

# Best Practice

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## Experts in life extension of materials & critical components



Curtiss-Wright have a commendable history behind them, having been founded by three of the world's most celebrated aviation pioneers, Orville and Wilbur Wright and Mr. Glenn Curtiss, one of the forerunners of naval aviation. Their companies, the 'Curtiss Aeroplane and Motor Company' and 'Wright Aeronautical Corporation' merged in 1929 in order to create Curtiss-Wright.

Today Curtiss-Wright is one of the world's leading advanced engineering companies, having diversified and branched out into numerous different technologies across multiple sectors, including commercial and industrial, defence, power, metals, aerospace and much more.

Many of these companies still operate under their original name, such as Metal Improvement Company, Bolt's Metallizing, IMR Test Labs, Component Coating and Repair Services and more who now are part of Curtiss-Wright Surface Technologies. These various divisions offer a wide variety of different specialised surface treatments such as thermal spray coatings, solid film lubricants, shot peening technology and much more.

Curtiss Wright Surface Technology, one of their most well-known and international subsidiaries, specialises in providing material surface treatment solutions, focuses on enhancing the performance of critical materials and components. As many of their clients are in heavy engineering based industries, critical components are often of vital importance. Not only do they need to be specially designed to precision specifications, but they need to be long lasting and properly maintained too. Curtiss Wright Surface Technology can offer clients a comprehensive material treatments service that covers silicone, plastic and electronic components, coatings, shot and laser peening, material analysis, testing, repair and maintenance.

When it comes to engineered coatings, Curtiss Wright Surface Technologies have a wide scope of services, including providing thermal management, corrosion and erosion, and protection and repair of turbine components. Curtiss-Wright Surface Technology can provide protective engineered coatings or metal coatings to protect components from the environment, corrosion, heat, and wear. As they can ensure protection for components of any size or complexity, they have a vast client base made up of those seeking their protective coating services, including the aerospace, oil, gas, automotive and medical industries.

Their range of coating solutions includes thermal spray/HVOF coatings, solid film lubricants, liquid coatings, and parylene conformal coatings. Not only that, but Curtiss Wright Surface Technology also offer repair and overhaul for gas and steam turbine components, as well as laboratory testing and process verification for: salt spray corrosion testing, U.V testing and development of



their own bespoke coating systems such as Everlube®, Microseal, and Flurene Lube-Lok®, sacrificial aluminium coatings, diffusion coatings and pre-treatments.

If you would like to find out more about Curtiss Wright Surface Technologies and their many specialised, services and solutions, then be sure to get in contact with the company today. Alternatively, you can find out more about the company by visiting the website below, where information, animations case studies and links to their many services can also be found.

T +44 (0)1635 279621  
[www.cwst.co.uk](http://www.cwst.co.uk)



**Dash Dynamics**  
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**NEULAND**  
Newland Magnetics Europe

**Newland Magnetics**  
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[www.cwst.co.uk](http://www.cwst.co.uk)  
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Shot peening is a cost effective method to help prevent:

- Metal fatigue
- Pitting/Fretting

Engineered coatings help with:

- High lubricity/low friction
- Anti-corrosion
- High release/anti-stick
- Low noise/anti-squeak

C.A.S.E.™ super finishing is used to:

- Increase gearbox efficiency
- Reduce surface/contact fatigue
- Decrease lubricant temperature
- Reduce transmission noise

**Engineered technologies**  
Surface treatments for critical components



**Unisig**  
see them on page..... 7



**MEACHERS**  
GLOBAL LOGISTICS

**Meachers Global**  
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## TCFM contract at Eden Walk, Kingston



TC Facilities Management (TCFM) is now delivering Cleaning and Security Services at Eden Walk in Kingston, part of the Regional multi-let retail portfolio managed by Broadgate Estates and owned by British Land and USS. This new contract commenced on April 1st and will help enable the 10 million visitors that go to Eden Walk each year to have a safe and enjoyable shopping experience.

The team from TCFM, led by Andy Farley, TCFM Contract Manager, will ensure that the extensive cleaning & security expertise along with the

standards that TCFM are renowned for in other Retail and Office sites are replicated, and with it will enable Eden Walk to provide visitors with an outstanding place to visit.

The contract will utilise smart management systems and state-of-the-art technology to help maintain and improve standards along with delivering robust monitoring and management reporting to Broadgate Estates, all with the aim of delivering unrivalled customer service and value.

Having been able to demonstrate added value within other cleaning & security contracts, the contract was awarded based on TCFM's proven track record spanning almost 55 years, along with their design of a bespoke solution, built on Broadgate Estates' individual needs.

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info@tcfm.co.uk  
www.tcfm.co.uk

## Donations are in the bag for British Heart Foundation

TC Facilities Management (TCFM) have created a national charity partnership to help the British Heart Foundation achieve its aim of beating heartbreak forever. The partnership commenced 6 weeks ago and has set its sights on raising £5K of funds for the charity that conducts groundbreaking research in to heart and circulatory diseases and their causes.

Heart and circulatory diseases kill 1 in 4 people in the UK, causing heart break in every street. Fiona Ellingham, Marketing Manager, TCFM has had a number of family members affected by heart conditions including a niece



who required a heart transplant aged just 5 and a brother who thanks to a special pacemaker, his heart is able to maintain a stable rhythm to keep him alive.

"Speaking with other colleagues at TCFM, it became very apparent that I was not alone in having family members affected and so the partnership was born.

"At the moment, our colleagues are busy having clear outs at home and filling bags with unwanted items that can be sold in the BHF stores across the country. In the last 6 weeks colleagues from all over the country have collected more than 50 of the 300 (minimum) bags of items we're aiming for.

"We have a number of other activities planned through the year that will not only raise funds for BHF but will also train people in how to do CPR, something which saved my brother's life over 2 years ago."

T +44 (0)1737 814016  
www.tcfm.co.uk

## Multi Service Provision

TC Facilities Management are industry leaders in cleaning, security and specialist cleaning provision. Having been set up over fifty-five years ago, TCFM has three distinct brands which are committed to providing a range of services to clients that are reliable, tailor-made and high quality.

Their cleaning services are used by clients up and down the country and are noted for their thoroughness and range of capabilities. Some of these services include day-to-day and janitorial cleaning, periodic cleaning programmes to suit the client, deep cleaning, crucial kitchen cleaning, builder's cleaning and more.



TC Security Services operate in a multitude of sectors such as automotive, retail, manufacturing, events, leisure, education and even local authority. They offer manned guarding services, effective security patrolling, trained in-store retail officers, robust events security, handy mobile patrols, alarm response and key holding. Renowned for these reliable security services, TC Security Services is proud to rated in the top 2% of all SIA listed companies within the Approved Contractor Scheme in the UK.

Contact  
T +44 (0)1737 819142  
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www.tcfm.co.uk

## Website Update

To enable existing and prospective customers to see the full range of solutions it can offer, TC Facilities Management (TCFM) is inviting visitors to explore its recently refreshed website that is said to offer a more engaging experience with improved navigation and functionality.

The site includes extensive information to help visitors understand TCFM's complete range of both single and bundled services. This is brought to life with case studies and short video animations showing the company's capabilities across a wide range of sectors.

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sales@tcfm.co.uk  
www.tcfm.co.uk



## A hat trick that our clients will tell you is well deserved



they have also passed the ISO 9001 and 14001 management systems audits which come in to force next month.

The 4-day visit by both auditors involved full scrutiny of the TC Security Services operation and for the ACS audit included visiting both the Head Quarters and satellite offices along with a mix of varied customers.

The maximum overall score on the ACS audit that can be achieved is currently 175 points. TC Security Services' score of 164 places them not only in the top 2% of all SIA listed companies within the

TC Security Services, part of TC Facilities Management (TCFM), have not only been placed in the top 2% of all SIA listed companies within the Approved Contractor Scheme in the UK,

Approved Contractor Scheme, it also showed an increase in the score awarded by the auditors in 2017. All this shows TC Security Services as one of the very best security companies in the entire country.

Coupled with this was passing the ISO 9001:2015 and 14001:2015 management systems audits. This was the fourth time these new quality standards, which came into effect on September 14th, 2018 have been audited and passed each time.

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## Extra sparkle to Poundland

TC Facilities Management (TCFM) is bringing some extra sparkle to Poundland having secured the contract to deliver window and external signage cleaning across the country. The contract being delivered by a team from TC Specialist Services, part of TC Facilities Management (TCFM), started last month. It provides window cleaning services to every Poundland store, 4 DCs and their admin offices in the UK along with each Dealz store in the Republic of Ireland.

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Poundland store, 4 DCs and their admin offices in the UK along with each Dealz store in the Republic of Ireland.

