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# Introduction

## Farming for the future

With its industrial heritage rooted firmly in farming, Northern Ireland provides a range of innovative solutions to the agricultural sector, both locally and internationally.

For generations, expert skills and knowledge have been nurtured within the region, with companies constantly refining and adapting their products and services to meet the changing needs of a global customer base.

Fusing farming expertise with expert engineering and academic research, Northern Ireland is now at the forefront of agricultural innovation. As a result, it is helping to increase productivity around the world through cutting-edge technology, designs and products that are making a tangible difference to the agricultural sector.

Whether it's designing more efficient farm machinery, treating animal diseases, manufacturing agricultural components or investing in R&D, all these areas and more are benefitting from Northern Ireland's expertise.

As a result, when it comes to ensuring a more productive and efficient agriculture sector, Northern Ireland is more than capable of delivering the solutions a global industry requires.

## Innovative companies

Laser-cutting specialist, Hutchinson Engineering Ltd, provides expert engineering services and products, and works closely with universities as part of its R&D commitment.

Provita Eurotech Ltd is another company shaping a positive future for farmers, by developing innovative natural animal healthcare products. One example is Provita Protect, a non-toxic treatment for calf scour which reduces reliance on antibiotics.

Norbrook Laboratories Ltd is further delivering pioneering results with its veterinary drugs and treatments, while Randox Food Diagnostics is a specialist in food safety. RHI Water Ltd provides innovative rainwater harvesting systems and greywater recycling technology to help agricultural clients generate sustainable water supplies, while Agquip Ltd creates bespoke slurry handling equipment to increase yields and efficiency.

## Expert research

Northern Ireland also continues to have an international reputation in food safety thanks to pioneering research from the Institute for Global Food Security at Queen's University Belfast.

This reputation is further boosted by research from Ulster University— with both institutions acknowledged centres of research excellence in agriculture, veterinary, food sciences and biosciences. Meanwhile, the Agri-Food and Biosciences Institute (AFBI) is using scientific excellence to advance the agri-food sector, performing specialist R&D, statutory, analytical, and diagnostic testing.

## Outward-focussed region

These are just some of the examples of Northern Ireland's forward-thinking agri-tech businesses and organisations – all committed to ensuring a better future for food and farming, working with customers and partners globally.

Leading companies include Unitas Software, who have developed an innovative cloud-based poultry software package, now increasing flock yields and enhancing efficiency for customers all over the world. Partnering with large global brands, Unitas currently exports to 70 countries through these partnerships, benefiting farmers in countries such as Canada, Australia, the rest of the UK and the US.

Devenish Nutrition exports its sustainable and innovative nutritional products worldwide, including pre-mixes, pre-starters, starters and concentrates, boosting the performance and profitability of its clients. The company has also developed an algae-based product which provides a source of Omega3 fatty acids (DHA and EPA). When fed to poultry and then consumed by humans, it helps to improve heart, brain and vision health.

UPU Industries is a world-leader in crop packaging and pallet netting. The company's innovative product Colorbale, which binds and holds bales, has been successfully launched in the US and Australian markets. It has also developed the ReflectorNet stretch pallet netting and is now established as a worldwide market leader within this sector.

## Company matrix key



Farm Machinery



Animal Health



Equipment Manufacture



Research



Food Safety



Animal Housing



Service Systems and Solutions



“Advancing the local and global agri-food sectors through scientific excellence.”

## AFBI

### What we do

The Agri-Food and Biosciences Institute (AFBI) is a multi-disciplinary scientific facility which provides a range of world-class services to clients within the agri-food sector

### Our product range

Working with government departments, industrial/commercial companies and with bodies representing the agri-food industry, AFBI performs specialist R&D, statutory, analytical and diagnostic testing, as well as consultancy work on a global scale.

### AFBI is a partner in a number of EU Horizon 2020 projects and works across the following key areas:

- Agriculture
- Animal health
- Biosciences
- Plant and animal production systems
- Aquatic ecosystems
- Food safety and quality
- Profitability of the agri-food sector

AFBI services include:

- Basic, strategic and applied multi-disciplinary research.
- Evidence-based specialist scientific advice and consultancy services to industry on agriculture, food, fishing and environmental issues.
- Analytical services to detect microbiological and chemical/environmental contaminants in food, food products and animal feed; fish stock assessment; soil and grass analyses.

### Where we work

AFBI is already collaborating with companies and government agencies in North and South America, Australia, New Zealand, Africa, China and the Middle East, as well as EU member state countries in the areas of R&D and service delivery within food, agriculture and veterinary sectors.

Ireland, France, the Netherlands, Spain, Sweden, Finland, Germany, Austria, Denmark, Iceland, Faroe Islands, Portugal, Romania, Norway, Slovenia, Italy, Greece.

### Customer service excellence

AFBI's integrated scientific approach ensures that it is well placed to address the important challenges of sustainable intensification of food production.

Facilities include:

- Highly equipped research farm facilities.
- Plant breeding and plant testing services.
- A dedicated renewable energy centre.
- An ocean-going marine research vessel for the aquatic and renewable energy sectors.
- Comprehensive animal health laboratories.

### Some examples

#### Economic analysis report

In 2018 AFBI published a major economic analysis on the Impacts of Alternative Post-Brexit Trade Agreements on UK Agriculture. The report analysed the impact of three different trade scenarios across a range of different sectors of the agri-food industry using the FAPRI-UK Model. The report has been widely referenced since its publication.

#### Centre for Innovation Excellence in Livestock (CIEL)

AFBI is a founding member of the UK's CIEL, which aims to provide a direct link between science and practice to enable broader, faster and deeper innovation uptake in the livestock sectors. This will increase the speed of innovation and discovery in livestock research, helping to develop commercial products and services for the agri-food industry.

#### COMPASS project

This EU-INTERREG VA-funded marine science project provides baseline oceanographic and ambient noise monitoring in support of Marine Protected Areas (MPAs). This is achieved through a network of monitoring buoys across the regional seas of Ireland, Northern Ireland and West Scotland.



### R&D expertise

With a highly trained scientific workforce of approximately 300 scientists, along with in-house biometrics and economics support, AFBI is a 'one-stop shop' for a wide range of projects. The team also has extensive knowledge of the agri-food industry from field to fork and holds an IP portfolio, including licence agreements on vaccines it has developed for animal health sectors.

### AFBI's main areas of R&D expertise include:

- Sustainable and welfare-sensitive livestock systems.
- Renewable energy systems for the agri-food sector.
- Management and protection of natural land resources.
- Fish stocks and the aquatic environment.
- Food safety and quality, especially of animal products (beef and dairy).
- Plant health and biodiversity.
- Animal health.

### Accreditations/Certifications

- Most analytical testing is ISO 17025 accredited.
- All research is accredited to ISO 9001.

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"The right equipment for longer grass"



## Agquip Ltd

### What we do

Agquip designs and manufactures a range of agricultural machinery for largescale dairy farms, farm contractors and the biogas industry. Operating through a network of dealers, the company currently supplies machinery across Ireland, the UK, Europe and New Zealand, delivering innovative design and high-quality equipment for a variety of purposes.

### Our product range

#### Products include:

- Dribble bars
- Trailing shoes
- Tanker mounts
- Bespoke equipment

### Innovative design

Using CAD design technology, Agquip works with customers to design, manufacture and commission largescale slurry handling systems tailored to their specific requirements, which helps to ensure maximum yield and minimum waste for farmers.

The innovative design of the Agquip dribble bar and trailing shoe means clients can benefit from more efficient and effective distribution of slurry, which is deposited directly onto the grass. This ultimately reduces waste and contamination of the grass blades.

### Dribble bar discharge pipe features:

- Super-elastic.
- Kink-proof.
- Excellent weathering resistance.
- Plastic reinforced along its entire length.
- Sprung steel support allows feeder to be deflected by obstacles.
- Injection-moulded rubber distribution boot is flexible and long-lasting.
- CAD designed profile gives optimum flow characteristics.

The dribble bar can also be used with a slurry tanker or an umbilical feed operation, while both it and the trailing shoe use the Vogelsang ExaCut Macerator to distribute the slurry.

Driven by a hydraulic motor, the specially designed rotor moves in both directions, so clogging is prevented during use. This ultimately maximises operating time, with a cab control system warning of any blockages.



### Where we work

Ireland, UK, Europe and New Zealand.

### Some examples

Committed to innovation, Agquip's in-house design team is constantly working on new product ideas to help make farming more efficient.

A recent design saw the development of a mobile app which tracks the exact dosage rate of slurry being applied by their machinery in real time. This resulted in more efficient use of the slurry and also reduced the level of waste.

Agquip also designed a bespoke slurry distribution system for a client in Poland, creating equipment which met their unique specifications. The result was a 2,400m pumping and slurry distribution system, which has led to numerous other enquiries within this market.

### Accreditations/Certifications

CE Approved

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Agquip Ltd



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"World leaders in rubber grading screens."

