

UK ADVANCED ENGINEERING CAPACITY CATALOGUE

英国先进制造行业概览

Oct 2024



欢迎来到 世界领先制造业大国

成千上万家优秀企业为英国的各行各业提供材料、部件、生产机械和设备、测试设备以及发电设备，这也使得英国得以在尖端工程与制造领域享誉世界。

从航空航天、汽车到能源、土木工程和海洋海事，尖端制造业供应链涉及的行业相当广泛。随着第四次工业革命的到来，若您选择在英国进行投资并开展业务，这意味着您的企业将加入一个强大的尖端制造业生态系统，进而获得进入英国当地和国际市场的宝贵机会以及许多其他优势，其中包括：具有先进研发能力的高技能技术基地、最顶尖的精密设备、有利的营商环境以及通过自动化、数字化提高生产率的机会。

无论您的企业是希望敲开新市场的大门，提高制造生产率，还是希望享受加入成功制造业生态系统的好处，本指南都将有助于您进一步了解英国的各项核心竞争力。

英国在航空航天、汽车和技术等尖端制造业均处于世界领先水平。在英国尖端制造业供应链上，有着数以千计的可以提供各种产品和服务的公司，它们可以为相关行业提供所需的精密产品和服务。

材料

合金、复合材料、特种钢、工程塑料、涂饰、涂层、防护设备等

部件

涵盖应用于多个行业的部件和组件，包括流体处理设备、泵和压缩机

动力系统

包括电动机、驱动器和发电机

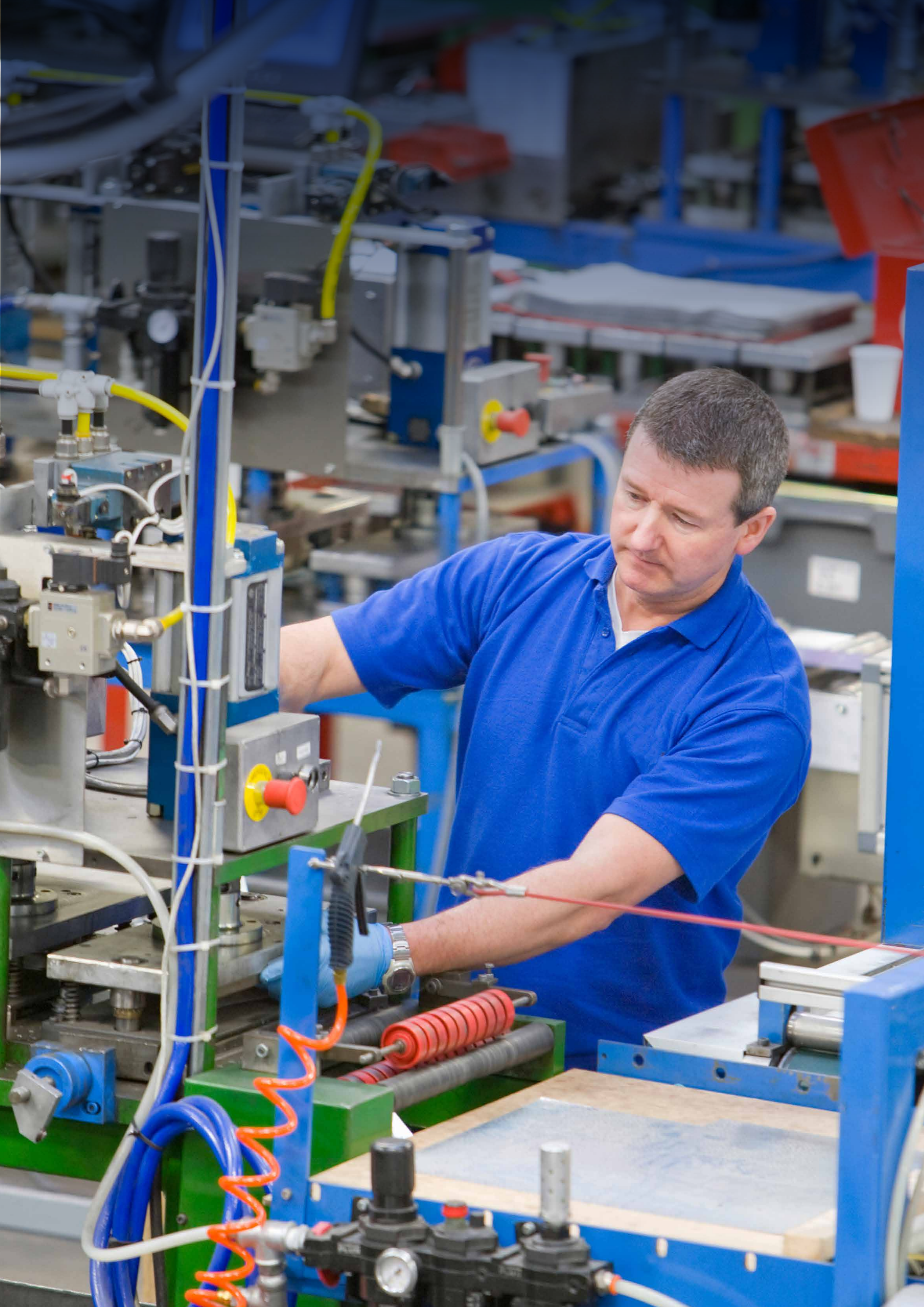
设备

包括成型、整形和连接设备；起重、移动和运输设备

检查、修理及相关服务

电子设备、传感器和控制器；测试和检查设备；维护和修理设备

英国尖端制造业供应链上的企业正积极把握第四次工业革命带来的机遇，开发新的能力。复合材料、低碳技术、数字处理工程、增材制造、机器人和自动系统都是投资者进入英国市场的机会所在。对于有兴趣来英国发展业务的国际合作商来说，英国这一不断增长的市场代表着一个全新的机会，能够加入一个蓬勃发展且充满创新性的高价值制造业（HVM）生态系统。



欢迎与我们联系!

Contact us if you have any business inquiry.

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ABI Electronics

 abielelectronics.co.uk

ABI Electronics has designed and manufactured high quality test, diagnostic and measurement instrumentation in the UK since 1983. ABI's range of products are commonly used in the test and maintenance of highly complex systems across a variety of industries and applications worldwide. Customers choose ABI products for their flexibility, affordability and time-saving features.

Created in 2015, ABI's initiative "Repair, don't waste" has become a global movement aimed at increasing awareness to the benefits of industrial electronics repair over replace across the business spectrum. With electronic waste soaring to levels never seen before, ABI's goal is to make its products accessible and available to customers worldwide to extend the life of their strategic electronic driven equipment.

ABI has now over 40 years' experience of developing the highest quality testing and fault-finding equipment, backed by a global reputation for quality and service. Over all these years, ABI has remained loyal to its principle of full design and build high quality products in the UK

Unique selling point and focus

- Design and manufacture specialist systems used in the fault finding and repair of industrial electronics circuit boards.
- Root-cause identification of faults for predictive maintenance.
- ABI products are widely used in the industry, renewable energy, transportation, automobile and other advanced engineering market.

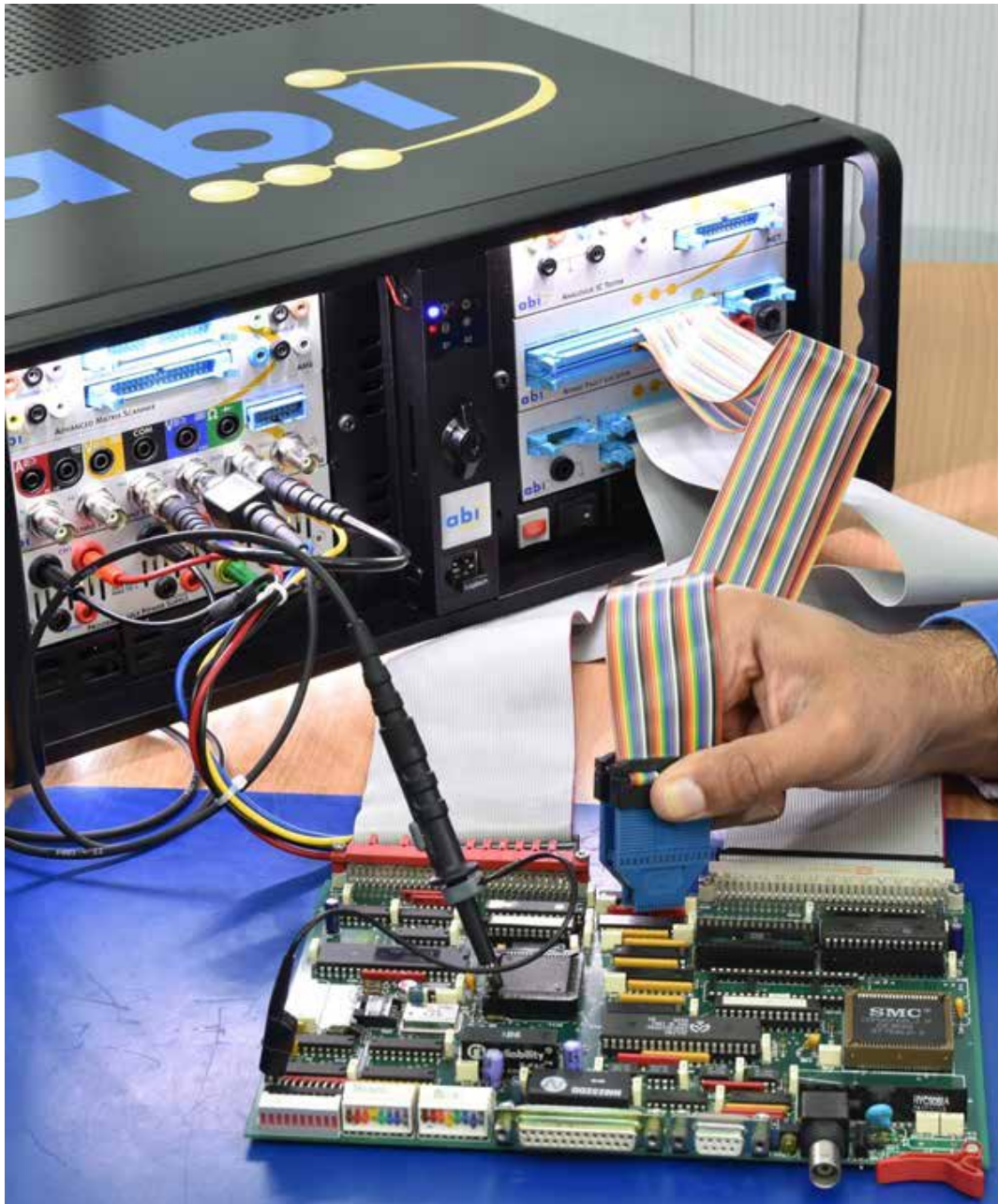
自 1983 年以来, ABI Electronics 一直致力于: 英国设计和英国制造的高质量测试、诊断和测量仪器。ABI 的产品通常用于全球各种产业, 以及应用于高级电子系统的测试和维护。客户选择 ABI 产品是因为它们具有灵活性、经济性和时效性的特点。

始于 2015 年, ABI 的倡议 “修理, 不浪费” 已在电子工业中形成一股全球性的运动, 使其了解以 “维修取代更换” 在整个业务范围的好处。随着全球电子垃圾的数量上升至前所未有的情况, ABI 的目标是提供全球客户可以入手使用的产品, 用以延长其重要电子设备的使用寿命。

ABI 现在拥有 40 多年开发最高质量测试和故障查找设备的经验, 并以质量和服务享誉全球。自始至终, ABI 一直忠于其在英国全设计和打造高品质产品。

公司特色

- 设计和制造用于工业电子电路板故障检测和维修的专业系统;
- 预防性维护故障的根源判别;
- ABI 产品广泛应用于工业、可再生能源、交通、汽车工业等先进工程市场。



Adam Equipment

 adamequipment.co.uk

Adam Equipment was founded in the UK in 1972, with the goal of providing superior value, high quality weighing equipment.

Just over 50 years later Adam is an established, ISO9001 accredited manufacturer; a brand renowned for its complete range of weighing scales, laboratory balances and moisture analysers, supported by industry-leading warranties and a worldwide network of dealers.

Adam's distribution channel is maintained by wholly owned facilities strategically located in Europe, North America, Africa, Asia and Australia. These locations provide technical, warehouse, sales, and marketing assistance to all its customers. Research and development is based in the UK head office, with manufacturing based in China. The company meets or exceeds most international manufacturing standards and regulations.

Adam Equipment and its OEM branded products are used daily by customers worldwide. You'll see Adam products in the scientific, medical, educational, industrial, manufacturing and retail sectors, to mention just a few. Customers rely on Adam Equipment to provide them with consistent and accurate results.

Key products within the Adam range include Luna, a high precision range of analytical and precision laboratory balances with USB connectivity, superb accuracy and large, bright, clear weight display. It stands for Adam Equipment's advanced engineering technology; Aqua ABW-S, an IP68-certified waterproof weighing scale; and Highland HCB, one of the most popular precision balances used for education around the world, with robust, Shockprotect protection, HandiCal automatic internal calibration and RS-232/USB data transfer connectivity.

艾德姆衡器于1972年在英国成立，旨在提供价值卓越、质量超凡的称重设备。

成立仅50多年后，艾德姆就成为了知名制造商，并通过了ISO9001认证；该品牌以其品种齐全的称重秤、实验室天平和水分分析仪而闻名，拥有行业领先的保修服务和覆盖全球的经销商网络。

艾德姆的分销渠道由位于欧洲、北美、非洲、亚洲和澳大利亚的全资子公司维护，他们为客户提供技术、仓储、销售和营销协助。其研发总部设在英国，制造总部设在中国。公司产品满足，甚至超越了大多数国际制造标准和法规的要求。

艾德姆衡器及其代工生产的产品为全球科学、医疗、教育、工业、制造业和零售业等各行业客户日常所用，为客户依提供一致且准确的结果。

艾德姆旗下的主要产品包括高精度分析天平和精密实验室天平系列Luna，具有USB连接功能、超高精度和明亮清晰的大显示屏，体现了艾德姆衡器领先的工业制造水平；IP68级防水称重秤Aqua ABW-S；全球教育领域最常用的精密天平之一Highland HCB，具有强大的防震保护功能、HandiCal自动内部校准功能和RS-232/USB数据传输连接功能。



Coltraco Ultrasonics

 coltraco.com

Coltraco Ultrasonics are a high-exporting British manufacturer of ultrasonic and acoustic systems and instrumentation. Our Organisation comprises:

- The Company: COLTRACO ULTRASONICS.
- Our laboratory, co-located with the Centre for Advanced Instrumentation, part of the Department of Physics, Durham University.
- The Durham Institute of Research, Development & Invention
- The Centre for Underwater Acoustic Analysis (CUAA), Durham University.

Our technologies are used across 25 diverse market sectors from shipping and safety engineering to offshore energy, renewables, and the built environment.

We are proud winners of the Queen's Award for Enterprise in International Trade in 2019 and 2022 and have won numerous maritime safety, safety engineering and fire safety awards.

We support our instruments globally, calibrating equipment types manufactured over 20 years ago.

We deliver:

- Safesite™ on land: from monitoring the airtightness of an ICU hospital ward, to ensuring energy efficiency in the home.
- Safeship™ at sea: from ensuring the watertight integrity of a ship or offshore platform to the monitoring of the gaseous extinguishing system contents, providing protection against fire.

We do this through our science-led instrumentation and systems in:

- Level – Non-invasive contents monitoring of fluids, such as transformer oils or liquefied gases e.g., CO₂, NOVEC™1230, FM-200™ in cylinders and tanks.
- Tightness – Identification and quantification of airtightness & watertightness in structures on land for room integrity & airtightness and watertight and compartment integrity at sea, generating air and water flow rates respectively.
- Flow – Non-invasive flow measurement in process control including the monitoring of flow, volume, mass, and energy rates in a variety of pipework.
- Thickness – NDT corrosion monitoring instruments for measuring thicknesses of various materials.
- Pressure - Non-invasively monitoring the contents of pressurised, non-liquefied gases contained in fire cylinders, such as Inergen®, based on changes in pressure.

可特可超声波是一家来自英国的超声波、声学系统及仪器制造商，产品大量出口海外市场。组织构成如下：

- 公司：英国可特可超声波有限公司
- 实验室，与杜伦大学物理系先进仪器中心同处办公
- 杜伦研发与创意研究院
- 杜伦大学水下声学分析中心（CUAA）

我们的技术可应用于25个不同的市场领域，涵盖航运、安全工程、海上能源、可再生能源和建成环境。

我们在2019年、2022年两次荣获国际贸易女王企业奖，并获得了众多海事安全、安全工程和消防安全领域的相关奖项。

我们的仪器支持服务覆盖全球，甚至可以为20余年前生产的仪器提供校准服务。

我们提供：

- Safesite™（陆上）：适用于监测重症监护病房的气密性、确保家庭能源效率。
- Safeship™（海上）：适用于确保船舶或海上平台的

水密完整性、监测气体灭火系统内容物，提供防火保护。

我们通过科学仪器和系统来实现以上目标：

- 液位：对流体（如变压器油或液化气体，包括气缸和储罐中的CO₂、NOVEC™1230、FM-200™）进行非侵入式含量监测。
- 密封性：识别、量化结构的气密性和水密性，以确保陆上结构的空间完整性和气密性，以及海上结构的水密性和隔间完整性，并分别生成气流和水流速率。
- 流量：在过程控制中进行非侵入式流量测量，包括监测各种管道中的流量、体积、质量和能量率。
- 厚度：用于测量各种材料厚度的无损检测（NDT）腐蚀监测仪器。
- 压力：根据压力变化，对消防钢瓶（如Inergen®）中的非液化加压气体进行非侵入式含量监测。



Crowcon Detection Instruments Ltd

 crowcon.com.cn

Crowcon Detection Instruments Ltd was established in 1970. It specializes in the research and development, production and manufacture of gas detection instruments and systems, and focuses on the fields of gas safety, air quality and gas process control. Our mission is to grow a safer, cleaner, healthier future for everyone, every day by providing best in class gas sensing solutions. Crowcon's products cover gas detection equipment and systems for combustible gases, toxic and harmful gases, ozone odor and volatile gases (VOCs), which are widely used in environmental protection, petrochemical, waste water, marine and other industries.

It specializes in the research and development, production and manufacture of gas detection instruments and systems, and focuses on the fields of gas safety, air quality and process control.

科尔康安全设备制造有限公司成立于 1970 年，专业从事气体探测仪器及系统的研发、生产和制造，重点关注气体安全、空气质量和气体过程控制领域。其使命是成为气体传感解决方案的一流供应商，为全人类创造一个更安全、更清洁、更健康的未来。公司产品主打气体探测设备及系统，可探测可燃气体、有毒有害气体、臭氧异味和挥发性气体（VOCs）等，均已在环保、石化、废水处理、海洋等行业实现广泛应用。

公司专业从事气体探测仪器及系统的研发、生产和制造，重点关注气体安全、空气质量和气体过程控制领域。



Kore Technology Ltd

 kore.co.uk

Kore Technology Ltd. has been in business designing and manufacturing high performance scientific instruments based on Time-of-Flight mass spectrometers since 1991. We have delivered over 400 analytical instruments to researchers around the world.

Our flagship product is the PTR 3c, a transportable PTR-MS suitable for real-time, automated VOC monitoring and analysis. Through our partnership with SDL Beijing Technology Co, the PTR 3c is often installed in the back of a van, performing mobile VOC measurements on the roads around Beijing and Shanghai for clients and government.

Aside from our main products, Kore Technology specialises in designing and building customised mass spectrometers, related components, and other vacuum-based equipment. We are able to offer instrument customisation to our clients at sensible prices because we endeavour, where possible, to use existing modules from our large array of previous designs. This, combined with any one-off engineering that is required, allows us to create instruments tailored to our clients' specific requirements.

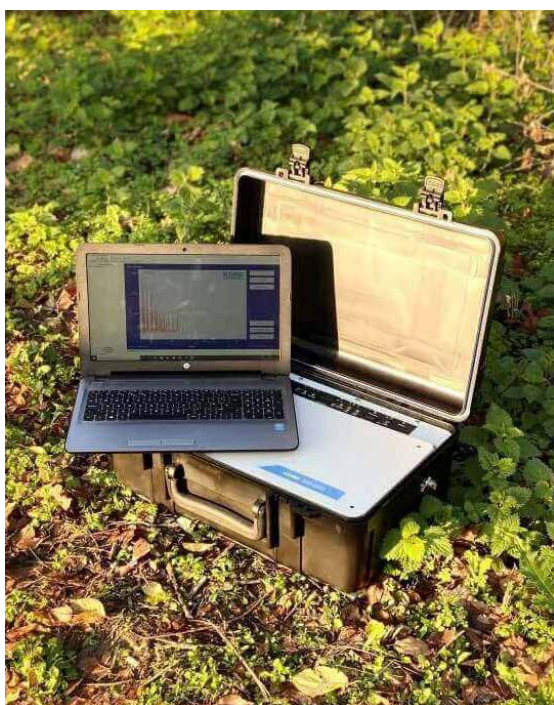
Kore Technology has always aimed to provide the highest quality instruments at an affordable cost. We design, build and test all our TOF-MS instruments and components in-house, keeping the cost as low as possible for our client.

科睿科技有限公司自1991年成立以来，一直从事基于飞行时间质谱技术的高性能科学仪器的设计和开发业务。我们已经向世界各地的研发人员成功交付了超过400套分析仪器。

我们的旗舰产品是PTR3c，是可运输的质子转移飞行时间质谱仪，适用于对可挥发性有机物（VOC）的实时、自动的监测和分析。通过我们与北京雪迪龙科技股份有限公司的合作关系，PTR3c常被安装在厢式货车的车厢里，为北京和上海等地的客户和政府部门提供VOC的移动式走航监测服务。

除了我们的主要产品以外，科睿公司也专门从事定制化质谱仪、相关部件和其他真空设备的设计和制造。基于我们之前积累的一系列广泛的设计经验，通过我们尽可能努力地使用现有模块，我们有能力以合理的价格给客户提供仪器的定制化服务。在此基础上结合必要的一次性工程，允许我们根据客户的特殊需求定制化地创造仪器。

科睿公司始终致力于提供价格合理的高质量分析仪。所有的飞行时间质谱仪整机和部件均由我们自己进行设计、制造和测试，以此获得成本优势，为客户创造价值。



Oxford Instruments Plc

 oxinst.com

Oxford Instruments designs, supplies, and supports high-technology tools and systems with a focus on research and industrial applications. Innovation has been the driving force behind Oxford Instruments' growth and success for 60 years, supporting its core purpose to address some of the world's most pressing challenges. The first technology business to be spun out from Oxford University, Oxford Instruments is now a global company and is listed on the FTSE250 index of the London Stock Exchange (OXIG). Its strategy focuses on being a customer-centric, market-focused Group, understanding the technical and commercial challenges faced by its customers. Oxford Instruments advanced products and services allow the world's leading industrial companies and scientific research communities to image, analyse, and manipulate materials down to the atomic and molecular level, helping to accelerate R&D and increase manufacturing productivity. Their metrology tools are widely used to advance Li-ion battery performance, develop new high-performance materials for automotive and aerospace applications. In addition, they offer tools supporting additive manufacturing by measuring materials properties at the micro and nanoscale and monitor raw materials and manufacturing technical cleanliness by employing fast, high resolution microscopy based particle analysis and identify molecular structure and monitor reaction dynamics using benchtop NMR tools.

牛津仪器公司主攻高科技仪器和系统的设计、供应和支持，并聚焦于研究与工业应用。建立 60 年来，牛津一直坚持以创新促成长、谋成果，并以之为支点，以期达成应对当今世界种种紧迫挑战这一核心目标。牛津仪器是牛津大学创办的第一家科技企业，现已发展成为一家全球性公司，已在伦敦证券交易所上市（上市代码：OXIG），还被纳入了富时 250 指数。牛津仪器坚持以客户为中心、以市场为导向的集团发展战略，致力于了解客户所面临的技术和商业挑战。牛津仪器为全球顶尖的工业公司和科学研究团队开发原子级和分子级材料成像、分析和操作产品及服务，加速研发速度，提高生产效率。牛津仪器生产的度量仪器被广泛用于提升锂离子电池性能，开发汽车和航空航天领域的新型高性能材料。此外，牛津仪器还生产增材制造分析仪器，通过测量材料的微观和纳米尺度的性能，凭借快速、高分辨率的显微镜颗粒分析来监控原材料和制造工艺清洁度，更可利用各类台式核磁共振仪器识别分子结构和监控分子反应动态。



Peak Scientific

 peakscientific.cn

PEAK Scientific is the world leader in the manufacture & development of laboratory grade gas generators, focusing on the development of highly reliable and robust gas generators. With years of valuable experience, we have developed a wide range of industry-leading gas generators, including: nitrogen, hydrogen, zero-air and oxygen generators for a variety of applications, including LC-MS (Liquid Chromatography – Mass Spectrometry), GC (Gas Chromatography) and other laboratory instruments.

Peak had been co-operating closely with government, universities, academic research institutions, medical institutions, and enterprises in many industries. With local Peak Engineers on every continent, we provide a project-managed nitrogen solution to our customers, backed up with our industry-leading support no matter where you are in the world.

PEAK keeps gaining momentum China and won the British Business Award twice in 2016 and 2020 respectively. We believe that every Peak gas generator carries our relentless pursuit of success and excellence.

PeakScientific是实验室级气体发生器制造和研发领域的领导者, 专注于开发安全可靠的气体发生器。凭借着多年的宝贵经验, 我们开发出一系列行业领先的气体发生器, 包括: 氮气、氢气、和零级空气发生器以及制氮机、制氧机, 适用于包括LC-MS (液质联用) 和GC (气相色谱) 及其他实验室设备在内的多种应用。

Peak与政府、高校、科研机构、医疗机构以及制药、化工等领域企业紧密合作, 提供一站式气体解决方案。Peak的专业工程师遍布全球, 无论您身在何处, 我们都能提供行业领先的服务与技术支持。

Peak在中国一直保持了良好的发展势头, 并在2016、2020年两次斩获英国商会颁发的英国商业大奖。我们相信每台Peak发生器都承载着这种对成功与卓越的不懈追求!



Powelectrics

 powtechnology.com

IIoT/II4.0 helps manufacturing reduce downtime and improve efficiencies. In order to achieve this sensors with remote connectivity need to be fitted. The right sensor technology needs to be used, whether it be level, pressure, temperature, vibration or perhaps oil quality, pH, CO₂, humidity. Not one sensor provider suits every situation so a universal connectivity solution that can work in industrial situations is needed. One that can be deployed in scale with confidence without bespoke engineering with low installation and maintenance costs.

Powelectrics have 30 years' experience in sensing, instrumentation and communications. We have developed the globally well-proven Metron IIOT hardware and flexible, intuitive MetronView cloud.

The portfolio covers a wide range of circumstances, is able to connect to a large number of different sensors, utilising numerous communication methods and copes with a range of environments. It's proven technology that can be deployed with confidence.

工业物联网/工业4.0帮助制造业减少停产时间，提高效率。为了实现这一目标，需要安装具有远程连接功能的传感器。无论是对于液位、压力、温度、振动，亦或是对于油质、pH值、CO₂、湿度，都需要应用正确的传感器技术。没有一个传感器供应商适合所有情况，所以需要有一个能在工业环境下工作的通用连接解决方案。该解决方案无需定制工程，安装和维护成本低，且可以放心地大规模部署。

Powelectrics公司在传感、仪器和通信领域拥有30年的经验。我们开发了经过全球验证的Metron IIOT硬件和灵活、直观的Metron View云。该产品系列涵盖了各种各样的情况，通过利用大量的通信方法，能够连接到多个不同的传感器，并能应对各种环境。所使用的技术已通过验证，可以放心部署。

Any sensor. Anywhere

Connecting sensors
to the internet of things

- **KNOWLEDGE**
 - User Interfaces
 - Platform
 - Communications
 - Gateways
- **SENSORS**

Temperature
Level
Pressure
Flow
Vibration
Wind speed
Wind direction
Humidity
CO₂
Distance
Hours run
Fault
Intruder
Collision
State

Any sensor
Anywhere

Metron4
Connecting Sensors to the Cloud

NEW VERSION
& improved

Metron VIEW

Current data

Historical data

Alerts

3rd party software



Prior Scientific

🌐 prior.com

Prior Scientific has been manufacturing precision optical and electromechanical equipment and instrumentation for over 100 years.

As the leader in the development of systems for precision motion control and microscope automation, we work closely with our partners and customers to develop customized optical and automation systems as well as providing a wide range of standard microscopy components.

We partner with system integrators and OEMs to develop prototypes, custom-built products, and complete imaging system solutions according to individual customer requirements for a variety of applications. Our integrated design and manufacturing facilities enable us to seamlessly transition from concepts to production systems. Typical applications for our products are found in photonics, life science research, material science, nanotechnology, medical devices, metrology, and semiconductor manufacturing.