The team from TC Specialist Services are ensuring that the standards of appearance to the windows and external signage of each site will help to create a welcoming, fresh and engaging environment for Poundland's customers and suppliers.

The contract utilises innovative software which will help to deliver robust scheduling, monitoring and management reporting to Poundland.

In addition to this contract win, TC Specialist Services have also secured an extension to the contract to clean the windows at 678 pubs and restaurants from Mitchells and Butlers' portfolio which includes Harvester, Ember Inns, Vintage Inns, Toby Carvery and Miller & Carter to name a few. This takes the total number of sites cleaned by TC Specialist Services to 2390.

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T +44 (0)1737 814016  
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## Congratulations all round at inaugural graduation



The inaugural intake of service leavers and veterans to graduate from the Forces Media Academy were congratulated by His Royal Highness The Duke of York at a graduation ceremony earlier this month. The event took place in West London where security is provided by a team from TC Security Services.

The Forces Media Academy offers service veterans

the opportunity to study for a Higher National Certificate qualification in Creative Media Production, to gain access to an industry where historically people with a military background have been under-represented.

The Services Sound & Vision Corporation (SSVC), of which HRH has been Patron since 2003, established the Academy last year at its headquarters in Buckinghamshire, which was opened by the Duke in October 2017.

Satia Rai, Senior Operations Manager who leads the team from TC Security Services said, "It was a great privilege for our team to welcome His Royal Highness The Duke of York along with the graduates and many guests who had gathered at the venue to celebrate their graduation from this programme."

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www.tcfm.co.uk

## Breezair TBSI 580 wins prestigious Energy Management Awards



With outstanding cooling performance and energy efficiency, savings of up to 90% in running costs compared to reverse cycle, this innovative product has impressed judges and the public.

Evaporative air-conditioning is a healthier alternative to other forms of cooling because it delivers fresh, filtered, healthy outside air and has very low CO<sub>2</sub> emissions, making it the perfect choice for the environment too.

The patented axial Stealth® fan has an advanced aerodynamic design which results in super quiet operation and produces a constant, cool, quiet, breeze.

The inverter axial drive motor provides maximum energy efficiency while the long-life

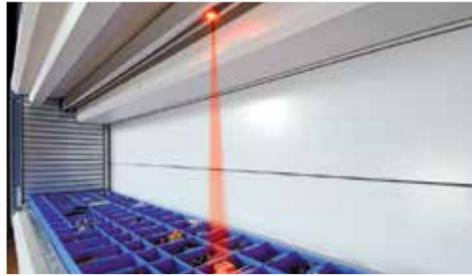
chillcel pads are designed to ensure maximum saturation levels and therefore, maximum cooling efficiency.

The product has been presented together with the case study installation at NIFCO UK limited, manufacturer of functional plastic components for a vast network of automotive manufacturers. 28 Breezair TBSI 580 and 10 extraction fans have been installed in the factory in order to improve thermal comfort and air quality. Displacement effect ensures reliable and efficient air management that can be zoned to suite the varying loads within the production areas.

www.seeleyinternational.com  
www.breezair.com/uk  
www.climatewizard.com

# Why you need leaner processes!

Customer demand is changing the way products are delivered. We have seemingly less time than ever before and with the growing culture of app-based 'click and collect' permeating society, companies are now having to satisfy their customers' needs, faster and more accurately. The introduction of warehouse automation is vital to addressing this requirement.



This isn't just consumer goods, more and more companies are offering 24/7 deliveries and this is putting greater strain on the factories that have to manage these processes.

Flexibility is key here as instead of continuing to rely on rigid logistics concepts, more and more companies are turning to flexible systems to effectively manage their internal warehouse.

**kardex**remstar

## Smart Intralogistics Solutions



Flowtechnology UK 'FTUK,' is a major provider of fluid power products in the UK, they recognised a need for a more efficient storage system for its constantly expanding product portfolio. Rather than move premises they invested in 16 Kardex Shuttle XP vertical lift systems ASRS which optimised their current warehouse space and as a result, their productivity increased by more than 300%, whilst picking errors went down to almost zero.

For Flowtechnology, optimal productivity was essential for the handling, storing and retrieval of their stock. Many companies have different kinds of stock and Kardex understand the need to provide dynamic and flexible storage solutions no matter what needs to be stored. Stock with extreme dimensions and heavy goods require well-thought out storage logistics and goods with a total weight of up to 5,000kg per tray can be efficiently integrated into storage logistic processes. Using flexible designs such as vertical lift systems Kardex is focused on optimising the use of available space, making the most of existing ceiling height and minimising footprint.

From efficient hardware to fully integrated systems, our solutions can store thousands of items from small goods such as nuts and bolts to large items. Kardex provide maximum productivity, performance and safety, improving your ergonomics and efficiency, making optimal use of the available space to secure long-term success and profitability.

**Kardex has a long history of innovation working with organisations that recognise the short and long-term benefits that automated storage and retrieval systems can bring, delivering on the promise of improvements in labour, space saving and faster picking times. To learn more, contact us by email at: [info.remstar.uk@kardex.com](mailto:info.remstar.uk@kardex.com) or call us direct on: +44 (0)1992 557237.**

### Optimise your warehouse for fast and accurate picking

Whether you have complex logistic needs or look for scalable storage solutions, Kardex Remstar enables you to stay ahead of the game by optimising your warehouse with efficient automated storage and retrieval systems.

Save time. Save space. Automate.  
[www.kardex-remstar.co.uk](http://www.kardex-remstar.co.uk)



# Munters a 'Cool Partner' for DataBank



cold in the northern climate of Minnesota where wind chill can drop to -35°F. This highly effective cooling system saves in annual operating costs resulting from lower power and water consumption compared to conventional water-cooled chiller

systems. The choice of DataBank to partner with Munters and integrate the Oasis IEC cooling technology has resulted in a pPue = 1.06 and a PUE = 1.12.

The low PUE, proven reliability of the Munters Oasis Units has

contributed to the overall capital savings experienced by DataBank, allowing them to operate with a competitive edge.

Global enquiries to [datacentres@munters.com](mailto:datacentres@munters.com)  
[www.munters.com/datacentres](http://www.munters.com/datacentres)

Best Practice UK takes particular pleasure in dedicating the prestigious and highly sought after 'Commitment to Excellence' profile to Munters. This impressive feature has been awarded to this company as they continually strive to create energy efficient solutions for air treatment and climate control technologies.

DataBank is a leading provider of customized colocation solutions and services that are designed to help organizations manage risk and improve business performance. With 10 data centres located in various parts of the country,

DataBanks team of experienced professionals are familiar with various challenges faced while creating energy efficient design strategies.

In a due diligence process consisting of comprehensive technical analysis and discussions with existing clients, DataBank has chosen to partner with Munters and utilize the proven Oasis IEC data centre cooling technology.

Focusing on the latest DataBank location in Minneapolis, Munters Oasis Indirect evaporative cooling (IEC) units with the patented EPX polymer heat exchanger have been install to effectively reject heat from the data centre.

The Oasis units are %100, Indirect Air Side Economizers and do not introduce outside air. With no leaks, and a recirculating system, the data centre is cooled without the introduction of outdoor air pollutants that might adversely impact the servers.

On cold and cool days, the Oasis heat exchanger operates dry and simply acts an air-to-air heat exchanger. Outside air (commonly referred to as scavenger air) indirectly cools the data centre air through normal heat exchange, without the use of any water.

The EPX polymer tubes have been tested and are proven effective despite the extreme

How Cool Are You...

Not many does energy efficient cooling with a global range.  
We do.

Munters is a global leader in energy efficient air treatment and climate solutions. Using innovative technologies, Munters creates the perfect climate for customers in a wide range of industries including data centers and has been defining the future of air treatment since 1955.

Today, around 3,500 employees carry out manufacturing, sales and service in more than 30 countries. When it comes to Data Centres, Munters currently cool over 1GW of rejected heat while achieving low partial PUE results, CO2 emissions and high energy savings.

[www.munters.com/datacentres](http://www.munters.com/datacentres)  
E-mail: [datacentres@munters.com](mailto:datacentres@munters.com)

 **Munters**  
Your Perfect Climate

# The bespoke badge specialists manufacturing dazzling badges

Best Practice is delighted to announce that Dash Dynamics has been awarded our **Badge Specialist Company of the Year** for their design and manufacture of resin domed badges.

Dash Dynamics are one of the UK's leading suppliers specializing in domed auto badges,

3D plates, custom keyrings and printing.

The automotive industry takes up a large part of their services however they work with in every area of the industry, offering control panel graphics, badges, safety badges and branding to all sectors, from leisure to one off prototypes.