# Agri Web



## Agri Web Ltd

### What we do

Agri Web was the first company to introduce rubber grading screens to the world market, which dramatically cuts down on crop damage during handling. This level of innovation is typical of the firm; which continues to stay ahead of the curve when it comes to the design, development and manufacture of solutions for the food production, processing and packing industries.

### Our product range

Working primarily in the potato, onion and salad sector, the company has a global customer base. Agri Web can deliver a bespoke solution tailored to its clients' needs and prides itself on delivering quality innovative solutions.

Agri Web works with a large client base, which is a testament to the quality of its work. The firm has consistently supplied all of the major food processing machinery manufacturers in the UK and many around the world.

Agri Web's screens can also be found in all of the UK's leading independent potato supply companies, while sales in North America continue to increase annually through the company's distributors.

Agri Web's products are aimed at damage reduction on fresh products – mainly root crops. The company offers a unique, high-quality product as well as fast lead times and order turnaround. For example, if an order is received from France in the morning, it can be delivered the next day.

### Rubber Grading Screens

Agri Web is the global leader in rubber grading screens. Designed for use on both revolving and flat screen grading apparatus, rubber screens have huge advantages over other types of screens on the market.

Made from soft flexible rubber, the screens reduce damage to the crop during sorting. The screens are light, wear resistant, highly accurate and much less noisy compared to similar products on

the market. Fitted with a steel hook on a fastener, the rubber screens can be easily changed, thus reducing down time.

### Rubber Web covers

Agri Web's patented rubber web cover is another innovative product aimed at reducing crop damage during harvesting. The web cover fits around the second web on most potato harvesters, preventing damage caused by bruising. The web cover acts to cushion the fall, as potatoes move from one web to another.

### PVC food quality perforated belts

The company also manufactures food quality perforated belts specifically for the baby leaf lettuce industry. In addition the company produces a bespoke range of PVC belts tailored to individual customer's requirements.

### Where we work

Agri Web operates through a network of equipment manufacturers, distributors and directly with customers across the world. At the moment the company's products are used in over 20 countries, including the UK, Spain, North America, Australia, New Zealand, India, The Middle East and South Africa. The company continues to expand its operations across the global marketplace, and is dedicated to building and supporting relationships with its distributors and customers.

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## Agri Food QUEST

### What we do

Agri-Food Quest is a membership-based, industry-led innovation centre that supports the agri-food sector in Northern Ireland. It has more than 30 industry members, who work with universities and other organisations in the region to drive innovation.

### Our product range

Agri-Food Quest focuses on increasing the level of collaborative research activity in the sector. The centre is located at Queen's University, Belfast, which is one of the centre's preferred research partners, alongside Ulster University and the Agri-Food and Biosciences Institute.

### The four major aims of Agri-Food Quest are:

- Develop the agri-food industry research agenda through mapping the needs of the local industry. This is based on the strategic pillars of the 'Going for Growth' strategy published by the Department of Agriculture, Environment and Rural Affairs
- Identify relevant science and technology experts who can provide solutions for these needs
- Facilitate partnership between the agri-food sector and research experts, to stimulate innovation and competitiveness
- Help build an improved and sustainable research and development infrastructure supporting the Northern Irish agri-food sector

### Where we work

Agri-Food Quest works with relevant bodies and organisations in Northern Ireland, throughout the UK and the Republic of Ireland, as well as in the EU.

### Some examples

The centre supports research projects through a £6 million, 5-year package from Invest NI. Agri-Food Quest funds projects up to a maximum 75% of their total cost, with the remainder coming from industry in-kind contributions. The centre also makes use of a range of other funding sources, locally, nationally, and internationally.

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“Engineering excellence built on experience.”



## AJ Power

### What we do

AJ Power produces a superb range of quality, reliable diesel generating sets from 10kVA to 3350kVA. No matter the application, a generating set is a vital source of standby power which answers agricultural needs. AJ Power can provide engineered solutions to meet each of its customer's critical requirements.

With a highly skilled workforce, the company can also design and manufacture complex machines and control systems to meet the most demanding specifications.

### Our product range

AJ Power generating sets are designed and manufactured at its state of the art facility in the UK, offering low, medium and high voltage power distribution for up to 13.8kV.

With a management team who each have over 40 years of experience in the industry, the name AJ Power is synonymous with the efficient and economic provision of quality electric power generation. AJ Power generating sets offer reliable power, innovative design and peace of mind.

The company is focused on solutions for customers. It carries an extensive inventory of components in stock at all times which, combined with flexible manufacturing systems, results in short lead times and a fast response to client requirements.

AJ Power's generating sets are built using world class components, whilst canopies are manufactured from heavy duty galvanised steel which is pre-treated and finished with a highly durable powder coated paint, this ensures a longer product life.

The firm invests heavily in staff training – constantly refreshing and updating the skills of its employees to ensure they have the required technical knowledge to constantly innovate.

### Where we work

Offices: UK, Dubai, Sweden and South Africa. Since its inception the company has maintained continuous and remarkable growth and its products are now in use in over 80 countries around the world. Its international presence is marked by an extensive network of distributors worldwide (excluding USA and Canada).

### Customer service excellence

In addition to agriculture, AJ Power generating sets are targeted at a broad range of sectors including industrial, construction and mining, residential, data centres, healthcare, telecommunication and utilities.

### Some examples

The location of its projects may vary, but the need for reliable power in the agriculture sector is a priority. Examples of AJ Power's work include designing and installing generating sets globally for industrial-scale dairy farms, large irrigation systems and bespoke solutions for animal feed and fuel suppliers.

A total of 8 AJ Power gensets, providing 5MW of power, act as an emergency back-up to a cooling system for cow sheds and milking parlours that house 75 thousand animals on a dairy farm in Saudi Arabia.

In Algeria, AJ power has supplied 100 generating sets of 310kVA for a large-scale water project; providing prime power for pumps and centre pivot irrigation systems. In the UK, AJ Power supplied a tailored 1430kVA MTU powered generating set with a drop over enclosure for a leading animal feed provider who required additional power at certain times, using a synchronised generator in line with the main utility power supply.

### Accreditations/Certifications Awards

AJ Power has attained the following accreditations:  
ISO 9001: 2015 Quality Assurance  
ISO 14001: 2015 Environmental Standard  
BS OHSAS 18001: 2007 Health and Safety

British Airways Sponsored Excellence in Exporting Award 2016, 2015 and 2014  
Queen's Award for International Trade 2016

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## Ashdale Engineering Ltd

### What we do

An autonomous, specialist electrical engineering company set up in 1977, employing around 30 (mostly electrical engineers) staff.

Ashdale provides solutions in the fields of PLC Control, Factory Automation, Machine Safety, Instrumentation, Sensing, Barcoding, Energy Efficiency, SCADA, Remote Monitoring, Fire, Security and UPS Solutions. The company is capable of design, specification, supply, commissioning, installation maintenance, service & 24-hour support.

### Our product range

More and more farmers are now growing maize for their biogas systems rather than as fodder for their livestock. Guaranteed returns for electricity fed back into the power grid are making biogas-fired heat and power cogeneration plants economically viable.

Ashdale provides the technical expertise and control systems, for anaerobic digester biogas plants. A typical plant uses food waste, energy crops, crop residues - as well as animal slurries and manure - to produce methane, which is used to fuel a CHP generator producing hot water, and anywhere between 250 - 1000 kW of electricity, which can be exported to the grid.

This technology has been enhanced and proven by Ashdale as a truly local product. As a result Ashdale have been chosen as the main supplier for the control and Instrumentation element of a number of projects.

### Ashdale's Partners

Ashdale maintains very close relationships with each of the manufacturers they represent, providing excellent pre- and post-sales support for any of the distributor partners' portfolio of products and solutions.

Suppliers include: Mitsubishi Electric, Pepperl+Fuchs, Red Lion Controls, DG Beacons, Endress+Hauser, Pilz, Idem, Seaward, Stahl, Riello UPS, MEM, Eaton, Yuasa, Power Batteries, Westermo, Janitza, Starkstrom, MEDC, Advanced, Apollo, Wagner, Commend, SigNET, Datalogic, Intermec and Zebra.

### Where we work

Ashdale has completed projects in Great Britain, the Republic of Ireland, Europe (for example, Brussels & Berlin), Isle of Man and Isle of Wight - in addition to the Northern Ireland market.



The company has also supported equipment in countries all around the world, including America and South Africa.

### Some examples

As well as work conducted at biogas plants, Ashdale has worked with clients on projects in: Waste & Freshwater Treatment Plants

#### Food & Beverage Instrumentation & Control

- Major Drinks Production Lines
- Bakeries

#### UPS Systems

- Waterfront Hall, Belfast
- BT Tower, Belfast
- Titanic Signature Building, Belfast

#### Fire Alarm Systems

- Guildhall & Ulster Hall

#### Disabled Refuge, Induction Loops Air Sampling Detection

- Fire Alarm, UPS & Power Factor Correction
- Ikea, Belfast & Dublin



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## Axon Power & Control Ltd

### What we do

Axon Power & Control is a long established provider of electrical engineering and control systems installations. We have delivered major electrical installation projects for a number of large industrial farms.

