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Electronics
Manufacturing

**MANUFACTURING
SUPPLIER DIRECTORY**

2019/20

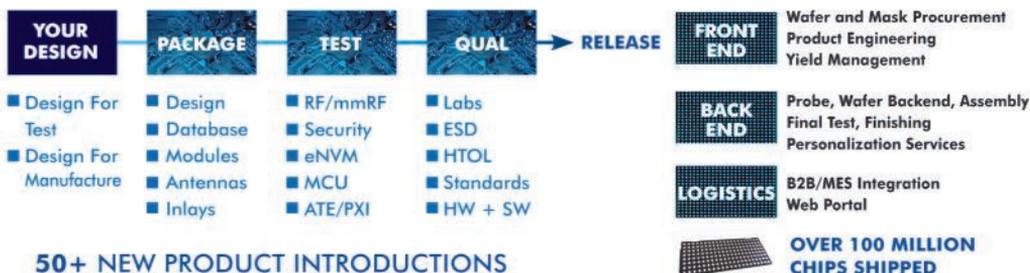
**ANALYTICAL TOOLS AND SERVICES CLEANROOM CONSUMABLES, FACILITIES & SERVICES
CONSULTANCY SERVICES ELECTRONICS COMPONENT MANUFACTURING EQUIPMENT
SALES, SUPPLIES, REFURBISHMENT SUPPORT & CONSUMABLES MARKETING SERVICES
MATERIALS & CHEMICALS OUTSOURCED CLEANROOM SERVICES PACKAGING
PASSIVE COMPONENTS PHOTO MASKS R&D SERVICES RECRUITMENT SERVICES
RELIABILITY TEST RF RELATED SERVICES SOFTWARE & AUTOMATION TESTING
TRAINING VACUUM RELATED EQUIPMENT & SERVICES**

YOU DESIGN IT. WE PRODUCE IT.™

Your outsourced supply chain partner from test to chip.
Lower costs. Faster time to market. Expert support at every stage.

Complete Industrialization Service

- Design for test advice
- Qualification & Reliability
- Turnkey manufacturing
- Technology selection
- Failure analysis
- Logistics
- Test & Product Engineering
- Cost/yield improvement





Welcome to the latest edition of the NMI Manufacturing Supplier Directory, which promotes our members who are suppliers to high tech manufacturing.

NMI believe that maintaining a healthy and competitive infrastructure is critical to the success of the whole sector. For

this reason, we are committed to producing and distributing this directory to provide effective linkages between customers and suppliers.

About the NMI

The NMI is the premier trade association representing Electronic Systems, Microelectronics and Semiconductor Communities. We are primarily focussed in the UK and Ireland but with many other international links. Its objective is to help build and support a strong electronics community by acting as a catalyst and facilitator for both commercial and technological development.

Our members find that the more they participate the more they benefit. A not-for-profit organisation funded by its members, the NMI has a membership that spans the supply chain and includes electronic systems, fabless semiconductor manufacturers, semiconductor manufacturers, suppliers, foundries, design services, IP providers, business associates, research and academic institutions.

Want to find out more?

If you are interested in finding out more about NMI and its activities - please visit our parent organisation's website www.techworks.org.uk

NMI promotes its members across many stakeholder groups and encourages a professional business code of conduct.



NMI ELECTRONICS MANUFACTURING CONTACT

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VISIT THE DIRECTORIES WEBSITE



Register online and update your company listing whenever you like



Search for businesses by text or category

<https://directories.techworks.org.uk>



We make ESD easy.

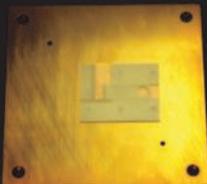
Efficient, effective ESD services from Phasix

If you're involved in semiconductor design you'll understand the headaches that device qualification can cause. So do we. And that's why we're here, to help you achieve ESD qualification more easily. We're a UKAS test lab specialising in ESD and Latch-up testing and qualification to the latest standards. But we go beyond that ... delivering fixtures, repairs, calibration and hardware/software development solutions to maintain and enhance your ESD test capabilities.

Whether you perform some of your tests in-house or fully outsource your Q&R processes, we can help you make the qualification headache subside. And we recognise the importance of offering you a rapid and flexible service.

We provide ISO17025 accredited HBM, MM and CDM ESD testing, giving you the confidence we will comply precisely with MIL-STD, JEDEC, AEC and ESDA standards. We're also active members of the JS-001 and JS-002 committees, helping to achieve greater alignment of these standards with cutting edge device technologies.

As a small company ourselves, we are flexible and responsive, able to work around your needs, specifications and timescales - efficiently and effectively. And, with more than 30 years of experience you can be assured that we are competent to test your devices and take care of your equipment exactly as you ask us to.



Phasix. ESD made Easy.

For more information check out: www.phasix.co.uk
call: +44 (0) 1420 56 56 34 or email: sales@phasix.co.uk

MANUFACTURING SUPPLIER OF THE YEAR 2018

TechWorks wish to congratulate these firms, who were voted by the manufacturing sites to be the top suppliers in 2018 within our sector.

Simple Technical Solutions (STS) came out on top and were named the Manufacturing Supplier of the Year. Maintaining a high performing infrastructure is essential to support a healthy electronics sector within the UK. The top suppliers were identified by asking our manufacturing sites to rate all TechWorks Supplier members in the following areas:

- **Customer Responsiveness**
- **Quality of Products**
- **Criticality of Product to Business**
- **Continuous Improvement Activities to Improve Products or Services**



Dougie Storrs (STS) collects his Award.

WINNER



Simple Technical Solutions Ltd.

RUNNERS UP



SERVICES INDEX

ANALYTICAL TOOLS & SERVICES

Altran
 AVL
 Charntec Electronics
 Compound Semiconductor Technologies
 Cyberowl
 EMS Particle Solutions (EMS)
 Enmodus
 EquipIC
 Exida
 Icsense
 IMEC IC-Link
 INEX Microtechnology
 Innodys
 KMG Ultra Pure Chemicals
 LSA
 Maser Engineering
 MCS
 Mentor A Siemens Business
 Outsecure Inc
 Presto Engineering
 Renishaw
 RFMOD
 RoodMicrotec
 Science & Technology Facilities Council (STFC)
 Supply Design
 yieldHUB

CLEANROOM CONSUMABLES

CS Clean Systems
 EMS
 Lynbond 2000
 Solid State Disks
 Wistron NeWeb Corporation (WNC)

CLEANROOM SERVICES & FACILITIES

CS Clean Systems
 EMS Particle Solutions (EMS)
 Ichor Systems
 INEX Microtechnology
 Innodys
 Memstar
 Retronix Semiconductor

SISTEM Technology
 SPS
 STS

CONSULTANCY SERVICES

AB Open
 Altran
 Applus Idiada
 AVL
 Cerberus Security Laboratories
 Compugraphics
 CS Clean Systems
 CyberOwl
 Delta
 DFT Solutions
 Ebara
 Electronics Link Asia
 Embecosm
 EMS Particle Solutions (EMS)
 Enigma People Solutions
 EquipIC
 Exida
 Feabhas
 FirstEDA
 Global Technologies
 IBS
 IC Resources
 ICAM Engineering
 Icsense
 IMEC IC-Link
 INEX Microtechnology
 Innodys
 Inside Secure
 ITDev
 KMG Ultra Pure Chemicals
 Lean IP
 Lorit Consultancy
 LSA
 Marcus Webb
 Maser Engineering
 Megatech
 Mentor A Siemens Business
 Outsecure Inc
 Oxford Brookes University
 Phaedrus Systems
 Phasix ESD
 Presto Engineering
 Retronix Semiconductor
 RF Global Solutions

RFMOD
 RF Support
 RoodMicrotec
 Savantech
 Search for the Next
 Smart Power Solutions
 Softinsys
 Sondrel
 Solutions Driven
 Supply Design
 Synergie CAD
 TKS Partnerships
 T&VS

ELECTRONICS COMPONENT MANUFACTURING

Evince Technology
 Fabrinet UK
 Intel
 IXYS UK Westcode
 Magna-Power
 Newport Wafer Fab
 Presto Engineering
 Search for the Next
 Semefab
 Semtech
 Solid State Disks
 Sondrel
 Sundance Multiprocessor Technology
 Ultra Electronics

EQUIPMENT SALES & REFURBISHMENT

CEMCO
 Charntec Electronics
 Compound Semiconductor Technologies
 CPS Europe
 CS Clean Systems
 Ebara
 EMS Particle Solutions (EMS)
 Global Technologies
 IBS
 ICAM Engineering
 Ichor Systems
 Innodys
 Magna-Power

Megatech
 Memsstar
 NanoScope Services
 NTEK litho
 PPM
 Quartztec Europe
 Renishaw
 Retronix Semiconductor
 RF Global Solutions
 RF Support
 Scotech
 STS
 SiSTEM Technology
 Solid State Disks
 Sondrel
 SPS
 SPTS Technologies
 STS
 SYNERGIE-CAD
 TEL
 Teradyne
 Thermco Systems
 Trymax
 U4Global Solutions
 Wistron NeWeb Corporation
 (WNC)

EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES

3M
 CPS Europe
 EMS Particle Solutions (EMS)
 Fourteen Technology
 Charntec
 Global Technologies
 IBS
 ICAM Engineering
 Ichor Systems
 Innodys
 Inseto
 Magna-Power
 Megatech
 memsstar
 Nor-Cal UK
 NTEK litho
 PPM
 Quartztec Europe
 RF Global Solutions
 RF Support
 Scotech
 SiSTEM Technology
 Solid State Disks
 SPS

SPTS Technologies
 STS
 Thermco Systems
 Trymax
 U4Global Solutions

EQUIPMENT SUPPORT SERVICES

Charntec Electronics
 Compound Semiconductor
 Technologies
 CPS Europe
 CS Clean Systems
 Ebara
 EMS Particle Solutions (EMS)
 EquipIC
 Global Technologies
 IBS
 Ichor Systems
 Inseto
 Logos Logistics
 Magna-Power
 Megatech
 memsstar
 NTEK litho
 Phasix ESD
 PPM
 Retronix Semiconductor
 RF Global Solutions
 RF Support
 Scotech
 SiSTEM Technology
 Solids State Disks
 SPTS Technologies
 STS
 Teradyne
 Thermco Systems
 Trymax
 U4Global Solutions

MARKETING SERVICES

TKS

MATERIALS/CHEMICALS

3M
 Advanced EPI
 Epivalence
 ICAM Engineering
 Inseto
 IQE
 KMG Ultra Pure Chemicals

Pegasus Chemicals
 Quartztec Europe
 Scotech
 Solid State Disks
 SPS
 STREM Chemicals UK
 Wafer Technology

OUTSOURCED CLEANROOM SERVICES (STAFF, PROCESSES)

IMEC IC-Link
 INEX Microtechnology
 IQE
 Retronix Semiconductor
 RF Global Solutions
 RF Support

PACKAGING

3M
 AMS
 EquipIC
 Exception PCB
 ICAM Engineering
 ICsense
 IMEC IC-Link
 Inseto
 Maser Engineering
 Pegasus Chemicals
 RFMOD
 Rochester Electronics

PASSIVE COMPONENTS

3M
 Solids State Disks

PHOTO MASKS

Compugraphics International
 EMS Particle Solutions (EMS)
 EquipIC
 IMEC IC-Link
 Photronics

R&D SERVICES

Advanced EPI
 Altran

AMS
 Applus Idiada
 AVL
 CENSIS
 CyberOwl
 EMS Particle Solutions (EMS)
 Ichor Systems
 KMG Ultra Pure Chemicals
 Lorit Consultancy
 Epivalence
 EquipIC
 Exida
 Fabrinet UK
 EMS Particle Solutions (EMS)
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 Lumentum
 Maser Engineering
 MCS
 Memstar
 Mentor A Siemens Business
 Pegasus Chemicals
 Presto Engineering
 Quartztec Europe
 RF Global Solutions
 RFMOD
 Roke
 Search for the Next
 Sistem Technology
 Smart Power Solutions
 Sundance Multiprocessor
 Technology
 Supply Design
 T&VS
 Wistron NeWeb Corporation (WNC)

RECRUITMENT SERVICES

Enigma People Solutions
 IC Resources

RELIABILITY TEST

3M
 AMS
 Charntec Electronics

Compound Semiconductor
 Technologies
 EMS Particle Solutions (EMS)
 EquipIC
 Exida
 Fabrinet UK
 ICsense
 IMEC IC-Link
 Maser Engineering
 Phasix ESD
 Presto Engineering
 Reltech
 RoodMicrotec
 Solid State Disks
 Synergie-CAD
 Ultra Electronics

RF RELATED SERVICES

EMS Particle Solutions (EMS)
 Enmodus
 EquipIC
 Global Technologies
 PPM
 Presto Engineering
 Retronix Semiconductor
 RF Global Solutions
 RFMOD
 RF Support
 Roke
 Synergie CAD
 Wistron NeWeb Corporation (WNC)

SOFTWARE AND AUTOMATION

Altran
 Applus Idiada
 AVL
 Charntec Electronics
 Compound Semiconductor
 Technologies
 CyberOwl
 Embecosm
 EMS Particle Solutions (EMS)
 Enmodus
 Exida
 Global Technologies
 Inside Secure
 ITDev
 Mentor A Siemens
 Business

PPM
 Renishaw
 RFMOD
 Roke
 Savantech
 Sistem Technology
 Softinsys
 Sundance Multiprocessor
 Technology
 Synergie CAD
 TVS
 Wistron NeWeb
 Corporation (WNC)

TESTING

AMS
 Altran
 Applus Idiada
 Cerberus Security
 Laboratories
 Compound Semiconductor
 Technologies
 Charntec Electronics
 Delta
 Embecosm
 EMS Particle Solutions
 (EMS)
 EquipIC
 Exida
 ICAM Engineering
 Icsense
 IMEC IC-Link
 INEX Microtechnology
 LSA
 Maser Engineering
 Outsecure Inc
 PPM
 Presto Engineering
 Renishaw
 Roke
 RoodMicrotec
 Smart Power Solutions
 Softinsys
 Solid State Disks
 Sondrel
 Supply Design
 Synergie CAD
 Teradyne
 T&VS
 Ultra Electronics
 Wistron NeWeb
 Corporation (WNC)

TRAINING

- Altran
- AVL
- Cerberus Security Laboratories
- DfT Solutions
- Doulos
- Ebara
- EMS Particle Solutions (EMS)
- Exida
- Feabhas
- FirstEDA
- Global Technologies
- Maser Engineering
- Memsstar
- Mentor A Siemens Business
- Outsecure Inc
- Oxford Brookes University
- Phaedrus Systems
- Phasix ESD
- Retronix Semiconductor
- Softinsys
- Trymax
- T&VS
- Ultra Electronics

VACUUM RELATED EQUIPMENT & SERVICES

- Busch Semicon
- CS Clean Systems
- Ebara
- Global Technologies
- ICAM Engineering
- Ichor Systems
- Megatech
- memsstar
- Nor-Cal UK
- Retronix Semiconductor
- RF Global Solutions
- RF Support
- Scotech
- SiSTEM Technology
- Solid State Disks
- Trymax

TechWorks

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The UK's Deep Tech Hub

AESIN CONFERENCE 2019 National Motorcycle Museum 01 October 2019

Board of Directors

UK's top commercial companies go to how to build

nmi **aesin**

Business updates: New products...
 Industrial Control Systems...
 How and why...
 AESIN Conference 2019

https://www.techworks.org.uk

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There's so much we could say when we are asked about our company - but let's keep things simple.

We are a science-based technology company that is committed to improving lives and doing business in the right way - which is why we have been listed as a World's Most Ethical Company for three years in succession. And we love applying our science to creating products that, in big ways and small, make things better in some way. Helping people to be safe. Making them more productive. Protecting their health. Safeguarding the environment. And we have an insatiable appetite for meeting the world's ever-changing challenges.

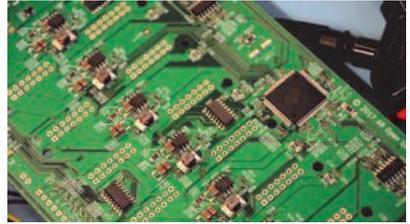
We are relentless in our pursuit of solutions to our customers' problems - one third of our revenues come from products that didn't exist five years ago.

At 3M, honesty, integrity and the ability to work as part of a team contribute to a culture that is founded on curiosity, problem-solving and collaboration.

We work tirelessly to deliver our vision: 3M technology advancing every company. 3M products enhancing every home. 3M innovation improving every life.



**EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - MATERIALS & CHEMICALS -
PACKAGING - PASSIVE COMPONENTS - RELIABILITY TEST**



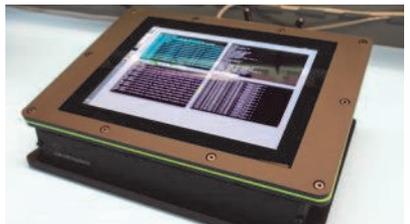
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Email	info@abopen.com
Website	http://abopen.com



AB Open is an open source and technical communities consultancy that specialises in embedded and wireless systems.

We work with semiconductor companies, component distributors and equipment vendors, to help build mutually beneficial relationships with technical communities.

We have many years experience with both open source software and hardware, ranging from project development and ongoing governance, through to IP due diligence and defining comprehensive open source strategies.



We are able to assist with the establishment, evolution and day-to-day management of technical communities, along with delivering and supporting best-of-breed online community platforms which integrate tools such as blogs, wikis, version control and forums.

In combining this specialist expertise with content and event production, hands-on technical knowledge and workshop facilities, we are uniquely positioned to offer a joined-up service that would otherwise require engaging with numerous service providers. As a result of our integrated approach we are able to deliver better results — faster, at a lower cost and with reduced risk.

ALTRAN

Altran ranks as the undisputed global leader in Engineering and R&D services (ER&D), following its acquisition of Aricent.

The company offers clients an unmatched value proposition to address their transformation and innovation needs.

Altran works alongside its clients, from initial concept through industrialization, to invent the products and services of tomorrow.

For over 30 years, the company has provided expertise in aerospace, automotive, defense, energy, finance, life sciences, railway and telecommunications. The Aricent acquisition extends this leadership to semiconductors, digital experience and design innovation. Combined, Altran and Aricent generated revenues of €2.9 billion in 2018, with some 47,000 employees in more than 30 countries.

Telephone	Contact via the website
Email	Contact via the website
Website	www.altran.com



AUTOMOTIVE



AERONAUTICS



SPACE, DEFENSE & NAVAL



RAIL, INFRASTRUCTURE & TRANSPORTATION



ENERGY



INDUSTRIALS & ELECTRONICS



LIFE SCIENCES



TELECOM & MEDIA

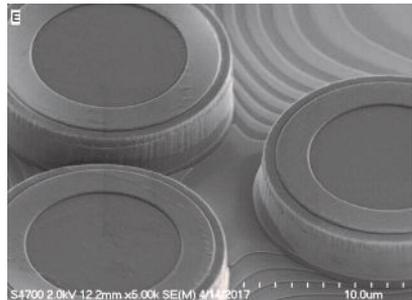


FINANCE & PUBLIC SECTOR

**ANALYTICAL TOOLS & SERVICES - CONSULTANCY SERVICES - R&D SERVICES
SOFTWARE & AUTOMATION - TESTING - TRAINING**



Telephone	Contact via the website
Email	Contact via the website
Website	www.ams.com



Leading manufacturers around the globe rely on ams’ sensing know-how for advanced systems design.

For ams, “Sensing is Life” and our passion is in creating the sensor solutions that make devices smarter, safer, convenient and more environment-friendly. ams’ sensor solutions are at the heart of the products and technologies that define our world today – from smartphones and mobile devices to smart homes and buildings, industrial automation, medical technology, and connected vehicles.



Our products drive applications requiring small form factor, low power, highest sensitivity and multi-sensor integration. We offer sensors (including optical sensors), interfaces and related software for consumer, communications, industrial, medical, and automotive markets.



Applus+ IDIADA offers design, testing, engineering, and homologation services to the automotive industry worldwide. Our reputation is founded on the expertise of an international team of more than 2,450 engineers and technical experts, our first class facilities, our client focus and a constant drive towards innovation. An international network of subsidiaries and branch offices in 25 countries ensures that customers receive a fast and personalised service. We support our clients in their product development activities by providing them with engineering, testing and homologation services that fit their needs.



Telephone	+44 1223 441434
Email	idiada_uk@idiada.com
Website	www.idiada.com

- **Professional team:** An international team of over 2,450 engineers and technical experts qualified and experienced in the automotive product development.
- **First class state-of-the-art testing facilities:** Leading-edge laboratories in various locations and the most comprehensive proving ground in Europe.
- **International presence:** We work closely with our clients in 25 countries to perform projects locally and to better understand each market's requirements.
- **Innovation:** Continuously developing new services in a strategic, integrated and controlled manner
- **Development Integration:** thorough knowledge of all major vehicle functionalities.
- **Design led by functionality:** We conduct vehicle development projects from the beginning towards functional excellence.
- **Integration** of CAD, CAE and testing.

IDIADA in the UK provides engineering, testing and homologation services. The company counts with expert engineers in the fields of brake development, electronics and ECU development. Alongside its facilities for brake development and testing, by summer 2020, IDIADA will operate in the UK a dedicated test track for Connected and Automated Vehicle testing. Moreover, in the UK, IDIADA has a team who supports all Homologation needs at a national, European and worldwide level.

AVL

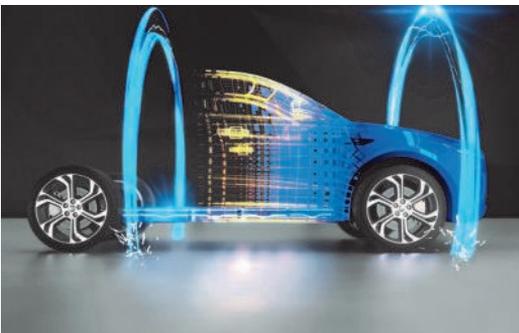


AVL is the world's largest independent company for the development, simulation and testing of powertrain systems (hybrid, combustion engine, transmission, electric drive, batteries, fuel cell and control technology) for passenger cars, commercial vehicles, construction, large engines and their integration into the vehicle.

