner ensuring maximum efficiency of the compressor motor at any load.

安格斯 Anges

展台号 Booth No.: 5.1G37-42

振华参展 SFCHINA，展位面积以倍增长 Hubei Zhenhua Chemical to Double its Booth Size at SFCHINA

石瑜 先生 Mr. Yu Shi
经理，湖北振华化学股份有限公司
Manager, Hubei Zhenhua Chemical Co., Ltd.



“振华自 2003 年改制以来，一直稳健发展，是国家重点铬盐生产骨干企业，目前是全国铬盐三强之一，亦是湖北省黄石市化工龙头企业。我们主要生产铬盐系列产品，拥有国内铬酸酐最大生产能力，亦是安美特（中国）唯一铬酸指定供应商。我们拥有一支精通铬盐生产及研发的熟练员工队伍，我们亦通过了 ISO9001 质量、14,000 环境和 18,000 职业健康安全管理体系认证，并实现有效运作。强大的研发能力和稳定的员工正是振华的核心竞争力，推动着公司不断发展成长。我们看到并能预测全球铬盐市场的增长需求，考虑竞争对手的

优劣，掌握各地区获利潜力等，及深入了解当地上、下游产业的完整性。当前，新兴市场快速增长增大了铬盐产品需求，尤其是当地快速增长的染料和颜料工业，更进一步扩展铬盐市场；此外，尽管美国等颜料市场已成熟，但预计未来仍将增长。再说，工业应用如金属处理和皮革处理等，对铬盐需求量每年都在不断增加。

SFCHINA 展会已踏入第三十一届，可见这个展会在行业的重要性。我们由 2010 年首次参展，不断增加投资在 SFCHINA 展（由 2010 年 9 平方米增至今年 84 平方米），主要是我们碰到不少高质量的本地和海外参观者，不但建立了不少销售线索，而且有效地推广我们的品牌。今年，我们期望认识更多潜在客户。

Since its reorganization in 2003, Zhenhua has been growing steadily. Zhenhua is a major chromium salts producer in China and it is currently one of the top three in the country. It is also a leading chemical company in Huangshi City, Hubei Province, China. We specialize in manufacturing chromium salt products. Zhenhua is the largest domestic producer of chromic acid anhydride, and also the sole chromic acid supplier of Atotech (China). We have a team of skilled staff who are proficient in chromium salt production and development. We have obtained ISO9001 quality management system certification, 14000 environment management

system certification and 18000 OHS management system certification. Strong R&D and ability to retain best staff are our core competitiveness that are driving Zhenhua to continue to grow and develop.

We have witnessed and forecasted the global chromium salt market to grow annually. We have studied the strengths and weaknesses of competitors, as well as the profit potential of each region and niche. Further, we have collected sufficient data to learn their local upstream and downstream industries thoroughly. Currently, the rapid growth of emerging markets has boosted demand for chromium salt products, particularly the fast-growing dyes and pigments industries. In addition, it is expected that the demand for chromium salt will continue to increase in mature markets, like the U.S. Many application sectors, such as metal finishing and leather treatment, continue to maintain high demand for chromium salts.

SFCHINA enters its 31st edition and is an important exhibition in the industry. Since our inception in 2010, we have increased our investment in our SFCHINA booth (from 9 sqm in 2010 to 84 sqm this year). Since then, we have met many quality local and international visitors. In addition, we have established a lot of sales leads and promoted our brands. This year, we expect to meet more potential customers.

展台号 Booth No.: **5.1C01-10**

ZONE 1区 电镀及精饰技术 Electroplating & Finishing Technology 展馆 Hall: 5.1



**综合半亮镀锡及铅锡
MR-1 Semi-Bright Tin/Lead**

美坚化工 Metfin Chemical 品质·技术·服务

适用于硫酸、氟硼酸及有机酸镀液；镀层的可焊性及抗腐蚀性非常好；适用于挂镀及滚镀；镀层均匀，不易着指纹及污渍；平整性及覆盖性能佳；应用在 SP 有机酸镀液时发泡性很低；调整铅的浓度可获得不同要求的铅锡比例镀层。

Suitable for sulfuric acid, fluoroboric acid and organic acid plating solution. Good solderability and corrosion resistance of the coatings. Suitable for hanging plating and barrel plating. Uniform coatings, not easy to get fingerprints and stains. Good leveling property and coverage performance. Low foaming property in the SP organic acid plating solution. The lead concentration can be adjusted to obtain different requirements of the lead-tin ratio plating.