We specialise in delivering electrical services to equipment manufacturers and plant operators, in sectors such as agriculture, quarrying, recycling, materials handling, anaerobic digestion and biomass power generation.

Our mission is to work with customers to develop and create innovative, high-quality electrical systems that enhance their work environment.

### Our product range

The key elements of the company's offering are as follows:

- Electrical installation
- Electrical engineering
- Electrical systems design
- Motor control centres
- Control automation software
- Process control
- Inspection & testing
- Maintenance and breakdown

### Where we work

Axon regularly work throughout the UK and further afield, with the capability, as well as the capacity, to deliver in any market, and recently completed projects in the following countries: Trinidad, Spain, Poland, Russia, Africa.

### Customer service excellence

- Professional advice - as electrical contractors - on the design and layout of electrical systems, lighting design, and mains distribution equipment

- Industry knowledge and expertise in the areas of project management, design and installation
- The personnel and equipment required to undertake large-scale projects across all industry sectors

In addition to serving our customers' technical needs, our team also helps them fulfil their business objectives by providing cost effective solutions and the expertise to fully support their team in meeting these objectives.

At Axon we pride ourselves on retaining clients on an ongoing basis, through our strong work ethic, unwavering focus on customer service, and highly efficient operational processes at all stages of project delivery.


### Some examples

Axon has worked on a number of anaerobic digestion plants throughout the UK providing power and instrumentation cabling, I/O testing and plant pre-commissioning services to the plants technology provider.

### Accreditations/Certifications

Axon Power & Control hold the following accreditations, certifications and approvals:

- National Inspection Council for Electrical Installation Contracting (NICEIC) Registered Contractor
- ISO 9001 Registered
- ISO 14001 Registered
- ISO 18001 Registered
- Construction Line Registered
- Avetta Registered (contractor prequalification & supplier management) company

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## Biddy Attachments

### What we do

Biddy Attachments is a family-run business specialising in hydraulic attachments. Biddy Attachments identified a gap in the market for technically advanced, heavy-duty farm equipment, and is quickly building a reputation for developing quality products that are both highly robust and sophisticated.

Farmers want to buy right the first time, and operate equipment that will stand the test of time; this underpins Biddy Attachments commitment to excellence.

The Biddy Attachments team has a true passion for engineering and innovation. All of their products are made to the highest design and finishing standards. The company is increasing its position in new markets, and is currently developing a strong dealer network throughout the UK.

Biddy Attachments hopes to become the number one choice in hydraulic agricultural equipment.

### Our product range

#### An Innovative Range

The Biddy Attachments range has grown to include a wide range of superior and innovative products, including its new 9 meter heavy-duty folding roller. It has a range of other products, including:

- 3-point Linkage aerators, whose features include a large drum that prevents any ground damage, and 20mm 500 grade double chamfered blades. The Biddy Land Aerator penetrates the soil allowing oxygen, rainwater and nutrients to seep in, resulting in deeper rooted, fast growing and stronger grass.
- 3-metre trailed aerators, whose features include: 8 stud axle flotation tyres, large drum, 20mm 500 grade double chamfered blades, mud guards, and a soft ride transport system.
- 6-metre folding aerators: These have a range of advanced features, including heavy-duty construction, 20mm Hardox 500 blades, and three independent barrels to follow the contour of the ground.
- Biddy Yieldmaster Tile Ploughs: This system has been designed to save time and money when tiling, as well as increasing yield.
- Folding rollers: Heavy-duty 30ft folding rollers with large drums, folding to a transport width of 10ft.

#### The company's other products include:

- Cubicle bedders
- Poultry bedders
- Waste Grabs
- Tilt Buckets
- Agri High Tip Buckets
- Wheeled loader buckets

#### Where we work

Markets: UK, Republic of Ireland, Norway

#### Accreditations/Certifications

CE Approved to EN1090-01

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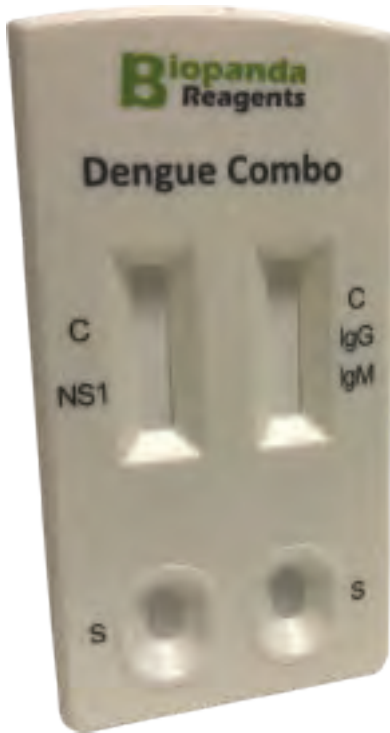
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Employee Numbers  
11-50



## Biopanda Reagents Ltd

### What we do:

Biopanda Reagents develops and manufactures *in vitro* test kits for clinical laboratories, veterinary practice, food safety, and drugs of abuse, both locally and globally. We provide innovative, high quality and cost-effective test reagents that offer the sensitivity, specificity and reproducibility that customers demand.

### Our product range

Biopanda's products are based on the following technologies: lateral flow immuno-chromatography, ELISA, Chemiluminescent-immunoassay, and PCR.

### Food Safety Tests

Biopanda's range of Food Safety Test kits detect the presence of potentially harmful substances in food samples such as grain and animal feed, as well as meat products, honey, and milk. Biopanda kits detect Mycotoxins, Antibiotic Residues, and Beta-Agonist Drugs in food samples.

### Veterinary Tests

The company's range of Veterinary Test Kits detect and assist in the diagnosis of several illnesses common with both pets and livestock.

### Clinical Tests

Biopanda produce a range of Rapid Tests to assist in the diagnosis and monitoring of patients. Our Rapid Tests are based on lateral flow immuno-chromatography to detect the presence of antigens or antibodies in human whole blood, serum, plasma, urine, or faecal samples. These tests are a primary resource for health professionals and are easy to use, providing accurate results.

### Drugs of Abuse Testing

The Biopanda Drug of Abuse Tests are rapid qualitative tests to detect the presence of a variety of drugs of abuse from human urine or saliva samples.

### Urinalysis

These strips are a dip and read test for *in vitro* diagnostic use to test different parameters in human urine samples.

### Where we work

- South East Asia
- Europe
- Middle East
- Central America
- West Africa

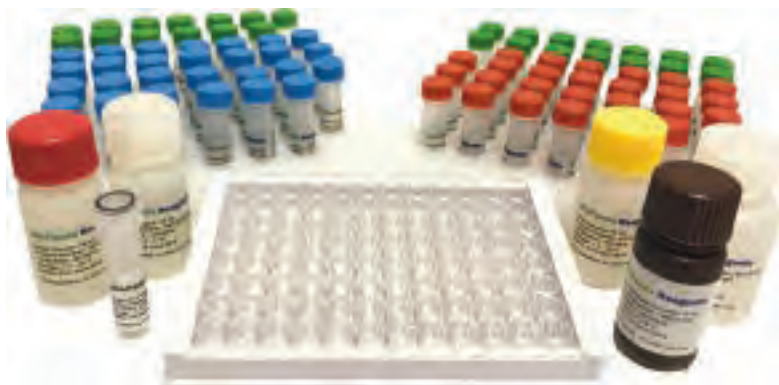
### R&D expertise

The company works closely with universities, research institutes, and other organisations to research and develop new technologies and reagents for customers.

A key element of Biopanda's strategy is to provide its customers with high quality products which will continue to meet the market needs and performance expectations.

### Accreditations/Certifications

- ISO13485
- CE Marking



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## Blaney Agri Solutions

### What we do

Blaney Agri Solutions design, develop and manufacture an expanding range of tractor machinery.

### Our product range

#### Weed control

- Grassland sprayers
- Weed wipers

#### Shredding & hedge cutting

- Flail mowers
- Rush shredders
- Hedge cutters
- Digger flail heads

#### Feeding and bedding

- Bale unrollers
- Bale shredders
- Cubicle bedders
- Poultry bedders

#### Grassland management

- Aerators
- Swathers/grass conditioners



### Where we work

Dealer networks are established in the UK and Republic of Ireland. The company is actively seeking to further develop other international markets.

### Target sectors and target customers

The Blaney Agri product range is aimed at the agriculture and groundcare sectors, with end user clients including the following:

- farmers & contractors
- state authorities: local councils, national trust, rspb, river agencies
- groundcare professionals: landscapers, parks & reserves, property developers

### Some examples

#### Weed Wipeout

With unique patented technology, the weed wiper has lowest running costs per hectare, with unrivalled results due to automatic weed detection and automatic chemical application system.