In the last year, the company has grown 11% and invested a large amount of money towards new printers and cutters, constantly updating their website and undergoing training courses to ensure they are ahead of the competition. Whilst only a small company, Dash Dynamics are dedicated to ensure that all requirements are met in an efficient time



## The UK's domed badge specialist



frame. The Dash Dynamics' website offers a range of videos to introduce clients to the staff and explain how the company works.

David Wilkinson of Dash Dynamics has stated that "We are dedicated to getting our products finished to the highest standard, at a fast pace. Our timescale depends on the product, but we like to reassure our clients have a clear time-scale and are completely satisfied."

The domed badges stand out through the use of resin and close detail, customers are able to bring their own designs, which can be reworked into an eye catching design, by the graphic designers and manufacturers. All auto badges are regulated to automotive specifications, ensuring that no issues arise. The inks used are solvent or latex based, whilst the resin is made of two part polyurethane. The finished product will not go cloudy, fade and is scratch resistant, ensuring the product remains at the highest standard, for years to come.

We supply a wide range of domed badges for all industries which can be customised to include your own design, logo and details. We can print directly from your supplied vector artwork or hi-res PDF's. For a cost-effective and professional way to brand and personalise your products for your market or application contact us by phone or email with your requirements.

Here at Dash Dynamics, unlike many of our competitors, we specialise in small production runs. So if you just need a series of machine panels for a new prototype or low production run, then simply send us your artwork and we'll get on with it.



Machine Safety/Operating instructions

Control Panel Graphics

Quality Manufacturing Branding



In honour of receiving the Company of the Year award, David stated that "For a small company to win this award, against larger scaled companies, is brilliant and demonstrates the hard work that goes into all of our projects. It is a fantastic achievement and shows our progression as a company, against competitors."

Dash Dynamics current aim is to expand their business through new designs and features, whilst also continuing their excellent customer service approach through their strong work ethic and fast-paced timescale management. The company hopes to achieve this through investments towards advertising, new printers and cutters. The company also offers student placements, which enables students to work alongside the company, in the areas of graphics, printing, videography and marketing with the potential of a future career within the industry.

Contact David Wilkinson:  
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# Newland Magnetics: Create a better, cleaner world

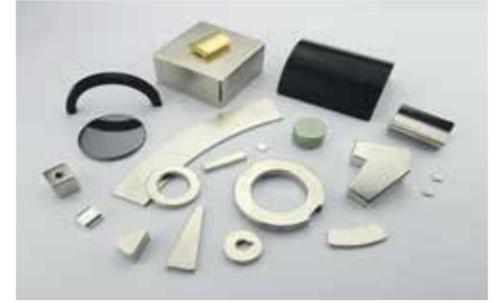


target for us is in the green energy, automotive, medical, Aerospace, Industrial, and food industries.

Therefore, our team aims to provide clients with high-quality service, cost-effective prices and total customer satisfaction in order to 'create a better cleaner world,' which is implemented at every level of the company."

So, if you would like to find out more about Newland Magnet's specialist services, then don't hesitate to contact the group today. More information can be found on their website listed below:

T 0033 545839959  
M 0033 621964112  
info@newlandmagnetics.eu  
www.newlandmagnetics.eu



Established over 12 years ago and with ISO 9001:2015 and IATF 16949:2016 accreditation, Newland Magnet Corporation Ltd, located in Ningbo China is recognised as a leading supplier and manufacturer of NdFeB magnets, magnetic assemblies, separators and more cutting-edge technologies. Due to the success of the company, Newland Magnetics Europe was formed and is the European subsidiary of Ningbo Newland Magnet Corporation Ltd.

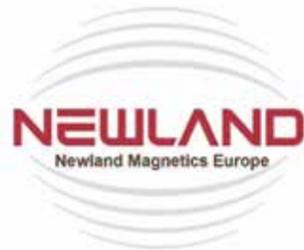
Newland Magnetics Europe with its offices and warehouse located in Cognac France are part of the Ningbo Newland Magnetics group who with an annual turnover of more than £30M, and production capacity of 1,000 tons per year, is rapidly becoming one of the largest producers of high-quality NdFeB magnets in China.

Additionally, Newland Magnetics Europe can provide material data, technical, design assistance and sampling to assist with your application. Once in production, they can also provide a range of stocking options including consignment stocking at their location in France or within your own facility. Newland Magnets can also supply AlNiCo, SmCo, ferrite magnet material, Bonded Neodymium and NdFeB Powder.



When asked about what differentiates the company from the competitors on the market, Newland Magnetics Europe Managing Director, Forbes Crisell, explained that, "From our Location in France and working with our growing network of engineers throughout Europe, we are able to provide technical support in a number of European languages, fast sampling and offer unique stocking solutions. Using specialist simulation software, Newland Magnetics design the optimum magnetic component for the customer's product, meeting individual clients' needs and tailoring their services accordingly.

"Additionally, Magnets are used in most industry sectors and the main



## Newland Magnetics Europe SAS Your total magnetics solution provider



## Supplying a complete range of magnetic solutions from our European Offices

Newland Magnetics Europe with its offices and warehouse located in France, are part of the Ningbo Newland Magnetics group who have been manufacturing Sintered NdFeB magnets and magnetic assemblies for over 12 years. Now with an annual turnover of more than €30M, ISO9001:2015 & IATF 16949:2016 accreditation and production capacity of 1,000tons per year Newland Magnetics is rapidly becoming one of the largest producers of high-quality NdFeB magnets in China.

Newland Magnetics Europe can provide material data, technical, design assistance and sampling to assist with your application.

Once in production we can also provide a range of stocking options including consignment stocking at our location in France or within your own facility. Newland Magnets also supply Bonded NdFeB, Flexible magnetic sheets, magnetic powder, AlNiCo, SmCo, Hard ferrite and complete magnetic assemblies.

Please visit [www.newlandmagnetics.eu](http://www.newlandmagnetics.eu)

Tel: +33 (0)6 21 96 41 12 | Email: [info@newlandmagnetics.eu](mailto:info@newlandmagnetics.eu)

# Deep Hole Drilling at its finest

First established in 1981 by the Swiss Industrial Group (SIG) and the US Company United Technical, UNISIG is the leading provider of the complete deep hole drilling system. In 1995 it was taken over by Entrust Manufacturing Technologies Inc and went from strength to strength, amassing a number of achievements along the way. With their range of specialist services, the company facilitates advice, services and



products across the Deep Hole Drilling Machine Industry.

Since being acquired by Entrust, UNISIG have boomed in terms of innovation and expertise, with Entrust investing extensively in the future development of UNISIG deep hole drilling machines and products. Bringing a new perspective and ideas, Entrust have tested the limitations and capabilities of

new products through in-depth processes, ensuring their products are as high quality and long lasting as their clients have come to expect.

UNISIG offers machines, tools and automation systems that fulfill any Deep Hole Drilling purpose required by their customers. With their equipment, they are able to create precision parts with unmatched levels of accuracy. Producing high performance equipment and components, whilst applying a variety of standards such as, ISO, DIN and AGMA, means UNISIG use only those components that have proven effectiveness and global demand.



A note-worthy feature within their range is their B-Series Rack and Pinion drive machines. Providing an endless amount of capabilities, the B-series machines deliver a full deep hole drilling system, perfect for manufactures requiring the largest dimensions. These series use BTA, (a process that accurately drills precise holes from 20 - 630mm in diameter), alongside other tools that produce centre line holes in round parts. Built to uphold their customers' high standards whilst solving industry challenges, UNISIG's B-series Rack and Pinion driven machines are made of powerful drives and durable components, making this series a valuable investment for deep hole drilling needs.

UNISIG's vast global customer base has expanded immensely with rapidly rising interest across the Americas, Europe and Asia. Manufactured in the USA, UNISIG's head office, engineering centre and production centre is based in Menomonee Falls, USA. Advertising globally, UNISIG also have a European sales and support office based in Germany.

An upcoming appearance for UNISIG within Europe is the IWA OutdoorClassics event on the 8th-11th March 2019 at the Exhibition Centre in Nuremberg. IWA OutdoorClassics is a world-leading trade fair for hunting, shooting sports, equipment for outdoor activities and civilian/official security applications. The show houses the top acknowledged manufactures and traders, showcasing the best in the business in terms of products and machinery.

Through consistent growth, investments and innovative ideas, UNISIG has gone from strength to strength, building a strong reputation for supporting their clients in completing the most challenging of projects.

For any further information please feel free to visit their website or alternatively, to speak to them directly, please call them on the number stated below.

Contact  
T +49 (0)7125 9687590  
[www.unisig.com](http://www.unisig.com)



UNISIG is one of the largest producers of deep hole drilling machines and a leader in technology, innovation, support, and service that our customers rely on to be competitive. Our customers include small job shops looking to expand their capabilities, to large OEM's that need to drill millions of holes.