美坚化工 Metfin Chemical
展台号 Booth No.: **5.1E15-16**

**XAN[®] 500 便携式测量仪器
FISCHERSCOPE[®] X-RAY XAN[®] 500 Mobile
Measuring Instrument**

Fischer XAN[®] 500 型 X 射线荧光仪器适用于能量色散 X 射线荧光测量，非常适用于非破坏性涂层厚度测量和材料分析。该仪器非常适用于质量保证、进货检验和过程控制等测量。仪器尺寸小，让您可测量困难的几何形状。

The FISCHERSCOPE X-RAY XAN 500 is a mobile and universally applicable energy dispersive x-ray fluorescence measuring instrument. It is well suited for non-destructive coating thickness measurement and material analysis. The instrument is perfectly suitable for measurements in quality assurance, incoming inspection and process control. Thanks to its small size, you can measure even on difficult geometries.



菲希尔 Fischer
展台号 Booth No.: **5.1E47-48**

**Incomond[®] 硫酸镍和氯化镍
Incomond[®] Nickel Sulphate & Nickel Chloride**

金柯生产 Incomond[®] 品牌硫酸镍和氯化镍。Incomond[®] 硫酸镍杂质含量低，无有机物带入，主要应用于高端电镀、电子电镀、化学镀、高端锂电池三元材料、高端镍氢电池材料及高纯试剂等用途。Incomond[®] 氯化镍则用于高端电镀、电子电镀、高纯试剂、催化剂等用途。

Jinco manufactures nickel sulphate & nickel chloride with a brand name Incomond[®]. Incomond[®] nickel sulphate has low inorganic impurity and no organic impurity. It can be used in quality electroplating, electronic plating, electroless plating, lithium battery, Ni-H battery and high-purity reagents. Incomond[®] nickel chloride can be used in quality electroplating, electronic plating, high-purity reagents and catalysts.

金柯 Jinco
展台号 Booth No.: **5.1F17-22**

**耐酸碱自吸泵
Acid-and-alkali Resistant Self-priming Pump**

耐酸碱自吸泵应用于高效酸碱废水输送，适用于工业废水、电镀、表面处理领域。扬程可达 40 米，流量 1,000L/min。

Acid-and-alkali resistant self-priming pump is primarily used for acidic or alkaline wastewater transportation. It is suitable for industries such as industrial wastewater, electroplating and surface treatment. The lift can reach 40 metres and the flow rate is 1,000L/min.

美宝 Mei Bao
展台号 Booth No.: **5.1D43-46**

ZONE 1A区 环境保护、安全及个人保护设备 Environmental, Safety & Protection 展馆 Hall: 5.1



**E-8-1 表面活性剂
E-8-1 Surfactant**

在中性及弱碱性条件下清洗性能优，在弱酸性条件下清洗性能也很好，适合用作中性或弱碱性或弱酸性清洗剂。有很好的渗透、乳化、分散和洗涤性能；可快速携带功能助剂，快速渗透到被渗透物体表面或内部。具有优良水溶性、耐碱性、耐硬水性，兼具乳化及洗涤功能。

E-8-1 has excellent cleaning performance under neutral and weak alkaline conditions, and good cleaning performance under weak acidic conditions. It can be used as a neutral, weak alkaline or weak acidic cleaning agent. It has good infiltrating, emulsifying, dispersing and washing properties. It can also quickly carry functional additives to infiltrate the surface or inside of the substrate. It is highly water soluble, acid and alkali resistant, hard water resistant, and also has the functions of both emulsification and cleaning.

荣强 Rongqiang
展台号 Booth No.: **5.1D27-28**

**ELSA 逃生呼吸器
Emergency Life Support Apparatus**

3M 科技 改善生活[™] ELSA 紧急逃生装置是 Scott Safety 专为帮助人们在工业、海上钻井平台或海上航运环境中快速逃离危险而设计的呼吸保护装备。产品符合最新欧洲标准 EN1146。ELSA 特点：提供 15 分钟逃生时间、内置口鼻罩、部件经镀镍处理可耐腐蚀、CE 标志符合 EN1146 标准、MED 认证。

The ELSA (Emergency Life Support Apparatus) from Scott Safety is designed for rapid escape from hazardous industrial and marine environments. The current design performs to the latest European Standard EN1146. ELSA features: 10~15 minutes versions, CE marked in accordance with EN1146, MED (Shipswheel) approved, corrosion resistant nickel plated components, standard breathing air charging adaptor, 10 year service interval.