We design, develop, and manufacture products in our facilities in the UK and USA, which are both ISO 9001:2015 certified. Regional offices in

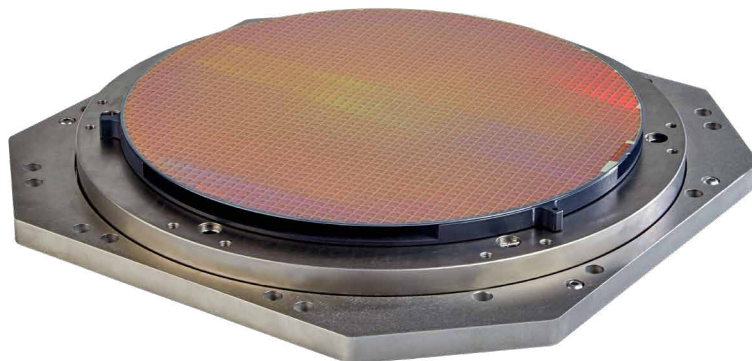
Germany, Japan, and China provide additional worldwide support.

Our key product lines include:

- Microscope automation equipment including high-precision motorized microscope stages
- Fully motorized OpenStand imaging platform
- Automated slide and well plate loaders
- Piezo nanopositioning systems
- Motorized objective and filter cube changers and filter wheels
- Laser autofocus systems
- Custom and OEM electromechanical and optical systems

Our mission

We understand that every problem requires a unique approach. Our team works closely with customers and partners to identify their specific needs and design a cost-effective and tailored solution that meets their unique requirements. We continue to push scientific boundaries and constantly build on and improve our expertise in automated precision optical and mechanical systems.



100多年来，Prior Scientific一直致力于制造精密光学组件、机电设备以及仪器仪表。

作为精密运动控制和显微镜自动化系统开发领域的领导者，我们与合作伙伴和客户密切合作，开发定制光学和自动化系统，并提供各种标准显微镜组件。

我们与系统集成商和原始设备制造商合作，根据客户的个性化要求，针对各种应用开发原型、定制产品，并提供完整的成像系统解决方案。我们的集成设计和制造工厂能够将概念无缝接入生产系统。我们的产品广泛应用于光子学、生命科学研究、材料科学、纳米技术、医疗器械、计量和半导体制造等领域。

我们在英国和美国设有工厂，均已通过ISO 9001:2015认证，负责设计、开发和制造产品，同时在德国、日本和中国设立了区域办事处，提供覆盖全球的技术支持。

我们的主要产品线包括：

- 显微镜自动化设备，包括高精度电动显微镜平台
- 全电动OpenStand成像平台
- 自动玻片和孔板装载机
- 压电纳米定位系统
- 电动物镜和滤光片立方体更换器和滤光片转轮
- 电动物镜和滤光片立方体更换器和滤光片转轮
- 定制和OEM机电和光学系统

我们的宗旨

我们相信，每个问题都需要独特的解决方法。我们的团队与客户、合作伙伴密切合作，确定他们的特殊需求，并基于此设计出具有成本效益的定制解决方案。我们不断拓宽科学的边界，不断积累、丰富与自动化精密光学和机械系统有关的专业知识。



Renishaw

renishaw.com.cn

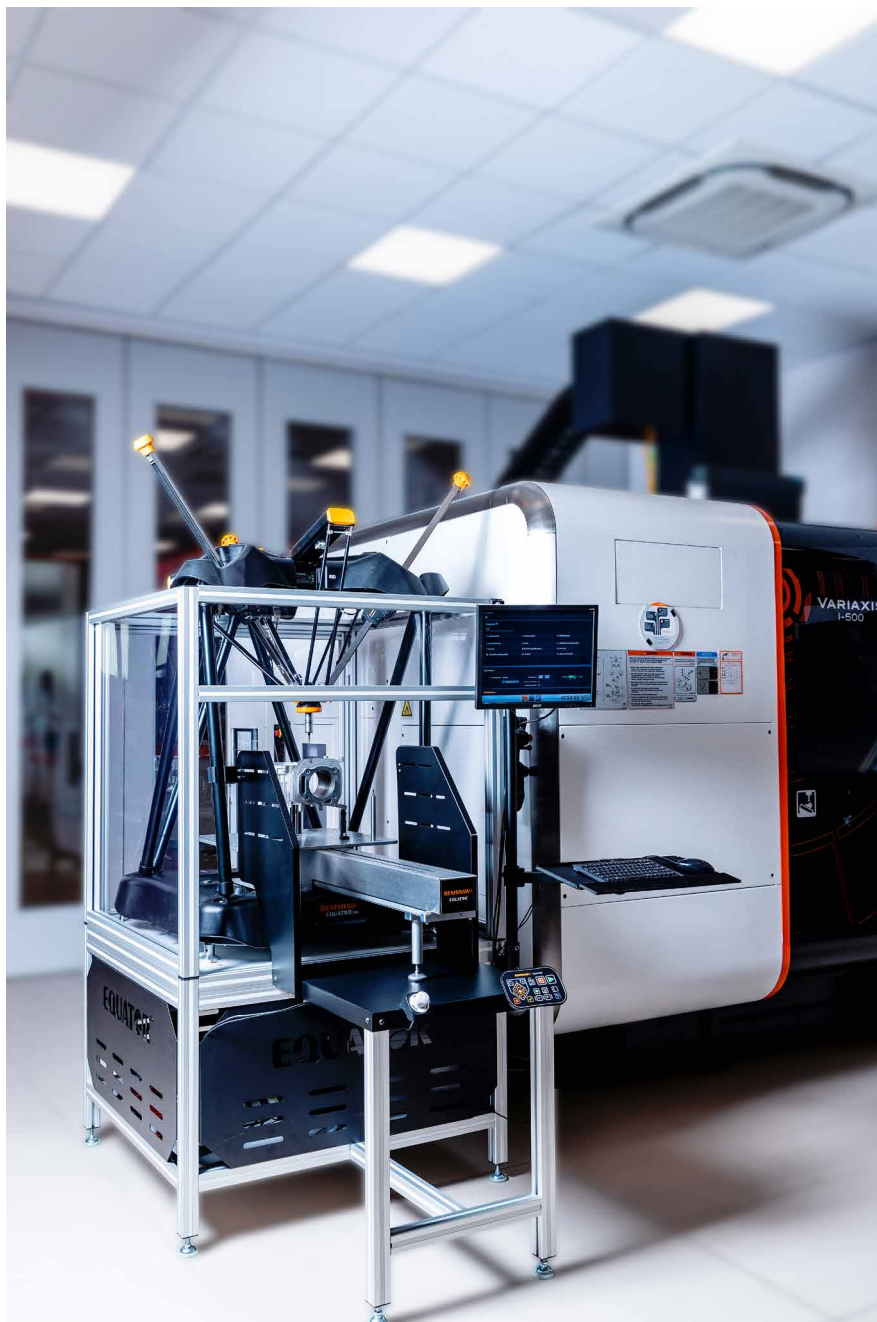
Renishaw is one of the world's leading engineering and scientific technology companies, with expertise in precision measurement and healthcare. The company supplies products and services used in applications as diverse as jet engine and wind turbine manufacture, through to 3D printing, dentistry and brain surgery.

The Renishaw Group currently has 77 offices in 36 countries, with over 5,000 employees, of which over 3,000 people are employed within the UK. For the year ended June 2023 Renishaw achieved sales of £689 million, of which 95% was due to exports. The company's largest markets are China, USA, Japan and Germany.

雷尼绍是世界领先的工程科技公司之一，在精密测量和医疗保健领域拥有专业技术。公司向众多行业和领域提供产品和服务 — 从飞机引擎、风力涡轮发电机制造，到3D打印、口腔和脑外科医疗设备等。

雷尼绍集团目前在36个国家/地区设有77个分支机构，员工逾5,000人，其中3,000余名员工在英国本土工作。在截至2023年6月的财年，雷尼绍实现销售收入6.886亿英镑，其中95%来自出口业务。公司最大的市场为中国、美国、日本和德国。





Rotork Ltd

🌐 rotork.com/zh

Rotork is a market-leading global provider of mission-critical flow control and instrumentation solutions. Rotork provide critical flow control solutions to hydrogen equipment manufacturers and valve makers throughout the complete hydrogen supply chain. For over 60 years Rotork has supplied reliable, precise and efficient flow control products to a wide range of industries.

Relevant products from our portfolio naturally include electric and pneumatic actuators, but also key instrumentation such as solenoid valves, switch boxes, needle and ball valves, pressure regulators and filter regulators.

What can Rotork offer the hydrogen industry?

Process efficiency

The ability to quickly and precisely adjust to the set position will increase process efficiency, minimize waste and reduce energy consumption.

Emission

Many operations require valves and regulators to be moved repeatedly according to a set stroke. Rotork actuators enable precise operation with high repeatability and resolution.

Reliability

Specific process environments require the correct flow control equipment. Our products are hazardous area certified for use in potentially explosive atmospheres such as hydrogen production environments.

Security

The entire hydrogen industry requires emergency shutdown (ESD) systems to stop chain reactions and secure protective equipment. Rotork products are certified for use in different HIPPS, SIL, SIS, EIV, ESD and ROSOV applications.

Reduced maintenance

Proper installation and sound engineering solutions will reduce unplanned maintenance and downtime. Our intelligent diagnostic systems are used in conjunction with the equipment management system to maximize equipment uptime.

Acquisition costs

Rotork's products are designed and worked at a very high level of performance. Make the product worth the money in its life cycle.

电动执行机构	流体动力执行机构	仪表和控制	控制网络	服务和售后市场
IQ系列 - 适用于恶劣环境的多回转和角行程执行机构 	RC系列 - 紧凑的拨叉型执行机构 	过滤器、调节器、润滑器、精密安全阀 	网络适配性 Pakscan™, HART, DeviceNet, FOUNDATION™, Modbus™	全寿命周期管理 
ExMax系列 - 角行程防爆执行机构 	GT系列 - 齿轮齿条型执行机构 	活塞驱动角座阀 (PAV) 和电磁阀 (SOV) 	Rotork工作站 - 设备监控 	智能设备管理 
CVA/CMA系列 - 直行程、角行程和多回转精密调节型执行机构 	CPI/GP系列 - 拨叉型执行机构 	关断阀 - 高压球阀和针阀以及仪表关断阀组 		备件 
PAX1 - 阀门执行机构和电动调压器 	限位开关盒 - 高能视觉的位置指示和控制反馈 	阀门定位器 - 气动和液压执行机构的精密阀门控制 		寿命周期服务 

Rotork是全球领先的流量控制和仪表解决方案供应商。我们为整个氢气供应链中的氢气设备制造商和阀门制造商提供关键的流量控制解决方案。60多年来，Rotork为各行业提供可靠、精确和高效的流量控制产品。我们的产品组合包括电动和气动执行机构等相关产品，还包括电磁阀、开关盒、针阀和球阀、压力调节器和过滤减压阀等关键仪表。

罗托克能为氢能行业提供什么？

工艺效率

快速而精确地调节到设定位置的能力将为您提高工艺效率，最大限度地减少废弃物和降低能源消耗。

排放

许多操作都要求阀门和调节器按设定行程反复移动。Rotork执行机构可实现高重复性和分辨率的精确操作。

可靠性

特定的工艺环境需要正确的流量控制设备。

我们的产品经过危险区域认证，可用于潜在的爆炸性环境，如氢气生产环境。

安全性

整个氢产业都需要紧急关机（ESD）系统来停止连锁反应和安全保护设备。Rotork产品经认证可用于HIPPS、SIL、SIS、EIV、ESD和ROSOV不同应用。

减少维护

正确的安装和完善的工程方案将减少计划外维护和停机时间。我们的智能诊断系统与设备管理系统配套使用，可最大限度地延长设备的正常运行时间。

购置成本

Rotork的产品在设计和做工上都达到了非常高的性能水平。使产品在其寿命周期内物超所值。

Semefab Ltd

 semefab.com

Semefab operates 3 wafer fabs on a single site in Glenrothes, Scotland, UK, across a broad technology base of MEMS sensors and CMOS & Linear IC's, Discrete semiconductor devices. Close liaison with our highly experienced process engineering team ensures a successful outcome to process development/set-up, and process optimisation leads to high yield, cost-effective manufacture.

The company is currently enjoying its 34th year in business. Semefab is an innovative business and is playing a key role in the production of breakthrough health care products, whilst supplying silicon wafers, die and packaged devices to the market.

During 2020 we had a very strong year, largely due to the 12M thermopile non-contact temperature sensor chips sold to customers in China for use in forehead temperature guns and also our sales of low-pressure sensors grew significantly due to their use in ventilators, respirators and maintaining pressure in isolation ward settings. These demands meant that we have been categorised as essential working status and we have not been required to shut down at all. From an employee perspective, a semiconductor manufacturing clean room is about as safe a place as you can get from coronavirus because of the HEPA air filtration which traps the virus and the PPE that people must wear anyway.

Semefab has won 2 Queens Awards for Export and recently won the Best Performing Business Award (over 50 employees) at the Fife Business Awards.

Semefab在英国苏格兰格伦罗西斯经营着3个晶圆代工厂，在MEMS传感器、CMOS和线性IC、分立半导体器件方面拥有广泛的技术基础。我们与经验丰富的过程工程团队密切合作，确保过程开发和设置取得成功。同时，我们不断优化过程，从而实现高收益、高成本效益的生产。

目前，公司迎来了发展的第34个年头。Semefab是一家创新型企业，在生产重大医疗保健产品方面发挥着关键作用，同时向市场提供硅片、管芯和封装设备。

2020年，我们取得了非常强劲的业绩，主要由于我们向中国客户售出了1200万个热电堆非接触式温度传感器芯片，用于额头温度枪。此外，由于我们的低压传感器可以用于呼吸机、呼吸器和维持隔离病房环境中的压力，它们的销售量也显著增长。这些需求意味着我们的工作是不可缺少的，我们根本没有必要停工。从员工的角度来看，生产半导体的洁净室提供了一个远离新冠病毒的安全场所，因为HEPA空气过滤技术可以拦住病毒，而且人们必须穿戴个人防护装备。

Semefab两次荣获女王出口成就奖，近期还获得了Fife Business Awards最佳表现企业奖（员工规模超过50人）。





Skylark Lasers

Skylark Lasers

 skylarklasers.com

Skylark Lasers, headquartered in Edinburgh, United Kingdom, specializes in producing high-quality lasers offering up to 2000 mW of power and an impressive 5,000-hour long lifetime. We excel in the production of these powerful, long-lasting lasers especially in the challenging ultraviolet wavelengths such as 320 nm and 349 nm. Our products are demanded by our customers in industries ranging from grating, holographic lithography, photoluminescence, semiconductors inspection, to Raman spectroscopy, chemical and biological molecules measurements. Our unique ultra narrow line width, low noise and single frequency outputs are also drawing attention from customers working with compound semiconductors such as silicon carbide, gallium nitride, zinc oxide and titanium dioxide. Other wavelengths in our product series include 532 nm, 640 nm and 780 nm, all share our fantastic, compact and stable architecture and world class outputs.

位于英国爱丁堡的 Skylark Lasers 公司专业生产高品质、高达 2000 毫瓦功率和使用寿命长达 5000 小时的高功率长寿命激光器。我们尤其擅长生产这些用于具有挑战性的紫外线波长（例如 320 纳米和 349 纳米）的强大耐用型激光器。我们的产品因其广泛应用于光栅、全息光刻、光致发光、半导体检测、拉曼光谱以及化学和生物分子测量等领域而备受客户需求。我们的超窄线宽、低噪音和单频输出也吸引了从事碳化硅、氮化镓、氧化锌和二氧化钛等化合物半导体工作的客户。我们的产品系列还包括其他波长，例如 532 纳米、640 纳米和 780 纳米，均采用我们卓越的紧凑稳定架构和世界一流的输出性能。



SPTS Technologies Ltd

🌐 spts.com

SPTS Technologies, designs, manufactures, sells, and supports etch, PVD, CVD and MVD capital equipment, providing advanced wafer processing technologies and solutions for the semiconductor and microelectronics industry. End-market applications include micro-electromechanical systems (MEMS), advanced packaging, LED, high speed RF device IC's and power semiconductors.

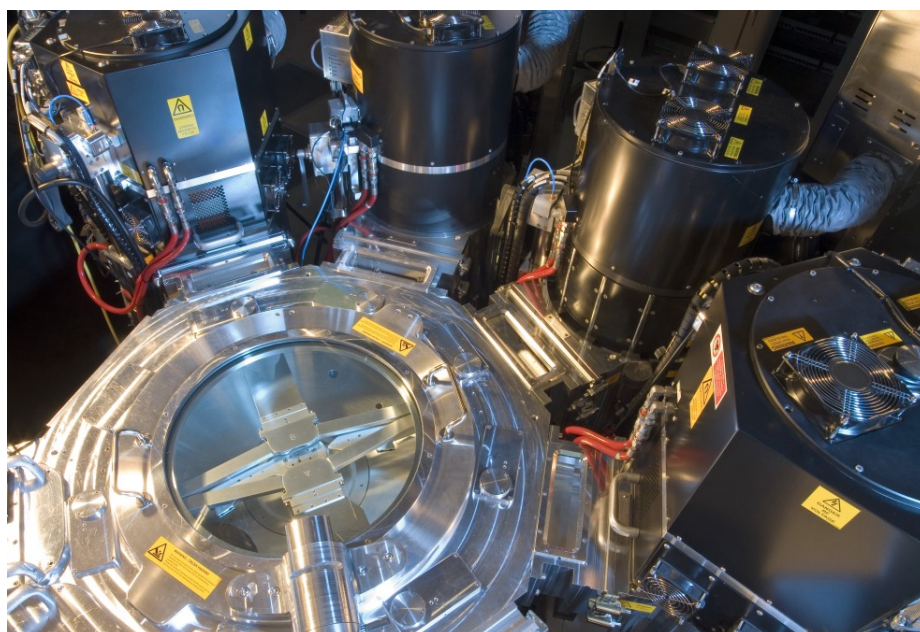
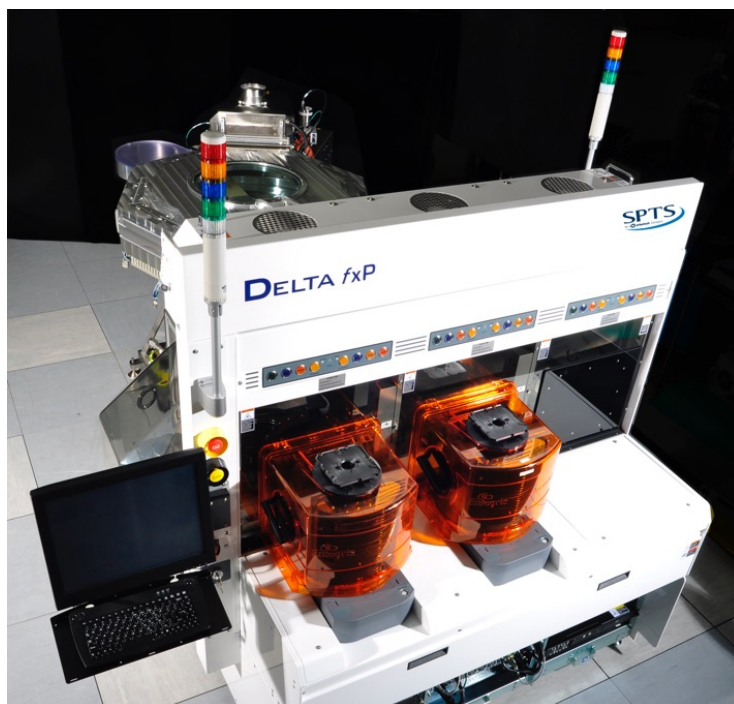
Formed in 2009, SPTS brings together over 40 years wafer processing experience from companies including Trikon Technologies, STS, and Aviza Technology. The solutions offered by SPTS include industry leading silicon etch, dielectric etch, dry-release etch, PVD, PECVD, and MVD. SPTS supplies wafer processing equipment and technologies to the world's leading semiconductor and microelectronic device manufacturers and research institutions, offering dedicated local sales and customer support through a network of international offices and agents. Under agreement with SPP Technologies, Ltd., SPTS also offers APCVD solutions and a range of large batch vertical furnaces.

SPTS Technologies has been recognized by leading industry experts, government agencies, and Her Majesty the Queen, having received the Queen's Award for Enterprise in International Trade in 2013 and 2017 and for Innovation in 2018 and 2020. SPTS has also been given the prestigious Anchor Company status by the Welsh Government.

SPTS科技有限公司 (SPTS) 专注于设计、制造、销售和支持蚀刻、物理气相沉积 (PVD)、化学气相沉积 (CVD) 及分子汽相沉积 (MVD) 资本设备, 为半导体和微电子行业提供先进的晶圆加工技术和解决方案。SPTS的终端市场应用包括微机电系统 (MEMS)、先进封装、发光二极管 (LED)、高速射频集成电路和功率半导体。

SPTS成立于2009年, 汇集了Trikon、STS和Aviza等公司40多年的晶圆加工经验。SPTS提供行业领先的硅蚀刻、介质蚀刻、干式蚀刻、物理气相沉积 (PVD)、等离子体增强化学气相沉积 (PECVD) 和分子汽相沉积 (MVD) 解决方案。SPTS向世界领先的半导体和微电子器件制造商和研究机构提供晶圆加工设备和技术, 并通过国际办事处和代理商网络向地方客户提供专门的销售及支持服务。根据与SPP科技有限公司的协议, SPTS还提供常压化学气相沉积 (APCVD) 解决方案和一系列大型立式间歇炉设备。

SPTS已获得业内领先专家、政府机构和英国女王陛下的认可, 并于2013年和2017年获得国际贸易企业女王奖, 于2018年和2020年获得创新女王奖。SPTS还被威尔士政府授予了“支柱企业”著名称号。



Starna Scientific Limited

 starna.com

Founded in 1964, Starna Scientific Limited heads the globally recognised group of Starna® companies. For close to 60 years, Starna has built an international reputation for quality, service and reliability in vertically manufacturing and supplying glass and quartz spectrophotometer cells and cuvettes, optical components, and Certified Reference Materials (CRMs).

Starna leverages extensive in-house expertise in glasswork and quartz manipulation, including drilling, slicing, polishing, and proprietary heat fusion techniques to manufacture spectrophotometer cells and cuvettes which set Starna apart from competitors using bonding agents or sintering.

Starna is accredited to ISO 17034 as a CRM Producer. Starna's heat sealing plays a key role in exceptional CRM stability. The Calibration Laboratory also holds industry-leading ISO/IEC 17025 accreditation for certification activities. All CRMs are calibrated for the highest accuracy with full traceability to international primary standards including NIST (USA).

Stringent cleaning protocols and inspections guarantee contamination-free certified optical products perfectly suited to enable accurate and reliable performance in analytical instrumentation like UV-vis spectrophotometers, plate readers and fluorimeters.

Beyond catalogue products, Starna also welcomes custom and OEM glass and quartz opportunities. As a valued partner for close to 60 years to leading instrument manufacturers, distributors and end-users worldwide Starna enjoys a unique position supporting the global analytical instrumentation domain.

Starna Scientific Limited成立于1964年，领导着已获得全球市场认可的Starna®集团。近60年来，Starna在垂直一体化制造和供应玻璃、分光光度计石英比色槽和比色皿以及光学元件和有证标准物质（CRM）方面，以其优质可靠的产品和完善的服务，建立了良好的国际声誉。

Starna充分利用自己在钻孔、切片、抛光与专有的热熔融一体成型等玻璃和石英产品加工制造技术方面所拥有的大量独到经验，制造分光光度计比色槽和比色皿。由此，Starna得以从仍在使用粘合剂或烧结工艺的竞争对手中脱颖而出。

Starna作为有证标准物质制造商，已通过ISO 17034认证。其热熔融密封工艺是保证有证标准物质稳定性的关键。Starna的校准实验室亦通过了业界领先的ISO/IEC 17025认证。所有有证标准物质均通过最高精度的校准，可完全追溯到包括NIST（美国）在内的国际主要标准。

Starna遵循严格的清洁和检查规程，确保所有有证产品无污染，可完美适用于紫外可见分光光度计、酶标仪、荧光分光光度计等分析仪器，确保结果准确可靠。

除了目录中的产品外，Starna还提供玻璃和石英产品定制和OEM服务。成立近60年来，Starna已成为全球领先的仪器制造商、分销商和终端用户的重要合作伙伴，在全球分析仪器领域享有独特的地位。



Taylor Hobson Ltd

 taylor-hobson.com.cn

Established in 1886, Taylor Hobson is the world leader in surface and form metrology and developed the first roundness and surface finish measuring instruments. Taylor Hobson provides contact and non-contact measurement solutions for the most demanding applications on a global basis, with a worldwide infrastructure to support our clients; we are a truly global ultra-precision metrology company.

Taylor Hobson are pioneers, continually developing our products to meet the ever-increasing demands of next generation technologies, particularly in optics, bearings, automotive, aerospace, medical and renewable energy technologies. This forward-thinking philosophy is captured perfectly in our diverse range of product solutions.

The Form Talysurf® range delivers the world's leading surface finish, radius and form accuracy. These diverse measurement systems are suitable for challenging applications driven through powerful Metrology 4.0 Software to deliver in-depth analysis of radius, roughness, form, contour, surface finish and wear, which enables you to improve manufacturing processes, reduce waste

and increase throughput. Parts can be easily programmed and automatically measured and analysed.

The Talyrond® range is the number one choice for manufacturers of precision components including bearings, lens moulds, fuel injectors and much more. World leader in speed, position control and accuracy and has the lowest noise floor of any instrument of its kind. These characteristics combined with the systems unique gauge capability enable measurement of roundness, roughness and contour from a single metrology platform.

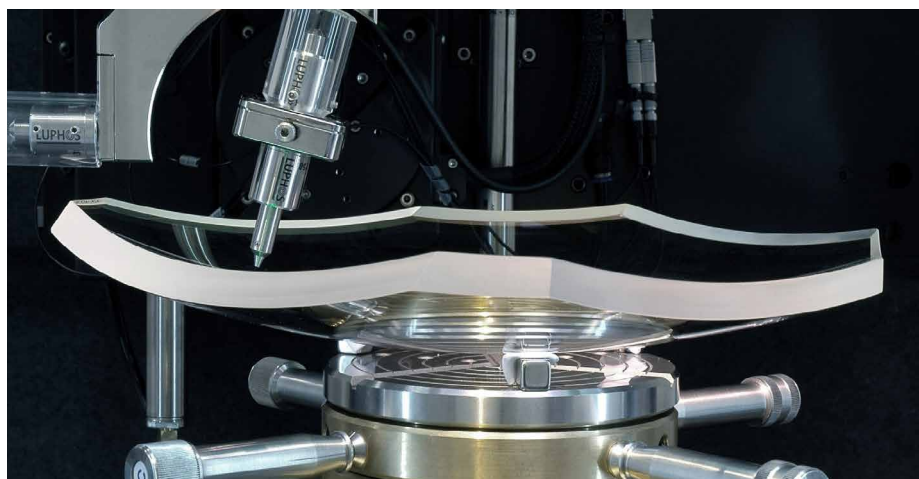
The LUPHOScan HD non-contact 3D optical profilometer/ equipment delivers the highest accuracy for radius and irregularity on challenging surfaces such as high departure aspheres and freeforms. The industry-leading stability guarantees accuracy even in the most challenging environments and provides fast measurement cycle times with no loss in accuracy. The next generation 3D profilometer/equipment provides an industry first with instrument accuracy better than ± 50 nm (3σ) on sample slopes up to 90° .



英国泰勒·霍普森是专业的超精密计量公司，专业从事高精度计量产品的设计、研发和生产。泰勒·霍普森创立于1886年，在表面粗糙度和形状计量领域始终处于全球领先地位，分别于1941年和1949年发明了世界上第一台粗糙度轮廓仪和世界上第一台圆度仪，并参与了多项国际计量标准的制定，一直以来引领着精密计量技术的发展。

为了满足日益增长的新一代计量应用的需求，泰勒·霍普森不断研发出多样化的新产品，为精密光学、轴承、航空航天、汽车、机床、计量机构、科研院所及高校等行业提供专业的接触式和非接触式计量解决方案。

在中国，泰勒·霍普森在北京、上海、广州、成都、重庆、厦门、瓦房店和台湾等地区都设有办事处和技术应用实验室，为客户提供本地化、便捷的技术支持和服务。





Tintometer Ltd

🌐 lovibond.com

Lovibond® Colour Measurement —At the Forefront of Innovation in Colour Measurement. The product range incorporates both visual and automated instruments, reference liquid and coloured glass standards and a variety of precision fused cells. Spectrophotometers for transmission and reflectance; colorimeters and colour comparators are used internationally in many industries ranging from chemical, petrochemical, pharmaceutical and medical, to those producing everyday foodstuffs and beverages.

The Tintometer Ltd is a committed member of the AOCS and takes an active part in the definition and development of future colour standards. The company's knowledge of colour science ensures the products are capable of reading multiple scales including, but not limited to, those from AOCS, ASTM, CIE and ISO such as the Gardner, Lovibond® and Platinum Cobalt colour scales. If you have any need on colour measurement, we promise to offer best solutions. Today, the company is bringing colour measurement to the next generation. While still recognizing the importance of traditional methods, The Tintometer Ltd is introducing new techniques to bring measurement and quality control to an even higher level, developing creative solutions to ensure the continued reputation of the Lovibond® brand.