We offer the entire deep hole drilling system – machines, tools, and automation. We provide technical expertise, training, and remote as well as on-site service to help maximise the value of the investments our customers have made.

UNISIG machines are engineered and manufactured in the USA for our global customer base. Our machines can be installed and supported anywhere in the world. We have installations in the Americas, Europe and Asia and provide the technical support and service our customers need to stay productive through the life of the equipment.

We believe our success stems from a very strong understanding of the deep hole drilling process, drilling tools and their applications. We have a long history of achievement, regardless of the technical challenges.



For more information, please visit our website: [www.unisig.com](http://www.unisig.com)  
Tel: +49 (0)7125 9687590 | Email: [info@unisig.de](mailto:info@unisig.de)

# Carcoon®

Telephone: **0161 737 9690**  
Email: **info@carcoon.com**



## Market leader in car storage systems in the UK and Worldwide

We are the official manufacturers and distributors of the carcoon, bikebubble and workstation product ranges. Established back in 1990's, Carcoon is the clear market leader in car storage systems in the UK and Worldwide.

### The Concept

Protective, storage environments, designed for infrequently used vehicles.



**Isolate** from the constantly changing temperature and humidity of the ambient environment.

**Stabilise** by removing excess moisture, fuel/oil vapour and other contaminants from within the mini environment.

**Ventilate** using the patented Active Airflow Concept.

**Circulate** the air isolated within, by using Activated Carbon Filters under pressure.

Please visit our website for more information at **www.carcoon.com**

# Manufacturers of Patented Airflow-Storage Environments

## Carcoon®

Carcoon are proud to be the official manufacturers and international distributors of all Carcoon products, including BikeBubble, EVO, Veloce, JetCell, HeliCell and a full range of Carcoon Workstations. Initially specialising in innovative car storage systems, their range of products have greatly expanded over the years, all expertly designed in house for each particular purpose. Patented storage units are designed to isolate, stabilise, ventilate and circulate the air within the enclosed protective environment.

One of the company's most popular products, the Indoor EVO Carcoon, distinctive in its design and consisting of a separate top cover and base mat. All the user has to do is drive the vehicle onto the mat and place the cover over the car connecting the plug into a 12-volt power supply. One of the



biggest advantages of the EVO Carcoon is its user-friendly and can be used both in garage or outdoor. The EVO Carcoon both indoor and outdoor models can be custom made, therefore allowing both tall vehicles and reduced height units to be catered for.

Additionally, all Carcoon storage systems (including BikeBubble) use the unique 'active airflow' function, re-circulating air using Activated Carbon Filters. This creates a protective 'clean room' within the storage environment keeping the vehicle perfectly protected during the winter months. All Carcoon storage systems boast automatic battery backup and battery management for the stored vehicle.

Carcoon also manufacture a unique and patented range of Free Standing Workstations enable the same high level top quality work offered by traditional body shops at a fraction of the cost, with the added convenience of working on location. Workstations are produced in a whole range of sizes suitable for the smallest paint job right up to units large enough to

accommodate painting locomotives on site. Furthermore, the Carcoon Workstation is specifically designed to protect the environment from potentially harmful emissions using a minimum of 2,800 CFM air supply and massive three-layer paint arrest and activated carbon filter chambers.

Carcoon is a very special company in that every single product produced is unique to the company.

If you would like to get in contact with Carcoon, contact them on the number listed below. Alternatively, if you would like to view an extensive range of their products and services, visit their website.

Contact  
T +44 (0)161 737 9690  
[www.carcoon.com](http://www.carcoon.com)



# Fuel Efficiency and Emissions Reduction Specialists

Opti Innovations was first established in 2012. Based in Halifax, West Yorkshire, the company specialises in producing a fuel additive known as Opti-Diesel. Opti-Diesel reduces combustion energy losses and reduces greenhouse gas emissions in both diesel and petrol.

The technology was initially invented and developed by a scientist in the United States but has been further developed and brought to market in the United Kingdom. Opti-Diesel has been tested around the world; it reduces harmful emissions and helps to improve specific fuel consumption, which is a measure of the amount of fuel required to generate a specific amount of work output

Opti-Diesel is easy to use, does not require fuel tanks to be changed, requires no extra kit to be installed on a vehicle and has no adverse impact on existing emissions control systems and does no harm to an engine. The product is simply added to fuel and thoroughly mixed in; it can be poured



directly into a vehicle's fuel tank prior to fill up, or, using a proprietary dosing system, it can be dispensed into bulk fuel storage tanks during refuelling, and vehicles can then refuel from that treated tank. The product has been undergoing rigorous tests to provide the very best results for all customers. Opti-Innovations believe their product has the potential to have a large impact on the global consumption of fossil fuels and their environmental impact.

Opti-Diesel is a blend of catalytic metal oxide and organometallic catalysts that have been diluted in an organic solvent. Opti-Diesel contains both oxidation and reduction catalysts. Opti-Diesel was originally created to work with petrol but can also be used with many other carbon-based fuels. The components that form Opti-Diesel are all fully REACH compliant.

The product works initially by the oxidation catalyst reducing the amount of energy the system requires to initiate and propagate combustion, thus increasing the amount of system energy available as output. The reduction



catalysts in Opti-Diesels function by using existing hydrocarbon free radicals that are formed whilst the combustion process is taking place to create chemical reactions that reduces the levels of unwanted gaseous emissions such as NOx and CO.

We spoke to Ted Dickin of Opti-Diesel who said, "If every vehicle was running on Opti-Diesel, we could clean up London in a matter of six weeks! Opti-Diesel is not just about saving fuel and reducing emissions but saving lives too.

With better fuel efficiency comes fewer emissions and less pollution, and we are currently working closely with the influential FairFuelUK Campaign. They are working extremely hard to convince the Government to adopt better ways to lower vehicle emissions, such as Opti-Diesel.

Our Westminster politicians seem to be favouring vehicle bans and hitting drivers deeper in the pocket with regressive toxic taxes, instead of

implementing practical proven and so much more effective methods to improve air quality. FairFuelUK with MPs are soon to publish an All-Party Parliamentary Group report inquiry into these alternative solutions, including Opti-Diesel."

Customer service is at the forefront of the business. They believe in loyalty, honesty and treating all customers with utmost respect, which is why all of their knowledgeable staff are fully trained to help give you the best customer experience possible.

For further information of general enquiries, please visit the Opti-Innovations website. Alternatively, you can contact the company via telephone or email.

Contact  
T +44 (0)1422 349118  
[contact@opti-diesel.com](mailto:contact@opti-diesel.com)  
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Technical Dr Michael Coyle  
+44 (0)7890 724144  
[www.opti-diesel.com](http://www.opti-diesel.com)



# CFB's Hot Water Boilers Land leading role in Film Special Effects

Steam and hot water boiler specialist, CFB Boilers, has recently built two commercial containerised hot water boiler plant rooms for Multifilm SFX Ltd, a leading provider of special effects to the film industry. The boilers, which were shipped all the way from CFB Boilers' manufacturing facility in Essex to the film set in Hungary, are being used to heat water in large tanks where actors play out aqua-based scenes. They have already been used in a number of major Hollywood blockbusters, including the 6th instalment of a science-fiction film about a cyborg assassin from the future, which is due for release in autumn 2019.

Multifilm SFX has decades of experience in delivering all types of mechanical, physical, aqua and pyrotechnic special effects for the entertainment industry. Scenes filmed in water create a special challenge for Multifilm SFX. For seascapes, large water tanks are used to capture the essence of being in open water, and often feature wave machines. Of course, for reasons of health and safety, the water has to be maintained at a reasonable temperature for the actors.

In 2017, Multifilm SFX wanted to invest in a heating unit that was reliable, transportable and manufactured to high standards. Having previously purchased a steam boiler from CFB Boilers, which the company uses to create effects such as railway station scenes or steam rising from the New York metro, Multifilm SFX knew exactly where to turn.



"The steam boiler has performed exceptionally well so I decided to go back to CFB for the hot water boiler, despite the logistical challenge of transporting such a large unit between the UK and our location in Hungary," explains Gábor Kiszelly, Multifilm SFX's Special Effects Supervisor (who has over 100 film credits on IMBD).

The company selected a 1,000kW high-efficiency hot water boiler to be supplied in a containerised plant room. As with all tailor-made containerised plant rooms from CFB Boilers, the boiler and ancillaries were mounted on a steel chequer floor plate to provide a complete solution; only external connections were required before it was ready to use.