3M
展台号 Booth No.: **5.1B23-26**

**Fluorolink[®] PFPE 聚合物改性剂
Fluorolink[®] PFPE Polymer Modifier**

Fluorolink[®] PFPE 是一系列基于全氟聚醚技术的通用型产品。Fluorolink[®] PFPE 通过永久性极薄氟化产品层覆盖在表面。旨在与诸如金属、金属氧化物、陶瓷、石头和纤维素等特殊基材相互作用，可降低表面能（低至 16mN/m），并赋予表面各种特性，如拒水性和拒油性、易于清除污渍、抗粘附及自润滑性。

Fluorolink[®] PFPE is a line of versatile products based on perfluoropolyether technology. Fluorolink[®] PFPE covers the surface with a permanent and very thin layer of fluorinated product. It may be specifically designed to interact with a particular substrate such as metal, metal oxide, ceramic, stone, and cellulose. It reduces surface energy (down to 16 mN/m) and imparts to the surface the combination of characteristics such as hydro and oil repellency, easy stain removal, anti-adhesion, and self-lubricity properties.

索尔维 Solvay
展台号 Booth No.: **5.1D51-52**

设计 - 建造静电粉末喷涂设备提供客户最大化效益 Design - Build Electrostatic Powder Coating System to Maximize Customers' Benefits

裕东

邓丽嫦女士 Ms. Queenie Tang
总经理, 裕东机械工程公司
General Manager, Yu Tung Engineering Company

裕东的静电喷涂控制组合包括瑞赛高仕 S600 系列静电粉末喷枪和控制系统。喷枪和控制系统可快速调整控制数值，可程序设定最多 100 条配方，及配置 SmartKlean 智能清理和 SmartAir 智慧气量配对。GCU-S600 喷枪控制设备有 5 种主要静电操作模式，以供操作人员选用；此外，操作人员亦可通过 SCU-S600 Mk2 对系统内的 GCU 喷枪控制单元进行单个或一次性集群式调节各个气、电数值。静电喷涂控制组合采用数字化电子和第三代总能量 TCC 静电技术，使喷枪操作友好性和可靠性更高。

裕东机械工程公司为客户设计建造静电粉末喷涂设备，不仅要

达到他们生产上的需求，实际上要给他们同行中带来显著优势，包括粉末消耗量减小、产量提高、最佳喷涂效果和干净作业环境，同时也要满足各方面安全和环保标准。达成一宗生意固然重要，但我们却不会为客户只求通过环保执法人员审查，而做一点门面上的设备更新和改善。我们要为他们真正改进生产，运用有限资源提供最大生产效率。事实上，裕东总能为客户多考虑多设想，让他们在生产上得到保证，这就是裕东建立客户忠诚度的方法。

There are a number of advantages of using our Ramseier Koatings Smart 600 electrostatic powder coating gun and control system. The gun allows to adjust settings quickly, with maximum 100 programmable settings, and it can be equipped with SmartKlean and SmartAir Control. There are 5 electrostatic charge modes in the GCU-S600 Gun Control Unit. With the use of the SCU-S600 Mk2, operator can easily and quickly adjust the different electrical or pneumatic settings (such as kV or μ A) of the GCU-S600 gun control units, either individually or in group. The

Ramseier Koatings Smart 600 has benefited from the latest development in digital electronic and Total Charge Control (TCC) electrostatics technology, therefore it is highly user-friendly and reliable.

Yu Tung designs and builds electrostatic powder coating system for customers. We do not only have to ensure the production lines to meet their requirement, but also have to create significant advantages to customers, such as reducing powder consumption, increasing productivity, offering optimal spray results, maintaining cleanliness of operation environment, as well as meeting all safety and environmental standards. Despite the fact that it is important to ensure one's business succeeds, we actually help our customers essential improvement rather than helping them to avoid review from environmental enforcement officers. In every individual case, we are able to provide customer a solution to maximize their production efficiency with limited resources. In fact, Yu Tung can always get ahead of customers' expectations and guarantee in production. Giving the best what we can do is how Yu Tung builds customer loyalty.