Lovibond®色度测定仪器源自英国，颜色分析技术革新的最前沿。于1885年成立的英国罗维朋公司（The TintometerLtd），为全球用户提供Lovibond®系列目视、自动比色计和色差仪、标油、标准滤光片及比色皿等耗材。产品被多个国际及行业标准引述，涉及Lovibond®罗维朋色标、Pt-Co铂钴、Saybolt赛波特、Gardner加德纳、ASTM石油产品色标等等，广泛应用于石油、化工、食品、医药等多个领域。

Tintometer公司是AOCS标准委员会成员之一，得益于对于颜色科学的深入研究，一直致力于制定和完善色度测定相关国际和行业标准。无论您有任何颜色测定需求，我们都为您提供最佳的解决方案。今天，Tintometer公司延续着Lovibond®品牌的全球盛誉，站在技术革新的最前沿，使得色度测定进入新科技时代。为了满足用户需求，重视经典方法的同时，将最新科技引入到色度分析和质量控制并达到新高度。



Troika System Ltd

🌐 troika-systems.com

Troika systems was started in December 1996, with an aim to provide innovative 3D measurement devices to the gravure and flexo print marketplace, with a scanning microscope known as the AniCAM, as we saw many printers have an issue with knowing the precise ink capacity of their cylinders and anilox, causing excessive waste in make-ready and wasted productivity.

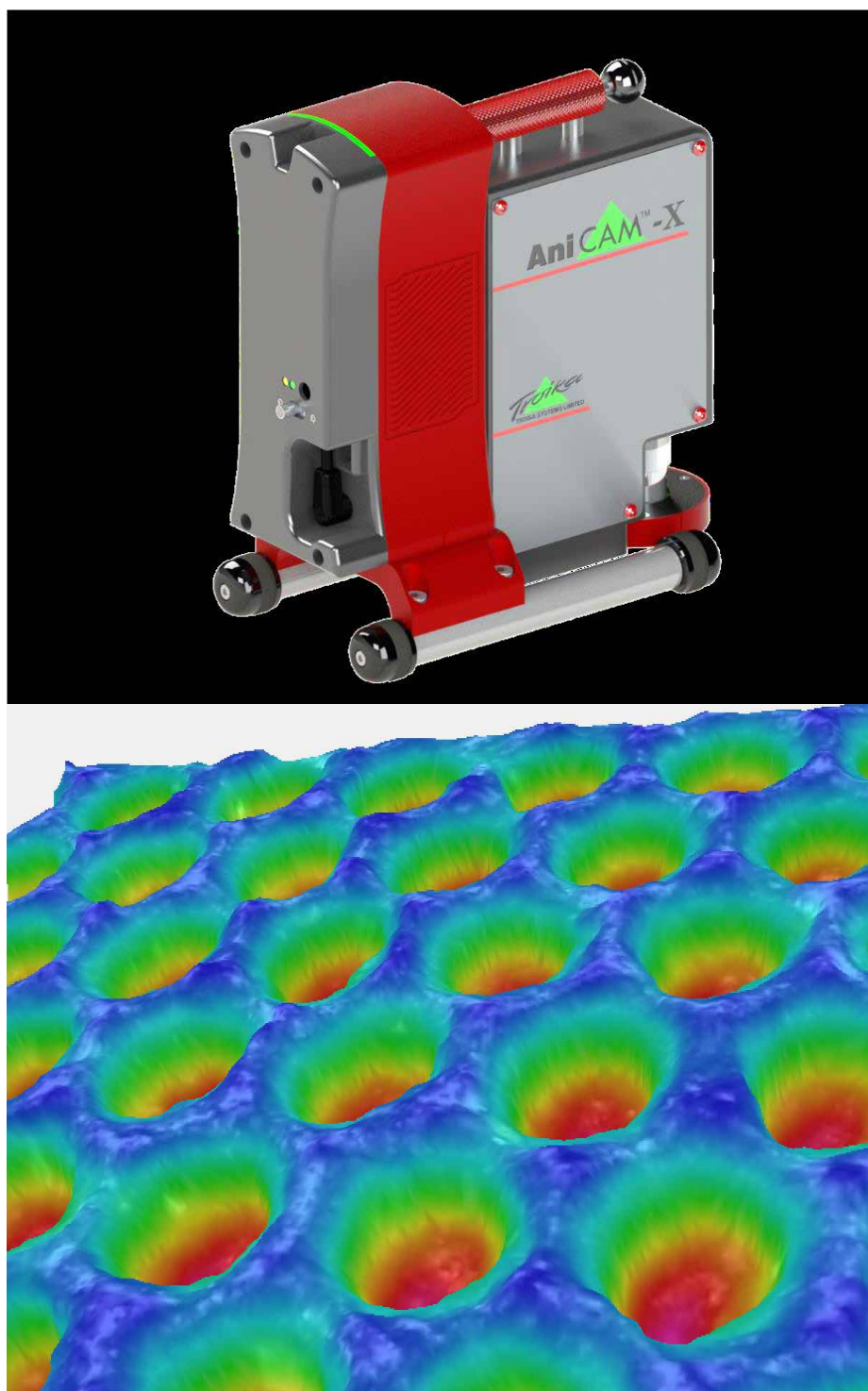
Based in Wiltshire, England we operate out our own premises and providing aspects of the design, manufacturing, software authoring, sales and support. We provide our products through approved global sales and support agents and work with the larger print groups to allow adoption to assist standardisation in the print process, with a view of continuous enhancement and new technologies.

More recently we have been able to employ our technology in the areas of printed electronics analysis to become the worlds leading manufacturer of 3D scanning microscopes.

Troika系统有限公司成立于1996年12月，目的是为凹版印刷和柔版印刷市场提供创新的3D测量设备，其扫描显微镜被称为AniCAM，因为我们发现，许多印刷商不太了解其滚筒和网纹辊的精确墨水容量，导致在排版调整阶段的过度浪费以及生产力的浪费。

我们的总部设在英国威尔特郡，我们有多多个经营场所，提供设计、制造、软件编写、销售和支持等方面的服务。我们基于获得的全球销售和支持代理的授权提供产品，并与大型印刷集团合作，允许其应用技术，以协助印刷过程的标准化，以期不断提高和应用新技术。

最近，我们已经有能力将我们的技术运用到印刷电子分析领域，成为世界领先的3D扫描显微镜制造商。



Anaconda Equipment Ltd

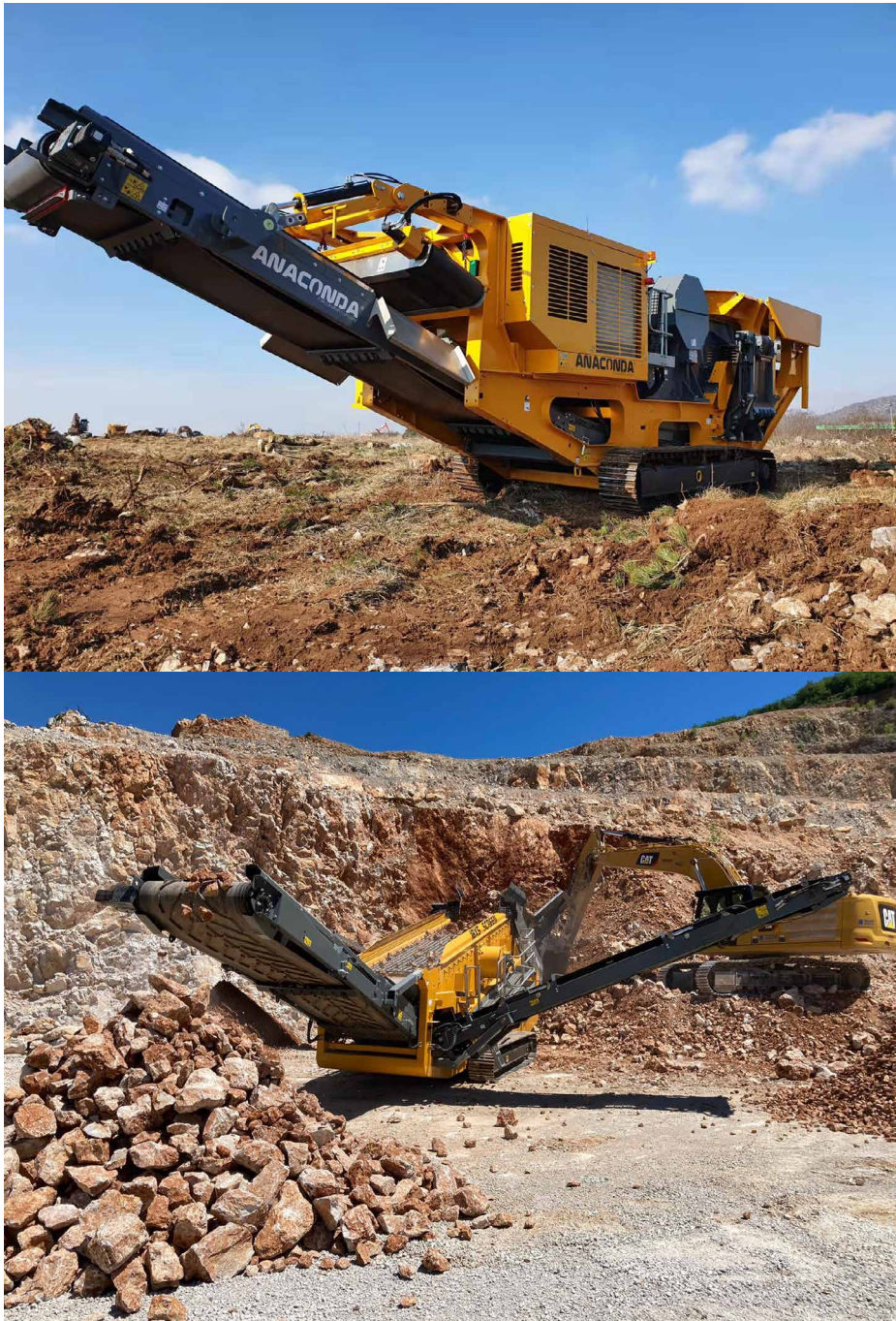
 anacondaequipment.com

Anaconda Equipment design, manufacture and supply a diverse of products for the material handling industry. This includes Equipment such as crushers, screeners, scalpers, feeding conveyors mobile conveyors and rinsing screens. The company was originally formed in 2005 as sub-contract specialists before branching out to compact mobile equipment in 2008 which bore the Anaconda brand. To date Anaconda continues to establish itself as a leading supplier of material handling equipment across the globe!

Anaconda's philosophy from the outset has always been to make life as easy for the end user as possible. To do this we work with partners that are able to supply our standards of Global Support, Global Resources and Global Supply Mechanisms. In terms of ensuring the quality of our product range we have a bespoke manufacturing facility based in Co Tyrone, N Ireland that is fully kitted with modern state of the art machinery

Anaconda 设备国际有限公司为物料处理行业设计、制造和供应多样化的产品，包括移动式破碎机、移动式筛分机、重筛、给料输送机、移动式输送机和移动式水洗设备等。该公司最初成立于 2005 年，在 2008 年推出 Anaconda 品牌并正式生产紧凑型移动设备之前，专门为其他制造商生产组件。迄今为止，Anaconda 持续将自己打造成全球领先的物料处理设备供应商！

Anaconda 从始至终秉持的经营理念就是为最终用户提供最经济便捷的产品和服务。为此，我们与能够符合我们标准的合作伙伴共同提供全球化的服务支持、全球化的资源共享和全球化的供应机制。为了确保我们产品系列的质量，我们在英国北爱尔兰有一个定制的制造工厂，配备了最先进的现代机器，从而满足客户对高质量设备的需求。



BOBST (Shanghai) Ltd

 bobst.com

Bobst (Shanghai) Ltd. is a wholly-owned subsidiary of Bobst Group. Founded in 1890 by Joseph Bobst in Lausanne, Switzerland, BOBST has a presence in more than 50 countries, runs 19 production facilities in 11 countries and employs more than 5 800 people around the world. The firm recorded a consolidated turnover of CHF 1.563 billion for the year ended December 31, 2021.

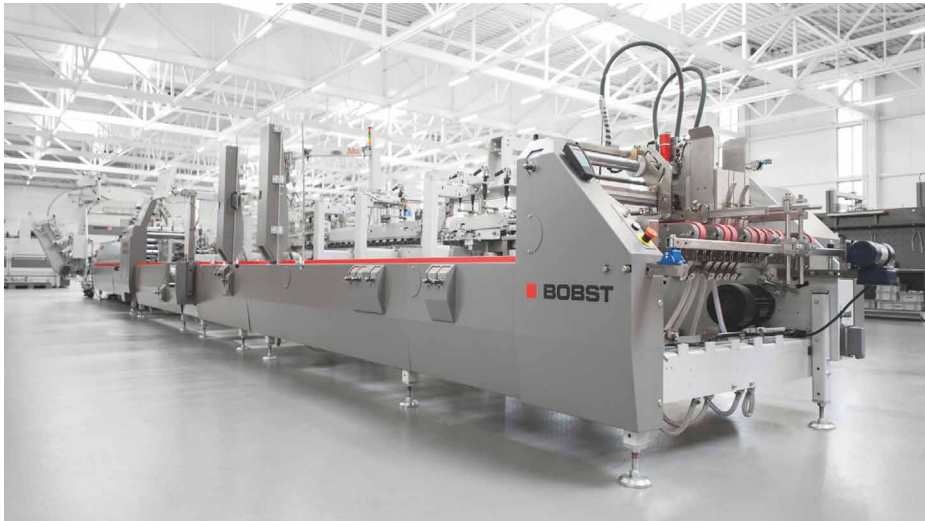
BOBST is one of the world's leading suppliers of substrate processing, printing and converting equipment and services for the label, flexible packaging, folding carton and corrugated board industries, ensuring that these customers can improve quality, performance and performance in their packaging operations. productive forces.

To be closer to Chinese customers with more convenient and complete technical support and services, as well as machines more suitable for the Chinese market, Bobst Group established Bobst (Shanghai) Ltd. in 1995. The wholly-owned subsidiary is located in Shanghai Songjiang Industrial Zone, covering an area of 33,000 square meters. Since its official opening in May 1998, in line with the goal of "producing zero-fault products" and meeting customer needs, it has provided Chinese customers with a wide range of products and high-quality services. Many of these products are also exported to many countries and regions around the world, and are well received in the fiercely competitive international market, showing a firm side for Chinese manufacturing.

博斯特（上海）有限公司是瑞士博斯特集团的全资子公司，瑞士博斯特集团成立于1890年，总部位于瑞士洛桑，是苏黎世股票交易市场上市公司之一。业务涉及 50 多个国家和地区，在 11个国家拥有 19 家工厂，全球员工 5800 多名。截止到 2021 年 12 月 31 日，该公司的合并营业额为 15.63 亿瑞士法郎。

博斯特是包装行业全球领先的设备与服务供应商之一。博斯特凭借超过 130 年的专业经验，为其标签、软包装、折叠彩盒和瓦楞纸箱行业的客户提供机器、解决方案和专业技术知识，确保这些客户能够在其包装业务中提高质量、性能和生产力。

为更好地贴近中国客户，为他们提供更加便捷完整的技术支持和服务，为他们提供更加适合中国市场的产品，博斯特集团于 1995 年创建了博斯特（上海）有限公司。这家全资子公司座落于上海松江工业区内，占地 33,000 平方米。自1998 年 5 月正式开业以来，本着“生产零缺陷产品”为目标，以满足客户需求为宗旨，为中国客户提供了广泛的产品和优质的服务。其中众多产品还出口远销世界多个国家和地区，在竞争激烈的国际市场中深受好评，为中国制造展示了坚定的一面。



Domino Printing Science PLC

 domino-printing.com

Domino was founded in 1978 and is headquartered in Cambridge, UK. You can trust Domino, a global leader in industrial printing, to find exactly the right solution for your industry's coding and marking requirements.

Supported by 40 years' experience – coupled with constant innovation and our highly-regarded, world-class manufacturing expertise – our full solution range delivers the consistent, clear and quality coding your production lines require.

- Serialisation
- Date Codes
- Track and Trace
- Lot Codes
- Supply Chain Compliance
- Machine Readable Codes
- Brand Protection
- Promotional Codes

多米诺公司成立于1978年，总部位于英国剑桥。多米诺作为工业赋码领域值得信赖的全球领先企业，能针对您所在行业的赋码和标识要求提供理想的解决方案。

基于40年经验、持续创新以及享誉全球的专业制造技术，全面的解决方案能为您的生产线提供始终如一、清晰和高质量的赋码。

- 序列化标识
- 日期代码
- 追踪追溯
- 批次码
- 供应链合规
- 各类条码、二维码
- 品牌保护
- 促销码





EDGE Innovate

 edgeinnovate.com

EDGE Innovate With over 30 years' experience; EDGE Innovate develops, manufactures and markets sophisticated technologies from its base in Northern Ireland used for shredding, stacking, screening and sorting of primary and secondary raw materials in production processes and recycling. EDGE Innovate's equipment can be seen working in 60 different countries in a wide range of industries with the brand being supported via a 50 plus strong distributor network.

Our Material handling and recycling range is made up of reliable, durable and cost saving products with a wide range of mobile stockpilers, tracked stackers, tracked and mobile feeders, radial telescopic conveyors, trommel screens, flip flow screens, slow-speed waste shredders, picking stations, material classifiers, roll-sizers and truck off-loaders. Our product range allows our customers; to shred, screen, separate, stockpile and size a vast array of materials.

EDGE Innovate有逾30年的经验，在北爱尔兰总部开发、制造、销售用于物料粉碎、堆存、筛分、分选工艺与回收利用的尖端技术。EDGE Innovate设备通过全球逾50个分销商在60多个国家及多种行业得以广泛应用。

我们的物料处理与回收利用产品线由可靠、耐用且低运行成本的设备组成，包括全系列移动堆料机、履带式输送机、履带式给料机、回转式可伸缩输送带、滚筒筛、张弛筛、撕裂机、风选机、辊齿破碎机等，可满足客户对物料进行粉碎、筛分、分选、堆存等需求。



Flamgard Calidair Ltd

 flamgard.halton.com

Flamgard Calidair is based in Pontypool, South Wales, with decades of experience in the design and manufacture of high integrity HVAC dampers for the Nuclear, Tunnel, Oil & Gas industries globally. We have worked in collaboration to meet the most challenging specifications for flagship projects in each of these areas.

Designed to operate in the most arduous conditions, Flamgard Calidair dampers have a proven record of reliability and high performance in all environments. Fire and isolation Dampers form an important part of the ventilation system and are installed primarily to prevent the spread of fire, smoke or contaminants in the event of a fire. The selection of proven certified dampers is essential to ensure the high level of safety required in ventilation systems. Flamgard Calidair has a depth of experience over many decades in the design and manufacture of dampers for various high integrity industry. This has resulted in the company establishing a comprehensive data base of "know-how" covering operating performance, levels of system safety and installation criteria as well as mean time between failure data. Extensive industry experience ensures that Flamgard Calidair is highly competent in the application of its products and services. Quality Control and safety is of prime consideration for operators of end users, for consultants and contractors alike.

Flamgard Calidair are attuned to ESG and sustainability requirements, with environmental targets for Scope 1 & 2 as well as ensuring we have a positive social benefit for the areas we operate.

Flamgard Calidair have a manufacturing partnership opportunity to manufacture our projects in Shanghai, via Halton Ventilation Shanghai.

Flagship References:

Nuclear, Tunnels, Industrial, Chernobyl Safe Containment, Riyadh Metro, Golden Pass LNG Hinkley Point C, Thames Tideway, TANAP Gas Pipeline, ITER, GE/Siemens Gas Turbines, Sellafield Sites, Northern Line Extension, Various BP/Equinor projects.

Flamgard Calidair位于英国南威尔士庞蒂浦，数十年来致力于设计、制造高性能暖通空调风门，业务遍及全球核工业、隧道、石油天然气行业。我们不断与相关领域企业合作，满足旗舰项目最具挑战的技术要求。

Flamgard Calidair设计的风门可在最艰苦的条件下运行。相关使用记录表明，在所有环境中，其风门都能可靠、高性能地运行。防火风门和隔绝风门是通风系统的重要组成部分，发生火灾时，可防止火势、烟雾或污染物蔓延。通风系统安全要求高。因此，选择经过认证的风门至关重要。Flamgard Calidair致力于为各种高完整性产业设计、制造风门，具有数十年的丰富经验。经过数十年的发展，Flamgard Calidair已建立起专业技术综合数据库，涵盖操作性能、系统安全等级、安装标准以及平均无故障时间等数据。凭借丰富的行业经验，Flamgard Calidair在产品和服务应用方面具有很强的竞争力。质量控制和安全是终端用户运营商、咨询公司和承包商的首要考量因素。

Flamgard Calidair始终遵循环境、社会与企业治理（ESG）和可持续发展要求，致力于实现范围1和2的环境目标，确保为所在业务领域带来积极的社会效益。

目前，Flamgard Calidair与浩盾通风设备（上海）有限公司合作开展项目，在上海生产风门。

旗舰项目：核工业、隧道、工业、切尔诺贝利核电站石棺、利雅得地铁、欣克利角C核电站、泰晤士河潮汐隧道、塔纳普天然气管线、国际热核聚变实验反应堆、Cross Rail、GE/Siemens燃气轮机、Sellafield Sites、北线延伸段、各种BP/ Equinor项目。



Fibre Extrusion Technology Limited (FET)

 fetuk.com

Established in 1998, Fibre Extrusion Technology Ltd (FET) of Leeds, UK designs, develops and manufactures extrusion equipment for a range of high value textile material applications worldwide, in a variety of formats:

- Melt spinning systems for multifilament and monofilaments
- Melt blown and spunbond systems for nonwoven structures
- Wet spinning systems for filaments and fibres

All FET systems can be tailored to individual client's needs and are available in laboratory, pilot and small production scale. These are designed to be material efficient, offering both flexibility and a high level of processing capability. Systems are supplied as self-contained units for ease of installation in a laboratory or small scale process evaluation environment.

In 2023, FET completed construction and fit-out of its new purpose-built Fibre Development Centre and is now welcoming visitors. This modern two-storey development provides state-of-the-art facilities, including enhanced laboratory for client testing, collaborative research and product

development. Typical examples of materials tested at the Fibre Development Centre include:

- Biomedical materials, such as resorbable polymers for use in medical devices
- Specialized novel fibres from exotic and difficult to process polymers
- Sustainable polymers, biodegradable and composting materials

The growing movement towards global environmentalism and sustainability has been embraced by textile and yarn manufacturers and FET is at the forefront of innovation to help make this objective possible. An ever-increasing proportion of new polymer trials relate to sustainable fibres, with more than 25 polymers now being derived from a sustainable source.

FET continues to strengthen its position in China and surrounding region in conjunction with its official agent Chemtax, particularly for companies which produce high value textile materials for medical device applications. FET has developed unique melt spinning and melt blown technology for use with resorbable polymers.



1998年，Fibre Extrusion Technology Limited (FET) 在英国利兹成立，致力于设计、开发、制造适用于全球各种高价值纺织材料的挤压设备，包括：

- 复丝和单丝熔融纺丝系统
- 无纺布用熔喷和纺粘系统
- 用于长丝和纤维的湿纺系统

FET可以根据客户需求定制系统，用于实验室、中试和小规模生产，旨在提高材料利用率，同时实现灵活性和高水平的加工能力。所有系统均可以独立单元的形式提供，便于在实验室或小规模工艺评估环境中安装。

2023年，FET完成了专用纤维开发中心的建设与装修，并已开放参观。这座现代化的两层建筑拥有先进的设

施，包括可用于客户测试、合作研究和产品开发的实验室。纤维开发中心可测试以下材料：

- 医疗器械用可吸收聚合物等生物医用材料
- 由难以加工的异类聚合物制成的特殊新型纤维
- 可持续聚合物、可生物降解和堆肥材料

纺织品和纱线制造商纷纷投入不断推进的全球环保主义和可持续发展进程，而FET处于创新的最前沿，致力于帮助客户实现相关目标。与可持续纤维有关的新聚合物试验比例不断增加，目前来自可再生资源的可持续性聚合物数量超过25种。

FET继续通过与官方代理商香港中大的合作，提高其在中国与周边地区的市场地位，特别聚焦为医疗器械应用生产高价值纺织材料的公司。FET开发了独特的熔融纺丝和熔喷技术，适用于可吸收聚合物。



Findlay Irvine Ltd

 findlayirvine.com

Findlay Irvine is located in Edinburgh, Scotland, UK. Since the merger in 1960, we have been safe in the production of transportation equipment for more than 60 years. From friction coefficient test vehicle to ice and snow warning network, and provide a series of airport security systems. Friction coefficient measuring equipment - friction coefficient test vehicle and micro friction coefficient test vehicle. It can help reduce the risk of accidents and flight safety warnings.

GT exceeds all current international standards, including ICAO, the US federal air force and the British Civil Aviation Authority (BCA). In 2016, it passed the CAAC special equipment notice. It is the world leader in measuring the skid resistance of airport runways. At present, it has been put into use in Zhangjiakou airport, the main airport

of the 2022 Beijing Winter Olympics, and in other domestic airports.

Findlay Irvine products include:

- GripTester MK2 trailer friction coefficient testing equipment
- micro GripTester Helideck

Helideck micro GripTester is the world's first purpose built continuous friction measuring device designed specifically for testing Helidecks and Helicopter Landing Zones. It has been specifically designed to cope with the harsh offshore environments and for transportation too hard to reach installations.

- micro GripTester For Highways

The micro GripTester has been developed by Findlay Irvine in order to allow engineers measure the skid resistance of almost any surface in a continual test.

Pedestrian areas / Road markings / Markings / Reinstatements / Iron works / Accident sites

Designated agent in mainland China:

Jront Control Technology Co.,Ltd



Findlay Irvine (芬德利-欧文) 公司总部位于英国苏格兰爱丁堡, 从1960年合并至今, 我们已经安全生产运输设备超过60年。从摩擦系数测试车到冰雪警报网, 并提供一系列机场安全系统。摩擦系数测量设备——摩擦系数测试车和微型摩擦系数测试车。能够帮助降低事故风险并减少飞行安全警告。

GT超过了当前所有国际标准, 包括: ICAO, 美国联邦空军和英国民用航空局(标准)。并于2016年通过了中国民航局(CAAC)专用设备通告。它是世界机场跑道防滑性测量的领跑者。目前, 它已在2022年北京冬奥会主力机场张家口机场投入使用, 并在国内其他机场使用。

Findlay Irvine产品如下:

- GripTester MK2拖挂式摩擦系数测试设备
- micro GripTester-海工直升机平台用

micro GripTester是为测试直升机平台和直升机着陆区而设计的连续摩擦测量装置。经过专门设计, 可应

对恶劣的海上环境, 以及运输难以到达的设施进行检测。

- microGripTester-公路用

micro GripTester可以让工程师在连续测试中测量几乎任何表面的防滑性能。容易测量任何表面或标记在步行速度的防滑性。

micro GripTester测量许多应用程序的摩擦力, 如: 行人区域、路标、标记、恢复、钢铁厂、事故地点。

中国大陆指定代理商: 北京捷润新特自动化控制技术有限公司



HLH Rapid Ltd

 hlhrapid.com

HLH Rapid: We make things for you.

HLH is a unique fusion of the West and East found by industry veteran and current CEO Vader Yu from China and James Murphy from the UK. We work with companies large and small from a wide range of industries to help manufacture high- quality bespoke parts and prototypes, fast. We have served 3000 companies in 50 different countries, our largest market being Europe. With that in mind, we established our UK branch, HLH Rapid, in 2021. This office has allowed us to expand our on- the-ground support to our clients in the UK and neighbouring countries.

We are one of the only leading companies in the world to offer such a wide range of manufacturing solutions, such as rapid injection moulding, CNC machining, 3D printing and more, under one roof. Providing full in-house, flexible solutions have not only allowed us to act as a one-stop shop for our clients but have also enabled us to deliver at much faster turnaround times. Our global appeal stems from the efficiency of output, often to produce and ship high-quality one-off prototype and low- production parts within a week.

HLH Rapid: 为您制造

HLH是由来自中国的行业资深人士、现任首席执行官 Vader Yu和来自英国的James Murphy共同创立中西方独特融合。我们与各行各业大大小小的公司合作，帮助他们快速制造出高质量的模型零件和手板。我们已经为50个不同国家服务了3000家公司，我们最大的市场是欧洲。考虑到这一点，我们于2021年在英国成立了分公司HLH Rapid，因为地处原因，这个分公司为我们在英国跟邻国的客户提供了很多方便和支持。

我们是世界上唯一一家能够提供快速注塑、数控加工、3D打印等多种制造解决方案的领先公司，我们可以一站式为客户提供完整的内部和灵活的解决方案，以快速的周转时间为客户交付产品。我们在全球最大的吸引力源于生产效率，一般可以在一周内生产和运输高质量的手板和小批量模型零件。



Inverter Drives (Shenyang) Ltd

 inverterdrives.com

Inverter Drives (Shenyang) Ltd. is a wholly owned subsidiary of Inverter Drives Ltd. of the United Kingdom and is affiliated to the Sumitomo Group. The company's headquarters (Inverter Drives Ltd.) is located in Powys, Welshpool, UK, and is dedicated to the R&D, manufacturing and sales of variable frequency drives. Inverter Drives Ltd. has branches, offices, and dealers in more than 80 countries, supplied more than 2,575,000 variable frequency drives, with more than 460 employees worldwide. In order to expand the market in China and better serve customers, Inverter Drives Ltd. set up the Inverter China office in Shenyang, Liaoning in 2003, and officially established Inverter Drives (Shenyang) Ltd. in 2005.