CFB Boilers also took complete care of the plant room's transportation, ensuring it reached Hungary safely and swiftly. "CFB Boilers have been excellent from the outset," says Mr Kiszelly. "I could easily have used a boiler specialist here in Hungary, which logistically would have been much easier, but I have no regrets going to the UK. We've had good service from CFB Boilers despite the distance between us – the delivery of the unit was first class. They even helped get a local resource in place for support purposes."

Since arriving last year, the boiler has performed excellently, with no issues. So, when Multifilm SFX recently decided it needed another heating unit, the company ordered an almost identical, second containerised boiler from CFB Boilers.

"If filming takes place at the end of autumn, or the beginning of spring, for example – no shooting is done in winter as temperatures are almost constantly below zero in Hungary – one boiler is not sufficient to heat the water," explains Mr Kiszelly. "As a result, and because the first hot water boiler has

been so reliable, we ordered another unit from CFB Boilers. This has now arrived and gives us complete flexibility to fit in with demanding film schedules."

The containerised boilers from CFB Boilers have already been put to use on a number

of big-budget productions currently being filmed.

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## Trio of products

The Dock Gate range from A-SAFE is said to offer significant impact protection in a manually operated solution.

A-SAFE says the flexibility of its Memaplex polymer technology means extreme forces of impact by heavy vehicles can be mitigated in a solution that is light enough to be operated by hand.

Each member of the Dock Gate family has its own specifications: **iFlex Dock Gate:** This

configuration offers heavy duty impact protection for standard loading bays between 2.4 and 2.5m wide. It will take enough force to contain a 12,000 Joules impact: the equivalent of a 7t forklift truck travelling at 4mph.

**iFlex Dock Gate XL:** The Dock Gate XL will cover bays from 2.5-3m wide, distancing the supporting bollards from the edges thereby reducing the potential for damage whilst still containing 7,000 Joules impact.

the equivalent of a 4t forklift truck travelling at 4mph.

**eFlex Dock Gate:** Where reliance is on hand-powered cages and pump trucks travelling at up to 4mph, this version will contain 4,000 Joules impact - more than enough to prevent costly damage to dock door and warehouse infrastructure by up to 2.5t weight.

**Contact**  
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[www.asafe.com](http://www.asafe.com)



## World leading printing and labelling technologies



Focus Labels specialise in the design and manufacturing of narrow web presses for use in the label and packaging printing industry. Since their establishment in 1981, the company has been pushing the envelope of design and manufacturing, first making a name for themselves with the launch of their innovative Textile printing machines for apparel labels.

Today, Focus Labels stands as one of the industry's leading manufacturers of Flexographic, Textile label and Hybrid Digital inkjet presses, with a vast client base that stretches around the world. In fact, up to 70% of their products are still designed and built for global export across the textile, self-adhesive labels, digital, packaging, and even food and drink industries.

Focus Labels champion servo and digital inkjet technology within their modular systems, allowing users to improve their press-time management and productivity, reducing waste and increasing efficiencies. Their label printing machines are also designed to be user friendly, with a wide range of automated systems that can combine both analogue & digital hybrid printing technologies. Purely British made, their in-house design team and engineers develop customised machines made specific to client needs.

Focus Labels' Hybrid Digital inkjet Printing Machine, known as the 'd-Flex Hi Q' uses the most advanced KM1800I Piezo drop on-demand Ink Jet heads, with the machine offering everything from in-line CMYK and White inkjet plus Flexo printing and coating, to corona treatment, laminating, varnishing, die-cutting and now UVLED drying technology - all in one press.

Another of their sought-after machines, especially for their export market, is the Centraflex, which is a Common Impression or 'CI' type flexo press utilising Solvent or UV curable inks. In addition, it also features 'roll to roll' and 'roll to sheet' converting options. The Centraflex has proven highly popular and is primarily used for printing labels and meat casings plus various other more difficult substrates such as unsupported films.

If you would like to find out more about how you can get your hands on Focus Label's diverse label printing systems, be sure to get in contact using the details provided. Alternatively, if you would like more information, check out the website below.

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# Micronclean: Innovation in Action



At Micronclean, our passion is to be the first to develop new technological solutions that change the shape of the markets we serve creating efficiency and quality for our customers.

Micronclean started as a local laundry for Skegness and has been owned and managed by one family since the 1920's. At that time, the business concentrated on hand finished laundry services focusing on quality, innovation, attention to detail and customer care. These attributes underpin all the products and services Micronclean now offer which range from our traditional hand finished linen through laundered garment services for both industrial clients and high-tech pharmaceutical companies throughout the UK to cleanroom consumables which are sold in the UK and overseas.

Our evolution started in the 1970's when we introduced the first tunnel finisher into Skegness which had the benefit of drying garments using steam thereby doing away for the need for



ironing. During the 1980's we built the first cleanroom laundry and we were the first laundry to adopt ISO9001.

The 1990's saw the introduction of garment tracking and we were the first laundry to use Radiofrequency identification (RFID) technology through which we track individual garments in our Protrack system. We were the first laundry to adopt ISO14001 environmental standard.

The building of Louth in the 2000's saw the development of the first (and only) large scale



ISO6 cleanroom laundry, Louth's sortation system remains the most sophisticated in the UK. Alongside this we developed an innovative automotive paintshop garment washing process which remains the most effective for that environment. We achieved Risk analysis and Bio-contamination Control (RABC) accreditation, ISO14065, the first Laundry in the UK and still the only cleanroom laundry to do this.

The current decade has seen the introduction of our alcohol trigger sprays for our clean room consumables customers which have challenged 30 years of received wisdom and have transformed the market place.

Micronclean has a turnover of just over £30m and employs close to 450 people across the UK with most these being based

at our three main production sites in Lincolnshire. We have an active Continuous Improvement programme driving business improvement for our customers.

Looking to the future we are confident of growth not only in the UK where we have recently opened a new Class6 cleanroom for the production of sterile syringe packs but also in selected export markets. In line with this we have recently announced the formation of a joint venture company to sell our cleanroom consumables and have also incorporated an Indian company so that we can start building a cleanroom laundry in Bangalore to service the rapidly expanding Indian Pharmaceutical market.

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[www.micronclean.com](http://www.micronclean.com)



## Hygienic housing for critical aseptic liquid filtration applications

The 76B Series single cartridge housing from Amazon Filters is a high-quality product specifically designed for aseptic liquid pharmaceutical and healthcare filtration applications. The vent and drain connections on the 76B Series housing can be customised from a wide range of options to provide an optimised filter housing for your application.



The housing is designed and manufactured to provide crevice free sanitary finish with all internal surfaces having a 0.4µm RA value making it an ideal choice for critical liquid pharmaceutical or healthcare applications, where a standard finish is simply not good enough. The hygienic design of the 76B Series housing is easy to clean after use ensuring quick turnaround between processing of batches. Designed to be easily sanitised or steam sterilised prior to use – the 76B Series housing ensures that the sterility of your process is maintained.

For further information on the 76B Series filter housing, please visit: <https://www.amazonfilters.com/products/filter-housings>, contact Amazon Filters on: +44 (0)1276 670600 or email: [sales@amazonfilters.co.uk](mailto:sales@amazonfilters.co.uk).

## SSI Schaefer Storage Facility holds 150 years of history



As a Legal Deposit Library since 1710, Cambridge University Library has been entitled to claim a copy of every book published in the UK and Ireland for more than 300 years. Today, the University Library collections encompass around nine million books, manuscripts and other physical items. So what happens when the University Library runs out of space to store them all?

Having recently designed and installed a similar storage solution, SSI Schaefer provided in-depth technical knowledge and design expertise to ensure the required state-of-the-art facility would not only house their important collection in a secure and controlled environment but also provide sufficient storage as it expands over the coming years.

The SSI Schaefer storage solution involved the construction of 24 aisles of high bay narrow aisle shelving with each aisle being 38 m long with shelving 11m high, providing an overall storage area at the facility of 87,000 m<sup>2</sup> which offers superb storage density.

Over 68,000 dividing shelves were fitted with storage trays located on the shelves 2 or 3 trays deep, providing over 100,000 locations. In addition SSI supplied 25 high density drawer cabinets providing 600 drawers to store large format maps and documents, located within the shelving at ground level.

Contact [www.ssi-schaefer.com](http://www.ssi-schaefer.com)

## Ammonia filtration key to efficient antibiotics production

Amazon Filters has installed a combination SupaPore FPW/SupaPore VPBA filtration system at a leading antibiotics manufacturer's fermentation plant enabling them to reduce production downtime resulting in significant cost savings.

Efficient antibiotic production requires the use of high-quality ammonia to adjust the pH of the fermentation process. Yet, the antibiotics manufacturer was receiving batches of ammonia of varying quality, which required

sterile filtering before use. Despite this precaution, the manufacturer had to replace blocked final membrane filters on a daily basis resulting in unacceptable levels of production downtime and the high costs of replacement filters.