展台号 Booth No.: 4.1F01-08

ZONE 2区 涂装及涂料产品 Coating Applications & Coating Products

展馆 Hall: 4.1



AquaCoat 5020 水性静电喷涂系统 AquaCoat 5020 Electrostatic Systems for Waterborne Materials

WAGNER

AquaCoat 5020 是一款用于为水性漆和脱模剂施加静电的大型绝缘柜，可搭配使用手动式或自动静电喷枪。外部结构完全绝缘，涂料充电过程在内部进行，可适用于空气喷涂和混气喷涂应用。基础套装包含带有控制器的绝缘柜、涂料泵和喷枪，也可按需要定制。和传统喷涂方式相比，不仅可节省 50% 涂料，且可缩短 20% 喷涂时间，因此，可帮助工厂快速回收投资成本。



and guns available, can also be customized. Compared with traditional spraying way, it can not only save 50% material, but also 20% coating time. Therefore, factories can get a faster return on investments.

瓦格纳尔 Wagner
展台号 Booth No.: 4.1E11-15

AquaCoat 5020 is a large cabinet for the electrostatic processing of water-based lacquers and separating agent with manual or automatic guns. Completely insulated construction with internal charging of the materials for AirSpray and AirCoat application. Basic spray sets including cabinet & control unit, pump set, and guns available, can also be customized.

nLighten™ Encore 手动喷枪 LED 套件 nLighten™ LED Kit for Encore Manual Spray Gun

Nordson



nLighten™ 是 Encore 手动喷枪的 LED 套件，允许用户直观地检查未固化部件的粉末厚度和覆盖质量。Encore 粉末涂料手动喷枪系列的全新配件。这款名为 Encore nLighten LED 套件 * 的新产品可快速、方便、安全地从 Encore 手动喷枪中立即投射出 LED 强光束，有效点亮粉末喷涂表面。nLighten™ 能作为任何 Encore 手动喷枪的改装套件或任何 Encore 手动或移动装置中的随附套件。

nLighten™ is an LED kit for the Encore Manual Spray Gun that allows user to visually inspect powder thickness & coverage quality of an uncured part. nLighten™ is offered as a retrofit kit for any Encore manual spray gun OR as a ship-with kit included in any Encore manual or mobile unit.

诺信 Nordson
展台号 Booth No.: 4.1E07-10

EcoRP 10 R1100 机器人 EcoRP 10 R1100 Robot

DÜRR

EcoRP 10 R1100 是一款六轴机器人，最大伸展距离为 1,100 mm，总有效荷载达 10 kg。EcoRP 10 R1100 配备涂料应用技术，适用于 1K 和 2K 应用、高压和低压及水性和溶剂型涂料，是静电和其它涂料应用的理想选择。机器人与高速旋转雾化器的相互作用达致最大可重复性和连续精度。

The EcoRP 10 R1100 is a six-axis robot with maximum reach of 1,100 mm and a total payload of up to 10 kg. Equipped with paint application technology for 1K and 2K applications, high- and low pressure as well as water- and solvent-borne paint, the EcoRP 10 R1100 is the perfect choice for electrostatic and other paint application. The interaction of robot and high-speed rotating atomizer convinces through maximum repeatability and continuous precision.

杜尔 Dürr
展台号 Booth No.: 4.1F09-14

机器人 / 自动化装备 Robot/ Automation Equipment

Liush

柳溪的工业机器人已应用于涂装线，包括搬运、移载和涂装，实现了「无人化」车间。

Liush robots can be used for materials handling, conveying and painting making an unmanned paint shop is possible.



柳溪 Liush
展台号 Booth No.: 4.1F31-36

OptiStar4.0 喷枪控制器 OptiStar 4.0 Gun Control Unit

Gema

OptiStar4.0 可存储最多 250 个专项程序，便于任何时候调取使用。通过 DVC 和 PCC 技术可对所有应用参数包括电压、电流和出粉量等进行精确控制以确保完美喷涂效果。配合电子应用程序 E-app 可在手机端监控喷涂过程，为每个作业自动生成生产力统计和成本计算，提前安排维护周期。OptiStar 4.0 为喷枪控制树立新标杆，为智能自动化生产开启新纪元。



for each job, whilst upcoming maintenance can be scheduled directly from the App. OptiStar 4.0 sets a new benchmark for gun control and opens a new era for intelligent automated production.