Telephone	01268 495406
Email	info.uk@avl.com
Website	www.avl.com

The company has decades of experience in the development and optimization of powertrain systems for all industries. As a global technology leader, AVL provides complete and integrated development environments, measurement and test systems as well as state-of-the-art simulation methods.

As a pioneer in the field of innovative solutions, such as diverse electrification strategies for powertrains, AVL is increasingly taking on new tasks in the field of autonomous driving, especially on the basis of subjective human sensations (driveability, connectivity, ADAS, etc.). In the competition of technologies – ICE-based engine, battery and fuel cell electric drive – and their combinations, AVL is working intensively and with the same priorities.



AVL has digitized the vehicle development process with state-of-the-art and highly scalable IT, software and technology platforms, and creates new customer solutions in the areas of

ANALYTICAL TOOLS AND SERVICES - CONSULTANCY SERVICES - R&D SERVICES - SOFTWARE AND AUTOMATION - TRAINING



Telephone	+44 (0)1952 677432
Email	sales@busch.co.uk
Website	www.buschvacuum.com/uk

Busch Vacuum Pumps and Systems is one of the largest manufacturers of vacuum pumps, blowers and compressors in the world. Our product range comprises the largest selection of solutions for vacuum and overpressure technology in all industry sectors worldwide.

We can draw on more than 50 years of experience in vacuum

pump and low pressure pump manufacture.

Our company was founded in 1963. With over 60 companies in more than 40 countries and agencies worldwide, we can provide sound advice and practical support to our customers wherever they are.

All our products are available with a variety of options and advanced design features to match a diverse range of applications, so our customers benefit from the most appropriate and cost-effective solutions. We constantly evaluate our activities in order to maintain the highest standards, and continue to develop innovative technologies that will define the future of vacuum system applications.

Our headquarters is located in Maulburg (Germany), where the main German manufacturing facility is located. Maulburg is also the home of the German sales organization. Busch operates production plants in Switzerland, Great Britain, the Czech Republic, Korea and the USA. The Busch group is a family-owned company, and is managed by members of the Busch family.

The Busch workforce of more than 3,500 employees worldwide includes many chemical engineering, mechanical engineering and service specialists. With our global service network we offer seamless service for vacuum pumps and systems to our clients. Busch service technicians and engineers maintain vacuum systems in every corner of the globe and in many industries – from offshore oil exploration in the Arctic Sea to food packaging in Patagonia.

Our manufacturing sites use the latest manufacturing techniques, machinery and equipment. Our quality management procedures surpass DIN EN ISO 9001 requirements and offer all necessary certifications to meet the specific requirements of all our clients.

VACUUM RELATED EQUIPMENT AND SERVICES



Telephone	02392 262120
Email	info@cemco.com
Website	www.cemco.com

Cemco has more than 40 years' experience manufacturing leading products for the PCB market worldwide. During this time we have been designing, developing and building bespoke equipment for diverse industries and more recently for the field of Printed Electronics.

Cemco has built a reputation for providing unique solutions to meet market requirements. For example, the use of sensitive and delicate materials used in a variety of Printed Electronic and battery applications can easily result in defects during the manufacturing process.

With this in mind Cemco has

developed a 'No Touch' technology allowing web materials as thin as 2 microns and fine line circuitry down to 2 microns to be transported R2R through multiple processes without contacting the product surface.

While Vertical and Horizontal 'No Touch' systems are available, the Vertical method has the added advantage of significantly reducing equipment footprint. Both systems provide process isolation and low tension operation.





Telephone	0141 330 3876
Email	Contact via the website
Website	http://censis.org.uk

CENSIS is the industry-led Innovation Centre for the economically important and highly diverse domain of Sensor and Imaging Systems (SIS) and Internet of Things (IoT) technologies and their applications.

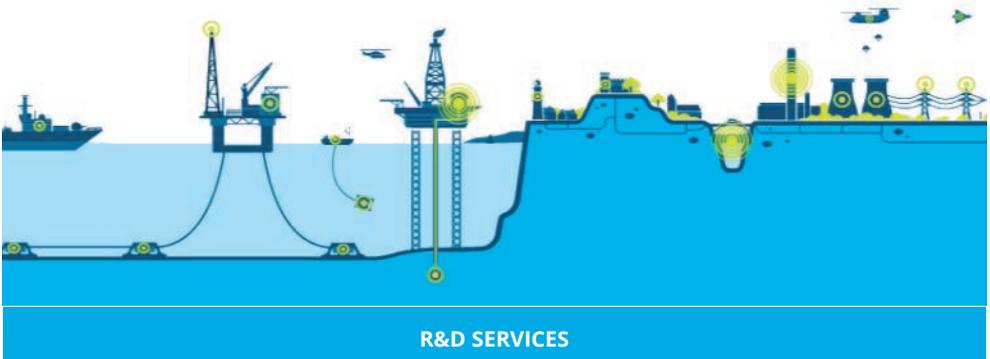
CENSIS assists companies or organisations of any size to address industry, product and market challenges.

We do this by bringing together experts from across Scotland's universities with our in-house, industry-experienced engineering and project management teams. We then look to assemble fundable projects to develop effective solutions and leverage further funding.

Working with us allows organisations to implement quality, efficiency and performance improvements and fast-track the development of new products and services for global markets.

As well as working with technology companies to help them develop or improve existing sensor and imaging systems and IoT solutions, we also work with 'non-technology' companies to use SIS and IoT to improve or grow their business.

Companies can be based anywhere in the world to work with us, but to be eligible for CENSIS project funding, they need to have an operational base in Scotland at which the project will be carried out.



R&D SERVICES



CERBERUS
Security Laboratories

Telephone	+44 (0)1172 140940
Email	info@cerb-labs.com
Website	www.cerberus-laboratories.com

We are a specialist, expert team that is dedicated to improving the security of software, firmware, hardware and communications of embedded devices and IoT systems. Our goal is to help our clients achieve the right level of security to meet their increased risk when creating connected products.

Security Consultancy

We provide security consultancy to semiconductor, automotive and "smart"/IoT product manufacturers.

We provide a full-spectrum security consultancy to semiconductor companies and embedded systems product manufacturers.

We can provide advice, analysis and vulnerability assessment of your end-to-end security architecture, design and implementation.



Security Software Development

Our specialist security software development services combine a wealth of experience in embedded firmware with in-depth knowledge of the latest software robustness and hardening techniques.

We develop on platforms from small embedded devices based on microcontrollers and running "bare metal" code up to larger System-on-Chip based devices running complex Operating Systems such as Linux.



Embedded System Security Evaluation

We can evaluate the security of your product and help you to fix security vulnerabilities using the latest technologies and attack methods.



CHARNTEC ELECTRONICS LTD

Telephone	+44 (0) 2380 642 571
Email	info@charntec.co.uk
Website	www.charntecelectronics.com

Charntec Electronics, founded in 1979 to provide sales and service support to manufacturers in the semiconductor and allied industries based in the UK and Europe is proud to be celebrating its 40th year in 2019. Our extensive product range including wafer handling and thin film measurement,

mechanical device handling, precision motion and environmental equipment supplies the semiconductor, optoelectronics, display, MEMS, biotechnology, photovoltaic and optical coating industries, as well as providing analysis and design to the research and development community. Charntec represents the following principals:

Ellexar: Is a company focused on heater element technology for all OEM furnaces and utilize innovative technologies that are a result of more than thirty years of experience in diffusion furnace design, manufacturing, process technology and direct engagement to supply unique solutions for every fab, as applicable to their process and use of the furnace. Ellexar's advanced custom solutions to fabs worldwide, provide the most advanced heater elements in design, workmanship and performance with proven designs and concepts which outperform the original designs by OEMs as well as focusing on uptime, heater life, faster ramp cycle time and overall lower cost of ownership and supplying furnace elements that can be repaired and refurbished.

Exatron ATE: Device Handling, Laser, MEMs, Pick & Place, Tape & Reel, Test and Programming Systems. **Faith Enterprises:** An industry leader in wafer handling automation including bulk wafer handling and wafer ID readers. Four Dimensions: 4D manufactures advanced semiconductor probing systems for Four Point Probe and CVmap measurements. **Nanotronics Automation:** Designs and manufactures precision equipment from simple ball bearing stages to precision systems and robotic products for wafer handling and loading. **Froilabo:** The "DRAGON" Thermal

Conditioner controls air for applications such as fast and precise temperature control and characterisation on components, printed circuit boards and electronic device.

Scientific Computing International: SCI is a world leader in providing high resolution thin-film metrology systems and analysis software products. Their FilmTek™ 4000 Series "raises the bar" by delivering 100 times the resolution of the best non-contact method for thin film measurement, and 10 times the resolution of the best prism coupler contact systems. **FilmTek™** uses multiple angle reflectometry to provide peak performance from very-thin to very-thick films.

All equipment is fully supported from the UK by our team of sales and service support personnel from first contact with customers through the sale, installation, warranty and after sales support. Charntec will continue to fully support all Thermonics Precision Temperature Forcing Systems, offering a comprehensive repair, servicing and calibration service. Charntec represented Thermonics for over 25 years and during that time built up a wealth of knowledge and large inventory of spare parts.

ANALYTICAL TOOLS & SERVICES - EQUIPMENT SALES AND REFURBISHMENT - EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - EQUIPMENT SUPPORT SERVICES - RELIABILITY TEST - SOFTWARE & AUTOMATION - TESTING

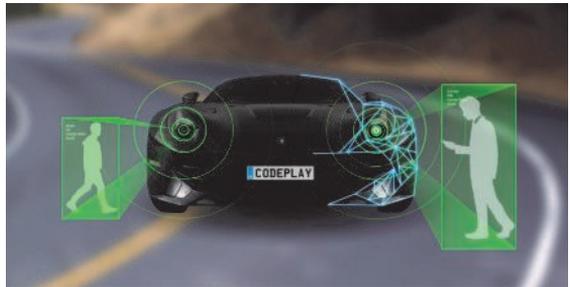


Telephone	(+44) 131 466 0503
Email	Email via the website
Website	www.codeplay.com

Codeplay Software is a world pioneer in acceleration technologies for AI, having developed some of the first tools to enable complex software to be accelerated using graphics processors.

Today, most AI software, including for cars, is developed using graphics processors designed for video games. Codeplay is the world's leading company providing the tools to enable software to be accelerated by graphics processors or the latest specialized AI processors. Codeplay works with the world's leading technology businesses to build advanced intelligence into devices ranging from smartphones to self-driving cars.

Codeplay Software's ComputeSuite™ provides tools that enable software developers working on artificial intelligence applications to easily innovate or port their code using familiar open standards-based programming languages and artificial intelligence (AI) frameworks. This is especially relevant when hosted on rapidly evolving systems with a variety of processor architectures ie heterogeneous processing.



C ComputeCpp™
A ComputeAorta™

COMPOUND SEMICONDUCTOR TECHNOLOGIES



Telephone	+44 (0) 1698 722072
Email	salesinfo@cstglobal.uk
Website	www.cstglobal.uk

CST Global is an independent, volume-producer of III-V compound semiconductors for the fabrication of photonics products.

CST Global provides both a custom foundry service, as well as a range of high-volume, standard laser products for the optical communications markets. We are an active partner in the UK and European, Technology Consortium Programme.

We work with leading companies around the world in the Telecommunications, PON, Industrial, Defence and Healthcare markets.

Custom Solutions

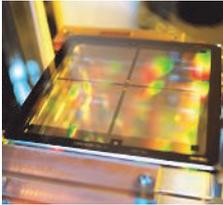
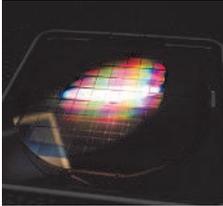
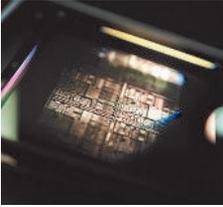
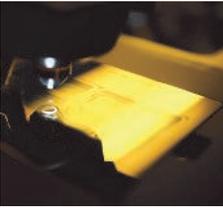
CST Global has developed a unique, pre-qualified process library, associated with each platform. This allows us to produce products to market requirements (such as Telecordia), reducing risk and lead-times for our customers.

Foundry Solutions

CST Global is an ISO-certified and fully compliant foundry. We currently employ 68 staff in chip fabrication at our facility in Hamilton, Glasgow. We have an ongoing, active research and development programmes in various technology areas.



ANALYTICAL TOOLS & SERVICES - EQUIPMENT SALES AND REFURBISHMENT -
EQUIPMENT SUPPORT SERVICES - RELIABILITY TEST - SOFTWARE & AUTOMATION
TESTING



compugraphics

The Experts Behind the Mask

Telephone	Contact via the website
Email	Contact via the website
Website	www.compugraphics-photomasks.com

Compugraphics is regularly assessed by our clients and accredited bodies to ensure we meet the highest compliance standards. This means we have been evaluated against, and surpassed, some of the toughest requirements in the industry.

From world-class manufacturing facilities in Scotland, the USA, and Germany, we provide photomask solutions for companies, universities and R&D Institutes around the globe. Sites are supported by a strategically located, world-class reticle repair and recertification facility in Austin, Texas.

Our customers range from large, global organisations to small start up businesses. Compugraphics provide an unmatched level of service and technical support to all customers no matter the size of their operations.

We create customer specific photomask solutions across the complete spectrum of the microelectronic industry.

- Semiconductor & integrated circuits
- Optoelectronic devices
- MEMS & nanotechnology
- Compound semiconductor
- Discrete
- Renewable energy
- Genomics
- Image sensors
- Sensors manufacturers
- MEMS manufacturers

CONSULTANCY SERVICES - PHOTO MASKS



Telephone	+44 (0)141 411 0090
Email	info.eu@conceptpartsolutions.com
Website	www.conceptpartsolutions.com

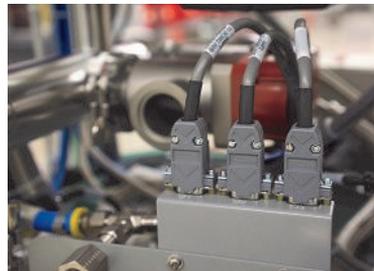
Concept Part Solutions, Inc. (CPS) was founded in 2007 as an OEM support company dedicated to maturing product portfolios. CPS is Lam Research's only authorized and licensed partner for the Novellus Concept One, GaSonic and Speedfam/IPEC CMP equipment lines and is empowered to

provide OEM Spare Parts, Upgrades, Service, and Engineering support for these toolsets. This unique, non-competitive partnership perpetuates streamlined and focused attention on these maturing products. We are committed to this relationship and have made it our mission to represent this partnership as a business unit of the OEM.

We continually strive at every level of our operation for perfection.

CPS has grown to become a global organization of dedicated, experienced individuals. Each area of expertise is staffed with former OEM employees of the same field that have a wealth of knowledge to share with our customers.

CPS is a global company founded on the principles of quality, integrity and respect. We continually strive at every level of our operation for perfection. We are dedicated to providing a service that exceed our customer's expectations. This is achieved by working with our customers as partners and a continuous review of deliverables. All aspects of our operation and business systems are subject to review and continuous improvement to maintain efficiency, satisfy compliance requirements, and uphold our standard of excellence.



EQUIPMENT SALES & REFURBISHMENT - EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - EQUIPMENT SUPPORT SERVICES



**CS CLEAN
SYSTEMS®**

Telephone	Contact via the website
Email	sales@csclean.co.uk
Website	http://www.csclean.com/

GAS ABATEMENT FOR SEMICONDUCTOR AND HIGH-TECH INDUSTRIES

Safety and The Environment...

For CS CLEAN SOLUTIONS, environmental protection is the essence of our business. Our eco-friendly CLEANSORB technology safely removes hazardous gases without consuming energy, water or

fuel. No secondary emissions in the form of waste water or NOx. Moreover, all products are designed for lifetime serviceability and re-use.

Research & Development...

We are an R&D based company, supported by an international team of chemists, physicists and engineers, bringing with them many years of experience in materials handling and engineering. All of our products, including our CLEANSORB chemisorber granulates, are developed in-house from the conception to the tested finished product stage.

Best Prepared for the Future...

The process technologies and precursor materials used for chip manufacture continue to diversify against the background of a maturing, globalized industry with increased emphasis on Cost-of-Ownership. At the same time, growing environmental awareness is demanding more efficient usage of materials and a reduction in factory emissions. Proud of our reputation for innovative product design and high-quality engineering, CS CLEAN SOLUTIONS is best prepared and fully committed to solving these exciting new challenges. We look forward to serving you in the years ahead.



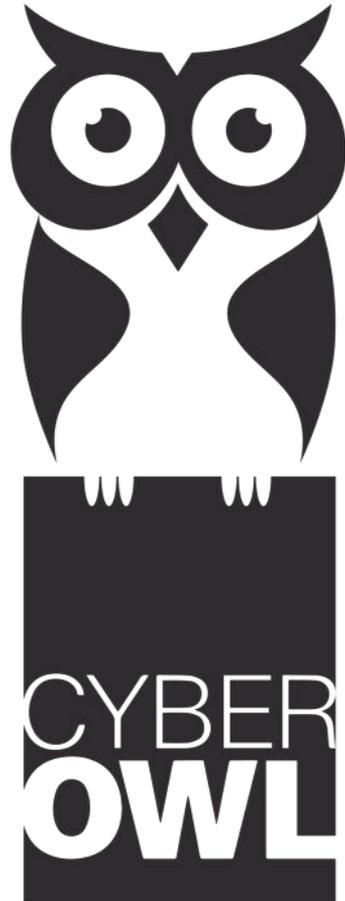
CLEANROOM CONSUMABLES - CLEANROOM SERVICES & FACILITIES - CONSULTANCY SERVICES - EQUIPMENT SALES & REFURBISHMENT - EQUIPMENT SUPPORT SERVICES - VACUUM RELATED EQUIPMENT & SERVICES

Intelligent, Not Artificial

We are generating and collecting more information than ever before. While this brings with it some challenges, we believe this gives security teams a real opportunity to stay one step ahead of cyber criminals. Shut down attacks before any real loss is sustained. There are no shortcuts and we are still a long way away from completely replacing human operators in cyber security. But automation and analytics could fundamentally change the way we secure our organisations.

CyberOwl builds on cutting-edge research that started its life at the Defence Academy of the United Kingdom and completed at Coventry University. The founding team combines decades of experience in developing, securing and operating large distributed systems. We are on a mission to leverage data and analytics to shift organisations towards an active cyber posture. Medulla, our first product, is the beginning of a suite of capabilities we will develop to achieve this mission.

Get in touch if you would like us to help put your organisation on the front foot, or if you share our vision and would like to join us at CyberOwl.



Telephone	Contact via the website
Email	info@cyberowl.io
Website	www.cyberowl.io

**ANALYTICAL TOOLS AND SERVICES - CONSULTANCY SERVICES - R&D SERVICES
SOFTWARE & AUTOMATION**

DELTA – a part of FORCE Technology is an independent hi-tech company

We make knowledge available for everyone and help the society and industry with the latest technological development. As our customers' strategic partner, we ensure optimal usage of advanced technology. We develop, test, certify and advise our customers in every phase of their product development, before the product is launched on the market.



DELTA - a part of FORCE Technology

Since 1941, DELTA's mission has been to ensure ideas succeed in the real world – for the benefit of the Danish industry and society.

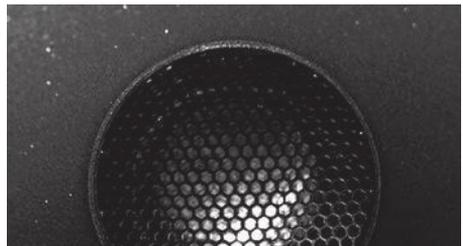
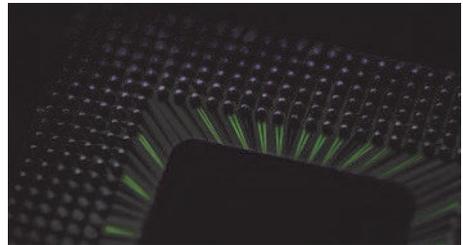
Our profound competences are based on decades of technological development within electronics, microelectronics, light, optics, acoustics, vibration, software, and sensors.

DELTA is an Advanced Technology Group (GTS) institute, approved by the Danish Ministry of Higher Education and Science.

Core competencies

- Electronics
- Microelectronics
- Software technology
- Light
- Optics
- Acoustics
- Vibration
- Sensor systems

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Email	delta@delta.dk
Website	madebydelta.com



CONSULTANCY SERVICES - TESTING

DfT Solutions Limited provides Design-for-Test(DfT) Training and Consultancy across IC, Board and System test to the Electronics Design communities world wide.



Telephone	+44 (0) 7515 288155
Email	eric.cormack@dft-solutions.co.uk
Website	www.dft-solutions.co.uk

Eric has over 30 years of experience in the field of design-for-test. He has implemented a wide

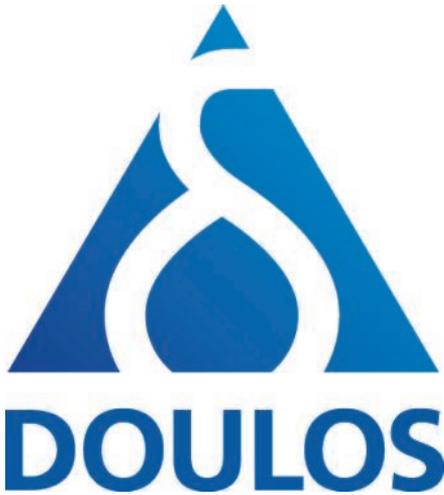
range of DfT solutions in IC, board, Soc and MCM level test. Eric started his career working with military applications for the UK MoD, implementing customised board level design-for-test solutions.

He moved on from there to establish a test services company, Testech, in the USA for his UK based company providing a wide range of services from DfT consultancy in customer designs to full turn-key packages, delivering tester hardware and test program suites in ICT and Functional Test for a variety of ATE platforms.

Eric has implemented custom scan and BIST based solutions at IC level, boundary scan at IC, SoC and board level, and has developed customised test and diagnostic solutions for MCM applications in satellite systems. Eric has over 12 years experience in the semiconductor industry working for Hitachi and Philips/NXP.

Consultancy - DfT Solutions Limited offer a range of test technology and test strategy development consultancy services tailored to solve your Design-For-Test (DFT) and production test challenges.

Contact our experts for an evaluation of your needs and honest view of how DfT Solutions Limited can assist. Experts will work within your organisation to identify and resolve root cause issues preventing you achieving your engineering, quality or test cost goals.