After studying the production process, Amazon Filters recommended using a SupaPore FPW pre-filter to protect the final membrane filter the SupaPore VPBA replacing the customer's existing final filter, with a micron rating of 0.2µm. This membrane filter is specifically designed to meet

the demands of pharmaceutical producers requiring efficient and reliable microbiological sterilisation and bioburden control – essential factors in antibiotic production.

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**SSI SCHAEFER**

# Consortium of local steelwork and logistic firms join forces for hurricane devastated school



Now four 40' cargo containers full of steel work are being shipped across the Atlantic for the project on the island of Tortola, with three more to follow in the coming months.

REIDsteel commercial director Tim Cook said, "We have built strong personal and professional relationships over many years in the Caribbean.

"It was terrible to see the damage wreaked by the hurricanes last year so we're very grateful to Peter Haycraft for giving us the opportunity to help him give something back to Tortola. Our thanks to our suppliers and business associates who rallied around immediately. It is great to see the first shipment depart and we're looking forward to the school rising from the ashes."

Others involved in the project are architect AEMC Architectural Services, Civil Engineer AEC Consulting Engineers Ltd, Electrical Barry's Electrical Services, Reliable Plumbing, S & D Security, and the British Virgin Islands Ministry of Education and Culture.

Hesketh Newton, managing director of Newton Construction Co Ltd, said, "We have made good progress so far and the new school will really begin to take shape with the arrival of the steelwork.

Rob Lewis, Operational Director - Freight Forwarding at Meachers Global Logistics said, "We were delighted to be approached to help with this project. As a family run business, giving back to the community is something we strive for."

The first ground has been broken for the reconstruction of the school, which is due to open in September 2019. It will have state of the art classrooms with smart boards, computer suites, library, solar panels, wheelchair access and therapeutic suite for instruction of specially gifted kids.

Tata Steel is helping with the supply of ComFlor® floor decking and providing Colorcoat® pre-finished steel including Colorcoat Prisma®, whilst Cardiff based Euroclad are giving finished roof systems.

Thirsk-based National Tube Stockholders has given steel tube and steel hollow sections, Joseph Ash Galvanising is hot-

dip galvanising the structural steelwork and Ayrshire Metal Products has given secondary steel - cold rolled purlins

Barnsley-based BAPP has supplied industrial fasteners and bolts, Powell Gee of Shrewsbury has supplied fixings for floor decking and the external cladding envelope.

Kestrel Liner Agencies, a global Caribbean shipping specialist which offers weekly sailings from more than 145 ports to the Caribbean basin, is helping with shipment and Meachers Global Logistics with shipping services.

Andy Thorne, Kestrel group chairman, said, "In the immediate aftermath of Hurricane Irma and Maria we were able to get people on the ground and provide specialist logistical and financial support to the region. A year on we are delighted to team up with our customers and partners to help rebuild the school. Our mission statement says it all, 'Global reach - local focus'."

Contact [www.meachersglobal.com](http://www.meachersglobal.com)



Meachers Global Logistics, one of the UK's leading independent providers of international freight and transport logistics services has offered to support, REIDsteel to help transport steelwork on a 4,000 mile journey from Dorset to the Caribbean for the reconstruction of a primary school, devastated by hurricanes Irma and Maria last year.

A consortium of businesses in the UK which have joined forces to help rebuild the Enis Adams Primary School in the British Virgin Islands are providing support free of charge, in kind or at a discounted rate to the total value of £35,000.

They are Meachers Global Logistics, REIDsteel, Tata Steel, National Tube Stockholders, Joseph Ash Galvanising, Euroclad, Ayrshire Metal Products, BAPP, Powell Gee & Co Ltd and Kestrel Liner Agencies.

Meachers has offered their support and services to help ship steelwork and supplies to the British Virgin Islands for the project. Main contractor in Tortola, Newton Construction Co Ltd is leading the construction work and will erect the steelwork. Virgin Islands businessman Peter Haycraft has pledged \$1m of his own money for the school reconstruction to help the local community.



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\*IEEE Transactions on Industry Applications. (Volume: 38, Issue 6, 2002)

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# Position switches

The Schmersal Group has launched a new generation of position switches. The new PS product range offers varied applications, as all the position switches can be used both as complete devices and as modular units.

Type 1 position switches in line with ISO 14119 are for the position detection and monitoring of moving parts on machinery and plants as well as for lateral or pivotable protection equipment. The new range is suitable for a wide range of applications across all individual disciplines of machine and plant engineering

– both for automation and safety applications and for lift engineering. The protection types IP66 or IP67 create the prerequisites for using the position switch in unfavourable environmental conditions.

The modular design of the PS range with consistent components across all models is said to reduce the number of variants, reduce storage costs and increase availability. All the position switches in the PS116, PS2xx and PS3xx ranges available within the modular system can be chosen both as complete switches with

actuating element or as basic switches.

Depending on the application, the basic switches can be combined with the necessary actuating element, which can be selected from a range of possible versions. This achieves the greatest possible flexibility in application and at the same time reduces the number of different switches available.

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## International Engineering Specialists



Renold Couplings was first established in 1946, where the company acquired a factory in Cardiff; Renold Couplings began to manufacture in 1947 and had celebrated their 70th Birthday earlier this year. Renold Couplings is a division of Renold PLC, which is an international group delivering high precision engineered power transmission products to its customers worldwide. From its purpose built factory in Cardiff, Wales, Renold Couplings design and manufacture couplings and clutches. The company offer solutions for industries such as construction, food, energy, transport, manufacturing, mining and more, and are proud to say they now operate in 23 countries.

Producing a wide selection of power transmission components, the company is renowned for its high quality and variety. Renold Couplings are able to supply a comprehensive range of high-quality couplings including rubber-in-compression, torsionally rigid and torsionally flexible couplings as well as sprag and trapped roller clutches.

Clients around the world turn to Renold Couplings for their products, which can be used in an array of applications, including cement making, chocolate manufacturing, subway trains, power stations, escalators and quarries – anywhere something needs to be lifted, moved or rotated! When it comes to maintenance, in addition to the safety and reliability features, the rubber-in-compression couplings is both time-saving and cost-effective. Better yet, they are 'fit and forget' and do not require lubrication or adjustment of any kind. The only serviceable items are Renold Couplings' rubber blocks, which in the majority of cases are suitable for use even over a ten year period.

When it comes to Power Generation Couplings, Renold Couplings' RBI range is highly sought after by multiple industries, including rubber processing, plastics, fluid transmission, cranes and hoists, bulk and material handling, pulp and paper and many more. Used in heavy-duty machinery to control resonant torsional vibration, the RBI is a highly integrated component that boasts severe shock-load protection, misaligned capability, is maintenance free and low in cost.

For further information or general enquiries, visit the Renold Couplings website. Alternatively, you can contact the company via telephone or email.

T +44 (0)2920 792737  
[cardiff.sales@renold.com](mailto:cardiff.sales@renold.com)  
[www.renold.com](http://www.renold.com)

# The National Sewerage Association



The Association has been representing the interests of its members whether they are

contractors, equipment manufacturers or suppliers involved in the survey, cleansing and maintenance of sewerage and drainage systems either in the domestic, commercial or utility sector in some form since 1980.

Our members operate in specialist drain

and sewer maintenance areas carrying out works such as CCTV inspections, flow monitoring, manhole surveys, cleaning and descaling, blockage clearance and minor civil engineering works.

We seek to set standards appropriate to our members' activities and to monitor performance in delivering services. We also promote training programmes and lobby relevant bodies, including government and regulators, to seek to ensure that proper policies are pursued to secure effective sewerage and drainage services

and to maintain and develop the market for our members' services. Officers of the Association are represented on standards bodies and various Forums.

It acts as a forum for its members to ensure that technological developments go hand in hand with improved operational efficiency to meet increasing service standard requirements, whilst looking at existing and new market opportunities.

It also acts as a focus for complaints on non-conformance and other general/

technical inquiries.

The Association regards the maintenance of standards to be of paramount concern to safeguard the good name and continuance of the industry, therefore good health and safety practices, sound workmanship, employment practices, operator training, customer service and sound common sense are encouraged.

T 0208 330 0123  
[nsa@sewerage.org](mailto:nsa@sewerage.org)  
[www.sewerage.org](http://www.sewerage.org)

## New distributorship for Cinderella Eco Solution



LeeSan has become the Sole distributor for Cinderella Eco Solution incinerating toilets. 4 different toilets will be available very soon running on Propane Gas or 240V.

Cinderella Motion represents an entirely new concept for waste handling in Off-the-Grid locations, Marine craft, mobile homes and recreational vehicles. It is now possible to get rid of toilet waste in a hygienic and simple manner. The end product is just clean ash. The toilet may be used around 70 times before emptying is required. Cinderella Motion is a further development of the popular Cinderella incineration toilet currently installed by over 60,000 users worldwide.