After more than 20 years of development, Inverter Drives (Shenyang) Ltd. has now become a variable frequency drive company that integrates the procurement of original components, assembly of semi-finished products, sales, applications, and excellent after-sales service support. Dedicated to providing customers with solutions for electrical drive projects and variable frequency drive applications, Inverter Drives (Shenyang) Ltd. has become the technical support and after-sales service center of Inverter Drives Ltd. in the Asia-Pacific region.

Optidrive HVAC dedicated variable frequency drive

Optidrive Elevator elevator-specific variable frequency drive

Optidrive Compact integrated variable frequency drive

Provide automatic control system integrated solutions

英泰驱动控制（沈阳）有限公司是英国英泰公司的全资子公司，隶属于住友集团。英泰公司总部位于英国威尔士浦波厄斯郡，致力于交流变频器的设计，制造和销售，其分公司、办事处和经销商遍及全球八十多个国家，已供应超过2,575,000台变频器，全球共有员工460多名。为拓展大中华区市场，更好地服务客户，英泰公司于2003年在辽宁沈阳成立英泰中国办事处，随后于2005年正式成立英泰驱动控制（沈阳）有限公司。

经过二十多年的发展，英泰驱动控制（沈阳）有限公司现已成为集变频器原器件采购，变频器半成品组装，变频器销售，变频器应用，及优质售后服务支持于一体的变频器供应商。全心全意为客户提供电气传动项目和变频器应用的解决方案，英泰驱动控制（沈阳）有限公司现已成为英泰公司亚太区技术支持和售后服务中心。

Optidrive HVAC暖通空调专用变频器

Optidrive Elevator电梯专用变频器

Optidrive Compact集成型变频器

提供自动控制系统集成解决方案





John Crane

🌐 johncrane.com

For more than 100 years, John Crane has been providing supporting products to the global process industry and is a global leader in rotating equipment solutions. John Crane is also a wholly-owned subsidiary of the Smith Group. Founded in 1851, Smith Group is a global technology company and diversified high-tech manufacturing company listed on the London Stock Exchange and listed in the FTSE 100 Index.

As an international leader in engineered technologies, John Crane provides engineered products and services to customers in the energy services sector and other process industries, including mechanical seals, dry gas seals, seal support systems, high-performance couplings and filters. Products are in line with API610, API682, BS5257, ISO3069, DIN24960 and ANSI international standards, widely used in petrochemical, natural gas, water treatment, paper, pharmaceutical, power, food processing, mining and metallurgy and other industries.

John Crane entered China in 1987 and formed a joint venture with Tianjin Seal Factory, registered as John Crane (Tianjin) Co., Ltd. to carry out business. In 2007, the company expanded its business, acquired Tianjin Dingming Dry Gas Sealing Company, and established John Crane's wholly owned company in China, which was renamed John Crane Technology (Tianjin) Co., LTD. In order to realize the global strategy and promote the localization of world-class products, John Crane has built a world-class production base in Tianjin, China, and has 14 7x24 service and repair centers in Tianjin Dagang, Dalian, Jinzhou, Nanjing, Zhoushan, Chengdu, Quanzhou, Huizhou, Lanzhou, Dushanzi, Yulin, Yantai and Urumqi.

As pioneers of progress, we are committed to leveraging our legacy of technology leadership, innovative solutions and service excellence to help customers achieve their net-zero ambitions. We're fully committed to supporting global efforts that address climate change and are taking concrete steps to reach net carbon neutrality by 2050. Building a sustainable future, today.

100多年来, 约翰克兰始终致力于为全球流程工业提供配套产品, 是旋转设备解决方案的全球领导者。约翰克兰是史密斯集团的全资子公司。史密斯集团成立于1851年, 是在英国伦敦交易所上市的全球性技术公司和多元化高科技制造业公司, 被列入富时100指数。

作为工程技术的国际领先公司, 约翰克兰为能源服务领域和其它流程工业的客户工程产品和服务, 产品包括机械密封、干气密封、密封支持系统、高性能联轴器和过滤器等, 符合API610、API682、BS5257、ISO3069、DIN24960及ANSI等国际标准, 广泛应用于石油化工、天然气、水处理、造纸、制药、电力、食品加工、矿业和冶金等行业。

约翰克兰于1987年进入中国开展业务, 与天津密封件厂组建合资公司, 注册名为约翰克兰(天津)有限公司。2007年, 公司扩展业务, 收购天津鼎名干气密封公司, 成立了约翰克兰在中国的独资公司, 并更名为约翰克兰科技(天津)有限公司。为落实全球战略, 推动世界级产品实现本土化, 约翰克兰在中国天津建成了世界一流的生产基地, 同时在天津大港、大连、锦州、南京、舟山、成都、泉州、惠州、兰州、独山子、榆林、烟台和乌鲁木齐等地设有14个7x24小时服务维修中心。

作为进步先驱, 依托领先的技术地位, 创新解决方案和卓越的客户服务, 约翰克兰助力客户实现净零目标, 并积极采取具体措施, 全力支持应对气候变化的全球努力, 到2050年实现碳中和。从当下开始, 创建可持续发展的未来。





Limpsfield Combustion

🌐 limpsfield.co.uk

Limpsfield Combustion is an industrial burner manufacturer, offering complete solutions to combustion requirements from standard burners to individually engineered solutions. Experienced in all common aspects and many more specialised areas of its field, Limpsfield offers experience, quality, and complete prices.

Limpsfield Burners are of an Industrial Forced Draft design, suitable for alternative or simultaneous firing of all types of gaseous fuels and mineral fuel oils. The LC Burner range is available in a number of models with outputs ranging from 0.9 - 62MW.

As part of the current move to Net Zero and decarbonization, Limpsfield is currently in discussions with the BEIS, H21, Edinburgh Napier University on behalf of many Scottish Distilleries, the CEA, amongst others within our industry in producing Hydrogen fired and Hydrogen ready burners. Limpsfield burners are currently firing 100% Hydrogen and are capable of firing any known mix of Hydrogen as long as the heat value of the fuel (CV) is known.

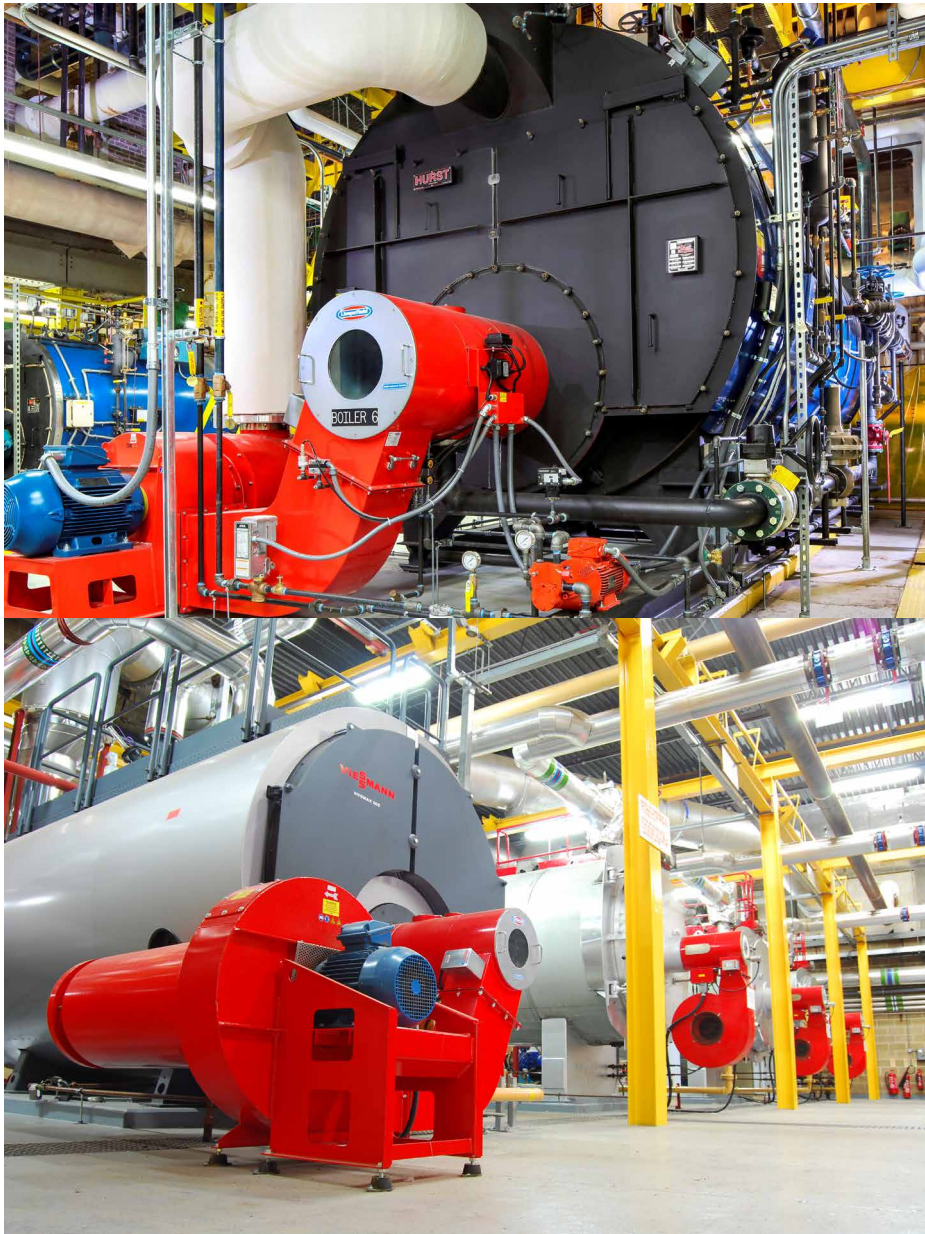
Designed and manufactured to exacting specifications, the Limpsfield LC burner range is an exceptional combination of form and function. Every feature, from the powder coated finish to the sealed damper bearings and large viewing port, exemplifies the commitment to quality and performance. With the ability to orient both the fuel and air inlets independently of one another the application possibilities are virtually unlimited.

Limpsfield Combustion是一家工业燃烧器制造商，为各种燃烧需求，包括从常规燃烧器应用到独立的工程项目提供完整的解决方案。在燃烧器制造和应用的专业领域具有丰富的经验。Limpsfield给您提供专业的经验，一流的质量，以及优势的价格。

Limpsfield燃烧器是工业用燃烧器，适用于各种类型气体燃料和混合燃油的单独或同步燃烧。Limpsfield所提供的燃烧器其应用输入范围为：0.9-62MW。

作为当前向净零排放和脱碳迈进的一部分，Limpsfield目前正在与许多苏格兰酿酒厂、CEA以及我们行业内的其他机构与例如BEIS、H21、爱丁堡龙比亚大学就生产氢气燃烧器和氢气燃烧行合作。Limpsfield燃烧器目前燃烧100%氢气，只要燃料的热值(CV)已知，就能够燃烧任何已知的氢气混合物。

Limpsfield LC系列燃烧器全部按照精确的细节标准设计和制造，具有独特的强大功能和新颖的外观。其每一个细节，从喷涂，到密封的风门轴承，和大火孔观察镜，都体现出我们对产品质量和性能的承诺。由于可以对燃料入口和空气入口独立定位，我们的产品可适用于所有应用领域。



LMK Thermosafe

inteliheat.cn

LMK Thermosafe is the world leader in design and manufacture of industrial induction heaters for drums, plus flexible surface-heating jackets for drums, IBCs, pressurised cylinders and containers of varying shapes.

Our products are used in many industries, including: the production and processing of fine chemicals, petrochemicals, foods; mining; oil & gas; composite manufacturing; wind turbines, glass-fibre curing, plus semiconductor and electronics production.

Innovative Heating Technologies for Difficult Duties

The original THERMOSAFE® Induction drum heater was manufactured and certified for use in potentially explosive atmospheres in 1986. It still sets the standard for rugged efficiency and reliability for heating 200L steel drums, even in the toughest conditions.

Designed specifically for use in locations where there are risks of explosion, it has Zone 1 and 2 hazardous areas certifications, as does our unrivalled Inteliheat range of flexible heating jackets, and our unique ATEX/IECEX/UL-certified ProxATEX temperature controller. This patented controller allows temperature settings to be changed safely within the hazardous area, through the use of NFC pre-programmed cards or directly on its front panel.

International Certifications for use in Hazardous Areas

Many of our heating products have international certification for use in hazardous areas, such

as UL/CSA for North America, ATEX for the EU, and IECEx standards, now accepted by over 33 countries, including China.

Global Service, Trusted Worldwide

Our heaters have been supplied to over 75 countries since 1985, and they are used by major companies including Unilever, GlaxoSmithKlein, Astra Zeneca, Huntsman, Bayer, Rhodia, Castrol, Dunlop, BP, Procter & Gamble, Roche, Rentokil, and Exxon.

LMK Thermosafe's headquarters and manufacturing facilities are located near to Cambridge, UK. For regional sales and technical support, we have wholly owned subsidiaries in Chengdu, China (registered as Inteliheat Chengdu) and Dallas, USA (Inteliheat NA).

Stock and Custom Design

Standard products are in stock, ready for immediate despatch from the UK, USA, mainland Europe and Australia, permitting rapid shipment to almost anywhere in the world. Many of our partner distributors also hold their own stock.

We design and manufacture bespoke heating jackets according to customer-supplied dimensions, including custom models for potentially explosive Zone 1 and Zone 2 atmospheres.

With a focus on reliability, whether in extremes of temperature or harsh operating environments, we consistently deliver above our clients' expectations, with proven savings in both capital and maintenance costs.



UK Advanced Engineering Capacity Catalogue

在设计、制造工业电感应加热器，以及适用于圆桶、IBC吨桶、加压钢瓶和其它各种形状容器的柔性表面加热套领域，LMK Thermosafe是全球领导者。

我们的产品应用于多个行业，包括：精细化工品、石油化工产品、食品生产加工；矿业；石油和天然气；复合材料制造；风力涡轮机、玻璃纤维固化以及半导体和电子产品生产。

应对困难任务的创新加热技术

1986年，首款THERMOSAFE®电感应桶状加热器制造成功并通过认证，可在潜在爆炸性环境中使用。即使在最恶劣的条件下，它仍然可以用于加热200L铁桶，为同类产品的耐用性、效率和可靠性树立了标准。

它专为在有爆炸风险的场所使用而设计，拥有1区和2区防爆认证。另外，Inteliheat系列柔性加热套，以及已通过ATEX/IECEX/UL认证的ProxATEX温度控制器也同样获得了1区和2区防爆认证。其中，ProxATEX温度控制器已获得专利，可以通过NFC预编程卡，或直接在面板上操作，在危险区域内安全更改温度设置。

可在危险区域使用的国际认证

我们的许多加热产品都已获得可在危险区域使用的国际认证，例如，适用于中国等超过33个国家/地区的北美UL/CSA、欧盟ATEX和IECEX标准。

全球服务，全球信赖

自1985年以来，我们的加热器已销往全球超过75个国家，用户包括联合利华、葛兰素史克、阿斯利康、亨斯迈、拜耳、罗地亚、嘉实多、邓禄普、BP、宝洁、罗氏、能多洁和埃克森等大公司。

LMK Thermosafe的总部和制造工厂位于英国剑桥附近。为提供区域销售和技术支持，我们在中国成都、美国达拉斯设有全资子公司，注册名分别为“英特海利（贸易）成都有限公司”、“Inteliheat NA”。

库存和定制设计

标准产品均有库存，可立即从英国、美国、欧洲大陆和澳大利亚发货，快速运送到世界几乎任何地方。我们的许多合作经销商也存有现货。

我们还可以根据客户提供的尺寸设计、制造定制加热套，包括适用于潜在爆炸性1区和2区环境的定制型号。

我们注重产品在极端温度，以及恶劣操作环境中的可靠性，致力于始终交付超出客户期望的产品，并已证明可以帮助客户节省资本和维护成本。



Mecmesin

 mecmesin.com/zh

Mecmesin, is a leading brand in the world of force, materials, and torque test equipment for quality control.

Innovation has been the driving force behind growth and success for over 46 years and our accurate and reliable test systems and instruments provide our customers with consistent top-level performance combined with excellent value for money.

Working across a wide range of industries including aerospace, automotive, medical/ pharma, packaging, electronics, food and drink, and textiles, hundreds of thousands of customers globally rely on and trust the Mecmesin brand to ensure the physical integrity and quality of their raw materials, components, and finished products.

From the production line and factory floor through to Quality Assurance (QA) and Research and Development (R&D) laboratories, our products are used by our customers to meet stringent quality and regulatory requirements.

By doing so, they can optimise their product designs, minimise wastage whilst saving money and protect their brands.

From simple hand-held instruments to fully comprehensive universal test machines, there is a Mecmesin product to suit many different applications, budgets, and changing needs.

The Mecmesin product range includes:

- Universal test machines (UTMs) for tensile & compression testing raw material, components & products.
- Torque testing systems
- VectorPro force, torque and materials testing software.
- Texture Analysers
- Digital torque testers
- Digital force gauges

Mecmesin is part of the Physical Properties Testers Group (PPT Group), a multi-national group of brands expert in the design and production of solutions for testing a range of physical properties including compression, light fastness, moisture, dry rate, water repellency, abrasion, flammability, texture, tensile and torque properties.

The PPT Group has regional offices in the UK, France, Germany, the USA, Thailand and China. The Mecmesin brand is also supported by a global network of distributors in more than 50 countries able to provide technical expertise, training, and after-sales support to customers locally.



在用于质量控制的力，材料和扭矩测试设备领域，Mecmesin处于领先地位。

46年来，创新一直是Mecmesin实现增长、取得成功的驱动力。我们拥有准确可靠的测试系统和仪器，为客户提供始终如一的顶级性能表现和卓越的性价比。

我们的业务涉及航空航天、汽车、医疗与制药、包装、电子、食品饮料、纺织品等多个领域。全球成千上万的客户信赖Mecmesin品牌，并在其支持下确保原材料、组件和成品的完整性和质量。

从生产线、工厂车间，到质量保证（QA）和研发（R&D）实验室，我们的产品在各种场景下帮助客户满足严格的质量和监管要求。

借此，他们得以优化产品设计，在节约成本的同时最大限度地减少浪费，并保护自己的品牌。

Mecmesin旗下产品既包括简单的手持式仪器，也包括功能全面的万能试验机，可适用于不同的应用场景，满足各种预算和不断变化的需求。

Mecmesin产品包括：

- 万能试验机（UTM），用于原材料、组件和产品拉伸和压缩测试。
- 扭矩测试系统
- 力、扭矩和材料测试软件VectorPro。
- 质地分析仪
- 数字扭矩测试仪
- 数字测力计

Mecmesin隶属于Physical Properties Testers Group (PPT Group) ——跨国品牌集团PPT Group 致力于设计、制定测试压缩性、耐光性、湿度、干燥速率、防水性、耐磨性、易燃性、质地、拉伸和扭矩等物理性能的解决方案，是该领域的专家。

PPT Group在英国、法国、德国、美国、泰国和中国均设有区域办事处。Mecmesin品牌拥有覆盖全球50多个国家和地区的分销商网络的支持，这些分销商能够为本地客户提供技术专门知识、培训和售后服务。





M&K

the-mkgroup.com

M&K have been pioneers in the design, manufacture, installation and support of innovative material handling and resource recovery solutions since 1977. Our innovative turnkey solutions & life cycle services offering's represent the lowest sustainable cost per ton solutions available on the market. We have delivered 1000's of products and completed 100's of projects, across 5 continents over 40 years in various different applications.

Our key markets are recycling, energy & quarrying.

M&K design, manufacture and support mobile, modular & static:

- Waste Systems
- Recycling Screens
- Picking Stations
- Picking Belts
- Shredders
- Air Density Separators
- Eddy Current Separators
- Trommel Screens
- Automation & Control Systems
- Recycling Conveyors

从1977年开始，M&K在物料处理与资源再利用领域，是一家集设计、制造、交付于一体的创新型企业。我们凭借着创新式的项目总承包方案与全生命周期服务模式，为用户提供市场上单吨综合处理成本最优解决方案。全球范围内不同工艺与应用逾千台套的交付经验，可为您提供一场一案专业的交钥匙工程服务。

我们主营方向为：资源回收、再生能源和建筑骨料。

M&K设计、生产、支持如下移动式、模块式与固定式产品：

- 垃圾处理系统
- 各式分选筛分机
- 复合型人工分拣站
- 分拣输送带
- 撕裂机
- 风选机
- 涡流分选机
- 滚筒式筛分机
- 自动化控制系统
- 堆料输送带

M&K品牌全系列产品在中国市场由浦塔环保科技（上海）有限公司（简称POTA）总经销并提供服务、质保、备件等产品全生命周期服务。



Portafill

 portafill.com

With a rich history in crushing and screening Portafill International are at the forefront of the design and manufacture of quality compact crushing and screening equipment.

Founded in 1993, the company has long been associated with ground-breaking and best in class products. Portafill are a family owned and operated company. We manufacture

machines for a range of industries from recycling, quarries, sand and gravel production to washing and materials handling. Our attention to design detail sets us apart from our competition. Our equipment is unique. We set out to do things differently and be innovative.

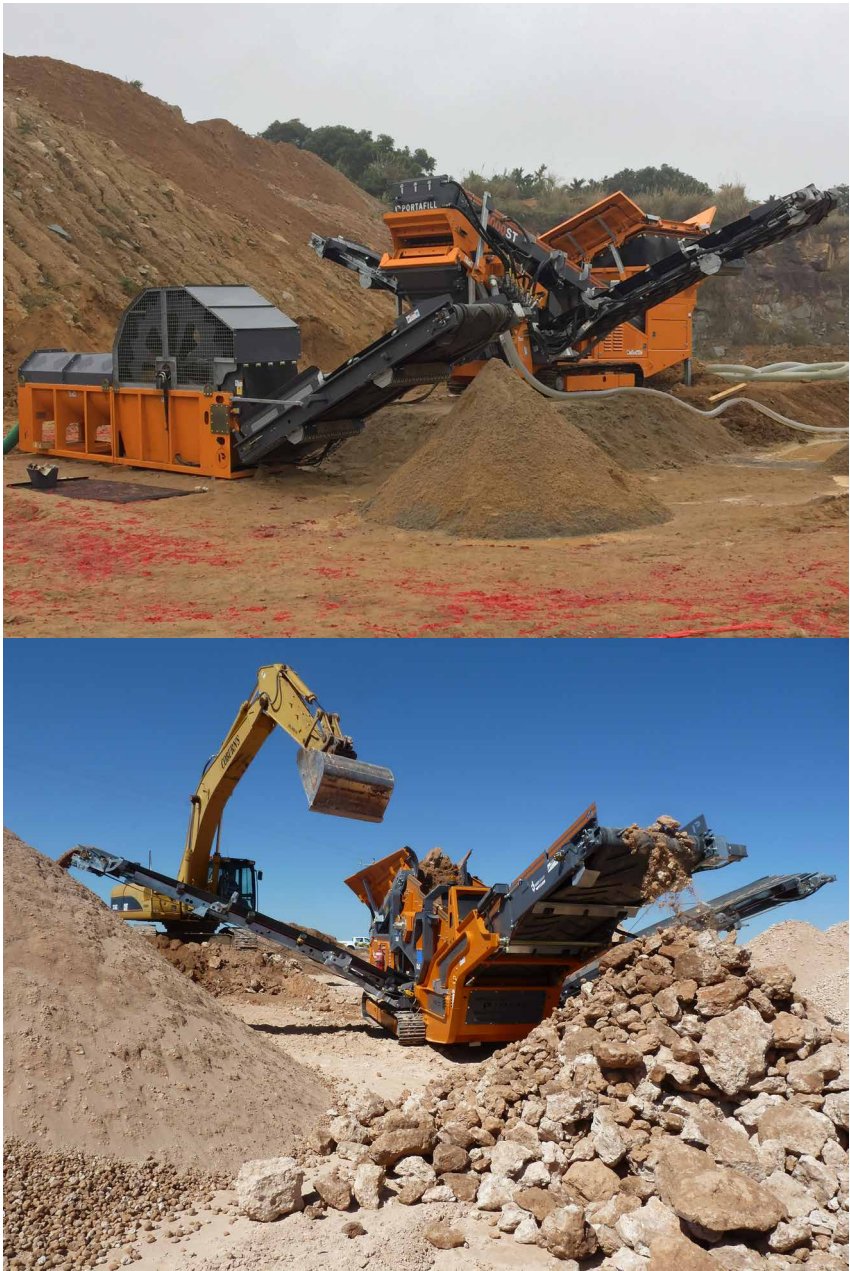
Portafill are the original compact screening company. Having designed compact equipment from our early days, we take the lead while others follow. Reliability, productivity and transportability are key features in every Portafill product manufactured. Small enough to fit inside a transport container but strong enough to withstand the toughest of materials. You can be sure that your investment in a Portafill will be wise one.

凭借着多年对技术与市场的沉淀与理解，浦塔菲尔设计与生产的高品质紧凑型移动式破碎筛分设备，已成为行业翘楚。

成立于1993年，浦塔菲尔产品代表着卓越与创新。作为一家家族企业其历史早在上世纪70年代就从事相关领域的工作，创始人更是被业界公认为第一批定义现代移动式破碎筛分机概念的设计师之一。从资源循环利用、采石场、级配骨料加工到水洗回收及物料转运等应用，我们致力于为不同行业提供优化与高效的物料处理解决方案。我们对细节的专注，使我们脱颖而出竞争。我们对应用的独到理解，使我们的产品脱胎于创新。

浦塔菲尔是紧凑型筛分设备的原创者。创立初期便从事紧凑型设备的设计，并积累了大量专利，引领着行业的设计理念。可靠、高产、运输便捷是每一个浦塔菲尔产品的核心特性。小巧强悍，既能收合进标准集装箱运输，又能进行高强度物料处理。浦塔菲尔-高性价比的选择。

浦塔菲尔品牌全系列移动式破碎与筛分设备在中国市场由浦塔环保科技（上海）有限公司（简称POTA）总经销并提供服务、质保、备件等产品全生命周期服务。



PTG

 holroyd.com

The Holroyd company was founded in England in 1860, and is an established technology leader in the supply of high- capability CNC machine tools and manufacturing systems for production of special components such as:

- Screw-compressor rotors
- Fluid pump and metering spindles
- Super-charger rotors
- Precision helical gears
- Friction Stir Welded components (FSW)
- Battery trays for electric passenger vehicles

Now employing approximately 200 specialists and support staff, Holroyd has an outstanding history of continuous innovation and technological breakthroughs, is extremely customer-focused and has won four Queen's Awards for Innovation, confirming Holroyd's status as a world-class manufacturing technology provider.

SERVICES AND MARKETS

Holroyd offers full turnkey supply of projects and manufacturing systems, with complete technology transfer and integration support. Holroyd is also one of the world's largest suppliers of screw-compressor rotors, through its Holroyd Precision Rotors manufacturing operations, with advanced production lines in UK, China and USA.

In partnership with Chongqing Machine Tools Group Co (CHMTI), Holroyd has a joint venture company in Chongqing, 'Chongqing Holroyd Precision Rotors Manufacturing Co', in which it produces compressor rotors for many of China's leading compressor manufacturers.

Industries served are numerous and global, including Heating, Ventilation and Air Conditioning (HVAC), industrial air, mobile air, power take-off, oil and gas, power-generation, petrochemicals, aerospace and automotive (Conventional and Electric Vehicles). Holroyd's key USP is the company's technological competence and experience in supporting the whole value chain, from design to manufacture and part certification for the customer.

- PTG's Holroyd Precision is a leading manufacturer of advanced, special-purpose CNC machine tools used for making highly accurate compressor rotors, helical pump-screws and precision gears.
- PTG's machine tools business also is a world leader in the manufacture of FSW (Friction Stir Welding) Powerstir machines, for high performance welding of aluminium structures in airplanes, space-launch vehicles, electric vehicles, railway carriages and locomotives, high-speed boats, etc.
- PTG provides global service and technical support to its customers, partners and sales agents, and welcomes enquiries from all interested parties.
- PTG's Holroyd Precision Rotors business is the world's largest independent supplier of screw rotors for screw compressors used in industrial air, air-conditioning, refrigeration and process-gas applications, with production lines sited in UK, USA and Chongqing, China.