The unique solution treats only the weeds giving faster kill rates while saving up to 97% chemical.

### Bale unroller

One-tractor operation to feed baled silage without manual work.

### Bale Shredder

These can be used to shred baled silage or straw and feed/spread. The design of this machine has been based around shredding silage allowing a bale to be chopped in 2 ½ minutes.

### R&D expertise

Driven by engineering ingenuity and a strong agricultural background, the Blaney Agri R&D team designs innovative machinery that is simple to use, easy to fit, robust, reliable, and competitively priced.

As a result of its innovation capabilities and advanced processes, Blaney Agri Solutions incorporates new technologies, from product design right through to manufacture, and can modify machinery to suit client requirements.

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Blaney Agri



Employee Numbers  
11-50



## Boyd Bedding

### What we do

Boyd Bedding has produced top-quality bedding for the equestrian market for more than a decade. Its Blue Frog dust-free shavings are sold around the world, with the company offering delivery of its products as required.

### Our product range Blue Frog

Blue Frog is a heat-sterilised, dust-free, virgin wood shaving, made only using pine from sustainable, untreated sources. By using Blue Frog, customers can avoid the damaging impact that dust can have on horses.

A healthy horse will perform better. For a horse to compete at its athletic best, it must breathe properly. Under average stable conditions, a horse can inhale up to 12 million particles of dust into its lungs in a single breath.

More and more horses are becoming sensitised to dust, and many go on to develop allergies.

Using dust-free shavings significantly reduces the respiratory challenge from the horses' environment. The nature of Blue Frog's large flakes allows the company to thoroughly remove all small particles – the most significant stage for horses' health.

### Where we work

Markets: UK, Ireland, Hong Kong, Dubai, Singapore, Thailand, Malaysia, Qatar, Oman, Abu Dhabi, Saudi Arabia.

Blue Frog has found a global market. Boyd Bedding intends to target the European market over the coming year. The company has also entered the emerging China market, and hopes to make more inroads there this year.

### Customer service excellence

The company has extensively consulted with its customers, and has combined their feedback with its own research to establish the ideal size of flake for the best stability underfoot, absorption, and retention of product during processing, packaging and storage. Mucking out and disposal was also taken into account when deciding the perfect size of flake.

The heat used in the drying process ensures there are no fungi, spores or bacteria in the bedding. Boyd Bedding continuously monitors its bedding, with independent microtoxicity tests conducted to ensure the natural sterility of the product.

Additionally, Blue Frog does not rely on waste products from other product processes, meaning there is no seasonal scarcity and Boyd Bedding can keep control over quality and price.


### Some examples

Boyd Bedding won a tender to be the sole supplier of shavings for all equestrian events at the 2012 Olympic Games in London. Winning this major piece of work was key to expanding the business internationally.


Blue Frog shavings are regularly independently tested by the Irish Equine Centre.

### Accreditations/Certifications

The business has obtained International Standards ISO 14001 and ISO 9001.

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 @BoydBedding

 Bluefrog Shavings

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11 - 50





# CDEnviro

## CDEnviro Ltd

### What we do

CDEnviro design a range of waste reduction and recycling equipment solutions for application in the sewage, waste water, waste management and utility industries.

### Our product range

The company delivers innovative waste reduction and recycling equipment solutions across a range of different industries, including the following:

- Sludge screening and tankered waste
- Contaminated soils and brownfield remediation
- Road sweepings recycling
- Gully waste recycling
- Hydro excavation waste processing
- Slow sand filtration
- Waste glass recycling
- Contaminated dredging processing
- Anaerobic waste reduction
- Food processing

### Where we work

- UK
- Ireland
- Europe
- Latin America
- North America
- Australia

### Target sectors and target customers

CDEnviro provides solutions for clients across 4 sectors; Landfill Diversion, Recycling Waste Water, Environmental Remediation and Energy from Waste.

### Some examples

**Essex & Suffolk Water** purchased two sand filter cleaning systems for their Langham and Ormesby water treatment works from preferred supplier CDEnviro.

Essex & Suffolk Water provides water services for 1.8 million people in Essex, Suffolk and parts of East London and is part of Northumbrian Water Limited (NWL). At the water treatment works in Langham and Ormesby, raw water is treated using slow sand filters to produce potable water. This is then delivered by a network of pipes to homes and businesses in Essex and Suffolk.

**Thames Water, Wantage** is enjoying increased production time following the installation of an S:MAX sludge screen, allowing the site to increase its sludge handling capacity as well as increase efficiency.



The Thames Water Wantage sewage works serves 250,000 people, the introduction of an S:MAX sludge screen at the site is part of a £5.4 million improvement project to improve the quality of waste water. Thames Water serves 14 million wastewater customers with 350 sewage works treating an average of more than 4bn litres per day.

**Biffa Waste Services.** Biffa is the UK's leading integrated waste management company providing collection, recycling, treatment, disposal and technologically driven energy generation services. Biffa control the largest volume of waste in the UK, placing the company at the centre of a dynamic and growing sector, providing indispensable services to all UK businesses.

To enhance its service offering, Biffa purchased a 50,000 TPA road sweepings recycling system which is now successfully operating at Biffa Waste Services facility in Horsham, West Sussex.

### Accreditations/Certifications

**ISO: 9001** - Quality Management

**ISO: 14001** - Environmental Management

**OHSAS: 18001** - Occupational Health & Safety Management

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CDE Global



Employee Numbers  
>100



## Crossland Tankers Ltd

### What we do

Crossland Tankers started out in 1988, as a tanker repairs and servicing company, providing maintenance services to local bulk liquid haulage companies.

By the mid-1990s - building on our extensive repairs experience - we began to manufacture our own tankers for the UK road industry, at our factory in Swatragh, trading under the name Crossland Tankers Ltd.

As we continued to grow, we purchased Massey tankers in 2003, giving us access to a state-of-the-art manufacturing facility, as well as a base within the UK mainland. We currently employ over 130 people across our two manufacturing sites at Swatragh (Northern Ireland) and Burnley (Lancashire), and are one of the leading tanker manufacturers in the UK and Ireland.

### Our product range

Crossland Tankers solve logistics problems by creating innovative transport solutions. As a result, whether you need a bulk liquid tanker for; foodstuffs, milk, ADR / chemicals, bitumen, waste, or a completely unique and custom-built application, the company has the capability to build whatever tanker solution you require, to the very highest international standards.

### Market Leading Products

Crossland have developed the lightest waste vacuum tankers for use on the UK & Irish roads. The company understands that moving liquid bio-solids, hazardous chemicals, and industrial waste safely and efficiently, is incredibly important for our customers so, whether you require a semi-trailer, rigid, or drag with an aluminium, stainless steel or mild steel barrel, all our tankers are rigorously tested to ensure they are amongst the safest on the market. All Crossland tanks have the option of internal lining, tipping, as well as hydraulic or manual opening rear doors along with booms for quick connection to outlets.



Finally, with capacity ranging from 5,000-litre rigid vacuum tankers, right up to 33,000-litre semi-trailers, the company can provide you with the most reliable and greatest payload carrying waste vacuum tanker solution, whatever your application requirement.

### Where we work

Crossland have a wide range of customers within UK, Ireland and the EU and are the standard bearer within this market. We also work closely with customers further afield in Europe & Middle East.

### Target Sectors

Crossland supply tankers for the agriculture, food, chemical, waste and bitumen industries.

### Some examples

#### Bespoke Design - 44T GVW Farm Collection Milk Tank

In response to demand from our customer, Dale Farm, we designed and built an innovative steering 29,000L, 44T Farm Collection Milk Tank.

Utilising a Tridac steering system, BPW axles and a specially designed and manufactured Crossland tanker shell, this trailer can reach farms which were previously inaccessible to anything larger than a 26T GVW rigid tanker. The tanker was trialled for durability over a 12-month period before production began in earnest.

Dale Farm now operates more than 10 of these vehicles and the concept is spreading, with these tankers being delivered to milk customers all over the UK and Ireland.

### Accreditations/Certifications

Crossland Tankers meet all industry required regulations including:

- EWVTA (European Whole Vehicle Type Approval)
- ADR (Carriage Regulations)
- IMDG (International Maritime Dangerous Goods)
- RID (Carriage of Dangerous Goods by Rail)
- BS 3441 (Specification for Transport of Milk and Liquid Products)

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# Cunningham



## Cunningham Covers

### What we do

Cunningham Covers specialises in the design, specification and manufacture of custom industrial textile covers for the protection of high-value assets – with a significant emphasis on agricultural industry applications.

After 44 years in the industry, this family business is highly regarded for its innovative approach, in creating quality protective cover solutions (in any shape, size and colour) for a broad spectrum of needs.