An incineration toilet is a toilet in which waste products, urine and excrement, are incinerated at a high temperature, leaving only an insignificant amount of ash.

Available around the world for decades, incineration toilets are a commonly used alternative in mountain cabins, remote areas, tiny homes, off-grid structures and other residential and commercial applications without easy access to public utilities. Since incineration toilets do not require the installation of a water supply or costly septic systems, and do not demand ongoing and messy work to process waste, their slightly higher unit price is heavily offset by lower maintenance over time, providing a substantially lower total cost of ownership than other solutions, both in terms of money and headache.

Several types of incineration toilets are sold around the world, using both electricity and gas as the energy source powering their combustion. Depending upon your application, different energy sources may make more sense.

### Unique Advantages of Incinerating Toilets

- No water supply or septic connections required
- Possible to use without grid power connections
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- No need to supply bark, chemicals, etc.
- No insect issues

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- **N.S.A.**  
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# A new benchmark in cable compliance

What does the BSI Kitemark mean to you? To most UK adults they see the Kitemark as a benchmark of quality and safety and that as the holder of a BSI Kitemark it sets you apart as a reputable and reliable company. You see the BSI Kitemark on car windscreens, on moulded plug sockets, on smoke detectors - they're in your home and around you in everyday life. Once you consciously look for one you see many.

So what about a BSI Kitemark for cables? Cables are ubiquitous - part of the unseen but

essential infrastructure, all around you in both domestic, commercial and industrial settings. Yet despite it being recognised by the 'average consumer,' the BSI Kitemark isn't available on cables. It can apply to cable management systems and finished equipment involving cable, yes, but not to the cables themselves.

That is, until now. The BSI Kitemark for Cable Testing Verification is a programme regulated by and under the rigorous surveillance of the British Standards Institution, that sees cables



extensively tested against British, European and international standards in a UKAS-accredited laboratory. It's the new benchmark in cable compliance.

### The value of third-party approvals

In most cases, cables are produced against an over-arching standard - BS5467, BS EN 50288-7 and so on. Many of these hold third-party approval marks from industry bodies such as BASEC, LPCB. These valuable certified marks all provide important confirmation that the cables have been independently tested and they're all recognised and relied upon by people inside industry.

But these third-party approvals don't cover all types of cables, some are only made 'generally to' or 'in accordance with' a standard, such as the commonly used SY, CY and YY cables, the difficulty in verifying the quality and compliance can leave customers confused.

Yet aside from an overall cable standard, the individual components - the conductor, the insulation and other constructional layers - are bound by their own British and European standards. For example, conductor resistance needs to meet the requirements of BS EN 60228.

Being able to show that a specific construction of cable is compliant with relevant standards is hugely important, both in terms of assured performance for long-term use, but also from a due diligence perspective and in justifying the specification and selection of that product.

### BSI Kitemark Testing

BSI Kitemark testing gives demonstrable evidence that cables meet these underlying standards, as well as the overall cable standard where applicable. For the Kitemark to be applied, each component layer is tested to relevant standards and it happens on a very granular level. Cables, across the core configurations and cross-sectional area sizes have been examined and tested. This isn't a small endeavour to take on and consistently deliver.

### The first Kitemark approved cables

The BSI Cable Testing Verification Kitemark has been achieved by one company, Eland Cables. The Cable Lab is their UKAS accredited ISO 17025 test facility, and they've worked with BSI to develop the scheme over the last two years.

Eland Cables launched their own range of industrial automation cables, called Veriflex® which included SY, CY, YY, Servo, PUR and fieldbus cables. As BSI Kitemark testing is designed for, it allows the company to verify the quality, safety and performance of these cables against British and European standards. For Eland Cables it's about providing consistency and continuity to a range of cables that traditionally has suffered for a lack of overarching national standards, and putting compliance at the top of the agenda in every conversation.

### Final words from BSI

Paul Turner, Certification Technical Expert at BSI said, "As the first company to achieve the BSI Cable Testing Verification Kitemark, Eland Cables sets a new benchmark in cable compliance. The rigorous and extensive testing programme they undertake in their UKAS laboratory, under our ongoing surveillance, tests the cables to British and international standards for key safety criteria. The BSI Kitemark is one of the most recognised symbols of quality and safety and by certifying their cables against the scheme, Eland Cables can demonstrate that its cables meet the highest standards."

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“As the first company to achieve the **BSI Cable Batch Verification Kitemark**, Eland Cables sets a **new benchmark in cable compliance**. The Kitemark is applied to products, including the Veriflex SY, CY and YY range of PVC and LSZH control cables, under strict UKAS test parameters and subject to **BSI's rigorous surveillance programme**. The range of tests provide third-party assurance that cables meet **relevant British and international standards for key safety criteria**, making them fit for use in appropriate applications.”

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## Drainage survey key step for waste-to-energy plant



A drainage survey carried out by Lanes Group plc has been an essential step towards development of a new waste-to-energy plant.

Drainage engineers based at the Lanes Chester depot completed the two weeks of drain and sewer investigations at the site in Northwich, Cheshire.

Lanes has been commissioned by demolition specialist Scudder Demolition, part of the Carey Group of companies, to carry out the detailed CCTV drainage survey. The site is being prepared for the construction of a new waste-to-energy plant that will generate enough renewable electricity for more than 125,000 homes.

Phil Shelley, Site Manager at Scudder Demolition, said, "An important step is to have an up-to-date accurate map of the surface water and foul drainage system across and around the proposed development site.

"This will allow us to make sure the integrity of the drainage system for adjoining facilities is maintained during demolition and site development. The drainage survey will also allow our civil and structural engineers to plan the reconnection of surface water drains and foul sewers where that is necessary."

The Lanes CCTV drainage survey team is using robotic crawler cameras and push-rod cameras to inspect pipes with diameters ranging from 150mm to 300mm. The surveys will result in the generation of an accurate drainage map of the surveyed site, as well as HD-quality video of pipework revealing its condition, and any remedial work that is needed.

Lanes won the work by competitive tender and will also carry out water jetting of drainage lines that are found to need cleansing.

Sian Wyn Jones, Area Development Manager for Lanes Chester, said: "We use the most advanced CCTV drainage survey system. This allows us to quickly compile survey reports that focus on data of specific interest to client in a format that's quick and easy to analyse. Our drainage teams in Chester have a lot of experience of working on industrial sites, including nuclear energy, so can be trusted to work safely and effectively in such settings."

The waste-to-energy plant is being developed on land owned by Tata Chemicals in Northwich.

Phil Shelley said: "The Lanes teams have been doing a very good job for us. They're very punctual, professional and responsive, and comply fully with all our site management regulations."

[www.lanesfordrains.co.uk](http://www.lanesfordrains.co.uk)

## Denso protection system for Hereford Water Pipeline

Lewis Civil Engineering is currently constructing an 8km length water main pipeline in Hereford for Dŵr Cymru Welsh Water.

Winn & Coales (Denso) Ltd were contacted for information on the most suitable anti-corrosion system along with application training of Lewis Engineers for the pipeline's Viking Johnson joints. The selected Denso system meets the P2 Civil Engineering Specifications for Water Industry and consists of Denso Primer D™, Profiling Mastic and 150mm width Densoclad™ 70 Tape.

Denso Profiling Mastic is a vital part of the system,

it is applied to seal the voids, bolts and heads around the joints to avoid moisture entrapment. The Densoclad™ Tapes consist of a thick polymer-bitumen adhesive, giving superior adhesion and flexibility, laminated to a tough plasticised PVC backing.

The Denso materials were supplied via Burdens Civil Group, Merthyr Tydfil.

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# Introducing the NANOULTRA Range

What we've heard from our customers is they want better product information, easily accessible, easy to understand and order from. They also told us they value our way of doing things, our agility and our cutting-edge technology and they wanted the products and the company to look the part of the world class partner we are.

Our purpose is to harness the Industrial Internet of Things to help you power your business. In order to give our customers this clarity we have re-branded to create a new identity and a true product family. Our company logo now represents the wireless solutions for IIoT that sit at the heart of all we do.

Our standard hardware products service a wide range of applications and offer you the chance to immediately access the Industrial Internet of Things to power your business.

They all seamlessly link to the CDL SmartHub™ where you can configure and manage assets, set alarms, view audit trails, integrate and export data, view trends and visualise data.

Investing in the NanoULTRA and CDLSmartHub™ gives you access to a fully integrated end-to-end IIoT solution to effectively manage your assets.