金马 Gema
展台号 Booth No.: 4.1E01-06

The OptiStar can be programmed individually and can save 250 customized programs, which can be retrieved at an time. The proven DVC and PCC technologies allow crucial application parameters, such as high voltage, spraying current and powder output, to be well controlled, therefore ensuring perfect coating results. The Electrostatic App allows users to monitor the coating process. Productivity statistics and cost calculations are statistically generated

上届观众对展会的评语 What our Past Visitors Said about the Show



“ 参观目的之一是做好采购的策略，寻求新供应商或合作伙伴。
I aimed to prepare for purchasing decision, and sought new suppliers or partners. ”

李亚飞先生 Mr. Yafei Li
新乡市夏峰电器有限公司
Xinxiang City Xiaofeng Electrical Appliance Co., Ltd.



“ 展会让我看到市场上现有产品和技术，同时提供良好接触机会。
It was an excellent occasion to come and see different products and technologies in the market and a perfect frame of networking. ”

沈爱华先生 Mr. Aihua Chen
副总经理兼高级工程师，中国航天科工集团公司南京晨光集团有限责任公司
Deputy General Manager and Senior Engineer, Nanjing Chenguang Group Co., Ltd., China Aerospace Science & Industry Corporation



“ SFCHINA 展会规模不俗，优秀的参展商为行业搭建一个集行业交流的商贸平台。
SFCHINA has been great. The quality of exhibitors is always excellent, making it one of the best trading platforms for the industry. ”

Mr. Vitalii Ovchinnikov 先生
首席技术专家，Neon Powder Coatings, 俄罗斯
Chief Technologist, Neon Powder Coatings, Russia



“ 「中国国际表面处理展」展商组合优秀。展会让我看到市场上现有的产品及技术。
There was a good mix of exhibitors here. It was a good occasion to see different products and technologies in the market. ”

Mr. Shyamnarayan Vishwakarma 先生
Sadguru Enterprise, India 印度

ZONE 2区 涂装及涂料产品 Coating Applications & Coating Products 展馆 Hall: **4.1**



水性无机瓷膜涂料
Waterborne Inorganic Ceramic Coatings

ECL excilon 可靠陶瓷涂层
宜瓷龙生产水性无机瓷膜涂料, 产品应用于灶头、炊具、蛋糕盘、烤瓷板、水泥板、太阳能等领域。用于炊具的陶瓷涂料, 健康安全, 无任何有机分解物质, 具有优异耐高温性和良好不沾性能; 用于分火器的陶瓷涂料具有优异耐冷热冲击性能和耐酸性能。
Excilon manufactures waterborne inorganic ceramic coatings. Its products are used for burner covers, cookers, cake pans, ceramic coated Al panels, calcium silicate boards and solar energy applications. Ceramic coatings for cookware application is good for health and safety, and it releases no organic decomposition but has excellent heat resistance and non-sticky performance. For burner covers, it has excellent heat and cold shock resistance, as well as acid resistance.



宜瓷龙 Excilon
展台号 Booth No.: **4.1G43-46**

GXF 轻型封闭悬挂链条系列
GXF Light Closed Suspension Chain Series

GUANG DA 江苏光达智能设备有限公司专业生产输送机配件。GXF 轻型封闭悬挂链条系列包括 20 齿旋转吊具、GXF250 上下捕捉器、GXF250 老式驱动链条、GXF250 单点吊具、GXF200 梁式吊具、GXF200 单导轮链条。
Jiangsu Guangda Intelligent Equipment Co., Ltd. specializes in manufacturing conveyor accessories. The GXF light closed suspension chain series include GXF200 single roller chain, 22 gear rotating hooks, GXF200 beam sling, three-rail drive GDPF250 ground, three-rail chain GDP250 ground, GXF250 old drive chain, GXF250 single-point sling, GXF250 trap up-and-down, 20 gear rotating hooks and GDP250 ground driving devices.