霍洛伊德公司于1860年在英国成立，是提供高性能数控机床和生产特殊零部件领先者，如：

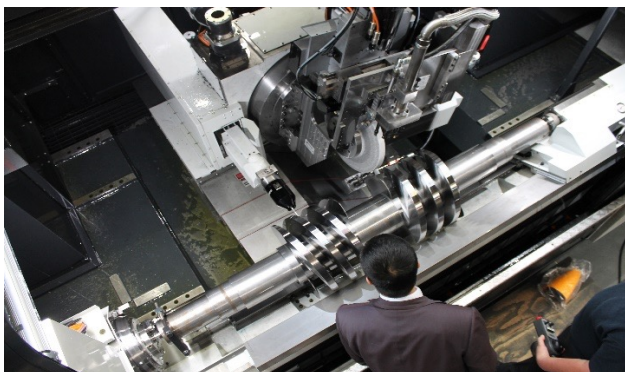
- 螺杆压缩机转子
- 流体泵和计量主轴
- 超级充电器转子
- 精密螺纹齿轮
- 搅拌摩擦焊零件 (FSW)
- 电动车的电池托盘

霍洛伊德目前雇佣了大约200名专家和人员，在持续创新和技术突破方面有着杰出的传统，以客户为中心，因创新获得了四项女王奖，标志着霍洛伊德作为世界级制造技术提供商的地位。

服务和市场

霍洛伊德提供项目和制造系统的全套交钥匙工程，并提供完整的技术转让和集成支持。霍洛伊德也是全球最大的螺杆压缩机转子供应商之一，通过霍洛伊德精密转子制造业务，在英国、中国和美国拥有先进的生产线。

霍洛伊德与重庆机床（集团）有限公司（CHMTI）合作，在重庆成立了一家合资公司“重庆霍洛伊德精密螺杆制造有限公司”，为许多中国领先的压缩机制造商生产压缩机转子。



服务的行业众多且遍及全球，包括供暖、通风和空调（HVAC）、工业空气、移动空气、动力输出、石油和天然气、发电、石化、航空航天和汽车（常规和电动汽车）。霍洛伊德的关键产品价值是该公司在支持整个价值链方面的技术能力和经验，从设计到制造，以及为客户提供零件认证。

• PTG 的霍洛伊德是一家领先的先进专用数控机床制造商，用于制造生产高精度压缩机转子、螺旋泵螺钉和精密齿轮的机床。

• PTG 的机床业务在 FSW（摩擦搅拌焊接）方面也是世界领先企业，用于飞机、航天运载火箭、电动汽车、铁路车厢和机车、高速船等铝合金结构的高性能焊接。

• PTG 为其客户、合作伙伴和销售代理提供全球服务和技术支持，并欢迎垂询。

• PTG 的霍洛伊德精密转子业务是全球最大的螺杆压缩机独立转子供应商，用于工业空气、空调、制冷和工艺气体应用，生产线位于英国、美国和中国重庆。



RMI

🌐 rmipsl.com

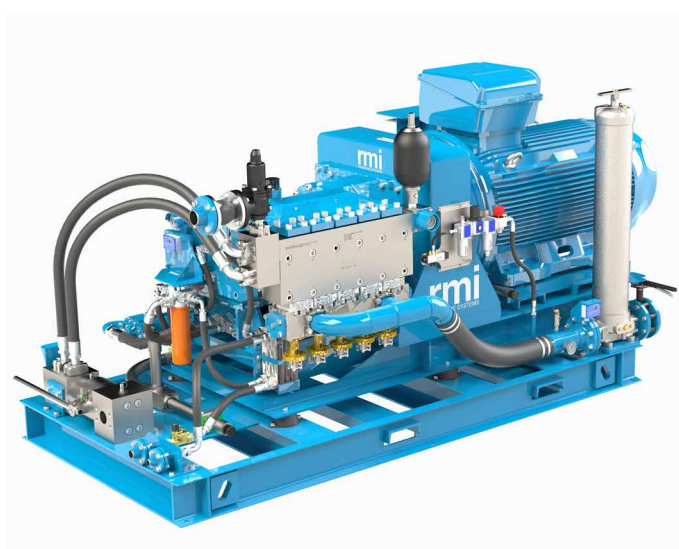
Productivity by design RMI Pressure System (a member of Armstrong Fluid Technology) is a global leader with an enviable reputation for high-pressure and highvolume fluid pumping stations for industrial and longwall mining markets. After over 100 years of business our research and design engineering practices are honored for the diverse and extreme environments our products are exposed to. Our extensive knowledge of complete systems and pump operating cycles help us to continue to develop innovative solutions that utilise the very latest technologies to enhance performance, reliability, availability and safety.

Designed for the ultimate reliability and availability RMI pumps have been designed with optimized maintenance in mind. Our modules and kits enable faster upgrades to maximize uptime availability while reducing spare stock holding. Support designed for complete peace of mind with operations in the UK, USA, India, China and Australia our customers benefit from local specialist service support. Our highly skilled service engineers provide complete peace of mind and are ready to visit site whenever needed

to provide routine maintenance, repairs, upgrades and training.

For over 100 years, RMI has been regarded as a preferred supplier for longwall coal mining communities around the world. We understand the extreme challenges of mining and our modular pump design enables us to manufacture customized systems for hydraulic roof supports and shearer to provide most reliable power and dust suppression. All RMI equipment is designed, manufactured and supplied in accordance with BS EN 9001 quality assurance and BS EN 14001 environmental management standard. Our products also meet and exceed any industry specific standards and accreditations.

Industry Applications RMI high pressure systems have been supplied across multiple industry applications for many decades. Designed to perform in hazardous environments, to increase productivity, while reducing energy consumption. RMI provide water hydraulic solutions for OEMs and end-users in the field of descaling, forging, extrusion, rolling, hydrostatics or power generation.



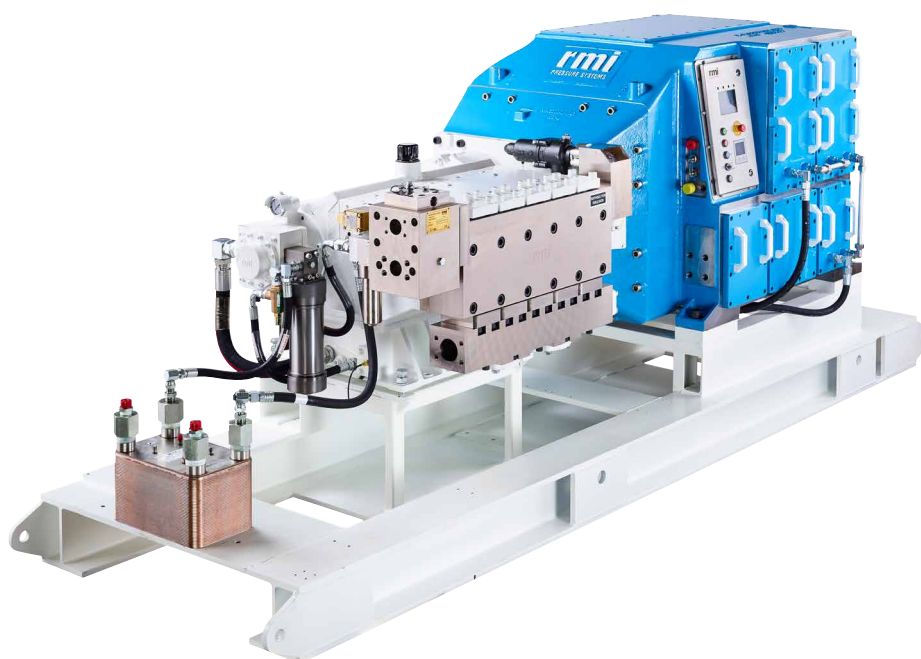
RMI压力系统公司（英国雷波）在世界范围内的工业和矿业长壁采煤方面引领高压大流量泵站潮流。经过100多年的努力发展，我们的研发设计工程实践造就了我们的产品可适用于各种工况环境，并且通过对整个系统及泵站工作的独特理解，我们持续创新和应用最前沿的技术，使泵站系统运行更平稳可靠，开机率更高，为用户提供更安全优质的生产条件。

RMI泵站的设计一直遵循着保养维护优化的原则，因此我们的模块化总成可减少库存，并有助于系统快速升级。我们的设备运行在全球重要客户区域，例如中国、欧洲、美国、印度、俄罗斯等国家和地区。分布全球各地的服务专家能够提供及时的日常维护，修理，升级和培训，为各地客户提供全面高效的服务支持和解决方案。

在长壁采煤方面，在过去数十年内RMI英国雷波公司一直是全球长壁采煤国家首选的供应商。我们理解采矿的严酷挑战，因此我们模块化的泵站设计可以对长壁

工作面采煤系统的液压支架和采煤机提供最可靠的动力和抑尘支持。所有RMI公司的设备制造，生产及供应均遵循BSEN9001质量认证，并符合BSEN14001认证的环境管理标准。我们的产品不仅满足还高于当地的矿业标准。

在工业应用方面，RMI公司的压力系统一直应用于多种工业场合（如除锈、锻造、挤压、水力、发电等）。其设计的宗旨是将设备良好应用在危险环境工况并且降低能耗和提高产量。RMI公司还可为设备制造商和最终用户提供水和液压系统方面的多种解决方案。





Sandvik

🌐 home.sandvik/cn

Sandvik is a high-tech and global engineering group offering products and services that enhance customer productivity, profitability and safety. We hold world-leading positions in selected areas – tools and tooling systems for metal cutting; equipment and tools, service and technical solutions for the mining industry and rock excavation within the construction industry; products in advanced stainless steels and special alloys as well as products for industrial heating. In 2018, the Group had approximately 42,000 employees and revenues of about 100 billion SEK in more than 160 countries within continuing operations.

Sandvik Rock Processing Solutions

Business area Sandvik Rock Processing Solutions is a leading supplier of equipment, tools, parts, service and solutions for processing rock and minerals in the mining and construction industries. Applications include crushing, screening, breaking and demolition. In 2020, sales were approximately 6,5 billion SEK with about 2000 employees.

Sandvik Mobiles

Sandvik Mobile Crushers and Screens are world class manufacturers of high quality tracked, wheeled and portable plant which provides a total solutions package for a large variety of applications worldwide

Originating from the Extec and Fintec brands, these two successful manufacturers of mobile crushing and screening equipment were acquired by Sandvik in 2006 to expand Sandvik's share of this market. This enabled Sandvik to develop into a world leading manufacturer of mobile crushing and screening equipment.

山特维克是一家高科技全球工程集团，致力于提供各种产品和服务，以提高客户生产力、盈利能力和安全性。我们在某些领域占据世界领先地位，例如：用于金属切割的工具和工具系统；用于采矿业和建筑行业岩石开挖的设备和工具、服务和技术解决方案；高级不锈钢产品和特殊合金产品以及用于工业加热的产品。2018年，集团在全球超过160个国家/地区持续运营，拥有约42,000名员工，销售收入约为1000亿瑞典克朗。

山特维克岩石技术

山特维克岩石技术是采矿和建筑行业中一家领先的岩石和矿物加工用设备、工具、零部件、服务和解决方案供应商。应用包括粉碎、筛分、破碎和破拆。2020年，销售额约为65亿瑞典克朗，员工约为2000人。

山特维克移动式破碎与筛分设备

山特维克提供高品质履带式、轮胎式、模块式破碎与筛分设备，并为世界范围内绝大多数应用提供完整解决方案组合。2006年，山特维克通过收购Extec与Fintec这两个极具影响力的移动破碎与筛分设备供应商，扩大了山特维克自身在该领域市场的份额，从而山特维克得以发展成为世界领先的移动破碎与筛分设备生产商。

自2018年起，山特维克品牌全系列移动式破碎与筛分设备在中国市场由浦塔环科技（上海）有限公司（简称POTA）总经销并提供服务、质保、备件等产品全生命周期服务。



Shadow Robot Company

 shadowrobot.com

Britain's longest-running robot company building next- generation robot hands and systems. Shadow is best known for its Dexterous Hand, the world's most advanced robot hand, offering a similar degree of freedom to the human hand. The company is also a pioneer in the fast-developing fields of teleoperation and telepresence with their Tactile Telerobot, where the Shadow Hand is combined with sensors and controlled via a haptic glove for touch feedback. Shadow's technology is designed for researchers and to help humans in difficult or dangerous jobs – such as nuclear decommissioning, pharma labs and remote maintenance tasks.

Shadow是英国运营时间最长的机器人公司，一直专注于研发新一代机械手和机械操作系统，旗下明星产品“灵巧手”是全球最为先进的拟人机械手，可与人手媲美；触觉遥控机械手以“灵巧手”为核心，结合触觉传感器，通过内置触觉反馈机制的触觉手套实现远程控制，奠定了Shadow在远程操作和远程控制等快速发展领域的先驱地位。Shadow技术可满足研究人员特定需求，能在核能除役、实验室制药及远程维护工作等复杂、危险的场景中协助人工作业，可极大降低安全事故的发生概率。







Terex Ecotec

 terex.com/ecotec/cn

Terex® Ecotec is an industry leader in the design and manufacture of wood processing, biomass and recycling equipment from North Ireland. Having developed a world class range of mobile equipment that will shape the industry for years to come, today the comprehensive product portfolio includes slow, medium and high speed shredders, trommel and recycling screens, waste handlers, windrow turner and conveyors. The range of innovative machines available provide efficient production, low operational costs and ease of maintenance, so end users are sure to find the correct machine for their application.

Terex® Ecotec是一家来自北爱尔兰的设备制造商，是木材加工、生物质处理和回收利用设备设计和制造的行业领导者。经过开发世界一流的移动设备，将在未来几年塑造行业，今天全系列的产品组合包括慢速、中速和高速撕碎机、滚筒筛和回收筛、废物抓料机、翻堆机和输送机。这些创新系列的机器可以提供高效的生产、较低的运营成本和便捷的维护，因此最终用户一定会找到适合自己应用的设备和解决方案。





Terex Powerscreen

 powerscreen.com

Terex Corporation is a global manufacturer of lifting and material processing products and services delivering lifecycle solutions that maximize customer return on investment. Major Terex brands include Terex, Genie, Powerscreen, Ecotec&TWS. Terex solutions serve a broad range of industries, including construction, infrastructure, manufacturing, shipping, transportation, energy, utilities, quarrying and mining. Terex offers financial products and services to assist in the acquisition of Terex equipment through Terex Financial Services. More information about Terex is available on its website: www.Terex.com

Powerscreen is a Part of Materials Processing Division of Terex Corporation. With a 56 year rich heritage of design and manufacturing excellence, Powerscreen is a leading force in the crushing and screening heavy plant sector. Powerscreen® machines cover the full range of material processing requirements with mining equipment, quarrying equipment and mobile crushing and screening machines for the mining, quarrying, demolition and recycling industries.

One of Powerscreen's most important strengths is our Global Dealer Network. 130 companies working tirelessly worldwide to support our customers. From your first machine purchase through to technical support, servicing and provision of spare parts, Powerscreen and our Global Dealer Network are on hand to help.

We are committed to helping you and your business. With industry leading levels of productivity, efficiency, ease of maintenance and inbuilt operational and safety features, our proven range of equipment is designed to maximize our customers return on investment.

特雷克斯(中国)投资有限公司特雷克斯是一家从事生产吊装和物料处理设

备的全球性制造商,竭诚为产品提供终生的解决方案,帮助客户获得最大的投资回报。特雷克斯的主要品牌有Terex, Genie, Powerscreen, Ecotec & TWS, 广泛服务于建筑行业、基础设施、制造业、运输、能源、公用事业、采石采矿等行业。同时,特雷克斯还可以为客户提供金融服务方案,来提升客户的购买能力。了解更多可登录网址: www.terex.com

POWERSCREEN是特雷克斯品牌之一。凭借着56年的设计经验和制造工艺,成为移动破碎和筛分行业的先锋。POWERSCREEN拥有最宽泛的移动破碎及筛分产品系列,广泛应用于采矿、采石、工程承包、拆除和回收等行业。

POWERSCREEN拥有强有力的经销网络,覆盖全球,是我们的主要优势之一。130余家经销商孜孜不倦地在全球范围内提供售前咨询、技术支持、售后服务、配件供应等各项服务。不论您的需求是什么,POWERSCREEN及其旗下经销商都能在第一时间提供相应的帮助。

POWERSCREEN产品具有动力强劲、性能可靠、产量大、效率高、易于维护、操作便捷及运行安全等特点,在行业中处于领先地位。POWERSCREEN将确保您的每笔投资都物超所值,获得最大的投资回报。



Woodcock & Wilson Ltd



Specialist Manufacturers of Centrifugal and Axial Industrial Fans including UKEX, ATEX, and IECEx certification. We engineer and manufacture the world's most innovative, reliable and safest industrial fans

At Woodcock & Wilson, we manufacture industrial fans, specialising in arduous applications including hazardous areas.

Every fan we make is bespoke. Designed and engineered to the highest possible standards. Our team of highly skilled engineers meticulously build each component to create fans that meets the exact requirements of our customers.

Safety and efficiency are at the heart of everything we do. We work hard to ensure all our products meet all international safety standards for hazardous area equipment including UKEX, ATEX and IECEx fans that are constructed to operate in explosive atmospheres including Hydrogen.

Our senior fan engineers have over 150 years combined experience in the industry giving you peace of mind that your project is being handled by experts at every stage. We pride ourselves on delivering unique and simple solutions to complicated projects.

Woodcock & Wilson Ltd were the first fan manufacturer to achieve ISO:9001:2015 accreditation.

Woodcock & Wilson Ltd are the only fan manufacturer to have achieved independent UKEX Approved Body, ATEX Notified Body and IECEx approval for our entire industrial centrifugal and axial fan ranges.

For over 45 years we have created bespoke industrial fans for some of the world's biggest companies in the oil and gas, pharmaceutical and chemical industries. They trust us to deliver on our promises because at Woodcock & Wilson, we are fanatical about quality, innovation and service.

伍德考克威尔森是持有UKEX, ATEX和IECEx认证的工业离心和轴流风机的专业制造商, 我们设计和制造世界顶级创新、可靠安全的工业风机。

伍德考克威尔森公司制造工业风机, 并且精专于严苛环境、包括危险环境的应用。

我们出品的每一台风机均按照最高标准专业设计和定制。我们有经验丰富技术精湛的团队, 精心制造每一个风机部件和整机, 以满足客户的需求。

安全高效是我们的核心价值观。我们致力于保证所有危险区域风机符合国际安全标准, 这些标准包括UKEX, ATEX和IECEx, 我们的产品适用于包括氢气在内的易爆环境。

伍德考克威尔森的工程师有加起来超过150年的丰富经验, 我们确保客户的项目在每个环节都有资深专家保驾护航。我们给客户的复杂项目提供了独特简洁的解决方案, 这让我们引以为傲。

伍德考克威尔森是首家取得ISO: 9001:2015认证的风机制造公司。

伍德考克威尔森是唯一一家在所有出品的离心和轴流风机上都同时取得独立UKEX认证机构, ATEX通报机构和IECEx认证的风机制造公司。

在超过45年里, 我们为全球在油气业、制药业和化工领域的特大型企业提供了定制工业风机。这些企业信任我们的产品和承诺, 因为我们公司专注于质量, 创新和服务。





Zeeko Ltd

 zeeko.co.uk

Zeeko is a well-known name in optics fabrication. It builds the most accurate polishing machines for freeform optics in the world. Developed over the last twenty-two years by its dedicated team of engineers and scientists, Zeeko has used its machines, software and process technology to precision polish some of the best-known space telescopes and satellite optics yet produced, including many very complex X-Ray telescope mirrors.

For its latest product development, Zeeko engineers have taken this well-developed high-end process, simplified it, re-engineered it and integrated it to regular industrial robots and CNC machine tools. This automated surface finishing process is now available and being used for many machined and 3D printed precision components. Typical applications for this process are satellite componentry, aerospace parts, precision moulds, turbine blades, orthopaedic joints, medical devices and many other consumer applications including moulds for automotive Head Up Displays (HUD's) and moulds for curved cover glasses for mobile phones.

By the application of its specialist tools and intuitive software, the process is used to polish almost all materials including aluminium, specialist steels, including hard and tough materials, such as silicon carbide and tungsten carbide. Of great interest at this moment, is its high-speed and accurate processing of 3D printed plastic and metal artefacts.

The patented process is impressively simple, fast and can achieve a range of accuracies from shining a pre-machined surface to correcting or maintaining a high-precision optical surface. The reduction of the roughness of even 3D printed surfaces to smooth and reflective finishes can be achieved in a few minutes. The process uses Zeeko's own tools that have been specially developed to achieve ductile removal and in the most demanding of applications, these tools achieve a lifetime of many hours.

ZEEKO INDUSTRIAL

Polishing Made Simple

Zeeko polishing processes have been developed over the last 22 years by the parent Company of Zeeko Industrial. The development has been focussed on the "high-end" polishing of optical surfaces for satellite mirrors, X-ray telescopes, scanner technologies as well as the equally demanding market of mobile phone camera technology.

Zeeko-Industrial has taken that well-developed high-end technology, simplified it, re-engineered it by adding a fast high removal rate process supported by specialist tools and software and integrated it to regular industrial robots and CNC machine tools. This automated surface finishing process is now available to the industrial market and is being used for both machined and 3D printed precision components.

Typical applications are aerospace parts, precision moulds, turbine blades, orthopaedic joints, medical devices and other consumer applications including moulds for automotive Head Up Displays (HUD's).

The Process runs on existing machine tools Just like yours) - 3, 4 and 5 axis machines from Mazak, Fanuc, DMG, Hurco, Doosan, Haas and 6 axis robots from all the major suppliers like Fanuc, ABB, Yaskawa, Staubli and many others

The process is intuitive for simple parts that need "shining" and remains uncomplicated on even the most complex and challenging high precision surfaces. In all applications it maintains a straightforward uncomplicated procedure and retains its "one button" interface wherever possible.

To Adopt The Process: You will need to purchase "Zephyr Tools" from Zeeko Industrial as well as either renting or buying a software licence for the revolutionary ZephyrCAM Industrial software. The user will need a clean 3,4 or 5 axis CNC machine or a 6-axis robot equipped with some form of part probing.

Zeeko有限公司是一家知名的光学产品制造企业，世界上精确度最高的自由曲面光学抛光机便出自该企业之手。在过去22年中，经过敬业的工程师和科学家团队的开发，Zeeko利用其机器、软件和工艺技术完成了一系列高难度的抛光作业，其中就包括一些迄今为止最为著名的太空望远镜和卫星光学元件，以及许多非常复杂的X射线望远镜镜面。

Zeeko工程师利用这些现有完善的高端工艺，对新品设计进行简化和改造，并将其集成到普通工业机器人和数控机床中。这种自动化表面处理工艺现已投入市场，在许多精密部件的加工和3D打印作业中均有应用。该工艺的典型应用有卫星部件、航空航天零件、精密模具、涡轮叶片、骨科关节、医疗器械和许多其他消费级应用，包括汽车平视显示系统（HUD）模具和移动电话曲面盖玻璃模具。

在专业工具和便捷软件的支持下，该工艺几乎可用于所有材料的抛光作业，包括铝、专用钢，以及硬质和刚性材料，如碳化硅和碳化钨。这项工艺在3D打印塑料和金属工艺品方面所表现出的高速精确处理能力在市场上备受关注。

这项专利工艺的操作便捷、快速，可确保从抛光机械加工表面到校正或保养高精度光学表面等一系列作业的精度，甚至可以在几分钟内将3D打印的粗糙表面打磨至光滑和反光。它使用了公司为实现延性去除而专门自主研发的工具；即使在最苛刻的使用环境中，这些工具也有很长的使用寿命。



英国先进制造行业概览

Zeeko工业公司

让抛光变得简单

Zeeko工业公司（Zeeko工业）的母公司（Zeeko有限公司）在过去22年中研发了Zeeko抛光工艺。该研发侧重于卫星反射镜光学表面的“高端”抛光、X射线望远镜、扫描仪技术以及同样高要求、高标准的移动电话摄像技术市场。

Zeeko工业利用其现有完善的高端技术，并以此为基础对其进行简化和改造，纳入专业工具及软件支持的快速高去除率工序，并将其集成到普通工业机器人和数控机床中。这种自动化表面处理工艺现已投入工业市场，在精密部件的加工和3D打印作业中均有应用。

该工艺典型的应用有航空航天零件、精密模具、涡轮叶片、矫形关节、医疗器械和其他消费级应用，包括汽车平视显示系统（HUD）模具。

该工艺可以在现有的机床（如你们的机床）上运行，包括马扎克、发那科、德马吉、赫克、斗山、哈斯生产的三轴、四轴和五轴机床，以及来那科、ABB、安川、史陶比尔等主要供应商生产的六轴工业机器人。

该工艺简捷易操作，适用于简单零件的打磨，那些复杂度极高、难度极大的高精度表面也同样不在话下。该工艺在所有应用程序中的流程设计均直接明了，便于操作，并尽量保留了一键式操作界面。

要想使用该工艺：您需购买Zeeko工业旗下的西风（Zephyr）工具，以及租赁或购买革命性西风计算机辅助制造（ZephyrCAM）工业软件的使用许可。为保证工具及软件的顺利安装，您需准备好三轴、四轴或五轴的初始化数控机床，或者配备零件探测装置的六轴工业机器人。

Addmaster

 addmaster.co.uk

Addmaster is the leading supplier of technically innovative additives for the plastics, paper, textile, paints and coatings industries.

We help brand owners, manufacturers and product designers create a unique point of difference, adding increased value to their products. Our additives can also help improve production processes or solve specific problems within the manufacturing process.

We offer a revolutionary resource centre for masterbatches, compounds and liquid or powder dispersions for any application. Since the company was founded in 2000, the outstanding success of our business model and our ongoing commitment to research and development, has enabled us to expand into the global market and establish Addmaster as one of the world's leading suppliers in our field. Over the course of the last two decades, we have proudly earned three Queen's Awards, in addition to numerous accolades from within our industry.

Our famed Biomaster antimicrobial additive gives products fast, effective and long lasting antibacterial and antiviral protection reducing the risk of cross-contamination. It is incorporated into thousands of products worldwide, winning awards for its innovation.

Verimaster technology offers unique anti-counterfeiting brand protection and product verification options that can be tailored to your security needs.

Scentmaster provides a wide choice of effective long life fragrances, flavours and deodoriser technology for your product. As well as our established specialised products, we also offer a bespoke service, Masterpiece. This service can adapt or create additive solutions specifically for your business.

Addmaster 是塑料、造纸、纺织、油漆和涂料行业技术创新添加剂的领先供应商。

我们帮助品牌、制造商和产品设计师创造独特的差异点，为其产品增加价值。我们的添加剂还可以帮助改进生产工艺或解决制造过程中的特定问题。

我们的添加剂以母粒，液体或粉末的形式提供。Addmaster自 2000 年成立以来，我们的业务模式取得了巨大成功，加上我们对研发的持续承诺，使我们能够扩展到全球市场，并将 Addmaster 打造成该领域的世界领先供应商之一。在过去的20多年内，我们获得了三次英国女王贸易奖，以及其他多个行业奖项。

Biomaster 抗菌添加剂为产品提供快速、有效和持久的抗菌，抗病毒保护，降低交叉污染的风险，它被纳入全球数千种产品中，并因其创新而获得各大奖项。

Verimaster 技术提供独特的防伪品牌保护和产品验证功能，可根据您的安全需求进行定制。

Scentmaster 为您的产品提供多种有效、长效的香味技术，除了我们成熟的专业产品外，我们还提供定制服务 Masterpiece。该服务可以专门为您的业务调整或创建附加解决方案





B&M Longworth

 bmlongworth.com

Welcome to B&M Longworth – a true technology leader in high-value component recovery, materials recycling and environmental waste reduction solutions. Our technologies are innovative, ecologically ground-breaking and proven.

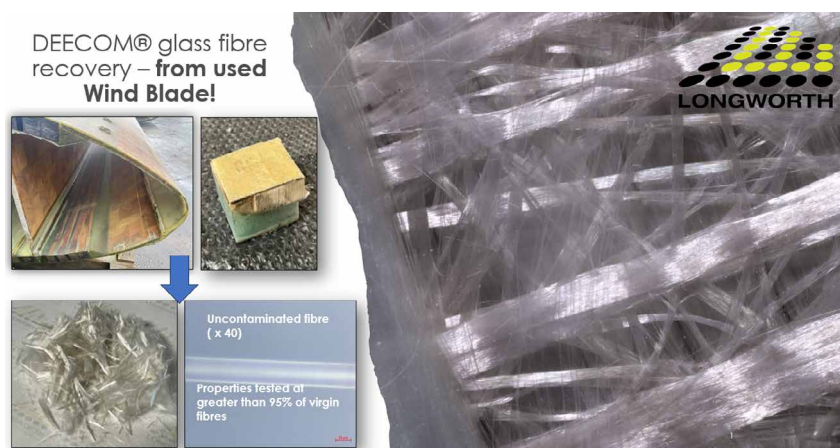
If you produce high-grade polymers for products such as PET bottles, packaging films, electronics and textiles, you will use high-value reusable filters that need to be expertly cleaned, validated and re-assembled. We have the most advanced, environmentally sustainable systems and processes to enable you to do this, and we offer a full-scope solution including equipment supply and installation, plus full technology transfer and training to enable you to do this work in-house. Results – zero damage to the environment, no chemical waste, no costly solvents, huge cost savings to you.