The products within our range all have their own unique attributes that deliver solutions within specific application areas. But what they all do is log data and transfer it securely to our IIoT asset management platform, the CDLSmartHub™, where the raw data can be turned into actionable insights, delivering you a quick return on investment.

Our unique position of having application specialists, hardware, software and firmware engineers in house allows us to go a step further and custom build our standard range to ensure our customers get exactly what they need.

This ability to adapt and remain agile can allow customers to engage us on these special projects and ensure that their Industrial IIoT needs are met!

## NANOULTRA - EDGE

Managing a network of field assets has never been easier with the NanoULTRA - Edge. It has the flexibility of up to 16 I/Os, integrated SD card and communication via mobile phone networks. Its high-resolution data transfer happens seamlessly and securely from multiple assets to our secure cloud platform, the CDLSmartHub™.



## NANOULTRA - MATRIX

The NanoULTRA - Matrix allows you to connect multiple wireless sensors to a single base station allowing measurement of temperature, humidity, CO<sub>2</sub>, WME and more. The analogue input wireless sensor option allows not only connectivity to our sensors but opens up the ability to connect with 1000s of available 'off the shelf' sensors, which creates infinite options for accessing the Internet of Things within your sensor networks.



Our internally made, battery-powered wireless sensors incorporate state-of-the-art sensing technology to accurately measure and monitor data, before transmitting to NanoULTRA - Matrix base station. The data is then transmitted via mobile phone networks to our secure cloud platform, the CDLSmartHub™, where raw data can be turned into actionable insights. Previously known as the RDL/1000 and the Nano//1000, we plan to build on this product's capability.

## NANOULTRA - VIBE

Monitoring the levels of vibration in a static environment has never been easier with the event base NanoULTRA - Vibe. It has been carefully designed to be robust for use in harsh environments such as construction sites, yet simple to use and sensitive enough to capture low frequency vibrations providing you with valuable data on events as they happen. Formerly known as the RDL//



Vibe, this unit will continue to be a leader in event-based monitoring for the construction industry.

## NANOULTRA-SHOCK

Managing the tracking and condition of assets on the move has never been easier. NanoULTRA - Shock is a battery powered, web based, real time monitoring system that tells you where your shipment is whilst in transit, and what shock loadings and environmental conditions your goods are subjected to.



Previously known as the Shocktrail, this product is designed to meet our customers' logistical tracking needs.

## NANOULTRA - ATOM

Deploying remote environmental sensors has never been quicker and easier. The NanoULTRA - Atom is a self-contained, battery powered temperature and humidity data logger that seamlessly communicates its values to the CDLSmartHub™, recording temperature and relative humidity (RH). Formerly known as the NanoATOM, this compact unit quickly addresses your environmental needs.



Investing in hardware from the NanoULTRA range and CDLSmartHub™, gives you access to a fully integrated end-to-end IIoT solution to effectively manage your IIoT needs.

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The business, which is based in Cardiff, was founded in 1949 by Franz Skalitzky and Cyril Hodges and as a family-run organisation it is now managed by their two sons John Skalitzky and Alun Hodges.

Over the course of its existence Elmatic has become a leading manufacturer specialising

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& Plate Heaters, Nozzle Heaters, Cartridge Heaters, Ceramic knuckle heaters, Tubular rod Heaters, Immersion/Flange heaters, Air Duct Heaters, Ceramic Core heaters, Strip Heaters and Roller/Disc Heaters. The inventory also includes a range of Load Banks for the testing of generators and all forms of Fabrication & Sheet Metalwork.

The country's leading heating element manufacturer and industrial & electric heater supplier boasts the largest array of equipment on the market and its quest for innovation has led to the obtainment of many exciting industrial developments (such as Mica Band & Plate Heaters, Nozzle Heaters, Cartridge Heaters and Ceramic knuckle heaters).

Its latest addition is a line of square section heaters which can be used in situations involving injection/blow moulding, rubber moulding, mould & tool dies, manifolds, plastic process machinery & more.

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## Europe's leading manufacturer of Odour Control and Biogas Cleaning Units



Anua Clean Air International Ltd is one of the UK's leading suppliers of odour control and biogas cleaning units. Originally established in 1990, the business was recently taken over in 2015 by Ian Phillips, whom partnered with long term distributor Air Clean Srl. As a result of this takeover, the company is now world-renowned as a leading international supplier of patented clean air bio-technologies.

Specialising in the provision and maintenance of proven, high performing, clean, biological air filtration technologies, Anua Clean Air Services are accredited for providing first class biological air filtration technology with the lowest life cycle cost. Concentrating in odour control for waste water treatment, solid waste, VOC and food industry treatment plants, Anua Clean Air Services ensure that with every odour control cleaning unit, each client is getting the most out of their air-filtration technologies.

One highly sought after product is the Mónashell biofiltration system, a popular alternative to chemical scrubbing and carbon adsorption. Recognised for its optimal odour performance, this cost-effective cleaning unit generates a 67% footprint reduction and can even treat high and variable concentrations of numerous organic sulphides. All of the biofiltration systems which Anua Clean Air Ltd manufacture and install, including Mónafil and CrumRubber models, are have patented proven systems.

As Europe's leading odour cleaning company, Anua can be found at numerous trade shows throughout the year, such as RWM in the UK, Pollutec in Paris, WEFTEC in the US and IFAT in Germany. If you would like to get in contact with Anua Clean Air Services to find out how their specialists air bio-technologies can benefit you, or if you would like to receive a free quote, then don't hesitate to pick up the phone today. More information can also be found by visiting the website below:

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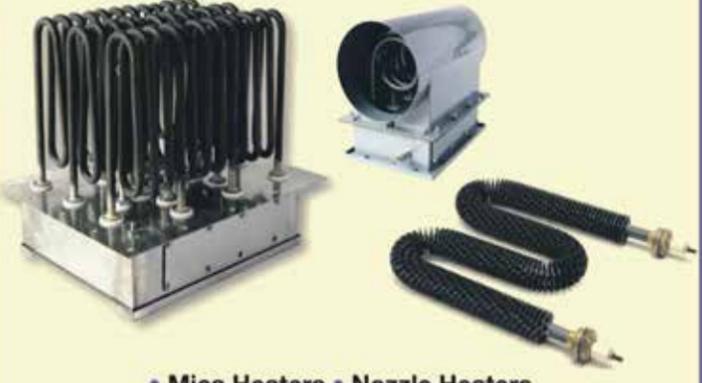
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the Automotive, Lighting, Heating, White Goods and many other industries.

BTM's flagship technology is the Tog-L-Loc, which has continued to be extremely

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In addition to Tog-L-Loc, BTM also provide aluminium clinching technology 'V-Loc,' a harder rotation resistant version of Tog-L-Loc called 'Lance-N-Loc' and leak proof version 'Oval-Loc.'

For more information on these specialist products, visit the 'product' section on the website listed below and download the information sheets or you can contact the company by phone and speak to one of the friendly and helpful team.

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## Fraser launches Roto-Clean 4900

Fraser has launched an advanced product to clean and neutralise static in injection moulding workflows.



The Roto-Clean 4900 blasts pulsating ionized air from single or multiple heads to clean a product and remove static that could attract further dust. The device consists of a dual rotary nozzle driven by a patented centrifugal control integrated into a circular static eliminator.

Bruce Clothier, CEO at Fraser Anti-Static Techniques, believes the unique device is the perfect complement to more traditional forms of cleaning and static control on the production line.

"Fraser has created a niche in cleaning and static elimination in injection moulding environments. This includes our traditional range of 4125 air guns, 5100 and 5500 airknives, and 4510 and 4400 nozzles. We have now developed Roto-Clean to complement the capabilities of the range.

"Roto-Clean is incredibly versatile and can work as a standalone head on a robotic arm or as an array over a production line conveyor. It has an unrivalled capability to clean complex shapes or bulky items and prevent further contamination, particularly where processes are heavily automated.

"Its design is technically advanced, incredibly flexible, extremely economical and above all highly effective."

The combination of powerful, pulsating air and static elimination gives Roto-Clean an advantage over alternative products. It will set new cleaning standards in environments that require strict quality control or when products move on to secondary processes such as labelling or decoration where they must be dust free.

The device uses less air delivered at a lower pressure than airknives, delivered at a greater intensity of ions per cubic centimetre. An air bar revolves at 60 revolutions per second using a patented centrifugal control powered solely by air. Air from two nozzles is ionized as it passes over a circular static eliminator. The pulsed airflow contacts the product up to 240 times per second, blasting away dust from various angles including crevices. The nozzles require no additional power source.

Roto-Clean is shockless and suitable for tough industrial processes, powered by the Fraser HP power unit. Roto-Clean is available in 112 and 178mm diameters, with operational pressure from 1 to 3.5 Bar.

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