Doulos has set the industry standard for high quality training and KnowHow for over 25 years in design and verification languages and methodologies for system, hardware, and embedded software designers.

The essential choice for 3500+ companies across 60+ countries, Doulos provides scheduled classes across North America and Europe, and delivers on-site and live online training worldwide.

Our business ethos is 'service through excellence' which, when combined with our world-leading independent know-how, makes Doulos the ideal training partner.

Telephone	01425 471223
Email	info@doulos.com
Website	www.doulos.com

Independent

Our commercial independence and industry wide partnerships enable Doulos to bring significant added value to our clients. This also enables Doulos to make a unique contribution to the EDA industry as a whole in the area of new design and verification methodologies.

Unique Course Materials

Doulos course materials are recognised as the best in the industry. No other training provider can match the combination of in-depth technical expertise, training experience, and professional course design encapsulated in our materials. They add value to Doulos training that is difficult to emulate, and provide delegates with comprehensive reference material.

Expert Tutors

Doulos consultants are technical experts in their field, drawn from right across the industry. But it takes more than technical know-how to become a Doulos tutor. Effective course design and training delivery are skills we take very seriously. And that's why our expert tutors really know how to teach, and are passionate about transfer-

Telephone	07768025470 / 01506 460232
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Website	www.ebara-pm.eu



The Japanese EBARA Precision Machinery Company (parent company of EBARA Precision Machinery Europe) is a leading worldwide supplier of components and systems for semiconductor, LED, Photovoltaic, Flat Panel, MEMS applications.

The product range covers vacuum pumps, exhaust gas cleaning systems and accessories, Chemical-Mechanical Polishing systems, Plating systems, Ozone generators, functional water generators and EPIX Filters.

EBARA Precision Machinery Europe GmbH (EPME) was formed in 1994 as a subsidiary of the EBARA Precision Machinery Company which belongs to EBARA Corporation, a large Japanese engine building company. With about 140 employees, EPME is active in sales, service and applications for the entire product range and major engineering projects in the semiconductors, LED and photovoltaic area.

The highly innovative EBARA products can be found in use at the major manufacturers in the silicon chip industry, the LED industry and the PV industry. The company covers customers in Europe, Eastern Europe and the Middle East. The European headquarters are located in Hanau, Germany; other locations are in France, Great Britain, Ireland, Israel and Austria.

The unique product features, our applications and engineering know-how, along with the obligation to superior quality and support commitment, generate highest customer satisfaction and are the key to success for EBARA Precision Machinery Europe GmbH.



CONSULTANCY SERVICES - EQUIPMENT SALES & REFURBISHMENT - EQUIPMENT SUPPORT SERVICES - TRAINING - VACUUM RELATED EQUIPMENT & SERVICES

Electronics Link Asia

UK BUSINESS SUCCESS IN JAPAN

This business started in 1996 as a consultancy with offices in Japan to assist companies into the Japanese market, and has had notable successes in doing so.

Our office in Japan has closed but we have advised companies who wish to enter Japan and supported NMI.

In addition to such advice, we have partners in Japan who can support sales activities "on the ground".

Visit the website for more information

Telephone	07768 764176
Email	peterbacon1@btinternet.com
Website	www.electroniclinkasia.com





Embecosm works with you to select the best tools to support your hardware's intended application. The architectures we currently develop for range from the smallest deeply embedded processors to the largest high-performance computing systems including RISC-V and Arm processors.

Telephone	+44 1590 610184
Email	info@embecosm.com
Website	www.embecosm.com

Compiler tool chain development and porting. We develop open

source tool chains (principally GCC and LLVM). This may be creation of a new tool chain from scratch or upgrading and development of an existing tool chain. A particular speciality is development of tool chains for new processors pre-silicon using models of the processor. Embecosm develops tool chains for processors of all types, but has acquired a reputation for expertise with smaller embedded processors and digital signal processors (DSP), where minimizing code size and energy consumption can be as important as maximizing code speed.

Hardware modeling. We focus on processor modeling, although where appropriate we develop models of peripheral IP. This includes development of instruction set simulators using tools such as CGEN and TableGen and creation of cycle accurate models using Verilator. These models are very often used as test targets when porting compiler tool chains.

Open source tool support. Beyond development of open source tool chains, we are able to provide support for other open source EDA tools. This involves keeping the tool up to date, fixing bugs and extending the tool. We have strong relationships with many tool development teams, and most of our maintenance work is contributed upstream to official distributions. This ensures any new functionality continues to be maintained long term.

Embedded operating systems. We develop open source embedded operating systems, including embedded Linux, FreeBSD, and Free RTOS, spanning from resource-limited 8-bit devices to fully featured 64-bit systems.



EMS Particle Solutions is an industry leader in Cleanroom Technology, providing our clients with a full range of solutions in Cleanroom Monitoring / Particle Detectors; Calibration Laboratory to include repairs to manufacturer's specification. Our Company provides an end to end service in the provision of designing systems, project managing systems, full

Telephone	01223 257704
Email	info@emsparticlesolutions.co.uk
Website	www.emsparticlesolutions.co.uk

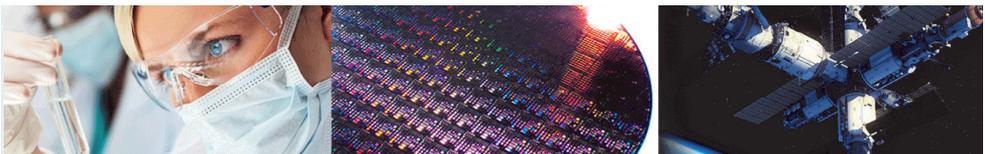
maintenance and complete validation package.

The EMS calibration laboratories are regularly audited by NSAI and PMS Inc. the proven global leader in micro-contamination monitoring ensuring that best practice and quality standards are met.

As the only company in the UK & Ireland that is backed and supported by PMS, we can uniquely provide the best cleanroom monitoring advice supported by the newest instrumentation and software to meet and satisfy the constant changes and regulations in your industry.

Our Company has sole access to the latest calibration techniques, procedures, software updates, and genuine particle detector parts supplied direct from PMS. Continuous training and support from PMS centre's worldwide, enable us to ensure our customers meet all industry requirements with minimal effect on their core business operations.

All EMS engineers regularly attend EU training courses/seminars organized by NEBB, IES, CETA and Cranfield University guaranteeing the most current up to date practices are implemented.



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ENIGMA

PEOPLE SOLUTIONS

Telephone	0131 510 8150
Email	hello@enigmapeople.com
Website	www.enigmapeople.com

We find technical leaders for Emerging and Enabling Technology industries.

Our multi-award winning recruitment consultancy specialises in contract and permanent vacancies across Electronics, Photonics, Semiconductor, Software and IoT. The quality of service we provide is what makes us Enigma People Solutions.

We value our clients and are interested in what they do, their brand, their culture, and their people. Our goal is simple, we want to deliver value to the clients and candidates we work with. We do this through diligence and dedication, delivering exceptional recruitment services and solutions.

Central to this is our award-winning, innovative, tried and tested recruitment process that enables us to reach out to the companies and people who matter in our market.

We understand that companies now need people with varied and technical experience, and each project is different. This can make the recruitment process quite tricky for companies. We work with our clients to define exact requirements and specifically adapt our recruitment approach to ensure we deliver successful solutions.

Our Search Process

Central to our success in finding technical leaders for Emerging and Enabling Technology industries is our award-winning, innovative, tried and tested recruitment process, which enables us to reach out to the companies and people who matter in our market.

Our executive search offers a three-stage consultancy, delivery and management process.

Our results speak for themselves

- 86% of CVs we send to clients are selected for interview.
- 100% of the placements we made in our electronics function in 2017 are still in the role we placed them in.

To demonstrate our confidence in our process and to limit risk for clients, we offer a 100% rebate of the retainer fee if we don't provide you with at least 2 candidates that you can interview.



enModus makes any building smart.

Our solutions turn your premises into an active part of your business by improving the efficiency of buildings, operations and people.

Telephone	+44 1291 625567
Email	info@enmodus.com
Website	www.enmodus.com

We deliver sensed data from all assets and spaces within your building to our cloud platform, and enable you to dynamically automate control processes to improve efficiency.

We help you save money, save energy, streamline your operations and improve the efficiency and quality of life of building occupants by giving you greater understanding of and control over your properties.

What we believe in

- Cutting out waste: our ambition is to eliminate wasted electricity and save money
- Partnership: we work together with our customers to deliver tailored solutions
- Information: data drives decisions and information can improve business performance.

Installing a network of new control wires in an existing building is costly and disruptive. Whereas wireless can be hugely unreliable at scale.

So, we developed Wattwave to deliver building intelligence and connectivity. Wattwave is a communications technology that uses the mains wiring, to send and receive signals between anything that is connected to that wiring and the internet. Wiring is everywhere in the building so why not use it?

SOLUTIONS



Smart Connected Energy



Smart Connected Lighting



Smart Connected Spaces



The vision of EpiValence is to be the leader in select niche chemicals by supplying sustainably superior value products to customers based on unique technology, backed by analysis and knowledgeable service.

EpiValence invest in research and development for key materials of interest to the electronics and the emerging flexible electronics market.

Our innovative products, solutions and services deliver the needs of our customers today and in the future. Working in collaboration to develop niche chemicals and innovative materials.

Telephone	+44 (0)1642 924 904
Email	info@epivalence.com
Website	www.epivalence.com

The formation of strategic alliances with our customers has enabled EpiValence to proactively investigate new technologies to meet future product needs.

THE FUTURE

EpiValence continues to be recognized by our customers as the leading supplier of niche chemicals. This means executing all processes flawlessly, effectively and efficiently while bringing more value to our customers. EpiValence strives to bring more resources closer to our customers to help make companies such as yours more successful.

The continuing success of EpiValence is founded on three principles: uncompromising commitment to the highest standards of product quality, purity, and consistency; the establishment and maintenance of genuinely interactive relationships with customers; and a leading-edge, proactive approach to the rapidly evolving electronics market worldwide. As an ISO9001 and ISO14001 certified company our quality and environmental policies are guaranteed.



EquipIC supply chain provides turnkey ASIC services for fabless semiconductor companies and 'system houses'.

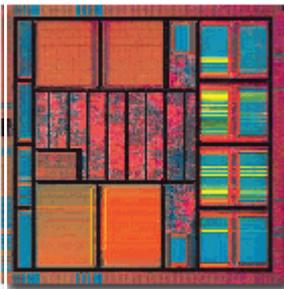


Headquartered in The Netherlands and operating internationally, we have been active in the IC market since 2002. Our services include manufacturing, test and assembly from IC prototype, through to full volume production. If required, we can also provide design services.

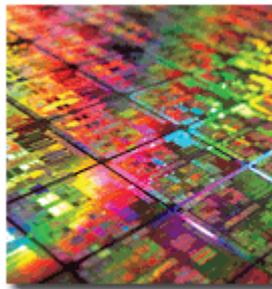
Telephone	+31 23 750 5144
Email	sales.europe@equipic.com
Website	www.equipic.com

We have extensive experience in all aspects of IC sourcing including process, design, production and testing. Our services ensure our customers are able to focus on their own product development and marketing.

We also promote a flexible business model which supports customer vendor selection: our independence from wafer foundry, test and assembly houses allows us to produce the most effective solution for our customers.



IC Design



IC Production



Assembly & Test

ANALYTICAL TOOLS & SERVICES - CONSULTANCY SERVICES - EQUIPMENT SUPPORT SERVICES - PACKAGING - PHOTO MASKS - R&D SERVICES - RELIABILITY TEST - RF RELATED SERVICES - TESTING

eVince technology

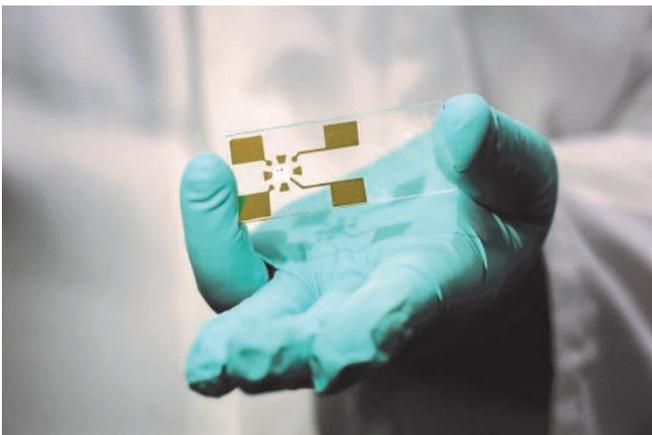
Telephone	01740 625525
Email	webcontact@evincetechnology.com
Website	www.evincetechnology.com

Evince Technology is developing breakthrough electron devices using synthetic-diamond – considered by many to be the ultimate material for electronics. But despite its huge undoubted potential, technologists have struggled to find a commercially viable way of making practical diamond devices.

We have found the solution to this problem. We have torn up the semiconductor rulebook and gone back to fundamentals, starting with the device that actually kick-started the electronics revolution at the turn of the 20th century –the thermionic valve (or tube).

Using modern semiconductor manufacturing techniques, coupled with our proprietary Embedded Electron Emission technology, we make solid-state electron devices and sources at the microelectronic scale. These unite the best characteristics of valves with the efficiencies of modern semiconductors. By fully exploiting diamond's unique properties, our devices promise performance levels that far outstrip anything available today.

Our first generation of products will focus high performance zero-wear cold cathodes. How our technology will be applied is down to the device developers and manufacturers who want to work with us to gain first mover advantage using our unique practical approach. We're open to talk business.





Exception is a European time critical and technology driven printed circuit board manufacturer.

Specialists in quick-turn, low to medium volume, standard multilayer, flex, flex-rigid and high density interconnection (HDI) solutions for a wide range of industries including aerospace, medical, telecommunications, defence and automotive.

Telephone	+44(0)1684 292448
Email	info@exceptionpcb.com
Website	epconline.com

Our technical and production skills and experience combined with fast turnaround capability, has made Exception the ideal partner of choice for customers requiring prototype, new product Introduction (NPI) and low to medium volumes.

Technical Capabilities / DFM Guidelines

- Exception PCB has an extensive range of capabilities to support our Global Customer base.
- £250K of raw materials stocked on site.
- Access to “exotic” laminates within 3 working days – Rogers/Arlon/Taconic/PTFE – if not stocked.
- DFM guidelines linked to capabilities and CAM Engineering “Traffic Light System” to indicate Standard/Technical or R&D Capabilities.
- 4 dedicated Engineers for Technical Support
- 8 CAM Engineers
- 5 Process Managers





Founded in 1999 by several of the world's top reliability and safety experts, exida is the world's leading product certification and knowledge company specializing in automation system safety, alarm management, cybersecurity, and availability.

Telephone	+44-(0)-19-266-76125
Email	info.uk@exida.com
Website	www.exida.com

With over 20 locations worldwide, exida's global presence ensures there is always someone close by ready to help your team be successful.



Our TeamCompanies around the world turn to exida for help and guidance related to functional safety, alarm management, and control system cybersecurity standards implementation.

Our team of industry leading engineers have over 500 years of combined knowledge, with extensive experience in Chemical, Petro-Chemical, Oil & Gas, Subsea, Metals and Mining, Pharmaceutical, Pulp & Paper, Power Utilities, Automotive, Robotics, and Machinery applications. This unique combination of technical depth and hands on experience enables exida to provide practical solutions to address your most difficult challenges.

exida is the choice of leading companies when it comes to implementing and achieving compliance to the global standards relating to the IEC 61508 and IEC 61511 standards for functional safety for the process industry; IEC 62443 for industrial control system cybersecurity; ISA-18.2 for alarm management; ISO 26262 for functional safety of automotive, IEC 62061 and ISO 13849 for safety of machinery, and ANSI/RIA 1506 for robot safety.

ANALYTICAL TOOLS & SERVICES - CONSULTANCY SERVICES - R&D SERVICES - RELIABILITY TEST - SOFTWARE & AUTOMATION - TESTING - TRAINING

fabrinetUK[®]

Dedicated to delivering market leading innovation and value added service excellence to our partnership customers.

Telephone	01249 814081
Email	salesenquiries@fabrinet.co.uk
Website	www.fabrinet.co.uk

Aerospace & Defence

Fabrinet UK is at the forefront of providing electronic solutions for land and flight based communications, detection, battlefield and sensor programmes

Oil & Gas Electronics

The oil and gas industry has developed to such a point that it now has a business critical need for electronics that can work reliably in harsh conditions, at much higher temperatures for longer!

On Demand CEM Production

We can help when your scheduled CEM capacity is not available or where you cannot afford the risk of missing a delivery deadline.

Automotive and Transportation Services

Supporting safety critical and information electronic solutions in the automotive and rail industry. Fabrinet UK has the experience and knowledge you can trust.

Semiconductor & IC Development

As both fab and fab-less companies vie for supremacy in their chosen niche markets, be it GPS, wireless, mobile gaming or power management and processing, the need for smaller component packages (silicon) with greater I/O becomes a critical business need and technology driver

LED Lighting Solutions

The LED Lighting industry is fast growing and Fabrinet UK are playing a key part of, supporting UK and offshore manufacture of commercial and hazardous LED lighting solutions



Telephone	01793 792909
Email	info@feabhas.com
Website	www.feabhas.com

The journey to improving your embedded software development skills starts here....

Feabhas training and consultancy improves the embedded software development skills within the world's leading electronic companies, such as Samsung, Arm, HP and Intel.

And when you improve your embedded development software skills, you can deliver better quality software, that's more reliable and can be developed more efficiently.

Feabhas already improves the embedded software development skills within the world's leading electronic companies, such as Samsung, Arm, HP and Intel. They rely on Feabhas competency assessments, face-to-face training, and consultancy, to help their embedded software developers and engineers to:

- ⇒ increase product quality and speed to market
- ⇒ reduce product failures caused by bugs
- ⇒ stay at the forefront of best practice for embedded systems development and testing.

As a result, these organisations are better placed to:

- ⇒ recruit talented software developers and identify skills gaps
- ⇒ provide practical ongoing learning and development from industry experts
- ⇒ measure the impact of the training received.

Choosing Feabhas as your partner for embedded software development improvement gives you access to:

- ⇒ Onsite team training, around the globe
- ⇒ Public training for individual engineers in the UK
- ⇒ Pre and post course assessments
- ⇒ Graduate training programs
- ⇒ Re-skilling from other software development and engineering disciplines

But it's not just about training teams or individuals. Feabhas also provides services to support organisations looking to develop or improve their own embedded software competence strategies



Telephone	+44 1295 201250
Email	Contact via the website
Website	www.firsteda.com

Established in 2002, FirstEDA is a highly responsive value-added distributor of EDA tools and training in Europe.

The company comprises a team of highly skilled engineers and is the trusted partner-of-choice for a number of EDA companies; each of which has a range of innovative and versatile products. As experienced engineers, FirstEDA ensures the solutions we promote and support are fit

-for-purpose and able to tackle today's most demanding challenges. Moreover, we work extremely closely with each of our suppliers and their product specialists so, on the rare occasion when additional support is required, we provide a fast turnaround.

FirstEDA ensures that the solutions it supplies and supports integrate seamlessly into the end-users' design flows, and that quantifiable benefits result.

As seasoned EDA engineers we have a wealth of expertise, making FirstEDA an extremely capable company.

We are engineers. We live and breathe EDA, and we understand what our customers are trying to achieve. Our considerable capabilities enable us to provide support and guidance throughout the entire development lifecycle. From top-level system design and verification down to software machine code and hardware description languages, we have hands-on experience. We support customers developing applications in a variety of sectors, including aerospace, automotive and medical. We have an impressive working knowledge of HDL languages, as well as systems languages. We are also familiar with the EDA industry's latest verification methodologies plus the methods contained therein. In addition, we are well-versed in design and verification for safety- and mission-critical applications and have a working knowledge of the industry standards. We also have considerable experience in the use of platforms for in-hardware, at-speed design verification – a requirement of DO-254.

fourteen technology

Technology was created in 2005 to supply and support British and Irish manufacturers with the best second source spare parts available.

We work closely with customers and suppliers to provide a route for buying good quality parts at a reduced cost.

Telephone	+44 (0) 7739 985345
Email	johndale@fourteentechnology.com
Website	www.fourteentechnology.com

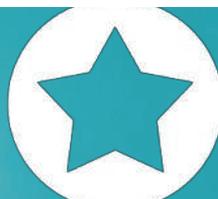
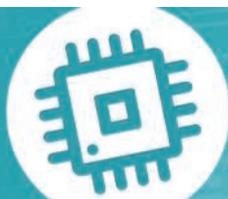
WHY FOURTEEN TECHNOLOGY?

We're all trying to save money, but sometimes finding out how and where to save money is hard to do, especially when you've got to get product out of the factory. The solution providers we work with are experts in their field and have a wide range of parts and services to help you save money on your spare parts spend.

Fourteen Technology is the exclusive sales representative for Applied Ceramics and SPM AG in the UK and Ireland. Since starting out solely in the Semiconductor industry, we now support customers from the Photonics, Research and Development and Industrial coatings industries.

HOW WE WORK

We work directly with engineers and buyers to understand their needs and help them identify where to reduce cost. We provide our customers with ongoing support and technical assistance, and we are always happy to talk about potential new cost saving opportunities.



EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES



Telephone	+ 33 (0)4 42 53 82 40
Email	contact@global-technologies.fr
Website	global-technologies-services.com

Global Technologies is a service and engineering company that designs, repairs and carries out

maintenance of mechanical and electronic sub-assemblies.

Our company has rapidly expanded its presence in France and to all European industrial sites specialising in semi-conductors owing to a reactivity and service quality that are recognised and appreciated by our customers and partners.

Global Technologies is experiencing significant growth, which will be enhanced in the future due to its reinforced expansion in Europe and abroad and to the strategic alliances which it has implemented with its partners over the past years.

The company initiated a very ambitious research and development programme in 2010 thanks to support from the banque publique d'investissement BPI – French public investment bank (formerly OSEO) and the Aix en Provence territorial community (communauté territoriale du pays d'Aix en Provence - CPA)

Our company relies on a skilled, motivated and regularly-expanding team to implement a constant innovation policy. In our company, performance is consistent with quality and well-being.

Global Technologies has implemented a sustained growth strategy for its services, based on proactive marketing activities and territorial representatives.