If you produce components made from composites such as Glass-Fiber Reinforced Plastics (GFRP) and Carbon-Fiber Reinforced Plastics (CFRP), for industries including wind energy, New Energy Vehicles (NEVs), aerospace and construction, you can use our advanced DEECOM

technology to process your used components and waste products to recover the valuable fibers at their original quality and integrity. Our DEECOM system uses only water and controlled heat input – we use no chemical solvents! – so that fibers recovered can be recycled into high-grade products and applications, or traded as a valuable commodity.

With almost 50 years' experience in high-value process industries across the world, B&M Longworth understands the importance of customers' components, intellectual property and technologies. We know that your products matter greatly to you and need to be treated with the highest level of care and attention. With B&M Longworth you can take this as a certainty, while being assured that our testing facilities and knowledge are at your service to provide validation and traceability to meet all industry standards.

B&M Longworth welcomes your enquiries! Please contact us in China through our official National Representative, Ms Amy (Yan) Song, on Wechat or by email at yan.song@bmlongworth.com



B&M Longworth致力于提供高价值部件回收、材料循环利用和环境废物减少解决方案，是该领域真正的技术领导者。我们的技术具有创新性，在生态保护领域取得了突破性进展，且相对成熟。

如果您生产的是适用于PET瓶、包装膜、电子产品、纺织品等产品的高级聚合物，您将用到需要专业清洁、验证、重新组装，且可重复使用的高价值过滤器。为此，我们可以向您提供最先进的，有利于环境可持续发展的系统和工艺。同时，我们还可提供包括设备供应、安装在内的全方位解决方案，以及全面的技术转让和培训服务，使您能够在公司内部完成这项工作。在我们的支持下，您不仅可以实现环境零破坏、无化学废物产生，还能避免使用昂贵溶剂，助您大幅节省成本。

如果您生产的部件由玻璃纤维增强塑料 (GFRP)、碳纤维增强塑料 (CFRP) 等复合材料制成，用于风能、新能源汽车 (NEV)、航空航天和建筑等行业，您可以利用我们的DEECOM先进技术处理老旧部件和废品，在不损伤质量和完整性的前提下，回收有价值的纤维。DEECOM系统仅使用水和受控高温蒸汽——未使

用化学溶剂！基于此，回收的纤维可循环用于高档产品和应用，或作为有价值的商品进行交易。

B&M Longworth在全球高价值加工行业拥有近50年的经验，深知客户零部件、知识产权和技术的重要性。我们知道您的产品对您非常重要，需要最高水平的护理和关注。在B&M Longworth，您无需对此担忧。我们的测试设备与相关知识将为您提供符合所有行业标准的验证、可追溯性服务。

欢迎垂询！您可通过微信，或电子邮件 (yan.song@bmlongworth.com) 联系我们在中国的官方代表 Amy (Yan) Song女士。

Typical polymer filters 典型的高分子过滤器

Candle filters
烛式过滤器



Disc filters
盘式过滤器



Disc filters in housing
盘式过滤器内部



Filters used in PET production. Before and after DEECOM® 使用 DEECOM®之前和之后



Zero chemical waste, Environmentally sustainable
40% process cost compared to TEG cleaning, greatly extended filter process life

BMP

 bmpworldwide.com

BMP is a wholly owned subsidiary of Andrew Industries Ltd, a privately owned global industrial manufacturing group, specialising in the manufacture and conversion of Technical Non-Woven Textiles, Engineered Polyurethane Elastomers, Mechanical Components and Sub Systems for use in a diverse range of applications.

Non-wovens

BMP produces high-performance textiles for the most demanding applications. Our existing product portfolio and our technical expertise make the most severe operating environments and conditions seem routine, developing and producing textiles that perform effectively and efficiently.

With product composition ranging from polyester and polypropylene to such high-performance fibres as Aramid, PTFE and PPS, we offer products that meet most of our customer's requirements. Add this to a broad range of mechanical finishes and treatments, giving us a broad scope of general purpose and speciality fabrics from a single source.

Filtration

BMP's outstanding technical non-woven knowledge has assisted with leveraging their manufacturing expertise into a comprehensive scope of markets for high-performance filtration products for the automotive, floor care & medical markets.

BMP has the capability to perform media conversion, including pleating, die-cutting, slitting and laminating operations. This significant equipment investment shows BMP's dedication to providing high-quality automated processes designed with cost consciousness in mind.

BMP can provide finished filtration assemblies through by clipping, ultrasonic welding, and end-cap moulding depending on customer requirements.

Final assemblies are validated through performance checks, including air permeability testing, efficiency testing, HEPA indication, SEM testing and FTIR tests to ensure that BMP supply a product to be trusted every time.

Elastomers

Polyurethane is a resilient, flexible and durable polymer material used in thousands of applications across wide range of industries, including screen printing, laser printing, material handling and floor cleaning.

BMP is a leading processor of polyurethanes utilising the latest material technologies to provide exceptional technical capability to meet specific customer requirements.

BMP是安德鲁工业有限公司(Andrew IndustriesLtd)的全资子公司,专门从事应用于各类场景的非机织纺织品、工程聚氨酯弹性体、机械部件和子系统的制造和转换。

非织造布

BMP生产的高性能纺织品,可满足要求最为苛刻的应用场景。其现有产品组合和专业技术可从容应对极端操作环境及条件,从而确保高性能纺织品开发与生产活动的有序进行。

公司产品主要包括聚酯、聚丙烯、芳纶、聚四氟乙烯(PTFE)和聚苯硫醚(PPS)等高性能纤维,可满足客户的大部分需求。这些产品可添加至一系列的机械加工和处理流程中,从而将单一材料转化为可满足一般或特殊用途的纺织物。

过滤

BMP卓越的非机织布知识有助于为汽车、地板护理和医疗市场提供全方位的高性能过滤产品。

BMP具有介质转换作业能力,包括折叠、模切、分切和层压操作。BMP在该设备的大力投资表明了其致力于提供高质量、高性价比自动化工艺的决心。

BMP可以根据客户要求通过剪切、超声波焊接和端盖成型提供成品过滤组件。

公司生产的最终组件均通过性能检查,包括空气渗透性测试、效率测试、高效空气过滤器(HEPA)指示、扫描电镜(SEM)测试和红外光谱(FTIR)测试,从而保证BMP交付给客户的每一件产品的质量都值得信赖。

弹性体

聚氨酯是一种弹性强、灵活度高且耐用的聚合物材料,在各种行业均有应用,包括丝网印刷、激光印刷、材料处理和地面清洁。

BMP是一家顶级聚氨酯加工商,拥有最新的材料技术和卓越的技术能力,可满足广大客户的特殊要求。



Carpenter Additives

 carpenteradditive.com

Carpenter Additive is a business unit of Carpenter Technology Corporation, a global leader in high-performance specialty alloy-based materials and process solutions for critical applications in the aerospace, transportation, defense, energy, industrial, medical, and consumer electronics markets. With a focus on metal powders and material handling solutions for additive manufacturing, Carpenter Additive manufacture quality powders and offer services to support the needs of production customers and research partners, bringing a wealth of knowledge and expertise to customers in metal AM. Success with industrial metal 3D printing requires material expertise and Carpenter Technology has over a century of experience precisely engineering and controlling material microstructures and is at the forefront of scaling AM to qualified production in critical industries. The Carpenter Additive team of experts partner with customers from concept to creation to ensure success and add value throughout the AM process.

Carpenter Additive offers a standard suite of metal powders designed for additive manufacturing, PowderRange. This comprehensive range of metal powders are certificated to AS9120, AS9100, ISO9001 & ISO13485, and ready to ship in 24 hours. They are

developed for LPBF (Laser Powder Bed Fusion) and EBM (Electron Beam Melting), and are optimized to a variety of machine types. Beyond this powder offering, Carpenter Additive can also develop custom powders designed to deliver the precise mechanical properties that the customer's application demands.

In addition to supplying metal powders, we also offer material handling strategies and consultative development to industrialize your AM needs with a variety of production additive systems. Carpenter Additive offer services, software, and hardware to help AM users to manage powder. PowderLife is a combination of cloud-based tracking software with hardware designed to make powder handling easier. A powder- to-part additive manufacturing solution, PowderLife is a proven AM metal powder management system that governs the entire AM process with a free, easy-to-use, secure, cloud-based digital platform that can be integrated with materials and machines from any vendor. It's a single system for managing inventory and capturing vital process data — creating a digital thread, fulfilling regulatory documentation requirements, and offering one source of truth for real-time traceability through the complete lifecycle of the powder.



Carpenter Additive是Carpenter科技公司的业务部门，可提供全球领先的高性能特种合金材料和工艺解决方案，满足航空航天、运输、国防、能源、工业、医疗和消费电子市场的主要应用需求。公司专注于生产增材制造所需的金属粉末和制定材料处理解决方案，为客户和研究伙伴提供优质金属粉末和上乘服务，为金属增材制造客户提供丰富的知识和专业技能支持。工业金属3D打印领域的成功需要材料专业知识的支撑。Carpenter科技公司拥有上百年的精确工程设计和控制材料微观结构的经验，从而跻身关键行业增材制造合格规模化生产的前列。Carpenter Additive团队与客户开展从概念形成到产品创造等方面的合作，确保整个增材制造过程顺利进行，实现增值。

我们开发了一套用于增材制造的标准金属粉末，并将其命名为Powder Range。整个系列的金属粉末均已通过AS9120、AS9100、ISO9001和ISO13485体系

认证，可在24小时内装运。它们专为激光粉末床熔融（LPBF）和电子束熔融（EBM）研发，并针对多种型号的机器进行了优化。此外，我们还可以为客户研发定制粉末，提供精确机械性能。

除了供应金属粉末，我们还提供材料处理方案和开发咨询服务，以满足客户增材制造需求，帮助客户建立增材生产系统体系。我们还为增材制造用户提供各种服务、软件和硬件支持，帮助他们实现粉末高效化管理。以我司研发的粉末软硬件云追踪平台Powder Life为例，它灵活、安全、易操作，可有效简化粉末管理流程，实现从粉末到配件的整个增材制造过程的高效管理，并且还能与任一供应商的材料和机器相互集成。作为管理库存和捕获关键工艺数据的独立系统，Powder Life还可完成数字线程创建任务，满足规范性文件编制需要，确保粉末在整个生命周期的实时可追溯性。



Holscot Advanced Polymers Ltd

🌐 holscot.com

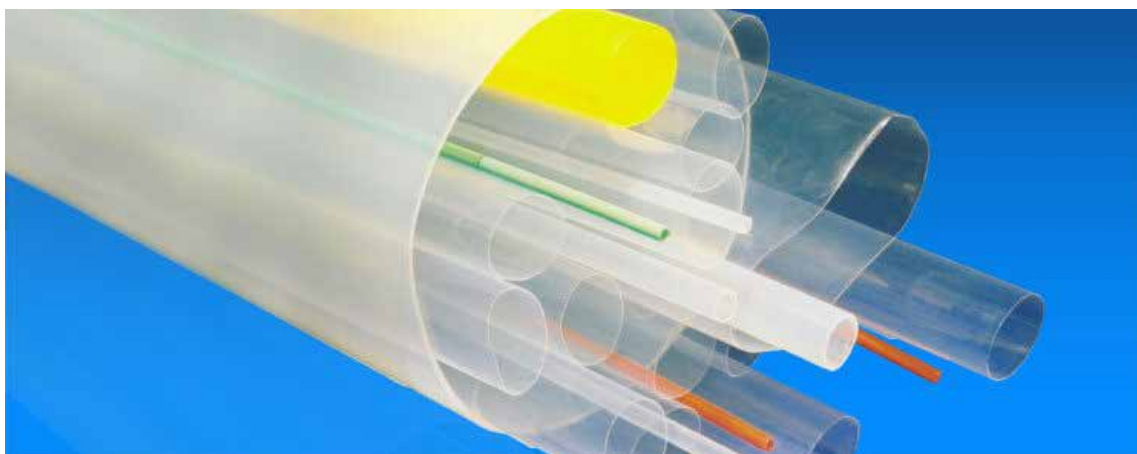
Holscot Advanced Polymers Ltd, has been providing custom-made and standard product solutions from fluoropolymer materials for over 50 years. We work with a wide range of industries including:

Aerospace, Lighting inc LED Grow Lamps, Paper Print & Lamination, Offshore Gas & Oil, Bio-Science Medical & Pharma, EV Hydrogen & Solar, FEP, PFA & ETFE (sometime called Teflon) are melt processable plastics. These fluoropolymers have many desirable properties, including:

- Chemical Resistance
- Low Friction
- Transparency
- Low Permeability
- Electrical Insulation
- Wide Thermal Range
- Weather Resistance
- Impact Resistance
- Heat Sealable & Mouldable

We extrude in-house tubing (30mm to 450mm in diameter) and film approx. 1000mm in width, with a wall thickness range of 0.2mm to 2mm+.

- FEP PFA & ETFE Extruded Tubing
- FEP PFA Heat Shrink Sleeving – we have global contacts who can help with fitting or on-line training to support your in-house fitting
- FEP & PFA Film
- Shatter Resistant Lighting Layflat Tubing
- Aerospace Custom Mouldings
- Aerospace Bladders & Tank Linings
- EV & Hydrogen Battery Protection
- FEP Corrosion Protection Barriers, Membranes & Bags
- ETFE Structures – Holscot patented panel system for horticulture and glass houses
- FEP Hose Liners
- FEP Flange Shields



Holscot Advanced Polymers Ltd. 致力于提供与含氟聚合物材料有关的定制及标准产品解决方案，并在此领域积累了超过50年的经验。我们的合作行业包括：

航空航天、照明（包括LED植物生长灯）、纸张印刷和层压、海上油气、生物科学医疗和制药、氢能和太阳能电动汽车

FEP、PFA和ETFE（或称特氟龙）均是可熔融加工的塑料。这些含氟聚合物具有许多理想的性质，包括：

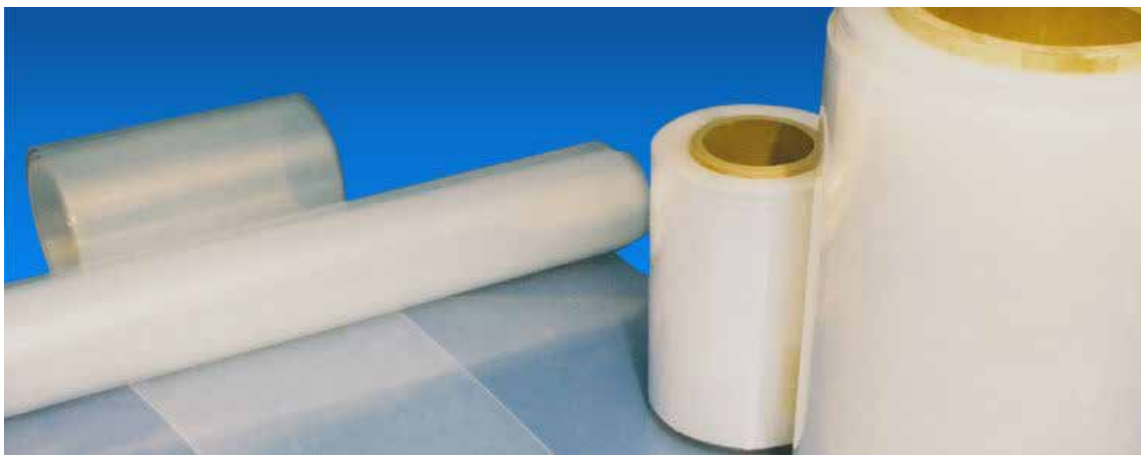
- 耐化学性
- 低摩擦系数
- 透明
- 低渗透性
- 电气绝缘
- 使用温度范围广
- 耐候性
- 抗冲击性
- 可热封、可模塑

我们可挤压制成管材（直径30mm至450mm）和薄膜（宽度约为1000mm，壁厚0.2mm至2mm+）。

FEP、PFA和ETFE挤出管材

FEP、PFA热缩套管——我们拥有覆盖全球的支持团队，可以提供装配服务，或通过在线培训，帮助您自行完成安装

- FEP、PFA薄膜
- 防碎照明平管
- 航空航天定制模具
- 航空航天储存囊和储罐内膜
- 电动汽车和氢电池保护
- FEP防腐屏障、保护膜、保护袋
- ETFE结构：园艺和玻璃温室用Holscot专利面板系统
- FEP软管内膜
- FEP法兰护罩



Hylomar Ltd

🌐 hylomar.com

Hylomar Limited manufactures a wide range of high-performance sealants and adhesives used by some of the leading OEM's in the world of automotive, aerospace, white goods, power generation/distribution, electronics/photonics and general industrial manufacturing.

Hylomar sealants are the leading non-setting gasket and jointing compounds in the world originally developed by Rolls-Royce Hylomar Aerograde, Aerograde Ultra are specified by various aero-engine manufacturers.

Hylomar AF Spezial is used for sealing electric vehicle battery packs.

Hylomar Limited 生產範圍廣泛的高性能密封劑和粘合劑，被汽車、航空航天、白色家電、發電/配電、電子/光子學和一般工業製造領域的一些領先原始設備製造商使用。

Hylomar 密封膠是世界上領先的非固化墊片和接合劑，最初由 Rolls-Royce Hylomar Aerograde 開發，Aerograde Ultra 被各種航空發動機製造商指定。

Hylomar AF Spezial 用於密封電動汽車電池組。







TFP Hydrogen Products

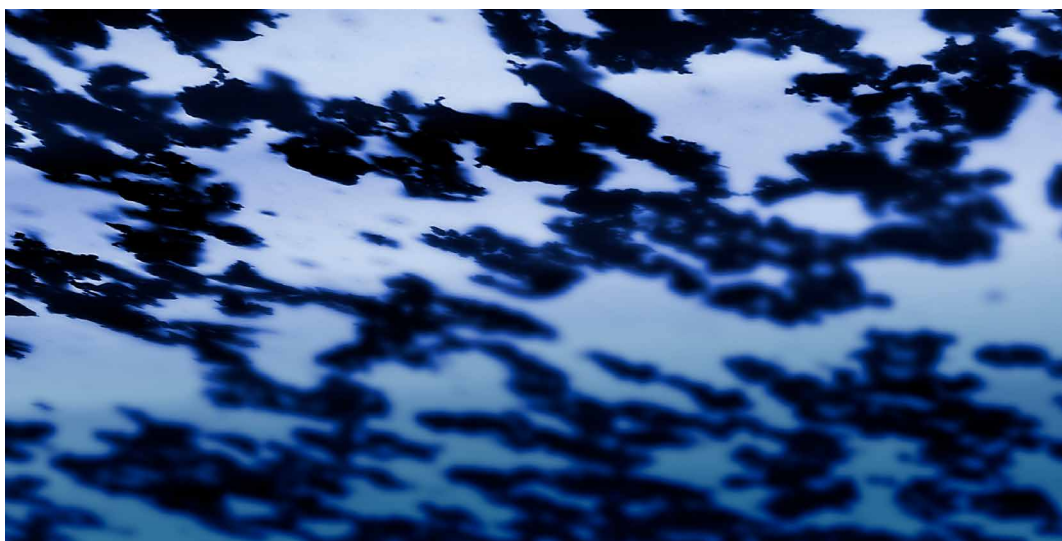
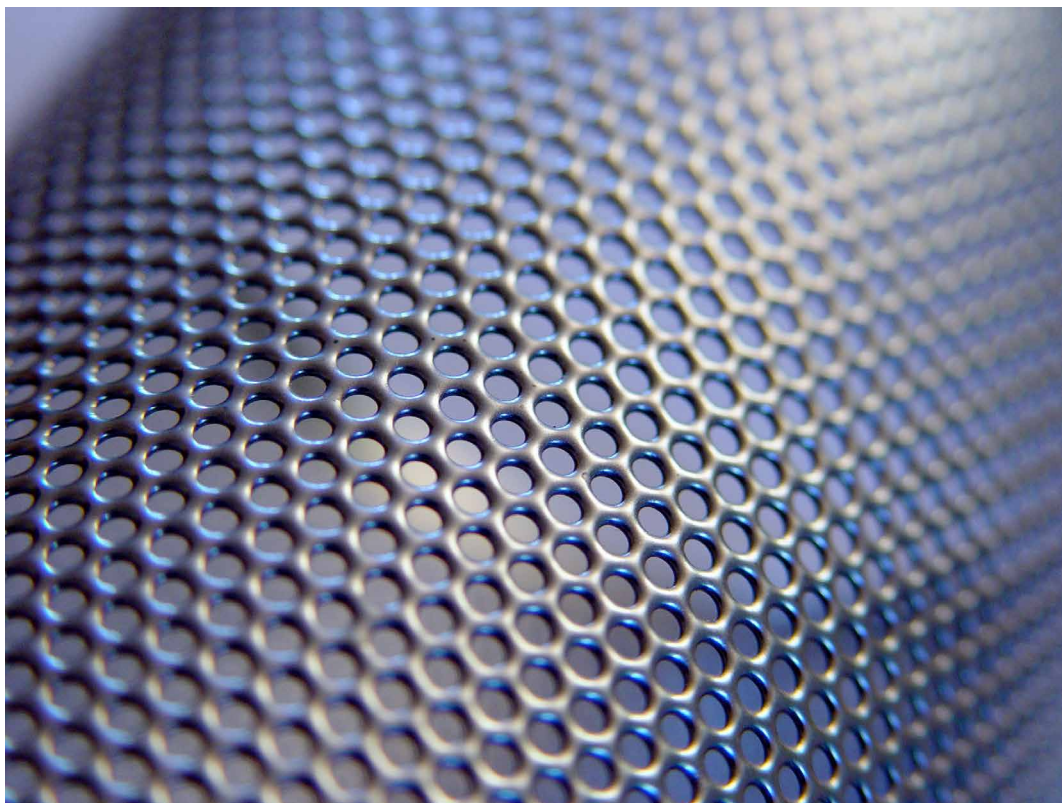
🌐 tfphydrogen.com

TFP Hydrogen Products is a specialist in the manufacturing and development of electrochemical materials, particularly for the hydrogen economy. We produce a wide selection of high performance materials for Proton Exchange Membrane (PEM) & Alkaline water electrolysis including catalysts and component coatings which increase the efficiency, durability and lifetime of the system - reducing the long term cost of green hydrogen generation. We also produce coated electrodes for the full range of electrochemical processes and our parent company TFP manufacture marketing leading GDL substrate for hydrogen fuel cells.

We have an experienced team of electrochemists, developing and manufacturing a range of solutions for these applications and work collaboratively with suppliers, partners and customers to develop materials which are developed and optimised for a specific applications.

TFP氢产品有限公司是电化学材料制造和开发的专家，尤其是氢经济方面。我们旨在为质子交换膜（PEM）和碱性水电解生产多种高性能材料，包括催化剂和组分涂料，有效提高系统效率、耐用性及寿命，同时降低绿色制氢的长期成本。我们还生产用于全系列电化学工艺的涂层电极；母公司TFP生产市场领先的氢燃料电池GDL基板。

我们拥有一支经验丰富的电化学团队，为这些应用场景开发和制定一系列解决方案，并与供应商、合作伙伴及客户合作开发和优化特殊应用场景下的专用材料。



Trimat Ltd

🌐 trimat.co.uk

Trimat Ltd is an advanced developer and manufacturer of friction materials for use in a wide variety of equipment and environments. Established in 1962 the company has an excellent reputation for supplying premium quality products and customer service, at competitive prices to a worldwide customer base.

Our asbestos free brake and clutch linings, friction material products and components are the preferred choice for many world-leading original equipment manufacturers. Installed on a diverse array of industrial, marine, mining, aerospace, elevator, construction, oil and gas, off and on highway vehicles, Military, agricultural and domestic applications, anything from vacuum cleaners to offshore drilling rigs, even satellites. Our products provide consistent, durable performance often in the most difficult circumstances and environments; salt water, subsea, high humidity, sub-zero temperatures, hot and dry dusty climates, Trimat friction products are successfully applied in all.

Producing a broad range of friction materials that include, press moulded, woven and roll formed qualities including organic and semi metallic

formulations, each offering different frictional properties and mechanical characteristics. Our friction products are available as finished machined or moulded parts, bonded assemblies or alternatively sheets and rolls for machining locally.

All Trimat friction materials and products are manufactured at our modern, environmentally friendly UK production plant, in a quality driven, clean, well-organised and flexible manufacturing facility suitable for low or high volume requirements. Every process is regulated by stringent quality controls and a quality management system accredited to ISO9001:2015.

Research and development is an integral part of our business model. Our in-house expertise and expansive knowledge of brake and clutch applications enables us to collaborate closely with clients to develop materials specifically for their needs. Our development team work with the latest raw material technology including Kevlar, Panox, Triton, Ceramics, Aramid products to ensure that our materials are at the forefront of friction technology.



Trimat有限公司是一家开发及制造摩擦材料的高端生产商，其产品可适用于各种设备及环境，业务遍及全球。该公司成立于1962年，在60多年的运营中，以极具竞争力的价格，为全球客户提供优质产品以及完备的配套服务。

我们生产的无石棉刹车片、离合器片、摩擦材料产品和其他配件，都已是多家世界领先级原始设备制造产商的首选产品；此外，我们的产品在工业、海洋、采矿、航空航天、电梯、建筑、石油天然气、公路和非公路车辆、军事、农业和家用设备等领域也被广泛应用，甚至覆盖到真空吸尘器以及海上钻探设备和人造卫星等领域。我们公司产品性能优越，经久耐用，即使在最恶劣的条件下使用（如盐水、海底、高湿度、零下温度、炎热和干燥多尘的气候），也总能一如既往，表现优良。

我们公司生产的摩擦材料种类多、范围广，包括有机物和半金属两种工艺制成的压制成型、纺织预成型以及滚压成型材料，每一种产品的摩擦性能和机械特性各

有不同，可根据不同需求制作成品的加工零件、成型零件、粘合组件或局部加工的板材和轧辊。

Trimat公司所有产品都是在Trimat英国现代化环保型工厂生产的。我们始终秉持质量第一、清洁生产、组织良好的理念进行工作，同时还可根据客户需求灵活布置产能，实施弹性生产，以满足客户所有订单规模。公司已通过ISO9001:2015质量管理体系认证，所有生产环节均接受严格的质量把控。

Trimat注重研发创新，拥有刹车及离合器应用领域的专业开发团队，可针对客户需求进行个性化定制。公司开发团队拥有最新原材料技术，包括凯夫拉纤维、氧化聚丙烯腈纤维、共聚酯、陶瓷和芳纶等新型材料。





Victrex Plc

 victrex.com/zh-hans

Victrex PLC is a world leader in PEEK polymer solutions – one of the highest performing thermoplastic polymers in the world. Every day, millions of people rely on products which contain our PEEK polymers from smartphones, aeroplanes and cars to oil & gas operations and medical devices – why? The use of Victrex PEEK allows engineers to achieve enhanced system performance, enables radical system design improvements and reduce part and operating costs, and in the case of medical applications improved clinical and patient outcomes. In the Auto industry, with more than 40 years of experience, Victrex helps design engineers to replace metal parts in transmission systems, powertrain, braking systems and steering system. Victrex PEEK enables Automotive Tier 1s and OEMs to reduce carbon dioxide emissions and overall system costs by minimizing wear and friction losses, reducing NVH and weight, simplifying system design and improving system efficiency. With an ability to operate at temperatures up to 260 degrees C Victrex PEEK offers an exceptional combination of properties including high purity, excellent strength and stiffness, durability, chemical and wear resistance, and heat and electrical insulative properties – all the benefits of a polymer but at temperatures that are beyond the capability of most plastics – and as a thermoplastic is easy to process. With headquarters in the UK, Victrex set-up its Asia Innovation & Technology centre in Shanghai in 2006, and throughout the years has made continued investment and expansion in China – most recently in 2021. This signalled Victrex commitment to customers in China and Asia through support in accelerating customer innovations through prototyping and testing and evaluation.

威格斯是PEEK聚合物解决方案的全球领导者，PEEK聚合物是世界上性能最好的热塑性聚合物之一。每天有数百万人依赖于含有威格斯聚合物的产品，从智能手机、飞机和汽车，到石油和天然气作业以及医疗器械—为什么？使用威格斯PEEK令工程师能够改进系统设计，降低部件和操作成本，在医疗领域改善临床效果。在汽车行业，凭借超过40年的经验，威格斯帮助汽车设计工程师替代传动系统、动力系统、制动系统和转向系统中的金属部件，减少摩擦损失、降低NVH和重量、帮助OEM厂商降低二氧化碳排放和系统总成本。由于能在260°C的高温下操作，威格斯PEEK提供了特殊的性能组合，包括高纯度、优异的强度和刚度、耐久性、化学和耐磨性，电绝缘性等--集合了所有聚合物的优点，耐高温程度超出大多数塑料的能力，且兼具热塑性塑料的易加工性。威格斯与2021年在中国进行了大规模投资和扩建。这标志着威格斯对中国和亚洲客户的承诺，通过原型设计、测试和评估，支持客户加速创新。

威格斯
以差异化追求卓越:

聚合物, 产品形态及部件
基于聚芳醚酮PAEK的创新

VICOTE™ COATING 涂料

VICTREX PIPES™ 管材

APTIV™ FILMS 薄膜

ZYEX™ FIBRES

COMPOSITE UD TAPES 复合材料单向带 (UDT)

VICTREX™ PEEK POLYMERS 聚合物

TRAUMA FRACTURE FIXATION 创伤接骨板

JUVORA™ DENTAL DISC 义齿盘

ADDITIVE MANUFACTURING 增材制造

FEMORAL KNEE COMPONENT 股膝盖组件

AUTOMOTIVE GEARS 汽车齿轮解决方案

COMPOSITE PIPES FOR SUBSEA OIL & GAS 海底油气复合管道

AERO STRUCTURAL BRACKETS 航空结构支架

我们的服务
您的一站式解决方案提供商

OUR SERVICES
YOUR ONE STOP SOLUTIONS PROVIDER

为客户提供增值服务
Provide value-added services to customers

测试与失效分析
Testing & Failure Analysis

模流分析
Flow Simulation

模压成型
Compression Moulding

成型实验
Moulding Trial

CNC 数控加工
CNC Prototyping

增材制造
Additive Manufacturing

薄膜热成型
Film Thermoforming

热性测试
Thermal Test

材料选择
Material Selection

数据生成
Data Generation

技术培训
Technical Training

机械性能测试
Mechanical Test

材料选型

应用加工设计

原型件验证

模具设计

模流分析和模拟

试模

部件测试

量产(SOP)

CUMMG

 coventry.ac.uk

CUMMG is established in 2006 by Professor Toman and continued to grow. The team is built up of multi-culture and discipline academics and engineering professionals.