### Our product range

#### Slurry Store Covers

Specialised covers for over-ground slurry stores increase the actual slurry storage of the tank, by keeping rain out. By retaining nitrogen that could otherwise be lost to the environment, this reduces the cost of spreading rainwater normally collected by the tank.

Cunningham can make slurry store covers for any tank size. The system uses a centre beam which is bolted to the floor of the tank, using a stainless steel bracket. A stainless steel cone is put on top of the column, and the material is then bolted into place. The cover allows the end-user to comply with the environmental permit for intensive farming and Environment Agencies recommend that all slurry stores are now covered.

#### Wind Breakers

This product can be used throughout any farm that is striving to cut down the amount of wind that is driving through the yard. The Wind Breakers are made from Cunningham's heavy-duty PVC MESH, reinforced with 1.5-tonne webbing.



Wind Breakers are mostly used on the sides of sheds to keep the wind out. However, by adapting windbreakers for any use, our highly skilled workforce can design windbreakers to suit any size, shape, or function.

#### Fertiliser Storage

Keeping stock at the right level can be challenging, and agricultural clients have found that they can often have too much stock for the space available.

To resolve this problem, many of our clients have purchased our bespoke storage covers, enabling them to store stock outside without risk of damage as a result of rain or bad weather. The covers can be wrapped tightly around the stock, or shaped like a tent, to keep stock clean and dry.



#### Where we work

Cunningham has a global customer base: as well as working with clients in GB and the Republic of Ireland, we work closely with clients in Europe, the Middle East and New Zealand.

#### Target sectors and target customers

As well as serving the agriculture sector, we also manufacture covers for a range of other applications including trailers, tractors, boats, trucks, specialist covers for the oil and gas industry, and all of the following:

- Cattle trailer covers
- Tarpaulins
- Wind Breakers
- Grain storage covers

- Slurry store covers
- Cow belt harnesses
- Liners
- Tractor bonnet covers
- Harvester covers
- Printed pen banners/covers
- Mower Skirts

Cunningham's products are adaptable for any sector.

#### Customer service excellence

By utilising bespoke manufacturing capabilities, we can manipulate materials to suit any customer requirements, across a multitude of industries. Furthermore, to further strengthen and prolong the use of its covers, we are continuously investing in R&D to ensure we continue to be the best at what we do.

As well as providing a versatile, highly reliable product, customer service excellence is also critical to our overall offering; our skilled technical staff are always on hand to discuss specific requirements with you to ensure you are 100% satisfied.

#### Accreditations/Certifications

Our innovation in design and our dedication to quality in all areas of our business are acknowledged by our ISO 9001 Quality Award and our 'Investors in People' accolade.

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Cunningham



Cunningham Covers



## Devenish Nutrition

### What we do

With over 65 years of experience in the agri-industry, Devenish is a farming and food company. We deliver sustainable and innovative nutritional products and solutions for the feed industry, the food industry, and for human health, to drive the performance and profitability of our customers' businesses.

Devenish is dedicated to the research, development, and manufacturing of quality pre-mixes, pre-starters, starters and concentrates, together with speciality products for customers in the poultry, pig, ruminant, companion animal and equine sectors.

### Our product range

Devenish works closely with customers to understand their business; by conducting complete on-farm assessments based on a range of factors including genetics, farm management, feed quality and health status, we can then tailor nutritional programmes to suit individual client / farm needs.

### Where we work

Devenish has dedicated offices and manufacturing sites internationally including:

- 6 manufacturing sites across the UK and Ireland
- 3 manufacturing sites in the USA and a distribution centre in Mexico
- Offices in the Philippines and UAE

Devenish currently exports to over 35 countries worldwide, and we are always seeking to increase our global presence.

### Target sectors and target customers

Large scale integrators and producers across the pig, poultry, ruminant, companion animal and aquaculture sectors.

### Some examples

Devenish brought to market an algae-based product which provides a source of omega 3 fatty acids (DHA and EPA) which when fed to poultry and then consumed by humans, the product delivers improvements in heart, brain and vision health.

Devenish also have an extensive range of products which helps producers in the move towards Antibiotic Free production.


### R&D expertise

Devenish has its own research facilities – 5 pig units, 3 poultry farm, and access to beef and dairy units. Our Sustainable Agriculture team have also undertaken research at our ruminant performance farm to develop sustainable land management solutions.

The company also works in partnership with a number of industry bodies, Universities and Centres of Excellence to develop new products, solutions and feeding regimes.

### Accreditations/Certifications

- Universal Feed Assurance Scheme (UFAS) accredited
- Department of Agriculture & Rural Development (DARD) Approved
- ISO 9001 certified
- BETA NOPS (British Equestrian Trade Association) Scheme Accredited - assurance scheme designed to reduce the risk of naturally occurring prohibited substances (NOPS) in equine feeds
- FAMI-QS – Devenish maintains a Quality Management System in compliance with FAMI-QS “Code of Practice for Feed Additives and Pre-mixture Operators”
- Marks and Spencer’s Approved.

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**Innovation at Work**

## EDGE Innovate

### What we do

With over 25 years' experience in designing and manufacturing; EDGE Innovate has quickly become a global leader in the design and distribution of a range of equipment used in agriculture and other material handling sectors such as quarries and recycling.

### Our product range

From our 150,000ft<sup>2</sup> state-of-the-art plant in Co.Tyrone, Ireland, EDGE Innovate uses the latest technology and processes to build innovative, reliable and durable machinery. EDGE's (CE approved) products are built and fully tested before being shipped all over the globe.

EDGE lifetime customer support involves:

- 24/7 Engineering Support.
- Skilled Service Staff.
- Carefully designed Maintenance Schedules (planned preventative maintenance avoids downtime).
- Spare parts in stock at hubs in UK, Europe, USA & Australia (and partnerships with global couriers for fast delivery).

### Design for Agriculture

EDGE's Mini-Loader Stockpiler (EDGE MLS65) is ideal for both agriculture and equestrian activities (e.g. animal bedding, loading trailers, stockpiling mulch, topsoil, aggregates, grain, animal feed).

It is a mobile conveyor, designed with a low-level hopper; engineered to be fed directly by small-medium loaders and skid steers (Caterpillar, Bobcat, Manitou), it can handle materials from 3 loaders working together. The MLS removes the need to double-handle materials and provides huge time saving: up to 60% saving in costs and time.

Some of the other highlights of the EDGE MLS65 product include:

- Superb manoeuvrability around the farm, grain store, etc
- Designed for efficient transportation
- Long-life and low-maintenance design
- Optional power sources - Diesel, Direct Electric, Hydraulic / Coupling, Dual Power



### Where we work

95% of EDGE equipment is exported to the following countries:

- Canada
- Australia
- North and South America
- Africa
- Mainland Europe
- Asia
- New Zealand

With units being exported to over 49 different countries, our products are supported by a well-established distributor network worldwide.

### Customer service excellence

With a central ethos of "Innovation at Work" EDGE Innovate has consistently challenged the boundaries of design and manufacturing to produce hard working, quality machinery that brings real operational benefits to our customers right across the world. Our products are built with one common central design principle: to minimise operational costs while at the same time improving production efficiency.

EDGE is renowned for its' responsive partnerships and customer support; we do not simply manufacture products, we provide solutions that are designed to meet the needs of each customer.

### Some examples

#### Almarai

Almarai is a €2bn Saudi food conglomerate, with Alyoum the group's poultry business involving over 15 million birds. EDGE Innovate supplied 20 mobile Mini-Loader Stockpilers (MLS) to Alyoum, all specifically designed to increase productivity and provide cost savings.

Previously, the company used skid steer loaders to remove bedding, travelling the full length of the house to empty old bedding into trailers. However, the EDGE MLS has been engineered to be fed directly by small-medium sized loaders and skid steers; simply by removing the need for double handling of materials, our solution has delivered huge time savings.

Also, the conveyor can be driven by a Direct Electric Drive which is up to 40% more efficient than either a traditional Diesel / Hydraulic system or other types of Dual Power systems available on the market.

In summary, EDGE solutions have delivered a 60% saving, in costs and time, to Alyoum.



#### Bonnysa

EDGE Innovate provides a waste solution to agricultural producer Bonnysa, the largest producer and exporter of tomatoes in Spain, with crops located in four provinces.

To manage agricultural waste generated in their greenhouses sustainably, EDGE Innovate offered a solution for the shredding of this difficult and bulky waste material via its slow speed, high torque shredder; the Slayer XL.

The EDGE Slayer XL is one of the most versatile products on the market; it can be configured to grind wood, prunings, tires, scrap (white goods), cotton yarn, wool, coconut, plastic, paper, cardboard, MSW, logs, etc. In this case, the slow speed shredder was configured exclusively for the shredding of pruning residues from vegetable greenhouses and substrate bags, palm and palm wood.

The previous strategy employed by Bonnysa was both inefficient and costly. With the Slayer XL, the waste material is shredded and reduced to 10/12 cm, dried and then sent to a recovery agri-biomass facility where the treated material is used for heat production.