CONSULTANCY SERVICES - EQUIPMENT SALES AND REFURBISHMENT - EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - EQUIPMENT SUPPORT SERVICES - R&D SERVICES - RF RELATED SERVICES - SOFTWARE & AUTOMATION - TRAINING - VACUUM RELATED EQUIPMENT & SERVICES



Telephone	+33 (0)4 42 53 89 53
Email	information@ion-beam-services.fr
Website	www.ion-beam-services.com

With these rapidly evolving technologies, manufacturers must constantly develop new components and advance their core technologies.

As the result of thirty years of expertise and continuous research towards innovation, IBS gives its customers the agility they need.

Our implant services division, along with IMC™ and PULSION® implant systems, meet these new challenges with comprehensive solutions. Whether it is offering new species to implant, designing processes and equipment to keep up with the technological diversification in nanoelectronics, mastering new materials such as silicon carbide in power electronics or the manufacture of high-performance solar cells, IBS has the expertise and capability to be your best partner.

Developing innovative processes in a wide variety of implant areas calls for a global approach. IBS has built an organization capable of responding with experts at every link on the value chain of its core business: ion implantation.

Implant services supporting research institutions, small volumes production of new processes, maintenance and retrofitting of equipments, sales of spare parts and the manufacturing of cutting-edge equipment dedicated to high-tech: all drive the IBS ecosystem to provide its clients the best in ion implantation.

IBS capabilities are also enhanced through the teams' extended expertise, which enables the company to develop new expertise such as in the field of energy efficiency. IBS proves its value as a partner by producing essential process tools and technology for energy independence and CO2 reduction, such as manufacturing systems for solar panels, batteries and power components.

IBS's organization also meets the requirements of globalization in emerging markets. With deployment through offices abroad, IBS offers its clients local response and support.

CONSULTANCY SERVICES - EQUIPMENT SALES & REFURBISHMENT - EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - EQUIPMENT SUPPORT SERVICES - R&D SERVICES

IC INTELLECTUAL CAPITAL RESOURCES

Telephone	+44 (0)118 988 1150
Email	neil.dickins@ic-resources.com
Website	www.ic-resources.com

- SOFTWARE**
- SEMICONDUCTORS**
- ELECTRONICS**
- MECHANICAL**
- SUPPLY CHAIN**
- IT**
- SALES AND MARKETING**
- CREATIVE**
- EXECUTIVE**

Recruitment partner to the global technology community.

At an individual level, every person is seeking a successful and satisfying career. At a corporate level, every company seeks out the most talented people who will contribute to the organisation’s long term success.

At IC Resources our role is to ensure that these individual and communal aspirations are fulfilled through mutually beneficial introductions. Our goal is simple: to deliver value to the individuals and companies we work with. This means giving our candidates well-informed career advice and introducing them to opportunities which will help them progress their careers. For our clients, identifying talented individuals with sought-after skills who can help them succeed in a globally competitive marketplace.

For 20 years, IC Resources has been delivering efficient, authoritative and cost-effective recruitment results. If you’d like to discuss the employment marketplace, salary levels, your recruitment strategy or indeed your career, please contact us.



We are a long established and trusted manufacturer, with an enviable track record for producing high quality, safety critical products and services.

Our experience, developed over many years has enabled us to meet many demanding challenges in the

Telephone	++ 44(0)1244 831143
Email	enquiries@-icamengineering.-co.-uk
Website	www.icamengineering.co.uk

field of orbital and manual welding of MOCVD cylinders. Ongoing investment in equipment and training allows us to stay at the forefront of industry developments, maintaining a tightly controlled, yet flexible operation. We listen and work closely with our customers, providing them with high quality, cost effective products, on time.

We are proud of our track record at iCAM, and our ability to meet the ever increasing demands placed upon us. We have a highly skilled and dedicated team who are eager to provide an unrivalled service.

Scope of Supply

- Engraving, manual & laser
- Expansion testing (water jacket)
- Sampling & Pre conditioning systems (custom designs)
- Quality
- ISO Certificate
- CNC machining & wire erosion
- Manual welding
- Orbital welding, closed head & lathe
- Onsite installation welding
- Electro-polishing & Manual polishing

iCAM Engineering Ltd are an ISO 9001 registered company and a U.S. Department of Transport approved manufacturer and RIN testing facility (I337).

The safe containment of inherently dangerous compounds is of critical importance. Our production and quality control systems are key to the integrity of our vessels. Production and inspection procedures are closely monitored and audited. Our skilled production team are diligent and motivated, they understand the importance of their roles, within the process. All testing on cylinders is independently witnessed, in accordance with specification 4B. Pressure calculations and witnessing are provided by Steigerwalt Associates of Allentown P.A. Raw materials are sourced from N. American or European mills only, via approved stockholders. All materials are physically and chemically tested to ensure that properties are verified against material certification.

CONSULTANCY SERVICES - EQUIPMENT SALES & REFURBISHMENT - EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - MATERIALS / CHEMICALS PACKAGING - R&D SERVICES - TESTING - VACUUM RELATED EQUIP & SERVICES

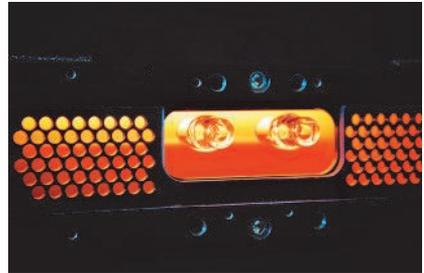


Ichor Systems Ltd. is a preferred supplier to **Lam Research** and the holder of their **Global License** to sell selected refurbished Etch Equipment models for Metal, Conductor and Dielectric applications.

Ichor's technical expertise and rigorous processes provide the **Ichor Advantage** for highest quality & lowest risk to meet customer's expectations when purchasing refurbished **Lam Research** Etch Equipment. All our systems go through the same testing and quality process expected from an OEM certified manufacturing environment.

In addition to supplying equipment **Ichor** are **Proactively Managing Obsolescence** on Legacy Platforms as this is a high priority for many manufacturers in the **IoT/MtM** space looking to manage their equipment lifecycle.

With a team of highly qualified **Lam Research** Trained Engineers, and locations around the world, we are ideally placed to meet customer requirements in the ≤200mm Equipment Market.



Product Range	
Alliance	4420XL,4520XLe, 4720XL
TCP	9400,9600
Rainbow	4420, 4520, 4520i, 4520XLe,4720
AutoEtch	490,590,690,790
TCU	Edwards 40/80 & Lam 2080

Services
Fully Refurbished System Packages
Hardware & Process Support
Contracts
Turnkey System Installations
System Training
Customer Technical Support
Process Development
Legacy System Spare Parts Supply
Obsolescence Management

CONTACT US

<https://www.ichorsystems.com/refurb>

Telephone: +44 1355 222 166

Email: otangney@ichorsystems.com

CLEANROOM SERVICES & FACILITIES - EQUIPMENT SALES & REFURBISHMENT -
EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - EQUIPMENT SUPPORT
SERVICES - TRAINING - VACUUM RELATED EQUIPMENT & SERVICES

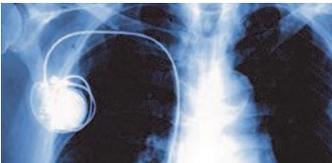


Telephone	+32 16 58 97 00
Email	info@icsense.com
Website	www.icsense.com

ICsense is Europe's premier IC design company. ICsense's core business is ASIC development and supply and custom IC design services.



ICsense has the largest fab-independent European design group with world-class expertise in analog, digital, mixed-signal and high-voltage IC design.



The company develops and supplies customer exclusive ASIC solutions for the automotive, medical, industrial and consumer market compliant with ISO9001, ISO13485, IEC61508-ISO26262.

Customer exclusive ASIC development & supply : High-end mixed-signal ASICs tailored to your needs and exclusively delivered to safeguard your competitive advantage.



ISO13485 certified ASICs for implants and wearables : High-reliability Class III medical products and ultra-low-power devices with enhanced battery life.



Automotive ASIC development according ISO26262 : One-stop-shop automotive partner for high-complexity ASICs grade (0 to 4) requiring high-reliability, zero-ppm failure rates.

Industrial ASIC design and supply IEC61508 compliant : Custom high-accuracy sensor

conditioning ASICs with on-chip parametrisable compensation.

Ultra-low-power custom ASICs for consumer : ISO9001 certified development of ultra-low-power, high-performance circuits for sensor and MEMS applications.

ANALYTICAL TOOLS & SERVICES - CONSULTANCY SERVICES - PACKAGING - RELIABILITY TEST - TESTING

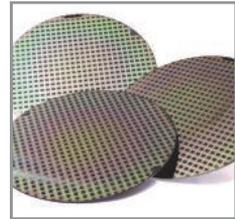
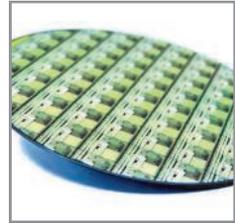


Imec.IC-link is the semiconductor manufacturing division of imec. We help innovators, entrepreneurs and universities realize their ideas in silicium by providing low-cost prototyping, volume production and system integration of electronic assemblies.

Telephone	Contact via the website
Email	Contact via the website
Website	imec-int.com/en/iclink

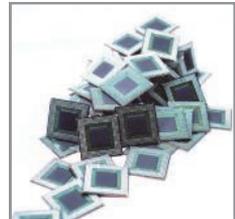
Imec.IC-link adds value across the entire ASIC value chain

- Access to leading edge foundries for any volume and supported by a world class support group.
- Build on the knowledge of imec research.
- Access our expertise in low-power design.
- Gain access to our technical support teams for technologies ranging from 0.5µm to 16nm feature sizes.



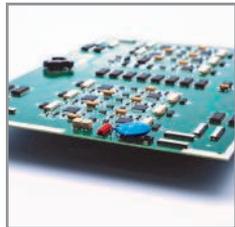
Our Services

- Prototyping
- IC Manufacturing
- ASIC Design
- PCB PDA design manufacturing



Our Specialities

- Low power design
- The Internet of Things
- Photonic integrated circuits
- Radiation hardened CMOS technology



ANALYTICAL TOOLS AND SERVICES - CONSULTANCY SERVICES - OUTSOURCED CLEANROOM SERVICES (STAFF, PROCESSES) - PACKAGING - PHOTO MASKS - RELIABILITY TEST - TESTING



Telephone	0191 500 7200
Email	enquiries@inexmicro.com
Website	www.inexmicro.com

INEX is an innovative company offering leading-edge production of micro/nano technology and semiconductor based systems. Established in 2002 as a commercial unit of Newcastle University in North East England, it rapidly grew a strong reputation for specialist manufacturing services and close collaborative relationships with partners and customers.

INEX is now a valued commercial partner for delivering next generation sensors, advanced RF/power devices and miniaturized systems.

The significant investment INEX has enjoyed over more than 10 years puts the company at an unqualified technological advantage. With full-featured processing on a 150mm line, we are seen as unique in the UK for comprehensive processing of microsystems and compound semiconductor based electronics.

In order to deliver technical excellence, INEX incorporates systematic QA principles throughout all customer engagement, design, development and production processes. We are committed to the principles of customer focus and continuous improvement within the ISO9001:2008 standard, to which our quality systems are certified.

INEX conducts routine internal audits and is open to customer audits of our quality management system and procedures. Audits have been conducted by defence prime contractors, large multi-national companies and start-ups to satisfy both customers and investors of their choice of development and production foundry partner.

Our team understands the very different challenges faced by volume production compared with development phases.

Utilising tools such as SPC, FMEA, Gauge R&R, 8D and the principles of six sigma we can ensure that we deliver quality products reliably and on time.

**ANALYTICAL TOOLS AND SERVICES - CLEANROOM SERVICES & FACILITIES
CONSULTANCY SERVICES - OUTSOURCED CLEANROOM SERVICES (STAFF,
PROCESSES) - R&D SERVICES - TESTING**

INNODYS has been serving the UK semiconductor industry for over 20 years primarily working with OEMs and FABS in wet process and security.



INNODYS were the first suppliers of FM4910 plastics into Europe and are now also integrating CO2 fire suppression systems that are FM rated as well, into FABS throughout the UK. INNODYS are suppliers of various quartz and TEFLON process baths, megasonic cleaning systems, inline heaters, and chemical analysis systems.

Telephone	01844 214050
Email	info-uk@innodys.com
Website	www.innodys.com

INNODYS also supplies a complete range of pressure switches, differential pressure monitors, and transducers for safety applications for FABS and OEMS. FM rated Stainless Steel ducting systems are also in our product range.

CORIAL is the technology leader driving innovation in plasma etch and deposition equipment for specialty semiconductor markets. The technologies offered by CORIAL include RIE, ICP, DRIE, ICP-CVD, PECVD, and ALE/ALD. CORIAL addresses a range of end-market applications including optoelectronics, failure analysis, MEMS, power devices, advanced packaging, wireless communication and integrated optics. **IMTEC** - Suppliers to the UK wet process sector for over 40 years with quartz baths, heaters, megasonics, and IPA dryers. **ARC** - Short Arc UV lamps. **UE** - Precision Sensors- pressure switches, transducers, differential pressure monitors, and flow switches both in SS and TEFLON. **KFPI** - FPI-FM rated CO2 fire suppression systems and fire Security Fab consultants. **ABB** - Near IR wet process chemical analyzers. **NuPure** - Ultrapure gas purifiers. **SIMONA** - America-FM4910 plastics for wet bench construction. **iPolymer** - Manufactures a wide range of high purity fluid handling products and engineered fabricated solutions, lines include: valves, fittings, spray devices and actuators.

FOR MORE DETAILS ON ALL OUR PRODUCTS AND SERVICES, PLEASE VISIT THE WEBSITE.

**ANALYTICAL TOOLS AND SERVICES - CLEANROOM FACILITIES & SERVICES -
CONSULTANCY SERVICES - EQUIPMENT SALES, & REFURBISHMENT -
EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES**

Inseto is a leading technical distributor of equipment and related materials to the semiconductor, microelectronic & advanced technology sectors, as well as adhesives for electronics, automotive & industrial manufacturing.



Telephone	+44 (0)1264 334505
Email	enquiries@inseto.co.uk
Website	inseto.co.uk

Our advanced equipment and materials are available from specialist technology divisions, which offer carefully selected, technically innovative, high performance products, comprising:

EQUIPMENT DIVISION: Provides fabrication, assembly, test & inspection equipment, including: manual and automated lithography equipment for exposure, resist coating and development, plus semiconductor furnaces, wafer bonders, probing systems, dicing saws and diamond scribing machines, die bonders and sorters, inspection and metrology equipment, ultrasonic wire bonding machines, plasma cleaners and etching systems, vacuum solder reflow ovens, material testers for wire pull and shear testing etc.

With several hundred equipment installations throughout Europe, our dedicated team of specialist engineers provides each of our customers with a full technical and after sales support programme.

CONSUMABLE DIVISION: Provides fabrication and packaging materials and services, plus machine assembly consumables. Our products include: semiconductor & silica wafers, sub-contract wafer bumping grinding & dicing, wires & ribbons for bonding and soldering, precision stampings & preforms, hermetic metal & ceramic packages, thick film materials, thin film substrates, thermal dissipation materials, welding electrodes, plus bonding wedges, capillaries, die collets & dicing blades etc.

ADHESIVE DIVISION: Provides technically advanced adhesives for bonding, sealing & encapsulation throughout the UK & Ireland. Exclusively representing DELO Industrial Adhesives, our adhesive division has the technical expertise to advise on all your project requirements. Products include an extensive range of UV cured or light activated Epoxies, light cured Acrylates, light / heat cured Epoxies, dual curing materials, light / Anaerobic curing Adhesives, 2 part Polyurethanes, 1 & 2 part Epoxies, Cyanoacrylates and single part Silicones.

EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - EQUIPMENT SUPPORT SERVICES - MATERIALS/CHEMICALS - PACKAGING



**ADVANCED TECHNOLOGY
FOR RESEARCH & INDUSTRY**

Inseto is a leading technical distributor of equipment and related materials to the microelectronic & advanced technology sectors, as well as adhesives for electronics, automotive & industrial manufacturing.



ADHESIVES

Bonding, Sealing & Encapsulation

A comprehensive range of technical adhesives and sealants for the automotive, electronic and general manufacturing industries



EQUIPMENT

Fabrication, Assembly & Test

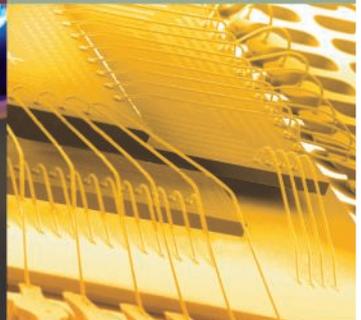
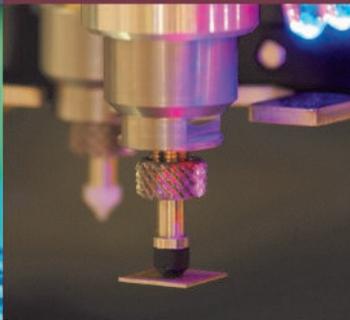
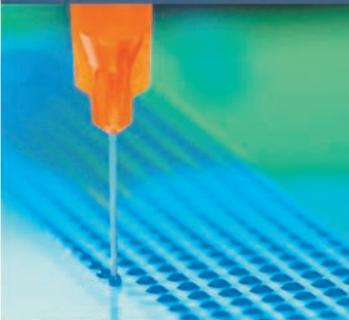
Provides fabrication, assembly and test equipment for research and production of semiconductor devices and related technologies



CONSUMABLES

Assembly Materials & Wafers

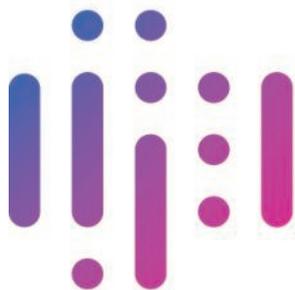
For assembly materials and machine consumable products used in semiconductor, photonic, RF and hybrid assembly



Telephone: +44 (0)1264 334505

Email: enquiries@inseto.co.uk

www.inseto.co.uk



inside
secure
DRIVING TRUST

Telephone	0141 4656330
Email	Contact via the website
Website	www.insidesecond.com

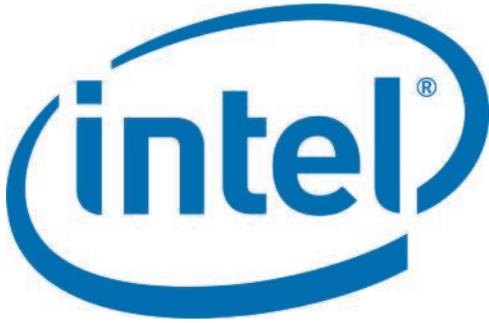
Inside Secure (Euronext Paris – INSD) is at the heart of security solutions for mobile and connected devices, providing software, silicon IP, tools, services, and know-how

needed to protect customers' transactions, ID, content, applications, and communications.

With its deep security expertise and experience, the company delivers products having advanced and differentiated technical capabilities that span the entire range of security requirement levels to serve the demanding markets of network security, IoT and System-on-Chip security, video content and entertainment, mobile payment and banking, enterprise and telecom.

Inside Secure's technology protects solutions for a broad range of customers, including service providers, operators, content distributors, security system integrators, device makers and semiconductor manufacturers.





Telephone	Contact via the website
Email	Contact via the website
Website	www.intel.com

You may know us for our processors. But we do so much more. Intel invents at the boundaries of technology to make amazing experiences possible for business and society, and for every person on Earth.

Harnessing the capability of the cloud, the ubiquity of the Internet of Things, the latest advances in memory and programmable solutions, and the promise of always-on 5G connectivity, Intel is disrupting industries and solving global challenges. Leading on policy, diversity, inclusion, education and sustainability, we create value for our stockholders, customers, and society.

Experience Intel® Innovation

We believe technology must constantly evolve to make more things possible and all things easier, smarter, and more connected than ever before.



THE NMI SUPPLIER GROUP

Benefits of being a member of the NMI Supplier Group include -

- Invitations to participate in exhibitions at manufacturing sites and NMI technical conferences.
- Preferential rates to attend and exhibit at international trade shows.
- Opportunities to attend business networking events where knowledge is shared and business opportunities can be explored.
- Trade body representation within the Electronics industry at local and national Government levels.
- Inclusion in this "NMI Manufacturing Suppliers Directory" which is circulated to our Equipment Engineering, Purchasing and Facilities Engineering contacts.

If you are a supplier and would like to join us then please contact your NMI Supplier Contact, Chris Bennett

**ADVISING AND PROMOTING
GOVERNMENT GRANTS**

**LIASING WITH EUROPEAN
GROUPS**

**LINKING SUPPLIERS TO
CUSTOMERS**

**EXPLORING NEW BUSINESS
OPPORTUNITIES**

**SHARING INDUSTRY
INTELLIGENCE**

**DEMONSTRATING
CAPABILITY**

**PROMOTE BOTH LOCALLY &
INTERNATIONALLY**



IQE has been at the forefront of the compound semiconductor industry for more than twenty-five years.

The Group is clearly recognised as the leading global supplier of advanced wafer products and wafer services to the semiconductor industry.

The wafer products that we manufacture are used by major global chip companies to produce the chips which enable a wide range of high-tech applications. The unique properties of these materials enable a diverse range of markets including wireless communications, advanced solar power (CPV), high resolution infrared systems, high efficiency

Telephone	02920 839 400
Email	sales@iqep.com
Website	www.iqep.com

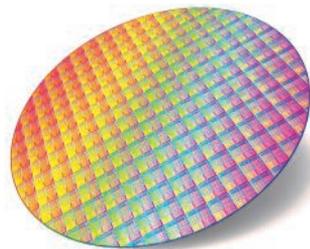
LED lighting, efficient power switching and a range of consumer and industrial applications using advanced photonic lasers and detectors.

Beyond this, IQE is also working with leading silicon chip companies and on a number of major government funded programmes to develop the next generation of technology which will combine the scale and maturity of the silicon industry with the advanced properties of compound semiconductors.

IQE's core business is epitaxy which is a technology enabler for a diverse range of end market applications.

In order to service each of its key markets, IQE operates six business units covering: wireless, photonics, InfraRed, CPV (advanced solar), power switching, LEDs and advanced electronics.