Committed to: Teaching, training and CPDs, offers degree from FD to PhD and Eng.D; Public funded research, covering full range MRL/TRL; Private funded consultancy for OEMs and SMEs, which can be upgraded to KTP/Research projects.

The enablers of the above-mentioned activities include but not limited to: Competences of the team and more – Individuals have either substantial industrial experience and/or creditable academic track records, plus practical skills, and know-hows. Supported by CU-IFTC, with expanded expertise from over

300 members; Partners – Worked with over hundreds of industrial business, furthermore, actively contributes to MCDDM, UKJS 2020 and various international metrology committees and conferences; Facilities – A wide range of advanced instruments hosted in laboratories complying with ISO / UKAS standards, managed by accredited personnel.

Areas of practices / expertise GD&T, Coordinate Measurement, MSA, Measurement Uncertainty, Sensor and System integration, I4 solutions, Digital manufacturing, Manufacturing and Measurement Standards

考文垂大学制造计量教研组于2006年成立，在Toman教授的领导下持续发展壮大。教研组由来自世界各地，不同文化及不同专业背景的学术及工程人才组成。

主要业务包括：提供教育教学，培训及持续专业发展课程，提供基础学位，博士及工程博士等高级学位的培养；进行公共基金资助的科研活动。教研组参与的大部分项目均具有高技术及制造成熟度，但是其本身也具有能力进行低技术及制造成熟度的科研活动；进行面向中小型企业及原始设备制造企业的咨询项目，而且可以升级为知识转移伙伴关系/研究项目。

促成如上所述成就的重要因素包括但不限于：团队成员的能力及其他支持-教研组的成员或具备坚实的工业制造经验，或（同时）具备公众认可的学术水平，并且积累了扎实的实践技能和技术诀窍。教研组所在的

考文垂大学未来交通与城市学术群，共计300多位不同工程领域的专家学者，亦能够为全面解决问题提供坚实的支持。合作伙伴-教研组和数以百计的不同工业企业有良好的合作关系。我们同时亦是英国中部地区数据驱动计量中心，江苏-英国高水平大学20+20联盟暨产学研合作论坛的成员。也积极参与计量学委员会及国际学术会议等活动。基础设施-教研组拥有大量先进计量设备，大部分固定设备均位于依从国际/英国皇家认可委员会标准设立的计量实验室中，并由具有资质及丰富经验的专人管理。

专业领域：几何尺寸及公差，坐标测量，测量系统分析，测量不确定度，传感器及系统集成，工业4.0方案，数字化生产，工业制造及测量标准。

Eminox Ltd

 eminox.com

Established in 1978, Eminox is an innovative designer and manufacturer of market-leading emissions reduction solutions. Our UK headquarters are in Lincolnshire, however, we have a global presence. As pioneers of Diesel Particulate Filters (DPFs) and Selective Catalytic Reduction (SCR) technologies, we continue to initiate change and are a reliable partner in assisting governments and industry sectors to achieve the highest levels of emissions compliance.

We supply products and services to on-road, rail, non-road mobile machinery (NRMM), power generation and marine industries.

Eminox exhaust aftertreatment solutions (EATS) are a key factor in the drive to a net zero emissions future. Designed to elevate the emissions performance of diesel and natural gas engines across a variety of industry sectors, the Eminox system is developed to be compact and meet the necessary emissions performance.

This is achieved through the application of advanced mixing techniques to optimise the consumption of urea, also known as DEF (diesel exhaust fluid), as well as minimising the overall catalyst volume through high performance SCR technology development. Additionally, the exhaust flow distribution is optimised under all operating conditions, and a unique Eminox DPF unit design improves efficiency.

The Eminox EATS portfolio offers modular solutions. Every element of the system is developed using a standard range of components to suit the overall EATS size.

Eminox can also provide all service requirements and replacement parts based on the operating hours of each application, with all serviceable components available to maintain the system.

Our Vision: Pioneering a zero emissions future.

Our Mission: Through our empowered workforce and robust engineered solutions we deliver technologies for a greener planet, together.

爱民诺公司成立于1978年，既有创新设计能力又有引领减排市场技术的生产能力。我们英国总部位于英格兰林肯郡，分公司遍布全球。作为DPF(颗粒物捕捉器)，SCR(选择性催化还原)技术的引领者，我们持续创新，不间断改进，可以帮助您达到政府要求的最高排放法规，是您值得信赖的合作伙伴！

我们提供产品和服务涵盖的领域有：道路，轨道火车，非道路移动设备（NRMM），发电机组和船舶领域。

爱民诺排放后处理方案（EATS）可以帮助实现未来的零排放的要求，我们独特的设计可以提高不同应用领域的柴油机和燃气机排放性能和效率。爱民诺的后处理系统结构更紧凑，满足必须的排放性能。

我们通过升级的混合技术实现这点，优化尿素的消耗，也叫做DEF(柴油机尾气处理液)，同时通过SCR技术使总体催化剂用量最小化；另外，排放气流的分布也在各个运行工况下得到了最优化，这就是独一无二的爱民诺DPF产品，大大提高了效率。

爱民诺的后处理排放系统系列产品提供了模块化的解决方案，系统里每个控制单元都是考虑到每个后处理排放系统的整体大小要求做了特定的设计，使用在范围内的合适零部件。

根据每个车型的应用情况，爱民诺也为保持后处理系统稳定运行提供所有的后续服务，包括替换零部件。

我们的愿景：作实现零排放的先驱者我们的使命：通过我们和周全的服务和的稳健的工程方案，我们一起为实现绿色星球而努力





i3D Robotics

 i3drobotics.com

i3D Robotics: Shaping our legacy through intelligent vision.

i3D Robotics specialises in high-resolution digital imaging which supports sustainable technologies and creates manufacturing resilience. i3D Robotics provides 3D stereo vision systems, software, 3D mapping and integrated robotic solutions enabling inspection measurements in challenging hazardous and harsh environments. Working across the high-value manufacturing, nuclear decommissioning, and additive manufacturing sectors, i3D Robotics also supports the digital transformation of traditional manufacturing in the metals, glass, and ceramics sectors in line with the Industry 4.0 agenda.

i3D Robotics core commercially available products aid manufacturing by driving productivity growth and reducing waste through the application of intelligent vision systems and sensor networks, supporting sustainable technologies for a zero-carbon future. Our latest range of products utilises sensory fusion by combining high resolution 3D imaging with advanced spectrometers and multi-axis robotic platforms which have been successfully deployed in materials inspection for energy production & large-scale decommissioning sectors.

i3D Robotics: 通过智能视觉塑造我们的传统产业。

i3D Robotics专注于高分辨率数字成像，支持可持续发展的技术，并创造生产弹性。i3D Robotics提供3D立体视觉系统、软件、3D制图和综合机器人解决方案，使得在具有挑战性的危险、恶劣环境中进行检测测量成为现实。i3D Robotics公司在高价值制造、核退役和增材制造领域开展工作，还根据工业4.0议程，支持金属、玻璃和陶瓷领域传统制造业的数字化转型。

i3D Robotics的核心商用产品通过应用智能视觉系统和传感器网络，推动生产力增长和减少浪费，为零碳未来的可持续发展技术提供支持，从而助力制造业。我们最新的产品系列利用感官融合，将高分辨率3D成像与先进的光谱仪和多轴机器人平台相结合，已成功部署在能源生产和大规模退役领域的材料检测中。





 theiet.org

As a professional engineering institution, we're working to engineer a better world, inspiring, informing and influencing the global engineering community and supporting technology innovation to meet the needs of society.

With 150 years of history, we now have 155,000 engineer and technician members in over 148 countries, with offices in Hertfordshire, London, Bangalore, Beijing, Hong Kong and New Jersey.

Reflecting the increasingly multidisciplinary nature of modern-day engineering, our work celebrates and supports engineering and innovation across key areas, from design and manufacturing, energy, healthcare, and digitalisation to transport and the built environment.

The IET in China

The IET offers Chinese engineers, technicians and students the opportunity to enhance and share their knowledge on an international platform with:

- access to technical information in the fields of science, engineering and technology
- opportunities to attend international events and lectures
- paper publishing workshops and opportunities to publish research internationally
- competitions and awards
- academic accreditation to assist universities to deliver degrees with an international standard acceptable to the industry
- professional qualifications to meet globally recognised professional standards.

Professional Registration – Becoming a Chartered Engineer (CEng) or Incorporated Engineers (IEng)

Professional Registration is an internationally recognised standard awarded to engineers to become Chartered Engineers and Incorporated Engineers.

It is based on knowledge, competence and commitment to professionalism. It demonstrates that registrants have reached an internationally recognised standard of competence.

- More importantly, it helps engineers to improve career opportunities and have greater influence in their organisations and industry.

IET致力于用专业工程技术创造一个更美好的世界。我们鼓励、影响全球工程界人士，为他们提供专业知识，促进技术创新，满足社会需求。

经过150年的发展，IET现有15.5万名工程技术会员，遍及超过148个国家，并分别在英国赫特福德郡、伦敦、北京、香港和美国新泽西州设立办事处。

当今工程技术逐渐朝跨学科方向发展，IET鼓励并支持各个重要领域的工程项目和技术创新，包括设计和制造、能源、医疗健康、数字化、交通和建筑环境。

IET在中国

IET为中国工程师、技术人员和学生提供了国际平台，加强知识的分享，包括：

- 获取科学、工程和技术领域的技术信息；
- 有机会参加国际性会议活动和各种讲座；
- 论文出版研讨会，并有机会在国际上发表研究成果；
- 各种赛事活动及奖项评选；
- 课程认证以协助高校提供业界可接受的国际标准学位；
- 工程师职业注册，以符合全球认可的工程师专业标准。

国际注册工程师 (Professional Registration) ,成为特许工程师 (Chartered Engineer, CEng) 或主任工程师 (Incorporated Engineer, IEng) 。

国际注册工程师是一项国际认证标准，考核工程师的专业知识、能力和对专业性的追求，并授予特许工程师或主任工程师资格。

取得该项资格即表明注册者已达到国际认可的能力标准。更重要的是，它可以帮助工程师获得更好的工作机会，在其工作单位和行业发挥更大的作用。



LAT Water Ltd

🌐 latwater.cn

LAT Water was founded with a mission to facilitate the recycling of two of the world's most critical needs, clean water and energy. We are a British wastewater treatment company who have developed unique solutions that operate using waste heat as a free energy source.

Wastewater treatment can be an incredibly energy intensive process, and often requires multiple processes combined to achieve desired results. This leads to large energy consumption and rising costs.

LAT Water have developed a unique approach to wastewater evaporation. By condensing and recirculating water vapour through our system below the boiling point of water, we are able to recover higher percentage of clean water from complex wastewater streams at considerably reduced costs.

We provide turnkey water treatment solutions with ongoing

support for a reliable, long term, cost effective solution.

LAT Water solutions deliver:

- Low Costs
- Sustainable solutions
- High % clean water recovery
- A reliable solution with low maintenance
- Energy efficient solution
- Recover value from waste

LAT Water成立的使命是促进世上最关键的两个需求——清洁水和能源的循环利用。我们是一家英国公司，开发了独特的废水处理解决方案，可将废热作为免费能源使用。

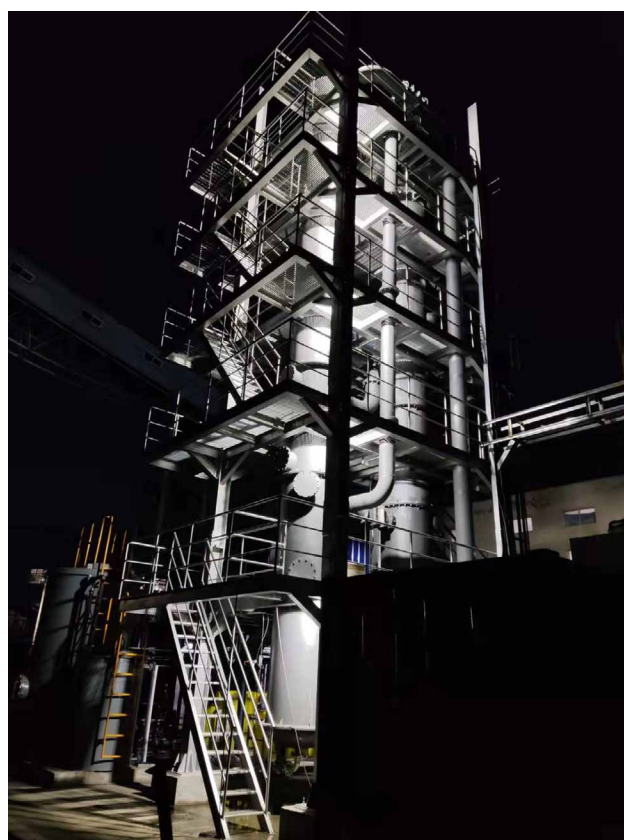
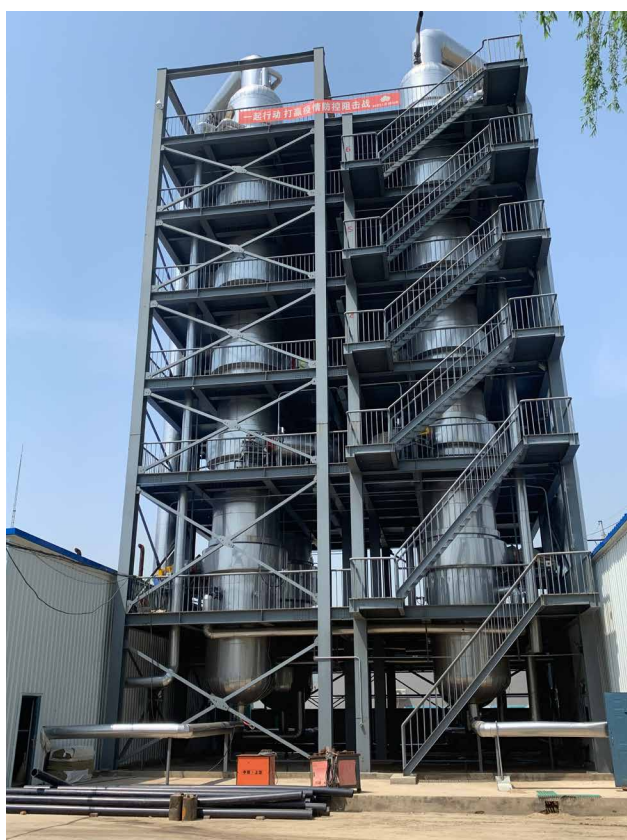
废水处理是一个能耗极高的过程，通常需要将多个过程结合起来才能达到预期的效果。这将导致大量能源消耗和成本上升。

LAT Water开发了一种独特的废水处理方法，即在沸点以下通过我们的系统冷凝和再循环水蒸气，使得我们能够以相当低的成本从成分复杂的废水中回收很高比例的清洁水。

我们可提供交钥匙水处理解决方案，并为可靠、长期、经济高效的解决方案提供持续的支持。

LAT Water解决方案提供：

- 低成本
- 可持续解决方案
- 清洁水回收率高
- 低维护成本的可靠解决方案
- 节能解决方案
- 从废水中回收高价值成分



National Physical Laboratory (NPL)



 npl.co.uk

For over a century National Physical Laboratory (NPL), the UK's National Metrology Institute, has developed and maintained the nation's primary measurement standards. These standards underpin the UK's National Measurement System (NMS) infrastructure and ensure accuracy, traceability, consistency and confidence in measurement.

NPL delivers cutting-edge measurement science and engineering and world-leading measurement solutions that are critical to commercial research and development, supporting business success across the UK and the globe. From new antibiotics to tackle resistance and more effective cancer treatments, to secure quantum communications and superfast 5G, technological advances must be built on a foundation of reliable measurement to succeed. Our science, engineering and technology provides this foundation. We save lives, protect the environment and enable citizens to feel safe and secure, as well as support international trade and commercial innovation. Our advice is impartial and independent, meaning consumers, investors, policymakers and entrepreneurs can rely on the work we do.

英国国家物理实验室 (NPL) 是英国国家测量基准研究中心，拥有上百年历史，制定并维护英国的主要测量标准。这些标准是英国国家测量系统 (NMS) 基础设施的精准度标杆，确保了测量的精度、可追溯性、一致性和可靠性。

英国国家物理实验室提供先进的测量科学、工程解决方案以及世界领先的测量解决方案，对商业研发起着至关重要的作用，助力相关产业在英国及全球蓬勃发展。从新型抗生素到应对耐药性和更有效的癌症治疗方法，再到保障量子通信和超高速5G应用，技术进步必须建立在可靠的测量基础上，方能取得成功。我们的科学、工程和技术提供了这一基础。我们拯救生命、保护环境、让群众获得安全感，同时也支持国际贸易和商业创新。我们提出公正、独立的意见，消费者、投资者、政策定者、企业家均可交付一份信任。



Sensor Coating Systems Ltd (SCS)



 sensorcoatings.com

High-Definition Thermal Mapping Service

Achieving Net Zero! To design the engines of the future, it is crucial to know what is happening in the very heart of the engine and understand the thermal properties of next-generation engines. SCS delivers a unique and robust high-temperature measurement service. It generates digital temperature maps on customers' CAD drawings.

SCS have developed a more efficient and cost-effective temperature sensing technology to replace & compliment current thermometry methods. The novel technology can be beneficial in all industrial sectors where temperature information is essential. The patented technology covers a temperature range of 150- 1600+ °C to a precision of $\pm 5-10^{\circ}\text{C}$

The award-winning technology enables accurate temperature detection, which assists in improving and optimizing the operation of machinery, lowering fuel costs, maintaining the integrity, and reducing carbon emissions. It is based on memory materials for engineering applications in demanding or inaccessible environments, allowing measurement of parts such as turbine blades, nozzle guide vanes, combustion chamber, pistons, turbochargers, among others.

SCS has a global customer base with main customers in the US, Europe, and South-East Asia.

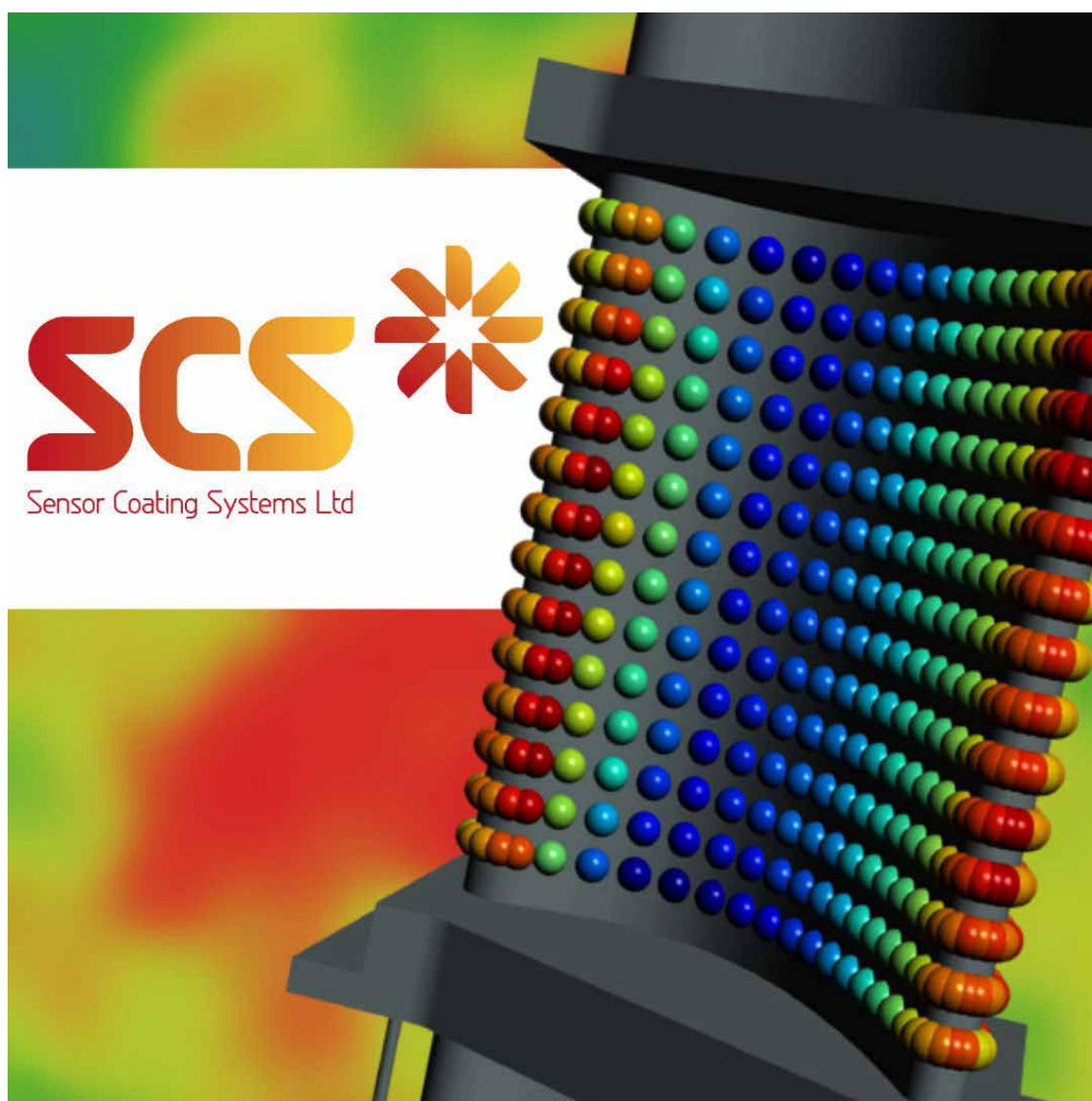
高清热成像服务

实现净零排放! 为设计符合未来需求的发动机, 必须首先了解发动机的核心和新一代发动机的热性能。SCS 提供独特而稳健的高温测量服务——它可以在客户提供的CAD图纸上生成数字温度图。

SCS研发出了一种更有效率、更具成本效益的温度传感技术, 可作为当前使用的测温方法的替代和补充。新技术可惠及所有需要掌握温度信息的工业部门。这项技术已获得专利, 可测量温度范围为 150°C - 1600°C , 精度达 $\pm 5^{\circ}\text{C}$ - 10°C 。

它实现了精确的温度检测, 有助于改善、优化机械运转, 降低燃料成本, 保持完整性并减少碳排放, 获得了多个奖项。该技术使用的记忆材料可应用于在条件苛刻, 或难以进入的环境中开展的工程项目。它可用于测量涡轮叶片、喷嘴导叶、燃烧室、活塞、涡轮增压器等零件的温度。

SCS拥有覆盖全球的客户群, 主要客户分布在美国、欧洲和东南亚。



Shield Works

 shieldworksmfg.com

Shield Works is a British owned and managed precision assembly and IPR protective, manufacturing and warehouse facility based in the heart of Zhuhai city an integral part of the rapidly developing South China Greater Bay Area.

OUR VISION

Shield Works provides customized OEM manufacturing, assembly, and warehousing solutions to our international client base within individual IPR protective production zones housed inside the Shield Works facility.

Guided by 17 years of China based manufacturing experience our aim is the provision of risk-free manufacturing solutions to internationally recognized quality standards.

We will always strive to deliver product on-time with rapid, open, and honest communications throughout production from our highly skilled manufacturing management team.

At Shield Works we operate with open, transparent, and flexible working practices providing clients with all the usual advantages of China supply with the added reassurance and security of a highly controlled customized tier-one production environment.

We aim to offer our clients unprecedented access and clarity on their daily production activities helping to remove both the risk and uncertainty from their China based supply chain.

BESPOKE SOLUTIONS

Your customized operation, our infrastructure.

Our team is very adept, and we are always open to new ideas, procedures, training, equipment, and even specialized custom manufacturing processes.

If you have a specialised manufacturing process or IP critical component, you would like to keep 100% under your control then please talk to Shield Works today. New manufacturing processes and techniques will always be assessed and if viable can be quickly introduced at our facility.

At Shield Works we are always willing to enhance our assembly and manufacturing strategies and capabilities in our mission to bring your ideas to life.

SHIELD WORKS (珠海盛世熙德电子科技有限公司) 是一家英式管理的全英资企业。SW集高端精密组装, 制造, 产品分销, 出口和仓储服务于一体, 并致力于保护客户知识产权为目标。

始建于2005年的C2W集团, 一直以优质的产品供应和良好的国际信誉闻名。SW作为集团的一部分, 秉持并贯彻西方的服务, 沟通和质量标准。

定制解决方案

您的定制运营, 我们的架构体系。我们的团队非常熟练, 我们总是对新的想法、程序、培训、设备, 甚至是专门的定制制造工艺持开放态度。

如果您有专门的制造工艺或IP关键组件, 您希望100%处于您的控制之下, 那么请立即与Shield Works交谈。我们将始终评估新的制造工艺和技术, 如果可行, 可以在我们的工厂快速引入。

在Shield Works, 我们始终愿意提高我们的装配和制造策略和能力, 以实现您的想法。

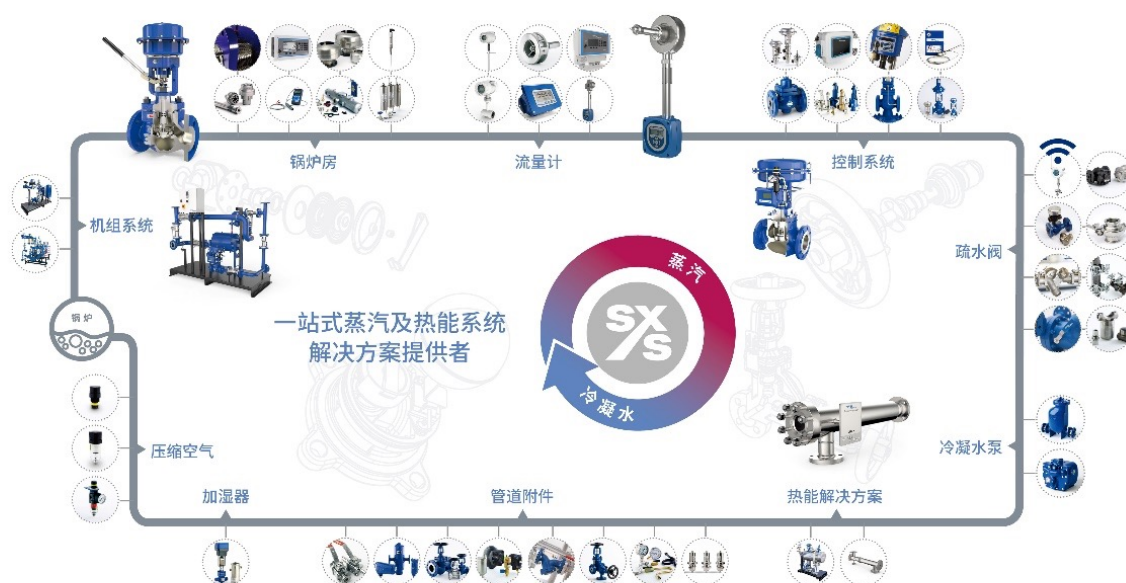


SpiraxSarco Engineering (China) Co., Ltd.

 spiraxsarco.com/cn

SpiraxSarco provides professional knowledge and solution for steam and thermal users all over the world. It helps you to improve equipment performance and system efficiency observably, and save energy to achieve sustainability target. SpiraxSarco Engineering (China) Co., Ltd. was established in 1995 in Shanghai. During the past 27 years, we focus on promote effective application and control of steam, hot water, compressed air and other industrial fluid in China. We have 41 sales and service offices national wide. Chinese customers build or update their steam systems with SpiraxSarco techniques and products, which improve system efficiency and save energy. SpiraxSarco is recognized as steam experts for steam and thermal system solution.