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EDGE Innovate



EDGE Innovate



EDGE Innovate



## ElectroMech Agri Ltd

### What we do

ElectroMech Agri Ltd. (EMA) is Ireland's premier dairy parlour equipment supplier, installer, retailer, service provider and support centre. Our expertise in dairy farm management and systems ensures we provide dairy farmers with everything they require to keep their farm milking efficient, cost effective, and profitable.

EMA are exclusive BouMatic dealers for Northern Ireland, offering dairy farmers throughout Northern Ireland and the Republic of Ireland outstanding service, maintenance, and support in all aspects of modern and traditional dairy farming, for both large and small herds.

### Our product range

#### What we offer

- A comprehensive range of BouMatic milking parlours & equipment, including parlour feeding solutions and robotic milking systems
- Cooling tanks and solutions
- Slurry handling products

- Dairy Health and hygiene products and equipment (with Mastitis advice and treatment products)
- Energy saving solutions for farms / businesses
- A wide-ranging portfolio of additional dairy products and services

### Service Support

As a full-service dairy farm support centre, ElectroMech Agri Ltd. offers customers a comprehensive range of service supports, including:

- Full installation services
- Consumable supply, installation and delivery
- Bespoke fabrication manufacture and installation
- Ongoing equipment servicing and after sales call-outs 24-7, 365 days a year
- Warranties on work and equipment



### Where we work

The company operates both direct and through dealers across UK and Ireland

### Some examples

#### Curryglass Farm

This family business farm had 300 acres (all grass), with a Curryglass Holstein herd of 230 pedigree cows with herd average milk production of 10,840 litres per cow. As a result, a state of the art milking facility was required to ensure the farm could continue to be run effectively and efficiently. Since its installation, the performance of the new BouMatic milking system has met and exceeded all expectations:

- Average milk yield has risen and feed costs have reduced
- Owing to parlour parabone design and the incentive of individual feed troughs, cows can enter quickly and milk out without stress
- The system allows enough time for each cow to be well prepared for milking, with time for udder cleaning and time for milk let down before milking commences
- Time to milk is less than two hours per milking, with an average throughput of 120 cows per hour
- Animal welfare is excellent with both mastitis and cell counts well below the UK average
- Variable speed milk pump and vacuum pump systems - as well as the heat recovery system, means the whole system is a lot more energy efficient than traditional installations using continuous running pumps
- Since the installation the system has run without any mechanical or electrical problems

### Accreditations/Certifications

As well as Boumatic, EMA are an accredited agent for both Kilco and Pollock.

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Employee Numbers  
11 - 50



“Outstanding in your field.”



## Erth Engineering

### What we do

Erth Engineering offers a range of non-powered cultivation equipment for the agriculture sector. The company is focused on providing innovative solutions to challenges that have been facing farmers and groundsmen for many years.

### Our product range

Our key product offerings to the agriculture sector are the ‘Panbuster’ grass and arable range of subsoilers and the ‘Agriseeder’ grass drill.

#### Panbuster

##### Grass & Arable Subsoiling

Grass subsoiling results in a more free-draining soil structure and improves plant production in wet conditions. The increased root depth improves grass production in dry conditions. Independent tests show an average dry matter increase of over 20% in a fifteen-month period.

**The main features of the Panbuster are as follows:**

- Reduced wear costs
- Requires less power
- Minimises downtime
- More hydraulics, with an enclosed ram system for better action and reliability
- More control, with hydraulic depth adjustment
- The ability to alter lift by changing pitch with top link
- More protection with high lift height, side swing and shearbolt
- More strength with solid 50mm steel and high-grade steel fixtures
- Bushed auto-reset pull points and constant pressure disks which mean slits are cut at the same depth throughout working range

**In addition, the auto-reset function actively helps keep down stones, resulting in the following benefits:**

- Improved worm activity
- Improved soil fertility
- Reduced poaching
- Improved rooting structure and depth
- Extended growth season
- Increased grass production

#### Agriseeder

##### Grass Drill

This flexible grass drill is perfect for sowing clover, grass, fodder crops, cover crops, set-aside mixes, and cereals, into existing swards or burn-off.

Moisture is the single most important element needed for germination. As a result, by cutting a slit in the ground, using the Agriseeder, a natural moisture trap is produced.

The main features of the Agriseeder grass drill:

- Fertility retained at the surface
- Firm surface with minimal disturbance
- Less moisture loss

- Does not lift stones or drag trash
- Delivers in hard and soft conditions
- Exceptional performance wet and dry
- Superb depth control on undulating ground
- Faster and cheaper sward turnaround
- Low HP requirement, tractors from 100HP
- Slot created is a natural moisture trap
- Slot created shelters the young seedling
- Tilt is created in slot

### Where we work

Erth Engineering has delivered products to clients in the following markets:

- UK and Ireland
- France
- New Zealand
- Canada
- South America

We are currently seeking to expand into new markets throughout Europe and the rest of the world.

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Erth Engineering



Employee Numbers  
0 - 10



## FarmWizard

### What we do

FarmWizard is an internationally recognised provider of agricultural software. It aims to provide effective and reliable management of farm resources across livestock supply chains. FarmWizard's first and foremost aim is to increase profit for your farm and to grow your business with practical management tools.

With a series of web-based, farm software solutions, it takes just minutes to get up and running:

- View and manage records anytime and anywhere
- Access records from Android, iOS, or any browser
- Bluetooth access to your EID Reader and Weigh Head
- Extract strategic information from your farms data easily
- Integration with multiple dairy parlours, heat detection and external farm servicing databases

FarmWizard's range of Farm Software Solutions and Mobile Apps include:

- Beef Manager
- Dairy Manager
- Sheep Manager
- Global Supply-Chain Manager

### Our product range

All of FarmWizard's solutions are cloud-based. This ensures multi-site access, whereby customers & users can view records anytime and in any place. In addition, it ensures that all records are securely stored online, can be easily updated and viewed, and can be accessed offline, where no data connection is available.

### Benefits

With FarmWizard's farm management software, farmers save time and money while maintaining legislative and performance records. Many clients have reported time-savings of up to 8 hours per week, previously spent maintaining farm and herd records.

### Where we work

FarmWizard has taken its advanced management software across the globe and has clients in the following regions:

- UK
- United States
- South America
- Europe
- Africa
- Australasia

### Some examples

#### Bullseye Breeders

In 2017 Australian Artificial Insemination company, Bullseye Breeders, selected Farm Wizard as the software of choice to manage their on-farm AI technician service. FarmWizard's reliable, online system allows Bullseye technicians to record inseminations live on farm through a user-friendly smartphone app, thus reducing the need for paperwork.

Inseminating up to 1000 cows a day, it is vital that the software can cope with such large data sets in an efficient and predictable manner.

#### Fresh Direct

New York based fresh food provider FreshDirect utilised FarmWizard to manage its beef supply chain. Ensuring provision of fresh beef direct from farms in the surrounding areas to New York consumers.

#### Cogent Breeding Ltd.

UK Genetics Company, Cogent Breeding, selected FarmWizard as the software provider behind their branded PD+ breeding service.

#### Livestock Improvement Corporation

New Zealand Genetics company, LIC, selected FarmWizard as its international livestock recording system. Utilizing a rebranded version of the FarmWizard product in International markets.

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**VetIMPRESS**  
beyond the call



## Farmvet Systems

### What we do

Farmvet Systems is the maker of VetIMPRESS, a platform that significantly boosts the productivity of vets and farmers through the superior use of data.

VetIMPRESS integrates, standardises and validates the huge range of data generated by modern farmers and vets. This is then delivered through web and mobile apps that can be downloaded by the vet and farmer and used even when offline, providing them with easy access to the information they need on an individual animal or the farm as a whole.

### Our product range

#### Bringing Data Together

Farmers naturally defer a range of decisions to vets in the areas of animal health and welfare. At the same time, modern farms produce vast amounts of data, through on-farm systems and a host of animal-worn technologies.

While this data can be used to support veterinary decisions, it is often disparate and fragmented. VetIMPRESS provides farmers and vets with a single, easily accessible reference point for all this information, enabling them to:

- Better understand and monitor the farm
- Receive medical and other alerts at the earliest possible stage
- Evaluate changes that have been made
- Identify ways of boosting productivity

There are four major data sources on the modern farm, all of which are integrated into the app:

- Software used by the vet, such as that employed in a point-of-sales system. This could alert a vet to a customer acquiring high levels of antibiotics, for example.
- Farm software
- Third-party services, such as veterinary laboratories
- Government sources

#### Supporting Decision Making

VetIMPRESS saves time for the vet, helps them manage data and find opportunities. FarmVet Systems also helps identify business opportunities for the vet, asking whether they can do a better job for their customers.