In recent years, the Group has made strong progress in its diversification strategy, delivering on a number of key milestones including: major contract announced with Philips for Vertical Cavity Surface Emitting Laser (VCSEL) applications across multiple end market applications, world's first 150mm InSb product launched for infrared applications, qualification of CPV materials with Solar Junction on IQE's high volume production platform.



MATERIALS/CHEMICALS - OUTSOURCED CLEANROOM SERVICES (STAFF, PROCESSES) R&D SERVICES



ITDev delivers engineering excellence through fully managed software and electronic design services. We thrive on building relationships, developing insight and delivering value to our clients.

Specialists in embedded software, electronic engineering and systems engineering, our engineers have a wealth of experience in a wide range of commercial and open source technologies, including C, C++, Python, PHP, Java, VHDL and SystemVerilog for FPGAs.

From our UK based offices, we develop:

- embedded systems
- device drivers for Linux and Android operating systems
- mobile applications (e.g. for Android)
- PC and web-based applications
- FPGA solutions

We are defined by a set of shared values: Empathy, Trust, Considered, Passionate and Smart. These drive our decision making, the way we work and our relationship with our clients, suppliers and peers.

What does this mean for you? We will...

- work to find the best fit for you and your project
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- architect our designs with care and make use of continuous integration and test automation to deliver high quality work as efficiently as possible
- impress at every opportunity, build our knowledge and experience so we can solve your problems as efficiently and quickly as possible
- take a smart approach to projects, reducing risk, delivering value sooner and providing more flexibility

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IXYS is now part of Littelfuse.

Together, IXYS and Littelfuse will leverage their combined technology portfolios and expertise to enhance customer value.

Since the early part of the 20th Century, the Company has been at the forefront of power semiconductor design. In the early 1920's we introduced the worlds first commercial rectifier and have continued to push ahead bringing ever more advanced power management solutions to market. In almost every corner of the globe IXYS UK products are hard at work keeping industry moving forward.

Supporting a truly worldwide and incredibly diverse market place, IXYS UK Westcode Ltd has evolved into one of the worlds leading manufacturers of very high power semiconductors.

A sincere commitment to our customers and a passion for technical excellence will ensure that our future is every bit as bright as our past.

Headquartered in Milpitas, CA, and Leiden, Netherlands, IXYS has gained a worldwide reputation as a premier power semiconductor manufacturer. Its diversified product base of specialized power semiconductors, integrated circuits and RF power is utilized by more than 2500 customers worldwide, ranging across industrial, transportation, telecommunications, computer, medical, consumer and clean tech markets.

PRODUCTS

- Power Semiconductors
- Integrated Circuits
- Microcontrollers
- RF Power & Systems
- Green Energy



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KMG ULTRA PURE CHEMICALS FOR SECURITY IN HIGH-PURITY

KMG Ultra Pure Chemicals (UPC) are a world-wide producer and supplier of unique ultra-pure chemicals to the semiconductor and microelectronics industries. We have production sites and warehousing located in

France, Italy, Singapore, United Kingdom and the United States.



Our market is the supply of chemicals to leading edge producers of Semiconductor Wafers, Semiconductor Devices, MEMS manufacturers, wafer reclaim companies, Solar Cells and Photomask companies. The chemicals are also used in the Plastic Electronics industry, the production of pharmaceuticals and other high tech industries, in which there is a need for consistent high quality, security of supply and innovation.

Customer focus and building strong long-term relationships has always been one of our key strengths. The management team and operational personnel have a wealth of experience and skill sets to ensure that we continue to have satisfied customers. We offer an open

approach with excellent customer service, technical support and innovation.

The acids, bases, solvents, developers and bespoke mixtures we supply meet all the cleaning, etching, stripping and photolithographic needs of the semiconductors industry. KMG Ultra Pure Chemicals is the company for consistent quality, cost effective processing solutions and world class service to meet the demands of tomorrow's technology.

ANALYTICAL TOOLS AND SERVICES - CONSULTANCY SERVICES - MATERIALS & CHEMICALS - R&D SERVICES - TRAINING

LeanIP

Telephone	0141 255 2001
Email	info@leanip.co.uk
Website	www.leanip.co.uk

Lean IP is a full-service UK and European Patent Attorney firm.

We also draft, file and prosecute US patents. We have experience in software, business methods, sensors, electronics, semiconductors, photonics, energy, high-value manufacturing, nanotechnology and physics in general. We advise on patent searching, corporate IP management and due diligence. We advise on trade marks, design and copyright. At Lean IP our vision is to build a continuously improving firm of patent

attorneys entirely focused on the creation of value for our clients.

YOUR INVENTIONS

- Inventions are valuable assets.
- Patents increase the valuations of businesses and deter their competitors.
- Protecting these valuable inventions is important.

WHY LeanIP?

- Our improved patent process more effectively protects market share and sales revenues.
- Our focused and robust patent applications deliver greater ROI and allow you to obtain granted patents more cost effectively.

OUR SOLUTION

- Our innovative Lean Patent process saves our Clients both time and money.
- More accurate data-driven decision-making gives our Clients greater control of the patent process and their IP budget.

CREATING VALUE

- Our proven lean methodology maximises the value of your patents.
- Our commercially targeted patents provide optimal deterrence whilst increasing patent valuation.

LeanIP's APPROACH

- Lean production has transformed the automotive industry - now we are transforming the patent industry.
- We adopt customer-focused lean methodologies to improve both the patent process and our service.



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EQUIPMENT SUPPORT SERVICES

Lorit Consultancy provides functional safety and regulatory compliance consultancy and training to organisations in the Automotive, Medical and Aviation industries.



With many years of experience in developing hardware and embedded software prior to moving into the sphere of functional safety, we

have a real understanding of the demands placed upon development teams. This, coupled with an in-depth knowledge of regulatory standards, makes us the ideal partner to support companies in ensuring their projects meet all safety and regulatory requirements. From the concept phase through to start of production, we can assist you with the complex exercise of international standards compliance.

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Email	info@lorit-consultancy.com
Website	www.lorit-consultancy.com

Services:

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- Failure Modes and Effects Analysis (FMEA)
- Embedded software reviews, including architecture, tool selection and metric compliance
- Reliability Engineering
- Hardware reviews including metrics such as Failure Modes, Effects and Diagnostic Coverage (FMEDA)
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- Training

We offer extensive working knowledge of the following normative standards:

Medical	IEC 60601-1, IEC 62304, ISO 14971, IEC 62366-1, ISO 10993, ISO 13485, CFR 21 Part 820, AAMI TIR57
Automotive	ISO 26262, IATF 16949, Automotive SPICE®, SAE J3061, IEC 61508
Aviation	DO-178C and DO-254
General	ISO 15504 and ISO 9001

CONSULTANCY SERVICES - TRAINING

LSA

Loughborough Surface Analysis Limited (LSA Ltd) is a strongly established and well-known laboratory specialising in surface analysis.

Telephone	01509 260779
Email	enquiries@LSALtd.co.uk
Website	www.LSALtd.co.uk

We provide a responsive, confidential and professional contract surface analysis service to both the industrial and academic sectors.

Our approach is people centric, to actively encourage interaction and participation during the analytical process, with the belief that personal care and attention is as important as technical ability. Confidentiality is of the upmost importance at LSA Ltd, and thus all of our analysis is undertaken with the strictest confidence.

METHODS

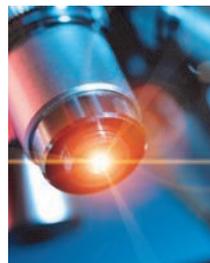
SECONDARY ION MASS SPECTROMETRY (SIMS) - A powerful analytical technique sensitive to most elements, with the ability to detect dopant or impurity species at concentrations as low as parts per billion (ppb).

SCANNING ELECTRON MICROSCOPY WITH ENERGY DISPERSIVE X-RAY DETECTION (SEM-EDX) - An SEM is able to image samples with high spatial resolution and magnification. Elemental bulk analysis is also easily achievable.

AUGER ELECTRON SPECTROSCOPY (AES) - A surface sensitive technique whereby the energy of emitted Auger electrons is used to identify the elements present in a sample surface.

SURFACE PROFILOMETRY - A stylus is run across the surface of the sample to determine the height difference between regions.

WHITE LIGHT INTERFEROMETRY - The scattering characteristics of white light are used to quantify height differences in a sample. This can be used to determine step heights or quantify the depth of SIMS craters.





LUMENTUM

Telephone	+44 (0)1803 698600
Email	support@lumentum.com
Website	www.oclaro.com

Lumentum delivers innovative photonics to accelerate the speed and scale of cloud, networking, advanced manufacturing, and 3D sensing applications



The Lumentum portfolio of innovative photonic products enables agility, flexibility, and speed throughout communications networks. Lumentum products address the staggering and growing amount of data traversing networks and being processed and stored in large data

centers. Much of this data traffic is driven by cloud-based applications including streaming video to mobile devices, PCs, and smart TVs.

Leveraging its photonics expertise, Lumentum produces high-performance commercial lasers, including kilowatt fiber lasers and ultrafast solid-state lasers used in the manufacture of products with exacting standards including automobiles, consumer appliances, semiconductor chips, mobile phones, tablets, and PCs.

Lumentum is a leader in providing diode lasers for high-volume 3D sensing applications in the gaming and PC markets and is now driving the technology to enable adoption in mobile devices and other next-generation applications.



R&D SERVICES

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Website	www.lynbond2000.com



LYNBOND 2000 was formed in 1988, as agents for a number of companies providing equipment for the electronics industry.

We felt that with the benefit of our experience we could source and supply consumable products targeted at specific work functions. To highlight this, we subsequently reformed as LYNBOND 2000, the company now in operation today. Operating in the UK and Europe supplying to many industries .

Lynbond 2000 is committed to providing a professional and personal service offering the most comprehensive range of Cleanroom consumables, disposable apparels and reusable products for controlled environments and safety products . Equipment range consists of anti-contamination

photoresist extractors, refurbished parts for SVG track equipment, external level sensor systems, stainless steel pressure vessels, microscope incubators and temperature control units.

Our web-based platform provides a quick reference to our core stock of products, however, Lynbond 2000 can source a vast array of products not shown on our website through our network of global suppliers and partners. If there are any products that you require within your cleanroom or controlled manufacturing areas please contact us directly at solutions@lynbond2000.com



- Non-woven wipers from class 1 (compatible) to class 1000
- Facemasks
- Tacky mats
- Gloves from class 10 to class 1000
- Conductive and anti-static assembly gloves
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- Finger cots
- Coveralls and lab coats (polyolefin and polypropylene)
- Launderable cleanroom garments (from class 1)
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- Safety glasses
- Over shoes and over-boots
- Swabs
- Clean room pens

CLEANROOM CONSUMABLES



MAGNA-POWER

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Website	www.magna-power.com

Magna-Power designs and manufactures robust programmable power products in the USA that set industry standards for quality, size, and control.



The company's experience in power electronics is reflected in its 1.25 kW to 2000 kW+ product line, quality service, and reputation for excellence. Today, you will find Magna-Power's standard products at its thousands of customers worldwide, aiding in the manufacture of

electric vehicles, simulating solar arrays for development of inverters, steering magnets for particle accelerators, powering radar systems, driving traction controllers for locomotive development, or at a wide range of Universities for cutting-edge energy research.

Magna-Power Electronics products are proudly made in the USA at the company's vertically integrated, company designed and owned 73,500 sq. ft headquarters in Flemington, New Jersey. All engineering, manufacturing and North America product servicing is performed at the company's headquarters.

Magna-Power Electronics utilises vertical integration in its manufacturing process for complete control over quality, cost, and lead-time of its made-to-order products. As the company has grown, more operations have been internalised.

Vertical integration enables Magna-Power to manufacture a very broad line of sophisticated electronic products, while still maintaining industry leading lead-times. Housing engineering and manufacturing teams in the same facility forces strong collaboration between the two teams for continual process and product improvements.



ELECTRONICS COMPONENT MANUFACTURING

We are a specialist recruitment consultancy, with a global reach, that is aligned to the World of engineering and technology.



At Marcus Webb we believe it's important to listen and really understand what our clients and candidates need and want. Furthermore, having a good understanding and genuine interest in technology means we have a good grasp of what they actually do!

The company was founded by Marcus O'Donnell in December 2015, an engineering graduate and technology recruiter since 1998.

With a proven global reach, we proactively seek talent across the full range of design, development analysis, test and validation in key areas such as:

- Mechanical Engineering
- Electrical & Electronic Design
- Software & Control Systems Engineering
- Systems Engineering
- Functional Safety / Reliability Engineering

Our main alignment is towards innovation and product development. Hence, we are mostly focused on R&D and design skills, but we like to think we can cover most aspects of the product development lifecycle and this sometimes means going above and beyond.

KEY MARKETS

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"Being successful in recruitment is about gathering useful information and knowing what to do with it. Hence knowledge is the key to success and if we understand then we can help and that ultimately benefits the professionals we work with and the companies who hire them!"



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MASER Engineering is an independent engineering service company. Since 1993 we have offered Reliability Test and Failure Analysis Services to the semiconductor and electronic systems industry.

Whether your company is active as Fabless Semiconductor Manufacturer, IC Design House, Electronic Manufacturing Service (EMS) Provider or Original Equipment Manufacturer (OEM) we can support you with your daily Reliability Test or Failure Analysis challenges.

Maintaining and improving our quality level is one of our strengths. Since June 2000 we are ISO9001:2015 certified. In September 2005 we proudly became the first company in the Netherlands with an ISO/IEC 17025:2005 accreditation for reliability tests and analysis of electronic components and electronic (sub)systems.

We have the equipment and know-how available to perform timely & efficient reliability tests and failure analysis on your semiconductors, electronic components, (sub) systems or complete products.

**ANALYTICAL TOOLS AND SERVICES - CONSULTANCY SERVICES - PACKAGING
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Megatech Limited is the largest independent supplier of equipment and services to the semiconductor and thin film industries in the UK.

Established in 1973, the company has built a well-founded reputation for the supply of quality products, in-depth technical expertise, and excellent customer service.

As an exclusive UK outlet for a number of US and European companies, Megatech sells to end users, researchers, and OEMs as well as supporting all products with both field and in-house service.

Megatech have a modern headquarters in the Midlands with engineers located strategically around the UK.

Megatech Europe Limited has offices and stock facilities in the ROI for Mainland Europe Customers and MegaCold LLC has Cryopump Sales and Service facilities in the USA for US , Canada and South America. We also have MegaCold Sales agents in SE Asia.

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sales@megatechlimited.co.uk

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- Brooks Instrument
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Since 2003, memsstar has served as Europe's premier process and equipment supplier of etch and deposition solutions for semiconductor, MEMS and related technology manufacturing processes. The company innovates best-in-class solutions based

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memsstar offers full manufacturing, design, process engineering and demo capabilities. ISO 9001 certified, the company is recognized for its remanufacturing excellence, technology development, process guarantees, as well as extensive service capabilities to support its full range of remanufactured semiconductor and proprietary MEMS equipment.

memsstar fosters a collaborative spirit with our customers, research partners and industry organizations, sharing our knowledge, experience and expertise to support the development of the semiconductor and MEMS industries.

We create value for our customers and stakeholders by delivering innovative, proven and cost-effective products and services used in the development and manufacture of microelectronic devices.

We are the wafer fab equipment technology partner of choice for semiconductor and global MEMS organizations by supplying high-quality proprietary and remanufactured etch and deposition equipment and services.

memsstar innovates and delivers etch and deposition equipment, as well as process solutions for semiconductor and MEMS manufacturing and R&D. We support our customers from lab to fab – with equipment and processes based on proven platforms.

How memsstar serves the global MEMS markets:

- Developed MEMS-dedicated processes for manufacturing using semiconductor equipment
- OEM for memsstar® tools optimized for MEMS-specific manufacturing

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We enable companies to develop better electronic products faster and more cost-effectively. Our innovative products and solutions help engineers conquer design challenges in the increasingly complex worlds of board and chip design.

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Moortec's in-chip sensing solutions support the semiconductor design community's demands for increased device reliability, lifetime and enhanced

performance optimization, enabling schemes such as DVFS, AVS and power management control systems. Moortec provides excellent support for IP application, integration and device test during production.

Moortec's high-performance analog and mixed-signal IP designs are delivered into ASIC and System on Chip (SoC) technologies within the Automotive, AI, IoT, Datacenter, DTV, HPC and Networking sectors.

Moortec are proud to work with a broad range of customers from all over the world who are working in a multitude of different applications areas. Many of our key customers are based in California's Silicon Valley (Santa Clara, San Jose, Palo Alto, Mountain View, Cupertino, Milpitas, Sunnyvale and Los Altos) as well as Austin and Boston. We also work with customers in China (Beijing, Shanghai and Shenzhen), Israel (Tel Aviv), Japan (Tokyo), Taiwan (Taipei) and South Korea (Seoul), Russia (Moscow). We also have a growing number of customers in the UK (Cambridge, Bristol & Edinburgh) and mainland Europe (France, Italy & Germany).

Current customer applications include Consumer Electronics (Digital TV, Mobile, Notebooks, SSD), Datacentre (AI, Networking, Enterprise, Cloud Computing & High Performance Computing), IOT (Wearables, Smart Home & Smart City) and Automotive (Infotainment, Collision Avoidance, Auto Driving). Another emerging application area is Crypto-Currency Mining (Bitcoin, Litecoin, Ethereum etc).



VISIT WWW.MOORTEC.COM FOR MORE INFORMATION



The Newport Wafer Fab facility has unparalleled experience with analog/advanced power and compound semiconductor technologies.

Telephone	01633 810121
Email	Contact via the website
Website	www.newportwaferfab.com

Current capacity is 32,000 wafer starts per month of 0.18 μ m to 0.70 μ m wafers with an expansion capability within the existing envelope to 44,000 wafers starts per month.

The site has developed and deployed a wide range of semiconductor technologies ranging from MOSFETs / TIGBTs using wafer thinning methods to CMOS, analog and compound semiconductors.

NWF offers fast time to production due to Newport's experience in ramping technologies and developing derivatives.

Semiconductor processing on silicon has been used for 50+ years. Combinations of new materials from the periodic table have now been developed which have the following benefits:

- Improve silicon performance by 50x for higher speeds, lower losses and lower battery consumption.
- Can be used for different applications such as light sensing and emitting across a large spectrum (photonics), RF applications, sensors and medical applications where battery life is critical

ADAPTABLE LOADING : The facility has a strong capability in managing complex loading requirements. Products range from high-volume automotive applications to low-volume specialized end-user applications.

PROCESS INTEGRATION : Newport Wafer -Fab transfers MOSFET / TIGBT / Silicon Photonics processes and can develop derivatives processes and devices from initial concept/design stage through production. Initially acting as a wafer foundry (1992-2002), the site has well developed effective systems for technology transfers.

AWARD WINNING FAB : Newport has received multiple industry awards including the United Kingdom's NMI factory of the year and the EEF Environmental Achievement Award, EEF Energy UK Award and numerous ESTNET Awards for Engineering talent.

CS CONNECTED COMPANY : Newport Wafer Fab are a critical component in the SE Wales Compound semiconductor cluster.



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Website	www.norcaluk.com

Nor-Cal UK manufacture a wide range of high and ultra high vacuum components including fittings, isolation and throttling valves, foeline traps, heaters and custom parts.



Ultra high vacuum components

Nor-Cal UK is in its 16th year in the UK having previously worked via distributors for some 10 years.



Precision engineered high vacuum products

Although 'Nor-Cal' is almost a household name in the semiconductor sector, we work hard to maintain our

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EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - VACUUM RELATED EQUIPMENT AND SPARES

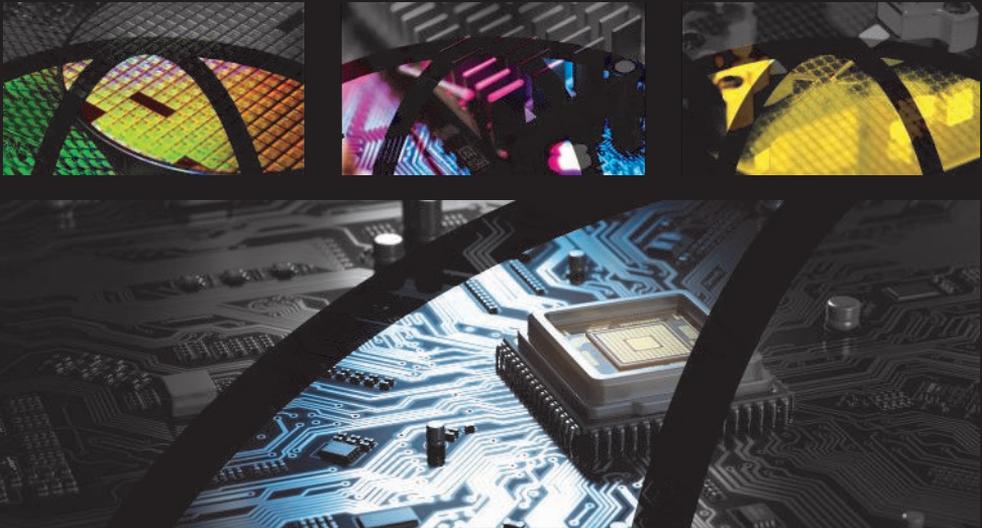


Total Lithography Solutions

NtekLitho was established in 2003 by CEO Gordon Macintyre. With over 80 years combined experience in the semiconductor industry we are committed to providing a full line of services which include but are not limited to; refurbished equipment sales, refurbishment services, service contracts, replacement parts and bespoke training.

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Email	solutions@nteklitho.com
Website	www.nteklitho.com

We pride ourselves on being one of the leading aftermarket supplier of these services and we believe that no other aftermarket supplier in the world has the unique focus or experience in working specifically with Nikon steppers. Whether you are looking for a specific or a specially engineered part NtekLitho can meet and exceed your needs and expectations.



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OutSecure Inc

Telephone	1-(203)8168061
Email	pamela.gupta@outsecure.com
Website	www.outsecure.com



OutSecure offers holistic Security Risk assessment services to identify security weaknesses and vulnerabilities in the entire ecosystem of a product or a platform.

We use a mix of industry standard tools, guidelines (such as OWASP, CWE and NIST) as well as manual security assessment methods to report vulnerabilities, and make recommendations on how to resolve them.