光达 Guangda
展台号 Booth No.: **4.1F27-30**

GX132 手动喷枪
GX132 Lightweight Manual Powder Coating Gun

PARKER IONICS 装有带电量比一般产品高 1.3 倍的超脉冲冲击力, 箱体里面角部的循环非同寻常, 箱体里面底部粉末涂料堆积少, 喷枪近距离喷涂时, 粉末涂料飞溅量少, 喷枪电线两端接插头, 可简单交换, 喷枪先端的加载电压, 最大 100Kv (标准电极: 阴极)。
Mounted with Super Pulse Power which has 1.3 times of electric charge of conventional product. Outstanding penetration into the inside corners of box shaped work. Less powder accumulation on the inner floor of box shaped work. Less powder is blown away or lost even if the gun is moved close to the parts to be coated. The gun cable has connectors on both ends for one-touch replacement. Voltage impressed to gun tip is a maximum of 100Kv (standard polarity: negative).



帕柯 Parker
展台号 Booth No.: **4.1E37-42**

PARKER IONICS

日本PARKER IONICS携超级脉冲功率专利首次登陆中国

Super Pulse Power 超级脉冲功率 4大功能

代理商招募中 欢迎垂询

帕柯工业设备(上海)有限公司 IONICS事业部
Add: 上海市闵行区伊犁南路111号钱江商务广场14楼B座
Tel: (021)-6270-3711
hp: www.parker-eng.cn

パーカーエンジニアリング株式会社 PARKER ENGINEERING CO.,LTD

全方位自动喷涂机
Omni-Directional Automatic Spraying Machine

Guanson 全方位自动喷涂机采用德国 Festo 导轨, 持久耐用, 机身结构一体化, 高速运作更加平稳; 手摇轮脉动发生器, 便于精确, 快捷编程。
伺服马达精确控制, 辅助探针功能, 精度高、产品稳定; 机架体积小, 移动方便; 针对性喷涂专业强, 量产高, 更省漆, 高效率。采用机械手关节臂, 喷涂方位自由度扩大, 专门针对工件死角位置。
The Omni-Directional Automatic Spraying Machine equips with German Festo's durable guideway and integrated casting machine frame for more stable running effect at high speed operation. It is installed with a hand-round pulse generator for precise and convenient programming, as well as a servomotor control with auxiliary needle functions, ensuring high precision and steady quality. The machine is equipped with a robot compliant wrist system so that it can expand its spray ranges, including corners.



广伸 Guanson
展台号 Booth No.: **4.1E63**

第三代铝材 O 型立式喷房
3rd Generation O Shape Vertical Al Powder Coatings Booth

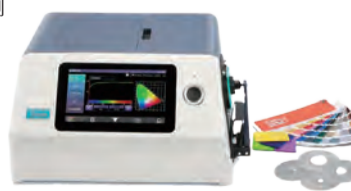
JOIHEY 君禾机电 采用不粘粉末的三明治工程塑料板制作喷房主体, 喷房内部呈圆柱形, 没有棱角位; 喷房配置自动清理装置, 在换色时, 自动清洁系统在升降机带动下, 从上而下清理喷房。
The spray booth is made of sandwich engineering plastic panel, which does not adhere to powder. The inside of the spray booth is cylindrical therefore there is no corner. The spray booth is equipped with an automatic cleaning equipment. Driven by a lift, the automatic cleaning system can move from up to down to clean up the booth when changing colors is required.



君禾 Joihey
展台号 Booth No.: **4.1E31-36**

台式分光测色仪 YS6060
YS6060 Benchtop Grating Spectrophotometer

3nh 颜色检测行业领军企业 FOCUS ON COLOR YS6060 是 3nh 公司独立开发完拥有自主知识产权的国产台式光栅分光测色仪。TFT 真彩 7inch 电容触摸屏、光源、照明方式: 反射 D/8°、透射 D/0° (包含 UV/ 排除 UV 测量) 测量颜色精准稳定、存储容量大、PC 端强大扩展功能, 用于实验室颜色精确分析与传递。
YS6060 is a benchtop grating spectrophotometer which is developed by 3nh independently with intellectual property. YS6060's features include 7 inches TFT capacitive touch screen display, full illuminants, reflective d/8 and transmissive d/0 geometry (including or excluding UV), a stable and precise color measurement, large storage and powerful PC software.



三思时 Threesh
展台号 Booth No.: **4.1H37-39**