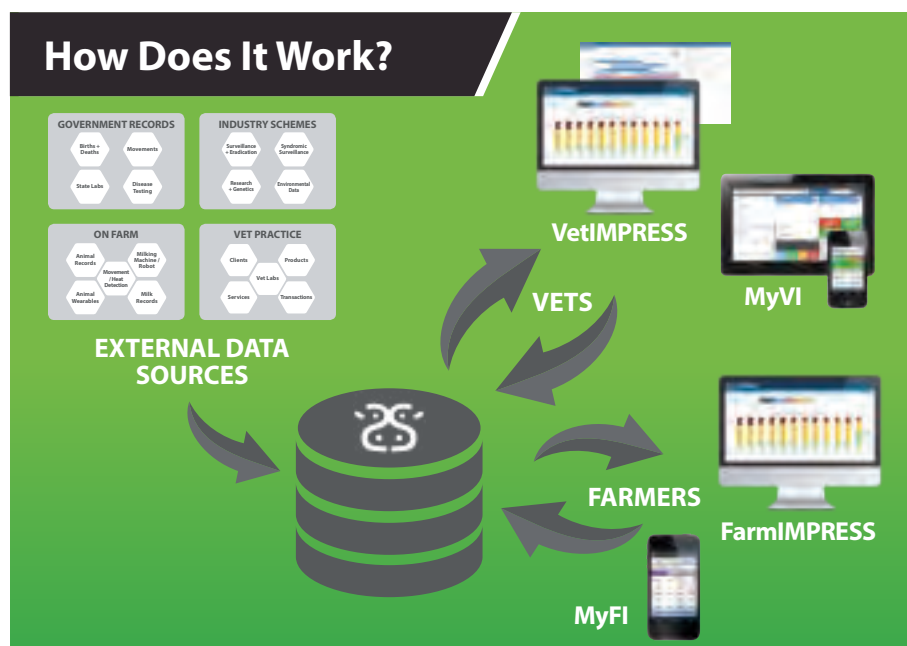
For the vet and the farmer together, the app assists them in making the right decisions for individual animals or for the farm as a whole.

#### Impress Insights

As well as supporting vets in their work with farmers, Farmvet Systems can also work with veterinary suppliers, helping animal health pharmaceutical and diagnostic companies to work with vet practices to understand the opportunities for their products. Through this Impress Insights side of the business, Farmvet can use its knowhow to support companies that wish to sell their products into the veterinary space.

#### Where we work

UK, Republic of Ireland, Netherlands, Belgium, France, Germany, Austria, Switzerland, Australia, New Zealand.



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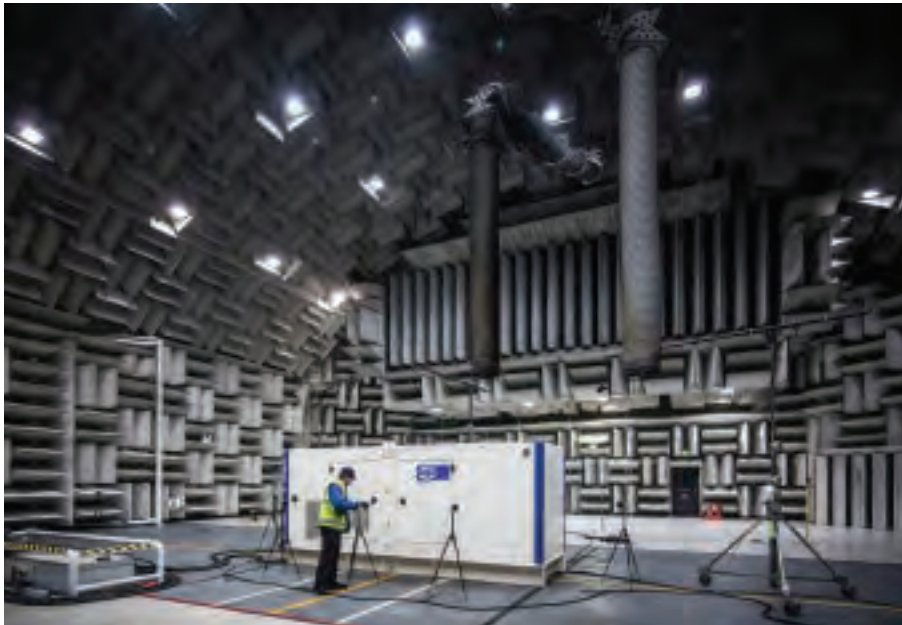
[www.vetimpress.com/](http://www.vetimpress.com/)



[info@farmvetsystems.com](mailto:info@farmvetsystems.com)



Employee Numbers  
11 - 50



## FG Wilson

### What we do

FG Wilson manufactures generator sets, powered by diesel or gas engines, with power ratings from 6.8 – 2,500 kVA. Since 1990, we have installed over 600,000 generator sets globally, with as much combined power as the UK electrical grid.

### Our product range

In its simplest form, a diesel generator set has an engine driving an AC generator / alternator which produces an AC electrical output. The engine and alternator are fixed to a rigid steel chassis which usually contains a fuel tank. Most FG Wilson generator sets are installed as a standby power source in case of mains failure.

### Solutions Capabilities

While some customers can walk into a dealership and drive away with a ready-to-run generator

set, for others it's a major project which involves working with consultants to arrive at the perfect bespoke solution. This is a key strength of FG Wilson because we excel at managing project complexity and risk.

### Engineering and Manufacturing Excellence

With our \$26m state of the art Engineering Centre in Larne - which is home to Europe's largest Anechoic Chamber for noise testing - we adopt the same innovative approach to product design and launch, across our entire product range. As a result, nothing is released for sale until it has been rigorously tested and validated.

### Lifetime Support

Throughout product lifetime, FG Wilson generator sets are fully supported by our dealer network, backed up by a global parts operation which carries 11,500 parts lines and ships up to 3 million parts a year.

### Where we work

With logistics that span the globe, and a distribution network in over 150 countries, FG Wilson provides reliable power and ongoing support whenever and wherever customers need it.

### Some examples

#### Servicing the Agriculture Industry Around the World

- In January 2018, our dealer in Myanmar installed two 900 kVA generator sets for Japfa Comfeed, a leading pan-Asian agri-food company, employing 32,000 people with distribution facilities in China, Vietnam, India and Myanmar.
- Our Hungarian dealer, Mavipro Magyarorszag KFT, has installed 3.5 MW of power (17 generator sets) in Chicken Farms throughout Hungary over the past two years, with generator sets ranging from 50 – 550 kVA.
- FG Wilson Engineering (Dublin), has installed over 2 MW of power in farm buildings throughout the island of Ireland for pork, poultry, stud and dairy farming as well as for grain producers.

### Accreditations/Certifications

ISO 9001 – Quality Management System  
ISO 14001 – Environmental Management System

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www.FGWilson.com

FG Wilson

FG Wilson Generator Sets

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Springvale Business Park  
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Co. Antrim, BT12 7AL



Employee Numbers  
>100



## Finrone Systems Ltd

### What we do

Finrone Systems' personnel have over 35 years of experience in the agriculture industry, specialising in the construction of high-performance pig farms and buildings, as well as providing slurry storage, slurry systems and biogas solutions for modern farming and industrial needs.

The company provides bespoke designs tailored to the needs of individual project requirements. All construction, slurry and biogas-related projects are undertaken by an expert construction team to ensure a consistently efficient and effective operation.

### Our product range

Finrone Systems' offers customers a high-end product with ultra-long lifespan. Projects utilise the latest in agricultural technology. Farms throughout Europe and internationally are now using Finrone Systems' builds to further their farming output.

Within the agriculture sector, Finrone Systems' projects are utilised for husbandry of:

- Pigs
- Sheep
- Dairy and Beef Cattle
- Goats
- Poultry

As well as stainless steel fabrication and engineering for a wide range of agricultural uses, Finrone Systems produces storage solutions applicable for slurry storage, farm biogas production and grain and forage silos. Finrone Systems has also partnered in the development of products, such as the 360 Freedom Farrower™. The unique design of this product provides sows with the ability to turn 360 degrees while in confinement. The product's developers were awarded the Good Sow Commendation by Compassion in World Farming.

### Where we work

Finrone Systems has completed projects throughout the UK, Europe and further afield, including Australia.

### Some examples

Finrone Systems has manufactured custom-designed slurry tanks for industrial, biogas and farm use with storage for up to 7,000m<sup>3</sup> and numerous options available, such as lids.

The company can design and build large-scale, on-site projects. This includes farrowing options, which have included a 1,000 sow unit in Cumbria that is now producing an output of over 30,000 pigs per year. Finrone Systems has also worked with Leeds University on a leading research project.

### Accreditations/Certifications

Finrone Systems has also partnered in the development of products, such as the 360 Freedom Farrower™. The unique design of this product provides sows with the ability to turn 360 degrees while in confinement.

The product's developers were awarded the Good Sow Commendation by Compassion in World Farming.