We specialize in:

- Embedded, IoT and Wearable Technologies
- Mobile Platforms (Android and iOS)
- Client Applications
- Web Applications & Web Services
- Cloud APIs and backend services
- Global Privacy Planning, Assessment
- Cloud APIs and backend services
- Global Privacy Planning, Assessment

ANALYTICAL TOOLS & SERVICES - CONSULTANCY SERVICES - TESTING - TRAINING

OXFORD BROOKES UNIVERSITY

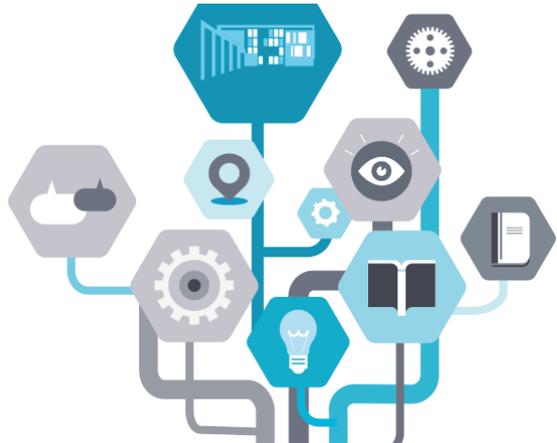
Set in a historic student city, Oxford Brookes is one of the UK's leading modern universities and enjoys an international reputation for teaching excellence and innovation as well as strong links with business and industry.

Telephone	+44 (0) 1865 741111
Email	Contact via the website
Website	www.brookes.ac.uk

A key area of research within The Department of Computing and Communication Technologies is the Advanced Reliable Computer Systems (ARCoS) group carries out leading research in the design, test, and verification of reliable computer systems.

This includes architectural and systems level VLSI designs; security, power, and process variation aware designs; algebraic modelling of hardware; fault tolerance and testability.

Application areas include reliable and efficient systems in submicron and nano technology, attack tolerant crypto hardware for improved security, mobile and wearable electronic devices and reliable remote sensors. The ARCoS group also undertake contract research for industry.





Telephone	+353 (0)1 2958890
Email	info@patinalighting.ie
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Established in 2002 as a lighting design and manufacturing company, Patina has developed a range of innovative smart lighting technologies that have recognised exclusive intellectual property rights. Specialising in innovation, optical design and energy efficient lighting optimisation, ensures Patina products are much sought after around the globe.

At Patina we work with Indigenous companies and some of the world’s leading Multinationals across the globe, developing innovative turnkey lighting solutions that offer exceptional energy and cost savings, while also ensuring the optimum lighting environment for any particular situation. Situations might include the working environment, safety requirements, aesthetic requirements, functional needs and much more. View the Patina Solutions Finder to see our portfolio of work.

We continually develop products that are smarter, more efficient and mechanically appropriate to meet changing market requirements along with ever advancing light sources and optical developments.

We pride ourselves in producing a superior product which is fully tested to ensure our customers benefit from a quality lighting experience together with luminaire and light source longevity.

We consistently review our manufacturing and design processes in

order to achieve more competitive and energy efficient solutions through the utilisation of new technologies and materials.

The user should experience and benefit from high efficacy light sources without being subjected to inherent disability or discomfort glare. To that end, Patina’s modern product portfolio utilises unique means of indirectly providing illumination through our optical processes.

SEE OUR WEBSITE FOR MORE INFORMATION



Pegasus Chemicals is a UK company and our core business is the development, manufacture, purification or transfil of high purity precursors to support Atomic Layer Deposition (ALD) and Chemical Vapour Deposition (CVD).

We specialise in small scale manufacture and scale up of high purity precursors, purification and high purity transfil for niche applications. Our product portfolio is wide and varied with a specific focus on intrinsic purity and consistency. Our in house manufacturing and analytical capabilities to measure ppb level metals and oxygen impurities,

Telephone	01244 521869
Email	info@pegasuschemicals.com
Website	www.pegasuschemicals.com

ensure the delivered product is suitable for the application as required.

We provide technical support to develop precursors with custom made packaging for specific applications, or we clean, prepare and refill customer packaging. Our technical and product application knowledge in ALD and (MO)CVD applications has been honed through the manufacture and supply of specialist chemistry with many years experience. Our technical service team is available to discuss your deposition requirements to tailor the product with the application.

- High purity precursor manufacture
- Purification and transfil
- Precursor design
- Refill of customer owned containers
- Design of custom built precursor delivery solutions
- Technical application knowledge
- Global supply

The global requirements for technology innovation are more demanding with greater emphasis on smaller, faster and smarter ways of supporting our day to day living. To enable technology to support these developments, the supply of small scale innovative chemistry in specialist packaging is vital. Primary research and development within the material science and semiconductor markets in the UK and EU has specific emphasis on emerging technologies. Pegasus Chemicals is a critical part of the core European supply chain to enable EU innovation and long-term growth in emerging technologies. Our mission at Pegasus is to achieve excellence in service, quality, technical expertise and value for our customers.

Telephone	0808 1800 358
Email	info@phaedrus.com
Website	www.phaedrus.com

As the Internet of Things begins to explode, it is clear that system security is becoming a priority. As the UK's leading specialist in supporting engineers at all stages of embedded safety

critical and high-integrity projects, Phaedrus Systems is uniquely positioned to work with companies to create the development process best matched to their needs.

Consultants have experience working on automotive, rail and aerospace applications, meeting standards such as IEC 61508 SIL4, and D0178B.

When it is appropriate Phaedrus will recommend other tools than those it represents. The website also holds an expanding library of documents covering the issues in developing secure systems.

Backing this are tools for all stages of a project

- Requirement definition
- Capture
- Modelling and tracking
- Estimation software
- SIL3 RTOS and run-time RTOS analysis tools
- Hi-rel embedded database
- Software and compiler analysis
- Middleware including SSL stack
- Test, verification and debugging tools



When it is appropriate Phaedrus will recommend other tools than those it represents. The website also holds an expanding library of documents covering the issues in developing secure systems.



Phasix is an established semiconductor device ESD test centre located in Hampshire, Southern England.

We have been involved in ESD test for more than 30 years with extensive experience of developing and maintaining ESD test equipment.

We also have experience of how the various Standards Committees work.

Our business philosophy is based on adding value to our customers businesses by taking care of aspects of their work which are not necessarily part of their core competence.

Phasix focuses on Semiconductor Quality and Reliability, helping our customers to ensure that their products are sufficiently robust to guarantee reliability in their intended end-use.

We understand our customers need for ESD testing in a timescale which fits into their, often very tight, design schedule. For this reason we offer a highly responsive and flexible service with an emphasis on getting the maximum useable information about ESD sensitivity in the shortest practicable time.

Telephone	+44 (0)1420 565634
Email	sales@phasix.co.uk
Website	www.phasix.co.uk

CONSULTANCY SERVICES - EQUIPMENT SUPPORT SERVICES - RELIABILITY TEST TRAINING



Telephone	+44 161 930 4800
Email	mtollan@photronics.com
Website	www.photronics.com

A Global technology solutions leader established in 1969, Photronics offers a complete array of photomask solutions for customers manufacturing semiconductors, integrated circuits, flat panel displays, optoelectronics, sensors, MEMS, data storage components and many other applications.

Photronics local support centre based in Manchester UK, manufacturing operations in Bridgend UK and Dresden Germany offer local, friendly service and support to our European customers. With 11 global manufacturing facilities across Europe, North America and Asia, customers have access to our global network via local support.

Photronics supports wide-ranging technology needs, from Copy masks and routine wafer production at 250nm and

above to advanced sub-wavelength reticle applications at 14nm and below including EUV. Innovative service initiatives such as our proprietary design software CyberMask™ and global manufacturing control system MaskTrac™, customers can easily place orders, review SPC data, and track delivery status. Front-end data handling experts work 24/7 to prepare mask data and rapidly begin the manufacturing process helping Photronics define the standard for customer service in the photomask industry.

Investments in new technology and partnerships have propelled Photronics to the forefront of both IC and FPD photomask manufacturing. We're continuously adding tools to support growing requirements – expanding both capacity and capability in our local and global network. Our robust technology solutions are recognized worldwide and are allowing customers to build state-of-the art technologies in a cost effective manner.



PHOTO MASKS



Pulse Power and Measurement Ltd (PPM) was founded in 1994 as a distributor of pulse power systems, power electronics components and EMC test equipment. Since 1995 and the acquisition of Electro Optic Developments Ltd, PPM has manufactured RF over fibre equipment.

Telephone	01793 784 389
Email	sales@ppm.co.uk
Website	www.ppm.co.uk



Today, PPM designs and manufactures a wide range of RF over fibre systems, which allow RF electrical signals to be transmitted over fibre optic cables. PPM now has over 24 years of experience in the development, manufacture and distribution in a wide range of world-class products.

The company has developed into the four current-day divisions. ViaLite

Communications, PPM Test and PPM Systems are specialists in the RF over fibre industry. PPM Power is the fourth division and is a distributor for pulse power and power electronic components.

PPM has been an accredited "Investors in People" organisation since 2004 and sees the training and development of its people as a key element to the success of its business model. In November 2016, PPM was very proud to receive the Gold accreditation of Investors in People.

Guaranteeing its quality processes, products and workmanship, PPM is certified to the latest ISO quality standard: ISO 9001:2015. The company has been certified to ISO 9001 since 2005.



EQUIPMENT SALES & REFURBISHMENT - EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - EQUIPMENT SUPPORT SERVICES - RF RELATED SERVICES - SOFTWARE AND AUTOMATION - TESTING

PRESTO

Engineering



Presto Engineering provides outsourced operations for semiconductor and IoT device companies, helping its customers minimize overhead, reduce risk and accelerate time-to-market to give them a vital competitive advantage. The company is a recognized expert in the development of industrial solutions for RF, analog, mixed-signal and secured applications – from tape-out to delivery of finished goods.

Presto’s proprietary, highly secure manufacturing and provisioning solution, coupled with extensive back-end expertise, gives its customers a competitive advantage. The company offers a global, flexible, dedicated framework with operations across Europe, the USA and Asia.

sales-europe@presto-eng.com

www.presto-eng.com



ANALYTICAL TOOLS & SERVICES - CONSULTANCY SERVICES - ELECTRONICS COMPONENT MANUFACTURING - R&D SERVICES - RELIABILITY TEST - RF RELATED SERVICES - TESTING



Quartztec Europe is a TechWorks Award Winning Supplier of fabricated Quartz Glass, Thermocouples, Advanced Ceramics and SiC Coated Graphite Parts for your applications (including Epitaxy).

Telephone	01355 244456
Email	mark.harland@quartztec-europe.com
Website	www.quartztec-europe.com



We are the largest Quartz Fabricator in the UK employing c.40 staff. Formally a Heraeus Facility we still maintain the same high level of expertise in the products we produce, with our facility being one of the most advanced Quartz Fabrication factories in Europe.

We fabricate Quartzware for the majority of OEMs, including TEL, ASM, Aviza, Tempres, Centrotherm, HiKe, building for tools using up to 12" wafers. We can also supply Quartz Tanks for wet etch applications and parts used in dry etch / sputter etc.

Our Thermocouple Product line allows us to provide New, New for Old and Full Calibration Services. All our T/Cs are provided with UKAS certification.

In addition to our Product Portfolio we are pleased to offer:

- ◆ Quartz Repairs
- ◆ Technical Support
- ◆ Cost of Ownership Support Programmes
- ◆ Quartz Parts Cleaning

Whether your requirements be for OEM product, bespoke product, repairs or modifications, we see ourselves as the market leader for supplying the full range of parts with a first-class customer service experience.



EQUIPMENT SALES AND REFURBISHMENT - EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - MATERIALS / CHEMICALS - R&D SERVICES



Reltech Limited founded in 1976 is an Independent Test Laboratory, Burn-In and HTOL system manufacturer serving the Semiconductor and Microelectronics industries.

Telephone	+44 (0) 1453 541 200
Email	Contact via the website
Website	www.reltech.co.uk

Reliability and Qualification test services are provided to industry leading Fabless Semiconductor companies and Integrated Device Manufacturers.

Reltech's vast experience in qualification testing and HTOL system design and manufacture enables it to offer its customers full turn-key solutions covering all aspects of semiconductor reliability, including qualification planning, die and package level testing such as High Temperature Operating Life (HTOL), Highly Accelerated Stress Test (HAST), Low temperature Operating Life (LTOL) and Temperature Humidity Bias (THB).

Reltech develops, designs and manufactures all of the required test hardware and software used for the complete qualification testing of its customer's products prior to volume manufacture. For Board Level Reliability, Reltech provides a full HALT turn-key solution including consultancy, training, product analysis, strategy, HALT and Qualification testing.



RELIABILITY TEST



Telephone	01453 524524
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Website	www.renishaw.com

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 dentistry and brain surgery. It is also a world leader in the field of additive manufacturing (also referred to as metal 3D printing), where it is the only UK business that

designs and makes industrial machines which 'print' parts from metal powder.

The Renishaw Group currently has more than 70 offices in 35 countries, with over 4,000 employees worldwide. Around 2,800 people are employed within the UK where the company carries out the majority of its research and development and its manufacturing.

Our approach to corporate social responsibility (CSR)

To effectively manage the social and environmental factors affecting the business and, in turn, their impact on its reputation and profitability, Renishaw has a formal CSR management structure to provide a better focus for the Group's activities.

To ensure we continue to evolve our approach to CSR in a structured and coherent way, we have developed a CSR strategy through dialogue with our CSR team, Board and management across the business. We recognise that to become a company that creates net value within our value chain we will have to continue on our CSR journey. Our many years of CSR activities have given us a good foundation to build on as we look forwards to our future journey.

Our Aim

Renishaw will design, manufacture and supply metrology systems of the highest quality and reliability to enable customers worldwide to carry out dimensional measurements to traceable standards.

Our product offerings will enhance quality and productivity, and we will strive for total customer satisfaction through superior customer service. Our aim is to provide leading-edge technology by encouraging innovation to address our customers' needs. We are committed to sustained growth through continued investment in product development and manufacturing methods.

Renishaw is an environmentally conscious and responsible company. We will strive to ensure that all aspects of the business have the least harmful effect on the environment.

**ANALYTICAL TOOLS AND SERVICES - EQUIPMENT SALES AND REFURBISHMENT -
SOFTWARE & AUTOMATION - TESTING**

Retronix Semiconductor is an experienced global engineering services and general contractor company serving the semiconductor and high-tech manufacturing industries. We offer flexible labour, equipment installation, tool decontamination, harvesting, and relocation, as well as facility support for the world's leading OEMs and IDMs.



Telephone	01236 808 909
Email	sales@retronix.com
Website	retronixsemiconductor.com

Since 1992, we've achieved recognition and respect for our turnkey equipment relocation and facility management services. Our innovative and cost-effective approach means we dedicate our time to developing and implementing the most efficient solutions to the challenges faced by your business. Whether it's a full fab de-installation, single-tool relocation, short or long-term project, we pride ourselves in getting your job done right and on time. Our primary service groups include:

<p>Parts & tools</p> <p>We can help you harvest inventory, pack and store surplus parts and stock, or provide the essentials for your projects.</p> <ul style="list-style-type: none"> • Tool harvests and surplus stock • Parts refurbishment • Photographed inventory • Secure delivery 	<p>Resourcing & staffing</p> <p>Offering a flexible, motivated, and highly qualified workforce – we work quickly to match your business needs.</p> <ul style="list-style-type: none"> • Targeted recruitment • Streamlined on-boarding • Staff training and development • Payroll and benefits 	<p>Equipment relocation</p> <p>We provide a fully-integrated tool and equipment extraction, relocation, and installation services.</p> <ul style="list-style-type: none"> • Decommission and decontamination • Crating and rigging • Rebuild and testing • Turnkey Service
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We're also experts in: PM kitting management | Cable testing | OEM module assembly and testing | RF refurbishment and repair | And many other areas!

Retronix Semiconductor is headquartered in Arizona with additional locations in Texas, Colorado, Ireland, Scotland, and Israel. We are located right where our customers are – all over the world. If you're looking for quality, reliable, value-added services performed by dedicated industry experts – choose Retronix Semiconductor.

CLEANROOM SERVICES & FACILITIES - CONSULTANCY SERVICES - EQUIPMENT SALES & REBURFISHMENT - EQUIPMENT SUPPORT SERVICES - OUTSOURCED CLEANROOM SERVICES (STAFF, PROCESSES) - RF RELATED SERVICES - TRAINING - VACUUM RELATED EQUIPMENT & SERVICES



RF Global Solutions was established in 2004 to supply low cost RF repairs for the semiconductor industry. We are now an active member of the National Micro Electronics Institute and have won the prestigious Top 10 NMI Supplier of the year award in 2011, 2012, 2014 & 2015.

Telephone	01355 236392
Email	sales@rfglobalsolutions.co.uk
Website	www.rfglobalsolutions.co.uk

The company has achieved this by providing low cost, high quality RF repairs and refurbished RF equipment into the Semiconductor and Medical

industry. We are now an internationally renowned brand, with customers utilising our services from across the globe.

Each customer receives an excellent level of service from our friendly and personable customer service team, who design, repair, install, service and train to the highest possible standards. Quality service is a key component of our organisation, who are well regarded and an international leader in RF technology.

The past few years have been busy and we have gone from strength to strength, diversifying our service, ensuring we meet the needs of our customers. We have been involved in a variety of projects such as facility expansions; IT improvements to benefit our clients; new customer focused technology deployed and diversifying our client base. Simultaneously, we tap into newly developing market places, who now enjoy the benefits of using RF Technology.

Key industries presently supported by RF Global Solutions include Semiconductor, Photovoltaic, Medical, Food Packaging and Food Sterilisation. RF Global Solutions are continuing to reach into new foreign markets while looking after our existing clients meeting their requirements and exceeding their expectations.

The company is highly focused on the following areas:

- Customer responsiveness
- Quality of products supplied and repair work undertaken
- Bespoke industry leading warranties
- Continuous improvement activities with both products and services



CONSULTANCY SERVICES - EQUIPMENT SALES & REFURBISHMENT - EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - EQUIPMENT SUPPORT SERVICES - OUTSOURCED CLEANROOM SERVICES (STAFF, PROCESSES) - R&D SERVICES - RF RELATED SERVICES - VACUUM RELATED EQUIPMENT AND SERVICES



RFMOD IP underpins next generation connected smart products with unprecedented levels of functionality, performance, value and size.

Telephone	+44 (0)1223 810 282
Email	info@rfmod.com
Website	www.rfmod.com www.BeanIoT.com

Our self-invented IPR draws from 25 years' experience in semiconductor packaging and RF system and product design

RFMOD specialise in meeting targeted performance, with reduced Bill-of-

Materials (BoM), simplified PCB and assembly leading to direct benefits of (1) simplified build and (2) lowest cost-of-ownership

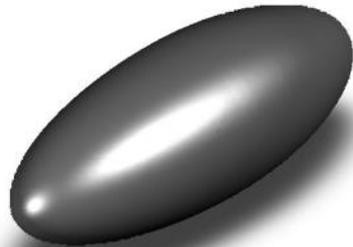
Our Consultancy Service employs best practice in Chip, Package, System co-design to create potent solutions for high volume, small size, cost critical markets such as Mobile, "Wearables" and the "Internet of Things [IoT]"

RFMOD offers its proprietary patented semiconductor packaging portfolio to industrial partners through its licensed partner programme.

CLAM-LP(TM) and **WLPoP(TM)** technologies are uniquely designed to solve many of the key issues faced by designers and their semiconductor suppliers. RFMOD technology uses existing manufacturing techniques, equipment and materials ensuring a low-barrier to market

RFMOD's **BeanIoT(TM)** project is a new consumer-centric IoT Edge-Node product and Data service for the Internet of Things.

BeanIoT(TM) - Wearable / Deployable / Enjoyable



ANALYTICAL TOOLS & SERVICES - CONSULTANCY SERVICES - PACKAGING - R&D SERVICES - RF RELATED SERVICES - SOFTWARE & AUTOMATION



RF Support provides an excellent cross platform service on all RF generators and matching networks used in the plasma processing industries.

Telephone	01355 227 228
Email	service@rfsupport.com
Website	www.rfsupport.com

We are able to offer a one stop solution to all your RF needs. Repairing several different OEM's equipment, including Applied Materials, LAM, Mattson, Matrix, Tegal, Advanced Energy, ENI, Comdel and Trazar to name a few. Helping to reduce the numbers of individual

vendors the engineer or even purchasing have to deal with.

Processes are all designed around ISO9001 ensuring you have complete confidence in each repair. Our excellent reliability record is constantly being monitored to maintain standards.

We offer full traceability of your equipment from delivery to us through the repair process and back to your stores. All this provided 24hrs via your Customer Zone web portal.

Repairs are all fully backed with a RTB warranty which is one of the best in the industry and can be configured to suit individual fab requirements.

RF Support was established in 2003 to be the leading RF Repair centre for semiconductor plants worldwide. We recognised that the fabs were being forced to examine costs in order to survive. This led us to establish a total quality approach.

It is acknowledged that the major cost involved in unplanned RF equipment failure is not the actual repair cost it is firmly with lost wafer processing time. To that end we set in motion a quality system to significantly improve the reliability of this equipment.

It is much more cost effective to have highly reliable high quality repairs. We set out to achieve this while continuing to trim all margins to ensure our customers can maintain their cost effectiveness.

A number of different strategies have been implemented.

- Targeting ISO9001:2000 designed processes
- Quality Improvement Program
- and arguably the most fundamental - Fine attention to detail

CONSULTANCY SERVICES - EQUIPMENT SALES & REFURBISHMENT - EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - EQUIPMENT SUPPORT SERVICES - OUTSOURCED CLEANROOM SERVICES (STAFF, PROCESSES) - RF RELATED SERVICES - VACUUM RELATED EQUIPMENT & SERVICES

Roke

Part of the
Chemring Group

Telephone	+44 1794 833000
Email	info@roke.co.uk
Website	www.roke.co.uk



Roke is recognised as a worldwide centre of R&D excellence.

Roke Manor Research is a world-class electronics engineering consultancy. We enable our clients to maximise their investments in science and technology. Trusted by government and industrial partners worldwide, we deliver technology-based R&D services, provide independent advice, and solve technically challenging problems.