斯派莎克在全球范围内使用专业知识和技术为广大蒸汽及热能用户提供解决方案,从而显著提高其设备性能和系统效率,节约能源,满足您的可持续发展目标。斯派莎克工程(中国)有限公司成立于1995年,总部设在上海。二十七年来我们一直致力于在中国推广有效的应用和控制蒸汽、热水、压缩空气等多种工业流体,销售和服务网络遍布全中国。中国客户通过应用斯派莎克的技术和产品,对蒸汽与热能系统进行改造,有效提高系统效率并节约能源,成为广大蒸汽与热能使用者的理想合作伙伴。





Sunamp Ltd

 sunamp.com/en-gb

Founded in 2005, Sunamp set out to explore the potential of using thermal energy storage to make buildings more energy efficient, sustainable and self-sufficient, whilst reducing carbon emissions by optimising renewable energy sources on-site. With over 10 years of technical collaboration with the University of Edinburgh and global business expansion, Sunamp's products have been serving over 20,000 homes worldwide, with subsidiaries and licensed factories in Switzerland, Belgium, the US, Chile, South Korea and China. Sunamp's technology is designed to ensure a long-term positive impact on the environment to stop climate change.

Sunamp's unique technology is being extended across sectors: from serving the residential sector with energy-saving thermal stores that efficiently store heat for hot water and space heating on demand, and up the size scale to containerised multi-megawatt industrial heat/cool applications; and into the transportation sector via Sunamp Automotive. We see exciting developments from improving air quality in cities by using thermal batteries to improve engine efficiency and reduce emissions on buses, to ensuring that electric cars can achieve the same range, by delivering all required heating and cooling from thermal storage.

Sunamp's thermal batteries can be charged with large amounts of energy from renewable and other sources, and released to deliver hot water, cooling and space heating on demand across a wide range of temperatures, and for a wide range of residential and industrial applications. Up to 4x more compact than traditional hot water cylinders and with far lower heat losses, they are easy to install and compatible with a wide choice of energy sources including heat pumps, solar PV and boilers. provide a low carbon, reliable, space-saving alternative to traditional hot water cylinders, safely cutting energy consumption and fuel costs. Sunamp has recently launched the fourth generation Thermino range for domestic hot water systems.

Sunamp成立于2005年，旨在探索热能储存在建筑领域的应用潜力，打造节能环保、可持续性和自给自足型房屋，同时通过优化现场可再生能源，减少二氧化碳排放。Sunamp与爱丁堡大学在技术领域合作超过10年，业务版图遍及全球，已有超过2万户来自世界各地的家庭选择Sunamp旗下产品。Sunamp在多个国家设有子公司和授权工厂，包括瑞士、比利时、美国、智利、韩国和中国。Sunamp技术体系旨在实现对环境长期积极影响，从而阻止气候变化。

Sunamp正在跨行业推广其特有技术：帮助房地产行业建立热能储存系统，供凉水加热和空间供暖之用，打造节能房产。此外，Sunamp还将其业务拓展至集装箱式多兆瓦工业供暖/制冷领域，并通过Sunamp Automotive汽车业务进军运输行业。在公司全体员工的努力下，Sunamp取得了令人振奋的成就：其热能电池可提高发动机效率，减少公共汽车尾气排放，从而改善城市空气质量；其热能存储技术可满足电动汽车所有的供暖和制冷需要，从而确保电动汽车续航里程与燃油汽车齐平。

Sunamp热能电池可从可再生能源和其他能源中获取大量能量，可根据不同温度需求供凉水加热、降温制冷和空间供暖之用，在各种住宅和工业场景中均有应用。这些热能电池比传统热水缸紧凑4倍，使得热损耗大幅降低；它们易于安装，能与包括热泵、太阳能光伏和锅炉在内的多种能源装置兼容；它们低碳、可靠、节省空间，是传统热水缸的理想替代品，能在降低能源消耗和燃料成本的同时确保安全。近日，Sunamp还推出了第四代特尔米诺（Thermino）系列家用热水系统。



Tech Infinite

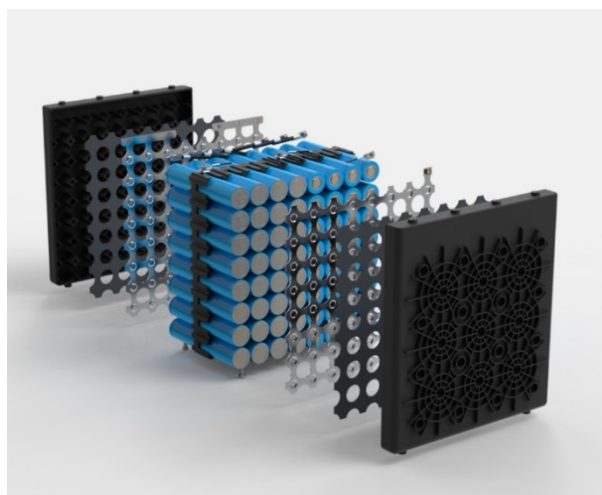
 techinfinite.co.uk

Tech Infinite's mission is to disrupt and provide solutions to the growing climate & renewable energy crisis. Utilising the skills experience and support of our Board (and their technical advancements and partnerships) we have worked to innovate and develop a solar system that redefines the way energy production is generated and stored. We have taken the best knowledge & understanding of current residential roof's & current solar panel capability and matched it with our unique battery storage system. We identified a large opportunity in this market across the world. Our innovative approach in this field has provided the opportunity to combine and integrate solar PV cells into roof tiles and then store that energy in a way that can benefit everyone. Our products provide an easy retrofit and installation so that roll out of the PV technology (and the benefits it provides to us all) are at an affordable cost to make a difference to Co2 emissions and help us reach our combined climate goals for 2050. We provide industry leading solar technology, high powered battery storage, innovative green energy solutions for hot water and heating, a solar stand-alone electric vehicle charging system and much more net zero solutions in development.

Our mission with this integrated technological approach, along with our partnerships with blue chip organisations and our foreground IP, we can capture the residential solar market and become the leader for the next 25 years leading the way in carbon reduction and reliance on fossil fuels as the current gas crisis is proving. There are current competitors such as Tesla & GB Sol in the UK but both offerings fail for their own varied reason's this has given a challenge and opportunity for us to seize these customers where others have failed.

Tech Infinite 致力于阻止气候加速变化和 可再生能源危机，并为其提供解决方案。通过利 用董事会的专业经验和支持（以及他们的先进技 术和伙伴关系），我们创新并研发了一个新型太 阳能系统，重新定义能 源生产及储存方式。Tech Infinite 对当前住宅屋顶 和太阳能电池板的性能 有着深刻的认知和理解，并应 用于我们独特的电 池储能系统中。我们看到了这一领 域在全球各地 市场的潜力。我们在这一领域的创新成 果可将太 阳能光伏电池组装并整合到屋顶板中，通过 新型 能源储存方式使所有人收益。我们的产品安装简 便，易于改造，在消费者可承受的成本范围内实 现光 伏技术（及其生活应用）的推广，从而降低 二氧化碳排 放，并帮助实现 2050 年气候目标。 我们提供行业领 先的太阳能技术、高功率电池储 能、热水及供暖的创 新绿色能源解决方案、电动 汽车独立式太阳能充电系 统以及更多正在开发的 净零排放解决方案。

有了这一整合技术的加持，再加上我们与蓝 筹机构的 积极合作以及前沿技术的知识产权，我 们可以获取住 宅太阳能市场，并在未来 25 年内 成为减碳和降低对 化石燃料依赖的领导者，当下 的天然 气危机便是人类 对传统能源依赖的最好例 证。目前在英国市场还有特 斯拉和 GB-Sol 作为 竞争者，但因自身的不同原因，他 们提出的方案 无法解决所有问题，这为我们争取他们 失去的部 分客户带来了挑战和机遇。



Tribosonics Ltd

 tribosonics.com

Tribosonics is an innovation led scale-up equipped with unique sensing technologies to address industrial energy inefficiencies in areas of tribological contact (wear, friction, and lubrication).

We are based in Sheffield, UK but have a global reach with customers in Europe, the Americas and Asia.

Tribosonics develops, designs, and manufactures end to end ultrasonic measurement products.

Our technology transforms components, machines or factory production lines into SMART systems generating data and driving digital transformation to prevent machine failure, increase uptime, reduce waste, generate productivity improvements and efficiency gains.

We operate in transport, power generation and manufacturing industries, working on projects in sectors such as automotive, renewable energy, nuclear power, and plastics recycling & polymer injection and extrusion.

Our measurement stack covers Fluid Properties (density, viscosity, aeration, contamination, oxidation), Solid Properties (stress, temperature, defects), Dimensions (wear, lubricant film thickness), Displacement (gap measurement, alignment, machine/component internal state) and Interface Conditions (contact pressure, corrosion).

Tribosonics是一家以创新为主导的规模化企业，拥有独特的传感技术，以解决摩擦接触（磨损、摩擦和润滑）领域的工业能源效率低下问题。

我们的总部设在英国谢菲尔德，但客户遍及欧洲、美洲和亚洲。

Tribosonics开发、设计和制造端对端的超声波测量产品。

我们的技术将部件、机器或工厂生产线转化整合入 SMART（智慧）系统，生成数据并推动数字化转型，以防止机器故障，增加正常运行时间，减少浪费，提高生产力和效率。

我们的业务涉及运输、发电和制造行业，在汽车、可再生能源、核电、塑料回收和聚合物注塑和挤出等领域开展项目。

我们的一系列测量业务涵盖了流体特性（密度、粘度、曝气、污染、氧化）、固体特性（应力、温度、缺陷）、尺寸（磨损、润滑油膜厚度）、位移（间隙测量、对中、机器/部件内部状态）和界面条件（接触压力、腐蚀）。





TWI Ltd

 twi-global.com/locations/china

Descended from the British Welding Research Association (BWRA), TWI has grown into one of the foremost independent research and technology organisations. TWI spans innovation, knowledge transfer and problem resolution across all aspects of welding, joining, surface engineering, inspection and whole- life integrity management.

TWI is a membership-based organisation, supporting both individuals and companies alike. It exists to provide authoritative and impartial expert advice, knowhow and safety assurance through engineering, materials and joining technologies – helping clients design, create and operate the best products possible.

TWI's single client projects bring together experts from TWI and the Member to provide solutions directly focused on assisting the Member's business. The work undertaken is confidential with the outcomes and associated intellectual property owned exclusively by the client.

TWI是国际上著名的独立技术研究机构之一，公司建于1946年，位于英国剑桥南部。TWI主要帮助工业企业或研究单位解决材料连接领域中的难题以及相关技术问题。TWI对会员单位的服务主要通过提供最新技术信息，技术咨询，现有技术转让和项目支持；项目研发；人员培训和资格认证和个人会员服务等方式来进行。

目前TWI有近900名专业人员，致力于帮助企业或者政府机构进行保密性的技术开发，解决关于材料连接方面的各种问题。有来自于全球70多个国家不同行业的4500多个公司或者组织已和TWI有长期合作关系。

TWI的技术服务范围相当广泛，包括材料性能和应用（有色金属和钢、塑料、陶瓷、复合材料、结构完整性评估、断裂、产品设计和无损检测），材料连接技术，加工和装配技术（焊接和切割、表面工程、钎焊、粘接）和制造（工程系统管理、决策策略、产体系、安全保障、质量保证）。TWI先后直接参与100多个国际或欧美的相关行业标准起草工作，囊括了焊接工程学、焊接设备、结构完整性评估、腐蚀、材料选择和塑料材料连接等领域。



Wikifactory

 wikifactory.com

Wikifactory is the place where great ideas become even better products. You can design, iterate, prototype and manufacture all in one place. We've embedded an agile Collaborative Manufacturing Workspace in a different kind of hardware product development platform. One dedicated to productivity, with a Manufacturing Marketplace to get in touch with the right manufacturer, with the right capabilities, in the right location.

We have over 131K members from 190 countries, and we're growing fast. Our community of product designers, engineers and manufacturers comes together to design, prototype and manufacture hardware products in more agile ways. At Wikifactory we make the tools to do this, and we make them available to everyone.

Our cloud-based, product development workspace enables collaboration with control in a single agile environment. Available to anyone, accessible anywhere.

Join our Collaborative Manufacturing Platform, and the world's largest product design team with over 131K members, to manufacture your products,

explore new ideas, find or share expertise and showcase your innovation with the world.

Our vision is to create an Internet of Production – bringing networked capability to digital product development and fabrication.

Just like the internet allows everyone to participate in the production and dissemination of ideas, a distributed infrastructure for physical products would mean anyone could participate in the design and production of physical things. Disrupting not just one industry, but industry itself.

By removing the barriers to participation, innovation and opportunity in product design and manufacturing, we want to help great ideas have a better chance and a bigger positive impact on our world. Almost half of the projects on Wikifactory are aligned with the UN's Sustainable Development Goals. And we're proud to say that this is the fastest growing project cluster on the platform.

维基新工厂（维基），一家将伟大想法孵化成高质量产品的企业。是助您实现产品的设计、迭代、样品制作和生产的“一站式”平台。维基在全新的硬件产品开发平台中嵌入了灵活的协同制造工作空间，维基新工厂致力于提升生产力，通过搭建“制造市场”，为您对接具备相应能力、位于合适地点的心仪制造商。

目前，维基已有来自190个国家的131,000余名会员，且规模还在不断壮大。维基将产品设计师、工程师和制造商汇集在一起，以更灵活的方式完成硬件产品的设计、样品制作和生产。为此，维基新工厂研发了相关工具，以供任何有需要的人群使用。

维基的云上产品开发工作空间支持在单一灵活环境中进行可控性协作，且对所有有需要的人开放，不限空间。

维基诚邀您加入我们的协同制造平台——超131,000名会员造就了全球最大的产品设计团队。在这里，您可以

制造产品，探索新的想法，发现或分享专业知识，向世界展示您的创新成果。

维基的愿景是创建一个生产互联网，为数字化产品开发和制造赋予网络化能力。

正如互联网的存在可以允许每个人参与到创意的构想和传播中来，针对实体产品的分布式架构也意味着任何人都可以参与到实体产品的设计和生产环节中去。这不仅是对某一个产业的颠覆，更是对整个行业本身的颠覆。

我们希望通过消除横亘在产品设计及制造领域的障碍，让更多的人能参与进来、获取机会、实现创新，为伟大的创意提供孵化的机会，为我们的世界带来更积极的影响。维基新工厂将近一半的项目都遵循联合国可持续发展目标。可以自豪地说，这是维基平台上增长最快的项目集群。

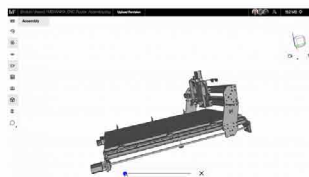
Wikifactory is the fastest place to go from design to production.

Discover all our products.



Cloud PDM.

Bring your team to collaborate online and document your hardware product in an all-in-one workspace. [Learn more.](#)



CAD Rooms.

Now you can securely view, share, and collaborate on your CAD files with your team. Anywhere. [Learn more.](#)



Marketplace.

Online quotes in 24 hours for your 3D printing, CNC machining, sheet metal, or injection molding parts. [Learn more.](#)



Adelan Limited

 www.adelan.co.uk

Adelan是一家总部位于英国伯明翰的公司。25年来，他们一直是氢能先驱，拥有35年的经验，专注于氢能和燃料电池等绿色技术。我们热衷于尝试解决气候变化问题。

我们提供各种产品和服务，其中包括：

- 氢和燃料电池工具箱（咨询服务）、专家建议
- 燃料电池——一种氢动力燃料电池，只要有燃料和氧气供应，就可以持续发电。
- 铝制移动盒子：结合电池和燃料电池的便携式发电机，用于输送交流电
- 丰田Mirai租赁服务——零废气的氢能汽车，可供租赁



奥雅纳在整个氢能产业链中提供广泛的支持。我们的客户覆盖公共和私营机构，包括天然气网络运营商、可再生能源发电商，政府部门、运输机构等。

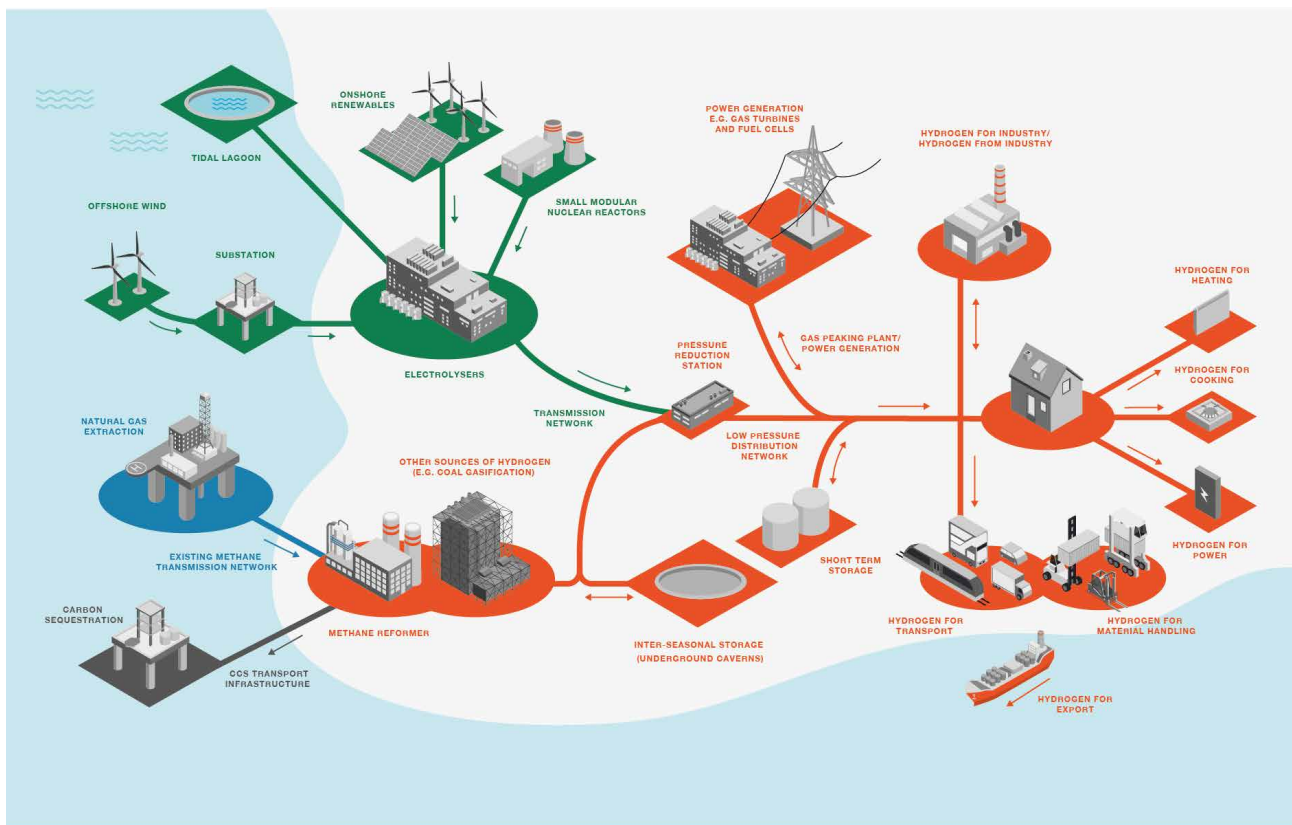
从战略到实施，奥雅纳可以全方位支持客户的氢能战略和项目交付。我们的服务包括：战略和政策建议、财务与商业论证、氢能系统建模、可行性研究、技术评估、项目实施、人因素和利益相关方参与、风险分析和安全部署等。

在英国，奥雅纳正在推动一个耗时三年的政府计划，评估氢能供热的可行性。我们还在参与一个示范项

目，利用现有的天然气网络增加绿氢供应，最终以100%的氢能为大规模住宅网络供热。

在交通领域，奥雅纳在堪培拉、奥克兰、迪拜、伦敦和谢菲尔德均有氢能公交车经验，并为澳大利亚珀斯市提供了市场化的加氢站发展建议。此外，我们还为英国制定了氢动力列车在铁路干线上投入使用的路线图。

奥雅纳还在支持一项详细可行性研究，在英国肯特郡的谷岛建立一个氢能中心，用以生产、进口、储存氢能并输送到伦敦和英格兰东南部地区。



Ceres

🌐 ceres.tech

Ceres是一家领先的清洁能源技术开发企业。基于伦敦帝国理工学院的研究，Ceres固体氧化物技术可为提供高效电解用于绿色制氢，为高排放行业助力脱碳。同样的技术也可以用于生产固态氧化物燃料电池，能够实现天然气、沼气及氢气等各种能源的高效利用。我们的固态氧化物电解池和燃料电池采用与太阳能相似的生产工艺，由广泛应用的性价比高的钢材和陶瓷制成，为我们全球合作伙伴的成功进行赋能，其中包括潍柴、博世、斗山、Delta、电装和壳牌。Ceres在伦敦证券交易所上市 (AIM: CWR.L)，在中国注册 Ceres Engineering Consulting (Shanghai) Co., Ltd. 或希锂斯工程咨询 (上海) 有限公司。



CMB.TECH

🌐 cmb.tech

CMB (Compagnie Maritime Belge) 是一家总部位于比利时安特卫普的多元化航运和物流集团。CMB 拥有并经营139艘干散货船 (Bocimar)、集装箱运输船 (Delphis)、化学品船 (Bochem) 和船员转运船 (Windcat)。CMB还活跃于清洁技术 (CMB.TECH) 和房地产 (MCA设施, 安特卫普海事园区)。CMB在东京、新加坡、香港、德国 (汉堡)、英国 (洛斯托夫特和布伦特伍德) 和荷兰 (阿姆斯特丹) 设有办事处。CMB 有一项大型投资计划, 重点关注为其船舶和发动机提供动力的低碳和零碳技术, 从而测试氢和绿色氨的使用。

CMB.TECH是氢解决方案的积极开发商和集成商, 专注于工程、氢生产、工业和海洋应用。

迄今为止的显著成就:

- 双燃料氢动力渡轮Hydroville
- 全球首艘氢动力渡轮Hydrobingo
- 加氢站
- 氢动力卡车
- 氢单燃料发电机组



Emerald Green Power Ltd (EGP)



 emerald-green-power.com

Emerald Green Power Ltd (EGP)是一家总部位于英国的公司，其总部位于英国西南部，在澳大利亚、美国、瑞士、新加坡和赞比亚设有子公司，是一家专注于利用可再生能源（使用1兆瓦至500兆瓦电解槽）制造氢能的项目公司。英国公司于最近成立，旨在利用英国和欧洲的氢能和可再生能源市场，以我们从事可再生能源和电力行业30年的经验，在此行业中提供专业项目建议和专业服务知识。我们目前拥有超过1亿英镑的销售额。Emerald Green Power Ltd正在寻求与专注于制造或供应电解器、氢能电池、氢能储存和项目开发的中国公司建立合资企业和合作伙伴关系，以加速我公司在英国的企业战略计划。

HORIBA MIRA

 horiba-mira.com

HORIBAMIRA是一家为交通行业提供先进的工程、研发和测试服务的全球供应商，在英国拥有整车测试和开发所需的全面的试验场和试验设施，结合在75年的行业经验，可以为传统车、新能源汽车和智能驾驶汽车提供从单个的产品测试到工程设计、开发和样车建造的交钥匙工程咨询服务。

我们为氢动力汽车提供的主要服务包括：燃料电池及电驱动零部件开发；系统与整车性能开发及优化；整车及燃料电池系统测试与验证等。凭借专业的性能开发优势，我们着力为客户打造差异化的产品，体现汽车产品的个性化DNA，同时，我们也始终走在技术的前沿，为客户攻克功能安全、网络安全相关的技术难题。

米拉中国是由HORIBAMIRA投资的外商独资公司，结合英国的专业经验、本地的工程团队和试验设施——包括其母公司HORIBA中国在上海市“嘉定氢能港”的新落成的试验设施，覆盖燃料电池、电池动力系统及整车的性能开发和试验需求，能够为中国自主品牌、合资企业以及零部件供应商提供高效的工程开发和测试服务。

Johnson Matthey

🌐 matthey.com

庄信万丰作为全球可持续技术领域的领跑者，致力于创造一个更清洁，更健康的世界。凭借200多年来对创新和技术突破坚持不懈的承诺，我们帮助客户持续改善产品性能，功能和安全性，并于2020年获得了伦敦证券交易所的绿色经济标志。我们的科技在低排放运输，化学加工以及高效利用自然资源等领域产生全球影响。

庄信万丰的氢能技术推动行业向前发展已有二十多年。我们为一些世界上最知名的燃料电池生产商和汽车OEM提供解决方案，并持续投资于一流的研发设施和团队。为确保产品卓越的性能和耐用性，我们不断开发下一代技术，以驱动燃料电池和电解水电极材料性能的提升，这些关键技术包括膜电极组件，催化剂涂层膜和燃料电池/电解水催化剂。除了实现可持续的能源转型外，庄信万丰亦在巩固自身全球最大的铂族金属二级精炼商的地位，从而推动建立高效贵金属闭环回收系统。与此同时，大规模生产蓝氢被公认为减少全球CO₂排放以及向净零排放过渡初期的重要一环。我们创新性的LCH™技术已被英国的Hy Net (<https://hynet.co.uk>)等蓝氢项目选用，并将在未来实现更多商业化应用。





Logan Energy

🌐 loganenergy.com

洛根能源为低碳、可再生能源和氢能领域提供项目和解决方案，拥有超过25年的经验和良好的记录。我们总部位于苏格兰和荷兰，专注于提供包含氢技术的集成工程解决方案，包括氢生产、加氢、储存、配送以及固定、移动和车载燃料电池发电和发热。

我们提供从项目启动和可行性研究到设计开发、制造、安装以及运营和维护的完整全包服务。包括可行性研究、详细的整个系统设计、现成的和定制的设备采购、项目管理、安装、调试、操作和维护。

我们设计、建造和安装了氢气生产站和加氢站，目前正在为公共汽车、货车、乘用车和重型车辆建造更多的加氢站。经过各种项目经验积累，洛根能源加氢系统设计不断发展，着眼于氢电动或双燃料车辆配置，范围从小型轻型车（每辆车1千克-1.5千克氢气容量）到更大的公共汽车和卡车加油设置（40千克以上容量）和back-to-back加氢要求。我们现在拥有一个模块化系统，可以支持所有要求，按照SAE J2601实施当前和未来的加气条款。如果需要，我们设计的系统还能够从大容量存储器中为多种非移动设备加气，从单缸、MCP到管式拖车和MEGC。

作为独立制造商，我们能够根据在提供氢能和技术项目方面的成熟经验来分析和选择任何合适的设备。我们拥有一支由合格工程师和经验丰富的商业专业人士组成的团队，他们致力于提供最适宜的氢气系统，以最大限度地提高未来的投资回报。我们依靠可信赖的成熟设备供应商网络，使我们能够设计、采购和提供可靠的集成系统。



UK HFCA

 ukhfca.co.uk

英国氢能与燃料电池协会 (The UK Hydrogen & Fuel Cell Association) 是历史最悠久、规模最大的泛英国协会，致力于为氢能行业和燃料电池行业整个价值链中的利益相关者提供支持。在英国燃料电池协会和英国氢能协会合并之后，我们于2010年夏天面世。凭借超过15年的经验，通过部署氢和燃料电池解决方案，英国行业协会是倡导和加速英国向净零转变的领导者。

了解和提升英国氢和燃料电池的前景方面，英国行业协会为其会员提供支持，并代表其会员加速这些清洁能源解决方案的商业化。我们涵盖：

- 所有燃料电池类型及其应用
- 完整的燃料电池供应链（从材料科学研究到系统集成和分销）
- 氢气的生产和储存
- 氢基础设施
- 与相关燃料的运输、储存和使用有关的其他问题

我们的会员包括英国领先的氢能和燃料电池公司，以及来自学术界的组织和对这些清洁能源解决方案和供应链相关要素感兴趣的一系列其他利益相关者。

Wood Plc

 woodplc.com

Wood是能源和建筑环境咨询及工程领域的全球领导者，致力于为世界上一些最关键的挑战提供解决方案。我们在60多个国家/地区提供咨询、项目和运营解决方案，拥有约40000名员工。

在Wood，我们在氢领域的机遇和挑战方面拥有长达数十年的经验。60多年来，我们的工艺技术团队一直在提供蒸汽重整器和火焰加热器，通过催化反应产生氢气。近年来，我们正在探索如何利用新技术，通过清洁氢来支持全球脱碳工作。

Wood在整个清洁氢供应链中拥有相关专业知识，包括：

- 可再生能源
- 电解
- 蒸汽甲烷重整
- 碳捕获、利用和储存
- 天然气网络整合
- 工业应用
- 交通应用

最近，Wood被选中获得英国政府的资助，开发和证明我们的最新设计，确保Wood继续处于清洁氢气生产的前沿。我们已经完成了多项绿色氢气任务，其中一项将为300户家庭和企业提供100%的绿色氢气，这是世界首创。



GREAT

BRITAIN & NORTHERN IRELAND

Department for Business and Trade

We are the UK's department for economic growth. We support businesses to invest, grow and export, creating jobs and opportunities across the country.

We are responsible for:

- Redrawing our rules to ensure businesses thrive, markets are competitive and consumers are protected.
- Securing investment from UK and international businesses.
- Advising, supporting, and promoting British businesses to grow and export.
- Opening up new markets for businesses by removing barriers and striking trade deals.
- Promoting free trade, economic security and resilient supply chains.

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