Roke make it our business to understand their clients' key issues to provide end-to-end tailored solutions. With extensive experience in communications systems, electronic sensors, and information assurance and in both the civil and military domains, we understand the technical complexities of modern and future systems. Our team of over 350 engineering consultants develop new concepts, capabilities and systems to protect what matters most to our clients.

Established in 1956, Roke remains a British centre of excellence for world-class innovation and engineering, and was recently awarded a Queen's Award for Enterprise and Innovation. Since October 2010 Roke has been a wholly owned subsidiary of the Chemring Group plc.



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Website	www.roodmicrotec.com

RoodMicrotec has 50 years' experience as an independent value-added microelectronics and optoelectronics service provider. We offer a one-stop shop proposition to fabless companies, OEMs and other business partners.

We have built up a strong position in Europe. Our services comply with the highest industrial and

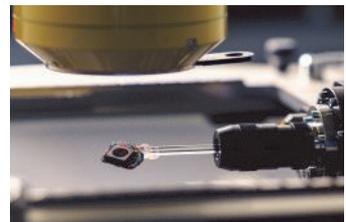
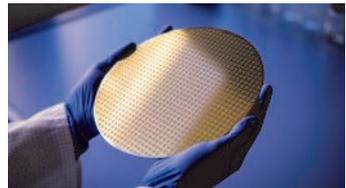
quality requirements as demanded by the high reliability aerospace & military, automotive, telecommunications, medical, IT and electronics sectors.

Value-added services include:

- Supply Chain Management which includes ASIC design services (working with specialist design partners), silicon manufacture, wafer probe, package, final test and qualification resulting in fully tested parts ready for product manufacture
- Reliability Competence Centre - dedicated support for supply to the automotive market
- Failure & Technology Analysis
- Qualification & Monitoring Burn-In
- Test & Product engineering
- Production Test (including device programming and end-of-line service)
- ESD/ESDFOS assessment & training
- Quality & Reliability
- Consulting

RoodMicrotec has an accredited laboratory for testing and calibration activities in accordance with the ISO/IEC 17025 standard and ISO 9001.

RoodMicrotec has locations in Germany (Noerdlingen and Stuttgart), the Netherlands (Zwolle) and UK (Bath).





Innovative equipment integration and asset-tracking software, solutions & services for the Semiconductor Manufacturing Industry.

Telephone	01506 417030
Email	talktous@savantech.co.uk
Website	www.savantech.co.uk

Equipment Integration is one of the key tools that chip manufacturers can utilise in order to maximise the productivity and flexibility of their

facility. Implementing EI has a proven track record of enhancing tool utilization, reducing scrap and increasing overall productivity. By linking the equipment to your shop-floor control system, your process can be secured, and the data directly collected can be leveraged to both improve the process and to minimise idle time.

Savantech Limited has an expert team of semiconductor professionals with many years of experience encompassing process control and optimisation, data collection, efficiency enhancement and asset tracking. Savantech offers a complete range of services, from initial needs assessment through system design, development, and implementation. We also provide comprehensive support and maintenance packages.

Savantech's premier automation product is CoreTegral, the most technologically advanced automation development platform in the market today, taking advantage of the finest industry standard tools to enable rapid deployment and real-time remote management capabilities. Core to the Savantech approach is our extensive industry-specific knowledge, ensuring that the solutions support the business 24x7. Our focus is on providing targeted automation solutions that deliver the best cost/performance package for each customer. Excellent ROI can be achieved by automating a select set of key equipment in the first instance, to address pressing problems of scrap, poor throughput or poor process yield. As the cost benefit of automating those tools is proven, further functionality can be introduced and/or further tools automated.

Savantech has extensive expertise in identifying where automation will return the most value, and in providing the solution to do it. Choose Savantech to make the most out of your fab's potential.

Services: Increase equipment throughput - Decrease unplanned down-time - Eliminate scrap caused by mis-process - Improve process through data analysis - Facilitate Advanced Process Control - Real-time factory floor visibility.



Science & Technology Facilities Council

Telephone	+44 (0)1793 442000
Email	enquiries@stfc.ac.uk
Website	www.stfc.ac.uk

STFC (Science and Technology Facilities Council) is one of the seven UK Research Councils reporting to the Department of Business Innovation and Skills.



STFC funds research, operates several world-class establishments, manages the UK's subscription to many international scientific collaborations, and aids advances in science and technology by providing the research community with access to advanced facilities and the expertise of its staff. STFC employs approximately 1900 staff across its UK establishments, most of whom are professionally qualified scientists and engineers.

Rutherford Appleton Laboratory (RAL) is one of the STFC establishments within the UK and is also one of Europe's largest multi-disciplinary research organisations. The Laboratory is home to a number of the UK's major scientific research facilities and has a global reputation for excellence in many areas of science and advanced engineering technology.

The Microelectronics Support Centre (MSC) located at STFC Rutherford Appleton Laboratory is an internationally recognised centre of excellence in design methodologies and flows for microelectronic, microsystem and electronic system design. The MSC specialises in providing academic institutions from the UK and Europe with the design tools, design flows, training and support that they require to enhance their microelectronic, microsystem and electronic system design research and teaching. This essential role enables the universities to conduct industry relevant research, and to train the highly capable engineers which form the lifeblood of the UK electronic system design industry.

scotech

Telephone	01475 540689
Email	mail@scotech.ltd.uk
Website	www.scotech.ltd.uk

Scotech – the UK's premier distributor of thin film coating equipment and consumables.



Scotech supply Capital Equipment and Consumables from market leading companies in the Vacuum Deposition and Etch field.

Our product range covers diverse markets ranging from blue chip Silicon, MEMS & III-V Semiconductor manufacturers through leading edge research companies and universities.

Through our experienced team of engineers we aim to supply high quality service with efficient technical back up. All our technical staff have over 30 years industry experience in thin film processing.

- Ion Beam Sources
- Ion Beam Systems
- E Beam Evaporation Systems
- E Beam Evaporation Components
- Sputtering Sources
- Substrate Heaters
- Throttle Valves
- Sputtering Targets & Coating Materials
- Quartz Monitor Crystals
- Vacuum Fluids & Greases
- Plasma Etch Electrodes
- Stepper Lamps
- Molecular Vapour Deposition

EQUIPMENT SALES & REFURBISHMENT - EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - EQUIPMENT SUPPORT SERVICE - MATERIALS/CHEMICALS - VACUUM RELATED EQUIPMENT & SERVICES

SFN SEARCH — FOR THE NEXT —

Telephone	+44 115 748 4380
Email	info@searchforthenext.com
Website	www.searchforthenext.com

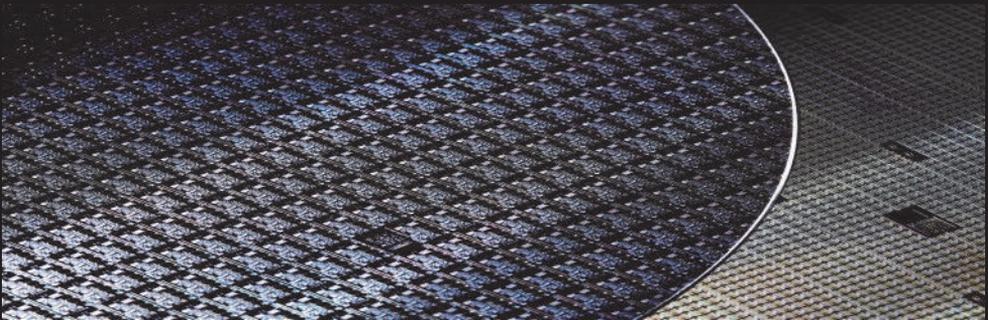


Search for the next is a fabless semiconductor company.

Its mission is to find mass consumer markets in which to use its designs, research and development of advanced semiconductor processes, cpu architectures and products. To then use these semiconductors to create with its chosen OEM partners' disruptive products.

The company R & D team has experience from a proven track record of semiconductor innovation and design. This experience includes achieving cross-industry awards such as DI manufacturer of the year, most innovative product, best low-cost product and the Light Association Innovation Award sponsored by Osram. It has experience with supplying some of the most respected companies in the world such as Martin Professional, High End, GE, and Sylvania.

The company's specialities includes fabless, transformative and disruptive technology innovation with both UK and overseas manufacturers and OEMs with a focus on green technology mass consumer products to maximise its impact in reducing the effects of global warming.



**CONSULTANCY SERVICES - ELECTRONICS COMPONENT MANUFACTURING
R&D SERVICES**



Telephone	+44 1592 630630
Email	Contact via the website
Website	www.semefab.com

Semefab have an impressive track record of process development, process set-up and volume foundry supporting silicon-based MEMS, CMOS, ASIC, Bipolar-Linear & Discrete semiconductor device technologies.

Founded in 1986, Fab1 produces a diverse process portfolio of 4" CMOS, ASIC, Bipolar-Linear & Discrete semiconductor technologies. Fab1 fabricates precision analog integrated circuits, JFET transistors, Bipolar transistors, Photo Diodes, Mixed Signal ASICs and supports the 'front-end processing' for many different MEMS technologies.

In 2009 Semefab invested £15.2M, creating Fab2, for processing of 6" and 4" MEMS technologies and Fab3 for 6" CMOS/Bipolar technologies. Fab3 became operational in 2011.

All 3 Fabs have completely autonomous services and facilities.

Separating the three Fab's ensures the integrity of Fab3 for producing ultra low leakage junctions, high carrier lifetimes and high reliability MOS transistors. Semefab observes strictly one-way traffic from Fabs 1/3 to Fab2 and can therefore produce MEMS devices with ultra clean junctions and transistors by starting their lives in Fabs 1/3 and completing their processing in Fab2 which features heavy metal processing eg: gold and alkali ionic solutions eg: KOH. This ability to segregate processes ensures that Semefab is able to routinely produce MEMS devices with ultra clean semiconductor characteristics where necessary.

Semefab's 3 wafer Fabs support both product development/process induction and volume manufacture in a cost effective and efficient manner.

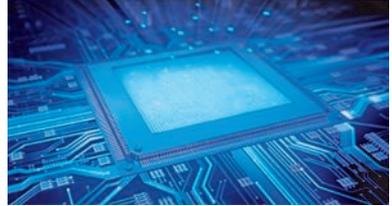


ELECTRONICS COMPONENT MANUFACTURING



SEMTECH

Telephone	+49-89-3803-6600
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Semtech is a leading supplier of high performance analog and mixed-signal semiconductors and advanced algorithms.

Through our advanced technology platforms, Semtech is enabling mission critical applications for three of the industry's fastest growing markets: Internet of Things, Data Centers and Mobility.



Disruptive Technology Advancing Industry Trends

Our highly differentiated, disruptive analog and mixed-signal semiconductors and advanced algorithms enable today's most innovative electronics within some of the fastest growing verticals and markets. Today's consumers and enterprises demand smarter, faster and smaller electronics combined with high-performance. As a global leader, Semtech offers leading-edge platforms that are more intelligent, more robust, and more compact empowering next-generation electronics of all power levels and form factors.





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SiSTEM Technology is a full-service company founded in June 2004. We offer a wide range of leading edge process tools and ancillaries, automation and consumables to the microelectronics and other high technology industries throughout Europe and ROW.

Our company goals are to supply to our customer's advanced technology products which meet their needs of quality build and

reliability, on-time delivery, and competitive cost . Only in this way will we maintain our justifiable reputation as a key supplier in what is an increasingly demanding and ever-changing advanced technology market place.

A key part of our success to date may be attributed to the impressive list of manufacturing suppliers that we are privileged to represent in the UK and Ireland, Europe and, in some cases, globally. Many of these companies are worldwide leaders in their fields and they continue to contribute to the outstanding developments and ranges of products offered by the Micro and Nano-electronics, Photovoltaic, Thin Film display, and other High Technology industries.

From our offices in the Caswell Science & Technology Park, we support our customers across the UK and Ireland and in Mainland Europe. We offer installation, commissioning, warranty support, service contracts and upgrades from our factory-trained engineers who share our commitment to quality of supply.

SiSTEM Technology has attended at many of the UK and Ireland exhibitions and conferences in recent years and our customer base continues to grow as a result of our ever -increasing exposure through these events. Our affiliations with the UK's leading trade associations for our industry, NMI (National Microelectronics Institute) and JEMI (Joint Equipment and Materials Initiative) also play a major role in helping to promote the goods and services our company provides.



**CLEANROOM SERVICES & FACILITIES - EQUIPMENT SALES & REFURBISHMENT
EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - EQUIPMENT SUPPORT
SERVICES - R&D SERVICES - SOFTWARE & AUTOMATION - VACUUM RELATED EQUIPMENT
& SERVICES**

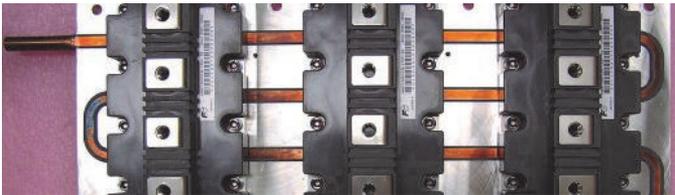


Telephone	+44 (0) 1132 562 332
Email	Contact via the website
Website	http://www.smartpowersolutions.com

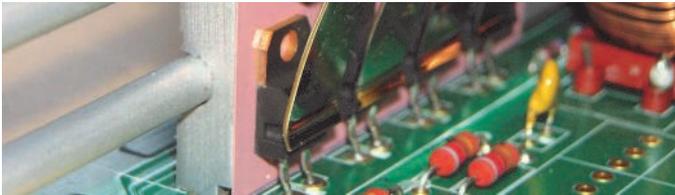
Smart Power Solutions is based in Leeds in the UK and was founded in 2001.



We specialise in the design and manufacture of intelligent high-efficiency power electronics systems both for static and rotating applications.



We have taken our considerable experience gained working on sophisticated motor drive systems and applied it to power supplies, power conditioners and grid tied inverters.



Our engineers have successfully tackled a wide variety of

systems from high volume cost sensitive automotive and appliance applications all the way through to lower volume high power systems for industrial and railway traction auxiliaries applications.

SOFINTSYS

At Sofintsys, we aim to make a difference for our clients. We aim to bring practical solutions that solve our clients' concerns.

Telephone	+44 1283 575609
Email	info@sofintsys.com
Website	www.sofintsys.com

We can partner with our clients to address the business and technical challenges inherent in developing complex software-intensive systems. Providing engineering and consulting services aligned to real business needs, borne of practical experience, and for application in various parts of the product lifecycle, its processes and organisation.

Leveraging Multi-Domain Experience

Sofintsys leverages over 35 years of experience working in leading industries such as Industrial Controls, Defence, Communications, Automotive, Aerospace and Nuclear. Sofintsys enables companies to accelerate their product development efforts, and drive more predictability and productivity into their businesses.

Sofintsys helps clients recognise how to develop products differently, develop products with a difference, and even develop different products to ensure they deliver the products their customers need and value, and maximise the market opportunity.

At Sofintsys, we're committed to helping our clients take control of the engineering and development of their systems and products, with insights into techniques and practical systems of management, competency and professional development as well as advice on organisational and leadership structure and behaviour.



CONSULTANCY SERVICES - SOFTWARE & AUTOMATION - TESTING - TRAINING

Solid State Disks LTD

Reactive's Solid State Disk (SSD) Division, UK – The Industrial Division of the Reactive Group, deliver innovative system solutions to defence, commercial and industrial customers worldwide. We specialise in the design, development and integration of advanced flash data storage systems.

Telephone	+44 (0) 1189 323499
Email	sales@reactivegroup.com
Website	www.solidstatedisks.com

We are also a focused UK flash memory distributors of SanDisk (recently acquired by Western Digital), Innodisk, APRO, Transcend and Smart Modular, These flash vendors are the market leaders of flash disk drive technology and other flash products to the defence and industrial markets.

Solid State Disks Ltd are ISO 9001:2015 and NATO NCage certification (No: U1AL9) guaranteeing the highest levels of expertise, professionalism and care. Product Conflict Minerals reports available upon request.

Reactive Group's SSD Division applies leading edge technologies and design methodologies to meet the stringent requirements of customised Disk and Tape storage and solutions We offer an extensive range of products for OEM customers including Solid State Drives, Mobile Connectivity and Data Collection.

In October 2000 Tiger Technology Ltd was acquired. Tiger was a specialist company in advance data storage in the military storage products. Through this acquisition Reactive Group gained the ability to design and build bespoke solid state disk storage and tape emulators for legacy computer installations many of which are installed in NATO, Telecom, Audio and Military environments.

The SCSIFLASH drive offers OEM's Legacy SCSI support for ageing SCSI drives which are still needing support out in the field. The SCSIFLASH drive is designed, manufactured & supported through our Head office in Reading, UK.

CLEANROOM CONSUMABLES - ELECTRONICS COMPONENT MANUFACTURING - EQUIPMENT SALES, & REFURBISHMENT - EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - EQUIPMENT SUPPORT SERVICES - MATERIALS & CHEMICALS - PASSIVE COMPONENTS - RELIABILITY TEST - SOFTWARE & AUTOMATION - TESTING - VACUUM RELATED EQUIPMENT & SERVICES



Telephone	+44 141 773 2030
Email	enquiries@solutions-driven.com
Website	www.solutions-driven.com



Reactive's Solid State Disk (SSD) Division, UK – The Industrial Division of the Reactive Group, deliver innovative system solutions to defence, commercial and industrial customers worldwide.

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Telephone	+44 (0)118 983 8550
Email	sian.bentley-magee@sondrel.com
Website	www.sondrel.com

Sondrel is Europe's largest independent IC design consultancy serving technology companies and OEMs worldwide with System On Chip and ASIC design services.

Sondrel offers a complete semiconductor design solution from feasibility study, through architectural design to fully packaged silicon and can also provide architecture and physical

design services through to tape out. Sondrel's ASIL ready design team is skilled in supporting ISO26262 conformant projects for the automotive industry.

Operating from design centres in the UK, France, Morocco, India and China, Sondrel also provides outsourced design services to some of the world's leading technology companies working at the most advanced process nodes. Founded in 2002, Sondrel is renowned for its specialist verification, design for test and physical design practices.

Strong partnerships with IP vendors, EDA manufacturers and foundries enable Sondrel to provide competitive proposals with a fast time to market and attractive NRE. Sondrel creates strong and trusting working relationships so that every customer receives a professional and personable service for a smooth path to silicon.

Sondrel is highly regarded for its work in the following areas: Automotive solutions including safety critical design - Secure, power efficient IoT edge node devices - High resolution video processing and machine vision - High definition video camera input and video display including wireless streaming - AI with HPC architecture and complex fabrics.

Contact Sondrel to learn more about how these services can solve your design challenges: Concept to validated silicon design services - COT and turnkey ASIC options - High quality outsourced design services - Workshop and feasibility studies ideal for OEMs - Cost effective, right-first-time FPGA to Silicon design service - Accelerated design service based on proven reference platform architecture.

Contact Sondrel for an informal discussion about making a success of your next silicon project.

CONSULTANCY SERVICES - ELECTRONICS COMPONENT MANUFACTURING - R&D SERVICES - TESTING

For 30 years is SPS a full-service distributor of small equipment, tools and consumables used in semiconductor fabrication, MEMS, & Biotechnology, including wafer handling, wet processing, photolithography, CMP and Etch / PVD / diffusion areas.



Wafer mover

- ✓ Small footprint
- ✓ Table top
- ✓ Mapping end effector



Semitool®

SPS-Europe offers full refurbishment of your existing Semitool® SAT, SST, SRD or Sirius tool.





SPS is a full-service distributor of small equipment, tools and consumables used in semiconductor fabrication, MEMS, & Biotechnology, including wafer handling, photolithography, wet processing, CMP & Etch / PVD / diffusion areas. We supply a range of Equipment and Consumables including:

Telephone	01750 725712
Email	peter.summers@sps-europe.com
Website	www.sps-europe.com

WAFER HANDLING: Manual wafer handling Vacuum Wands, manual Aligners & Transfer systems, wafer Escalators, and a range of LED Inspection Lamps. Automated & custom engineering. Robotic wafer automation – including specialist Thin-Wafer handling capabilities. Wafer Cassettes & Storage Boxes in a full range of SEMI designs & materials. Wafer Shipping containers (Jars, Canisters, Foams Tyvek® etc), & single wafer shipping and storage containers.

WAFERS: We supply a wide range of II-VI, III-V & specialist substrate materials for Universities and R&D or low volume specialist manufacturing.

WET PROCESSING: DI Water & Chemical Heating systems, Flow Control & Measurement for all chemicals including CMP slurry. An extensive range of Process Tanks (PTFE, PP, PVDF, Quartz), chemical Pumps, Valves & Fittings. Spin Processing systems from small tabletop Spin Coaters to fully integrated Spin-Processing Stations with automated tracking dispense, and custom systems for large format FPD and specialist applications. We also supply "In-Deck" versions for OEM's and for integration into existing wet benches.

PHOTOLITHOGRAPHY: Mask Aligners & UV Light Sources, bench-top small R&D systems, cassette-to-cassette Automated systems, and large format FPD aligners. We also supply Nano-Imprint modules, as well as a range of UV Meters & Analyzers including meter Calibration services. We also have a range of high quality Stepper compatible Reticle Cases.

ETCH, CVD & DIFFUSION: For Diffusion Furnaces we supply Heating elements, Vestibule Blocks, Soft Collar insulation materials & a full range of Gas Filters. For Etch, PVD/CVD, & RTP robots, we supply End-Effector wrist upgrades – eliminating end-effector "droop", and long-lifetime Ceramic Bearing Upgrades for reducing downtime & improving cleanliness.

CMP: CMP Retaining Rings and Conditioning Disks, Head Motor Refurbishment, as well as OEM-approved upgrades for slurry Flow Control, and other quality upgrades including VME & Pneumatics boards.

BACK-END: Dicing Film Applicators, UV Curing Systems and Die-Matrix Expanders, as well as consumable Dicing/Grinding Films (standard/UV), Grip Rings, Film-Frames, & their respective Shipping Containers. Wafer Probe Cleaning Sheets.

**CLEANROOM SERVICES & FACILITIES - EQUIPMENT SALES & REFURBISHMENT -
EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - MATERIALS/CHEMICALS**



Telephone	01633 414000
Email	enquiries@spts.com
Website	www.spts.com

SPTS Technologies, an Orbotech company, 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, MOCVD 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. SPTS has also been given the prestigious Anchor Company status by the Welsh Government.

ETCH	DEPOSITION
Inductively Coupled Plasma (ICP) etch of silicon, dielectrics and polymers	Plasma Enhanced Chemical Vapor Deposition (PECVD)
Deep Reactive Ion Etching (DRIE)	Physical Vapor Deposition (PVD)
Dry Release Etch using HF vapor	Metal-organic Chemical Vapor Deposition
Isotropic etching of silicon using xenon	Molecular Vapor Deposition (MVD®)

EQUIPMENT SALES & REFURBISHMENT - EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - EQUIPMENT SUPPORT SERVICES



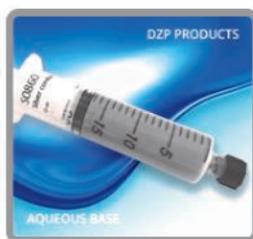
Telephone	01223873028
Email	enquiries@strem.co.uk
Website	www.strem.co.uk

Strem Chemicals UK distributes a wide range ALD precursors, nanomaterials and quantum dots for the solar and electronic industries together with catalysts and ligands for other markets including drug discovery.

We have around 5000 products which come with licensed technologies, royalty free for R&D purposes. We offer next day delivery on a growing range of stock in the UK.

We are Iso 9001 & 14001 certified, with a growing range of stock available next day.

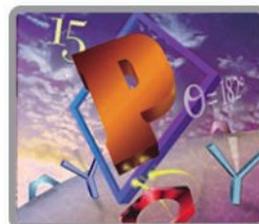
Other stock locations USA and France giving a 3-5 working day delivery for most materials.



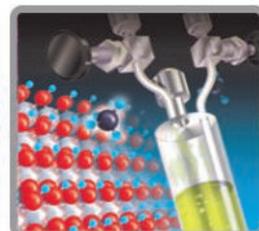
DZP Inks & Adhesive



Metal Catalysts for Organic Synthesis



Phosphorus Ligands & Compounds



MOCVD, CVD & ALD Precursors



Nanomaterials



Simple Technical Solutions Ltd.

Telephone	01592 593300
Email	toolsales@sts.gb.net
Website	www.sts.gb.net



Simple Technical Solutions Ltd (STS) was created in Scotland in 2003 by a management team with over 20 years experience in providing PVD equipment and support to the Semiconductor industry.

The company started by refurbishing and supporting Varian/Novellus PVD tools and after being granted license status by Novellus we officially began assembling new tools, spare parts and providing support in Europe and in the USA through STS Inc. Austin Texas.

In 2006 STS acquired the UK parts cleaning business of Saint Gobain and created a stand alone company called STS Precision Cleaning Services.

STS Precision Cleaning Services were transferred from their original facility into a new cleaning factory in Glenrothes in 2008.

In 2014 Simple Technical Solutions moved into a new factory for equipment building and support built on the land occupied by STS Precision Cleaning Services.

In 2016 STS Precision Cleaning Services acquired another factory next to the existing factory in Glenrothes. STS now have 25,000 sqft of space to conduct parts cleaning and 8000 sqft for equipment support.

**MANUFACTURING
SUPPLIER OF THE YEAR 2018**

As voted by  TechWorks Members
at the TechWorks Awards 2018

WINNER



Simple Technical Solutions Ltd.

CLEANROOM SERVICES & FACILITIES - EQUIPMENT SALES & REFURBISHMENT
EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - EQUIPMENT SUPPORT
SERVICES

Sundance Multiprocessor Technology Ltd. was established in 1989.

Our strategy is to produce a comprehensive range of well engineered products for the high-performance embedded processing market for Robotics, Vision, Motion and Sensor application.

Our first products were designed for the parallel processing market. The product portfolio included PC add-in boards and modules. Sundance rapidly developed and built a wide range of processor modules and boards on industry standard form-factors, like PC/104, PXle, FMC and OpenVPX.

The range included many special purpose modules and allowed Sundance to act as a 'one-stop' shop for system designers and manufacturers.

Today, the Sundance product range includes modular systems based on the Texas Instruments KeyStone range of multicore DSPs, as well as the Xilinx Zynq multicore SoCs and Xilinx's Series-7 FPGAs.



Telephone	+44 (0) 1494 793 167
Email	sales@sundance.com
Website	www.sundance.com



ELECTRONIC COMPONENT MANUFACTURING - R&D SERVICES - SOFTWARE & AUTOMATION

SUPPLYDESIGN

Supply Design Limited are power supply specialists.

Our patented three-phase to DC converter technology creates a groundbreaking new standard for three-phase AC to DC power conversion.

Our topology can perform in one conversion stage what our competitors require two power stages to do - leading to (up to) a 65% reduction in heat generating losses and a 33% increase in power density, without compromising power factor, harmonics or galvanic isolation performance.

Supply Design has grown in the last few years to include a broad range of staff and suppliers. In addition to the core team, we work with consultants and contractors who help us offer an impressive range of services to our clients.

We have partners in industry and academia, including the University of Strathclyde, Heriot Watt University, RenewNet and Scottish Enterprise.

Telephone	01383 842477
Email	create@supplydesign.com
Website	www.supplydesign.com



INDUSTRIAL



ELECTRIC VEHICLES



AEROSPACE



SMART DC

ANALYTICAL TOOLS & SERVICES - CONSULTANCY SERVICES - R&D SERVICES TESTING



SYNERGIE CAD GROUP

Telephone	+44 (0)1522 520222
Email	sales@synergie-cad.co.uk
Website	www.synergie-cad.com

We are the preferred partner of large and small semiconductor industry players since 1986.

With over 30 years of experience, our **high-performance** solutions maximize **yield improvements** while ensuring the most **competitive cost of test** over our product lifetime.

Our **world class engineering expertise** and support teams serve the most **demanding clients** as they bring new technologies to market.

We offer **full turn-key solutions** with global support as a manufacturer of reliability testing equipment and services for your project journey from R&D into production and beyond.

With **exceptional multi-disciplinary team talent**, we offer **innovative and reliable solutions** for your most demanding **next generation technology challenges**.

We employ the latest industry simulation tools to achieve **optimized solutions** that meet the needs of the fast-moving semiconductor industry with **excellence**.



CONSULTANCY SERVICES - EQUIPMENT SALES & REFURBISHMENT - RELIABILITY TEST - RF RELATED SERVICES - SOFTWARE & AUTOMATION - TESTING

It's a good bet that every electronic device you use today has been touched by Teradyne products along its development and production journey.

TERADYNE

Telephone

Contact via the website

Email

Contact via the website

Website

www.teradyne.com

Teradyne is committed to ensuring that the electronic products that power our work life, entertain and enrich our personal lives, and protect and inform our public lives work the way they were intended. Our industrial automation solutions utilize Collaborative Robots, Autonomous Mobile Robots and sensing and simulation software to improve quality and increase manufacturing efficiency in global manufacturing and light industrial customers.

Headquartered in North Reading, Massachusetts with 70 locations throughout Asia, Europe and North America, Teradyne employees share a customer-centric approach. "Teradyneers" are dedicated to getting current and next year's new products functioning at their peak and into the hands of your customers fast.

Over 50 years after the creation of Teradyne, the vision of our founders, Alex d'Arbeloff and Nick DeWolf, to automate manual production tasks to improve accuracy, repeatability and lower costs, has stood the test of time. For our first 55 years our focus was on reliable, dependable electronic test equipment strong enough to serve the needs of high-volume production test. More recently, that vision has been extended to include production tasks across all industries that can now be automated using Collaborative Robots.

From tablets to smart phones, we rely on electronics to conduct our business and to connect and enhance our personal lives. The world's reliance on electronics comes with the expectation that the devices work right, the first time, every time.

Teradyne products protect consumer confidence with thorough, fast test and automation.

Teradyne has delivered a competitive advantage to the world's leading electronics companies for over 50 years. With innovation at the core of our business, we constantly seek new ways to solve the most challenging test issues. Whether you're looking to test the latest technologies, lower your production or test costs, shorten your time-to-market, or all of the above, Teradyne has a solution to meet your needs.

EQUIPMENT SALES & REFURBISHMENT - EQUIPMENT SUPPORT SERVICES - TESTING



Tetreon Technologies Ltd was founded in November 2003 by Gerry Thurgood, former President and Managing Director of Tokyo Electron Europe, and previously Managing Director of Thermco Systems UK Ltd.

Telephone	+44 (0)1903 891700
Email	info@tetreon.com
Website	www.thermcosystems.com

With the company's mission statement being to offer an alternative flexible and cost effective support organisation for the semiconductor industry.

In 2004 Tetreon purchased the Thermco horizontal diffusion furnace business and commenced manufacturing of Thermco horizontal furnaces. The Thermco brand was established in 1962, and with over 30,000 furnaces sold, Thermco is recognised as the world's leading supplier of horizontal diffusion furnaces. Since taking over the

Thermco business Tetreon has supplied equipment into Thermco's traditional semiconductor market, and developed specialised product versions which have been embraced by companies in the MEMS, LED, photovoltaic and nano industries. The philosophy of flexibility embodied in Tetreon's mission statement is clearly visible in Thermco's development of industry specific solutions.

The synergy generated by the merging of the Tetreon service business and the Thermco manufacturing operations has created a flexible and dynamic equipment business with an increasing presence in all of the high growth electronics market sectors.

EQUIPMENT SALES & REFURBISHMENT - EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - EQUIPMENT SUPPORT SERVICES

TKS

Partnerships

Telephone	+44 7392 844727
Email	tony@kingsmith.tech
Website	www.kingsmith.tech

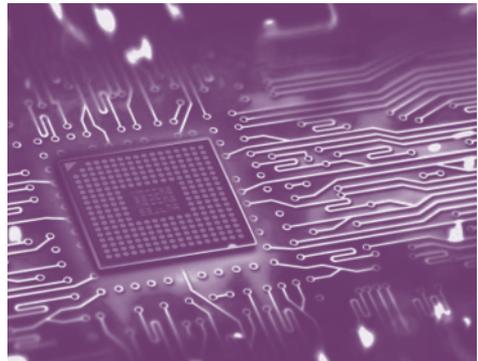
TKS Partnerships (TKSP) provides comprehensive marketing services and technology strategy advice.

We can help you position your product, service or organisation, or help you integrate your product roadmap, marketing and sales strategies in one cohesive and pragmatic plan.

We can bring together your product roadmap, marketing and sales strategies in one cohesive and pragmatic plan, or work with your existing management team in any of marketing, business strategy or product roadmaps to help you compete effectively in global markets.

We are all about complementing your core management team with many years experience in marketing, strategic business development and product planning as well as R&D for semiconductors, consumer and automotive product development & manufacture and embedded software.

With 10 years as CMO of one of the world's leading semiconductor IP companies, we can help you promote, differentiate, manage & exploit all of your hardware and software assets. And with 25 years R&D management experience running five different product design teams across SoCs, mixed signal ASICs, consumer products and automotive subsystems, we have plenty of technology depth to understand any of your deepest technologies quickly. We work with engineering leads through to CXOs, and are particularly strong in relating advanced technology concepts to investors and non-technical audiences.



CONSULTANCY SERVICES - MARKETING SERVICES

Our core business is to support semiconductor manufacturers throughout the world with innovative solutions for plasma based, photo resist removal and surface cleaning equipment, as well as isotropic etch systems that are used in the fabrication of integrated circuits and other semiconductor devices.



Trymax Semiconductor Equipment BV manufactures, sells and supports its own NEO equipment range. A wide range of different NEO platforms are available, from single chamber semi-automatic tools, through to multi chamber high volume manufacturing platforms. Trymax offers a number of different NEO process chambers which are configurable across all NEO platforms. This enables Trymax to offer an extremely wide range of different etch, strip and surface modification process capability.

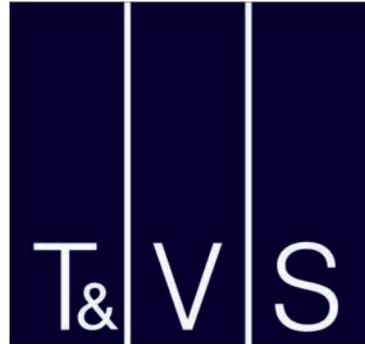


Trymax Semiconductor Equipment BV is a privately held company. Trymax has been on operation since 2003 and has its registered headquarters in Nijmegen, the Netherlands. We are ISO-9001 accredited and operate on a global basis, supporting our customers who operate across Europe, Asia and America.

Telephone	07725 786529
Email	paul.simpson@trymax-semiconductor.com
Website	www.trymax-semiconductor.com

EQUIPMENT SALES & REFURBISHMENT - EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - EQUIPMENT SUPPORT SERVICES - TRAINING VACUUM RELATED EQUIPMENT & SERVICES

Telephone	+44 (0)117 903 1100
Email	Contact via the website
Website	www.testandverification.com



Helping our customers deliver world-class hardware and software products that are reliable, safe and secure.

Our test and verification services are built on a deep understanding of the latest methodologies, security threats and compliance landscape. Our years of practical experience has led to an enviable track record of success with customers trusting us across multiple projects.

Customers choose T&V S because of a demonstrated ability to exhibit thought leadership in the verification space. T&V S has a proven track record of delivering to clients for complex verification programs, active industry engagement through conferences and seminars and providing industry-leading verification training programs.

T&V S brings improvements to customer verification through a thorough verification process built on experience from the past 25 years. Customers have the flexibility to use the T&V S verification flow (which has been successfully proven at multiple customer locations) or to ask T&V S to follow their own process.

Focus in a niche area of expertise gives customers the confidence to outsource the complete verification activity to T&V S. A successful track record of delivering end-to-end verification programs for ASIC/SoC/FPGA has made T&V S a preferred verification partner.

- Customers have benefited from T&V S' ability to quickly ramp up to meet resource requirements.
- Customer confidence in T&V S' ability to build and retain stable, high performing verification teams has led to T&V S high client retention rates.
- T&V S provides custom-made VIP's in native System Verilog/UVM or e/eRM with the ability to interface with customer models in a very flexible manner.
- Customers can reduce their verification turnaround times by leveraging T&V S' in-house tools which are specifically developed to address verification pain points.
- Customers choose to work with T&V S because of a successful track record of verification execution at semiconductor majors.
- Customer training requirements in any verification area can be addressed via customized training programs .

CONSULTANCY SERVICES - R&D SERVICES - SOFTWARE & AUTOMATION - TESTING - TRAINING

U4 global solutions

Telephone	+44 (0)2380 760909
Email	info@u4global.com
Website	www.u4global.com

We work as an extension to your own business, providing timely solutions that meet your budget needs.

From specification, procurement to supply of technology products. Offering new, used and refurbished tools and support we are an approved vendor to many of the major global semiconductor manufacturers.

We offer a unique blend of technology and commercial expertise that can be applied to most businesses and industries.

Operating from the Universtiy of Southampton Science Park we are one hour from central London and Heathrow airport, an ideal location for a global business.

MAIN PRODUCTS



Used Equipment Search



Wet Bench & Spin Rinse Dryers



Diffusion Furnaces



Track Systems and SVG support



Probing Solutions



Dicing Solutions



Final Test and Sockets

EQUIPMENT SALES & REFURBISHMENT - EQUIPMENT SPARES, INSTRUMENTATION & CONSUMABLES - EQUIPMENT SUPPORT SERVICES



Ultra Electronics is a world-leading group of businesses operating in the **DEFENCE & AEROSPACE, SECURITY & CYBER, TRANSPORT and ENERGY** markets.

The Group manages a broad portfolio of innovative capabilities focused on customer need.

Telephone	+44 1305 767100
Email	sales@ultra-cems.com
Website	www.ultra-cems.com

An operating business of Ultra Electronics Holdings plc, Ultra Electronics Weymouth is a contract electronics manufacturing business focused on low and medium volume manufacturing for industry sectors demanding safety critical / high reliability product.

This includes aerospace, automotive, defence, security, oil and gas exploration, scientific instrumentation, mass transportation, nuclear and other professional electronics manufacturers.

Ultra Electronics offers a wide range of capabilities

Rapid prototype manufacturing and new product introduction

Advanced surface mount assembly

Conventional thru-hole assembly

Flexi-Rigid PCB assembly

Power Electronics

Hybrid Microelectronics

Parylene / Conformal Coating

Cabinet Assembly / Wiring / Cable Assembly

Test strategy development and manufacture

Whole of life product management (spares & repairs)

ELECTRONICS COMPONENT MANUFACTURING - RELIABILITY TEST - TESTING - TRAINING



Telephone	01753725664
Email	winston.hsieh@wnc.com.tw
Website	www.wnc.com.tw

Wistron NeWeb Corporation (WNC), established in 1996, is a product design and manufacturing company that provides high-quality services for communications products. WNC offers comprehensive technical support in RF antenna design, software design, hardware design, mechanical design, system integration, user interface development, and product testing & certification. Headquartered in Taiwan's Hsinchu Science Park, WNC has also established an overseas

presence in the USA, the UK, Japan, China, and Vietnam. The sites offer complete solutions and local support for customers worldwide.

WNC offers services for short-/mid-/long-distance consumer, enterprise, industrial, and automotive communications products. For years, WNC has been developing technologies in the fields of network communications, the digital home, satellite broadcasting, and intelligent driver assistance, and has maintained close relationships with many of the world's largest companies.

WNC has set a number of industrial benchmarks: ranking #1 with 35% of the world's market share for built-in antennas for laptops, shipping over 300 million units of satellite communications products and digital home products, and topping the list of Taiwan's satellite communications product-exporting manufacturers. WNC has also maintained a leading position for enterprise-class wireless communications products and serves as the Alpha site of the world's major chip suppliers. WNC is capable of independently developing automotive-grade wireless modules and 24 GHz/77 GHz/79 GHz high-frequency radar products and is one of the world's major automotive electronics suppliers.

In the IoT era, WNC continues to expand its technological expertise and service in areas including broadband, broadcast, multimedia, the IoT, wireline, and wireless to build application platforms for different technologies. WNC also aims to develop stable and safe high-speed communications systems from WAN to LAN and from the cellular to fiber networks to realize smart living that is safer, more convenient and efficient.

Wafer Technology Ltd. is a U.K. based producer of III-V materials and epitaxy-ready substrates.

The company has a long and well established history in the manufacture of compound semiconductors and offers the widest product range in the business. Wafer Technology's unrivalled choice of material types and forms enables it to support almost any customer application.

The origins of the company can be traced back to 1957 when it was a pioneer in the growth of single crystal gallium arsenide. Recognising the potential importance of III-V compound semiconductors, the company focussed its efforts on establishing manufacturing technologies for such materials and thereafter lead the way in being the first to offer production sources of gallium arsenide in various forms. Today sees Wafer Technology benefit from a rich history of materials development which has positioned the company as an industry leading authority on a diverse range of compound semiconductor types.

Wafer Technology is a wholly owned subsidiary of IQE plc, the world's leading MOCVD and MBE epitaxial wafer foundry. Group membership provides customers with the credence and confidence that is required to support the purchase and qualification of III-V materials and substrates. Close relationships with all Group member companies supports Wafer Technology's thorough understanding of the latest material and device market trends which in turn are utilised by the company to develop new product types.



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yieldHUB is a leading semiconductor yield management provider. Founded in 2005, our expert software solutions provide actionable data for customers worldwide.

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Yield Improvement: If you want to improve your semiconductor yield, look no further.

Global support: Our global team provides expert support, 24/5.

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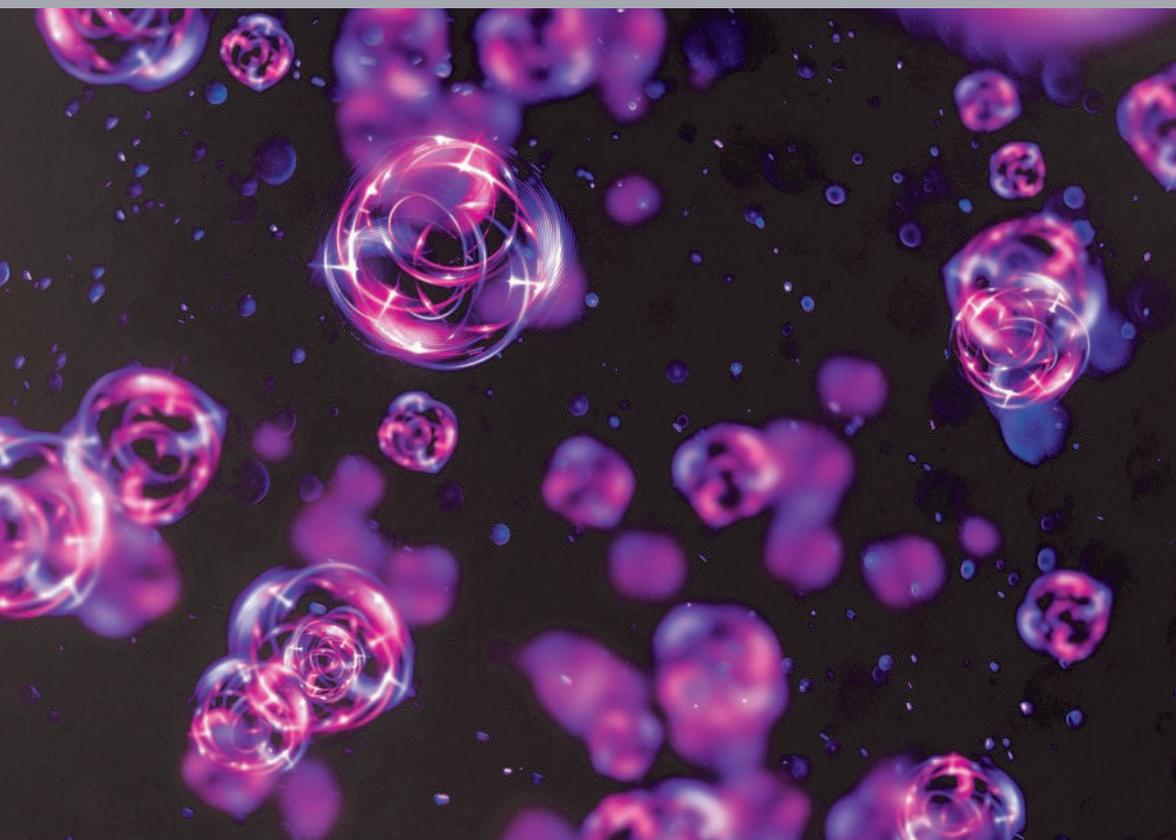
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