87 Newbuildings  
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[info@finronesystems.com](mailto:info@finronesystems.com)



Employee Numbers  
11 - 50



High-quality value for money machinery  
with a quality service as standard!

## Fleming Agriculture

### What we do

Established in the 1860s, Fleming Agri-Products Ltd is a fifth-generation family business and one of the oldest agricultural machinery manufacturers in the UK and Ireland. The company manufactures and supplies a wide range of value for money machinery to agriculture and grounds-care sectors globally, constantly adapting and refining its products to meet customer needs.

### Our product range

With over 150 products covering 25 ranges, the Fleming team is committed to ensuring that every piece of equipment is manufactured to the very highest quality. They also have their own internal design team, with a continuous emphasis on production efficiency, new product development and product operational efficiency.

Every machine part is ultimately designed and developed with the utmost attention to detail and undergoes rigorous testing before reaching customers.

### Product range includes:

- Grass toppers
- Finishing mowers
- Slurry and muck spreaders
- Slurry pumps
- Yard scrapers
- Aerators
- Bale handling equipment
- Fertiliser spreaders
- Hay equipment
- Transport boxes
- Trailers
- Land rollers
- Grass harrows
- Shear grabs
- Front loader attachments
- Cultivation equipment

### 5M Folding Aerator

The Fleming 5m Grassland Folding Aerator improves the quality and growth of grass, as well as enabling better drainage, reducing soil compaction and minimising the problem of slurry and water run-off. This improves aeration, root development and allows more efficient use of natural fertiliser like slurry or manure.



### TR8 Tipping Trailer

Fleming's manufactures a wide range of trailers, with one of the most popular the TR8, a great general purpose trailer for stone, rubble or collecting supplies and with a capacity of 8,000kg.

With reinforced half sides for easy fitting, all sides are removable and a bale extension can be attached for transporting round bales. Alternatively, grain sides can be fitted for carrying bulk light goods such as potatoes, grain or silage.

### Features include:

- A high tip for clean unloading.
- Hydraulic brakes, lights and reflective triangles as standard.
- HD 180mm structural chassis with 12.5/80 - 15.3 tyres as standard on six-stud axles.
- Two tandem HD parabolic spring suspension for smooth working operation. The spring suspension creates less stress on the trailer structure resulting in longer maintenance-free operation.

### Where we work

UK, Ireland, Iceland, Belgium, Slovakia, Russia, Latvia, Norway, Denmark, Sweden, Switzerland, France, New Zealand, Australia, South Africa, Saudi Arabia, UAE, USA.

### Customer service excellence

#### State-of-the-art facilities

Fleming's success has resulted in continuous investment in manufacturing facilities, with several major expansions over the years. The most recent, in 2013, created a facility which delivers enhanced production techniques, product handling and production efficiency, with modern manufacturing production systems including CNC, robotics and automation.

A new investment plan for 2018/2019 is also currently under development, which will create further efficiencies and greater quality and increase production facilities by 40%.

The company also has its own internal staff training program and works closely with Ulster University (UU) and the North West Regional College (NWRC) for development and training.

### Accreditations/Certifications

All products are manufactured to meet each country's specific legislation requirements e.g. CE approval, EU accreditations etc.

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- Fleming Agri
- Fleming Agri-Products Ltd
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Employee Numbers  
>100



## Foodovation at North West Regional College

### What we do

Foodovation is an award-winning centre of excellence for food development and technology. Launched in November 2016, it provides a one-stop-shop for current and aspiring industry producers across the region and in the Republic of Ireland.

The state-of-the-art research and development centre is based in the North West Regional College (NWRC) in Derry-Londonderry, an established knowledge provider in food innovation on both sides of the border.

Foodovation aims to support innovation among all types of businesses and individuals, from the chef working in a hotel kitchen to major producers. It offers hands-on support from experienced and skilled food development chefs and technologists, ranging from general business advice through to detailed research and testing. Foodovation experts can also visit client premises to advise on new product development, process improvement and production efficiencies.

### Our product range

Foodovation offers state-of-the-art facilities for developing excellence in food innovation, science and technology, and to turn business dreams into reality. These include:

- Food Centre: Foodovation's food centre enables customers to transform ideas into market ready products. The Centre also offers support with recipe development, recipe engineering, new product development, process improvement, food safety & shelf life, packaging, product labelling & nutrition claims. It has clients in all sectors of the food industry including meat, poultry, fish, dairy, bakery, sauces, meals and drinks.
- Development and production kitchens, offering a wide range of the highest-quality cooking and storage equipment.
- Kitchen photography and videography studio: Foodovation can provide food photography and videography support with styling for product packaging, editorials, menus, food blogging, cookery books and websites.
- Barista coffee training school: Foodovation has teamed up with coffee industry experts to provide a current, barista-style coffee training environment, the first of its kind in the North West.
- Meeting and taste testing room.

### Where we work

Northern Ireland and Republic of Ireland.

### Some examples

#### Product Development

Foodovation works with innovators and entrepreneurs on developing concepts and bringing ideas to fruition. Foodovation can support you in everything from the idea stage to product standardisation and prototype development, right through to bringing the idea to market.

#### Training

Foodovation offers a range of training services that appeal to companies of all sizes, from start-ups to the largest producers. This could be in health and safety, in customer service, or in management and leadership, to name but a few.

### Accreditations/Certifications

Winner of the 'Growing for the Future' award at the NI Year of Food and Drink awards in 2016.

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@NWRCfood



Employee Numbers  
0 - 10



## FSL Electronics Ltd

### What we do

FSL Electronics Ltd designs and manufactures innovative electronic products for agricultural customers, as well as supplying the construction, maritime, locomotive, domestic and industrial sectors. Products can also be adapted for use in bulk materials handling, forestry, towing and recovery operations, and in warehouse automation.

With more than 25 years' experience, FSL Electronics provides high-quality and bespoke remote control solutions which improve safety, productivity and efficiency in the workplace. Having built up a local client base, the company has expanded in the past few years to work increasingly with international clients, delivering products that are tailor-made to their unique requirements.

### Our product range

- I-SPI GPS tracker
- Industrial remote controls
- GSM controllers
- LED display boards
- Infrared security systems
- Custom electronic solutions

### Where we work

UK, Canada. Targeted: Mainland Europe.

### Customer service excellence

With a purpose-built factory, complete with offices, workshops and showroom, FSL Electronics is committed to ensuring that it can meet the needs of every customer, and invests constantly in research and development. Indeed, the team has won several awards for their R&D practices, which guarantee that each system is designed to the very highest standard of quality and performance. Offering a complete service - from initial consultancy and bespoke design, right through to manufacture and commissioning - FSL Electronics works closely with customers to deliver exactly what they need.

A team of in-house design engineers is always on hand to design and manufacture customised electronic solutions and the company keeps employees up-to-date with their ever-changing industry through regular structured training programmes. The result is a motivated and highly trained workforce capable of responding to even the most demanding of enquiries.

### Some examples

#### I-SPI GPS trackers

FSL Electronics' I-SPI GPS vehicle trackers are ideal for use in tractors, quads and other agricultural vehicles, and use simple Pay-As-You-Go SIM cards for low-cost monitoring.

#### Key features:

- Designed for the protection of vehicles with GSM network and GPS technology.
- Users can track the position of the vehicle using either SMS messaging for use as a driver alarm or GPRS for live tracking and mapping using a web or PC-based server.
- The unit has an output facility for disabling the vehicle as well as inputs for a panic button and external alarm.

#### Ultra-beam radio remote controls

Remote controls improve productivity and efficiency, as well as reducing the risk of accidents on farms, offering customers enhanced protection and peace of mind. They also deliver manpower with lower overheads, so are a cost-effective solution for many farmers.

FSL Electronics' Ultra-beam Radio Remote Control Systems are functional in even the harshest of conditions and can be used in a variety of ways within the agricultural sector, including for security access. They're ideal for use in/on:

- Silos
- Hoppers
- Feeders
- Quarry plants
- Conveyors
- Furnace doors
- Winch gear
- Forklift trucks



#### GSM remote controls

The FSL Electronics GSM remote controls are call-free devices easily activated by calling or texting a mobile phone number, so farmers can remotely switch on/off any device the control is connected to. This product has been used to great effect on heating and lighting systems, irrigation systems, pumping stations, and to control gate access.

#### Accreditations/Certifications

- CSA Compliance Certificate
- Deloitte Fast 50 Award Winner
- Certificate of Excellence in Innovation 2017
- SME of the Year 2017 Nominee



Above: ELCA Safety Remote Controls



Above: Wearable Remote Control

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- FSL Electronics Ltd

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Employee Numbers  
11-50



## Giltspur Scientific Ltd

### What we do

Giltspur Scientific Ltd. strives to innovate unique, cost-effective hoof-care solutions for the bovine and equine industries worldwide, including dairy farmers, hoof trimmers, large animal vets and horse owners.

### Our product range

#### CowSlips™

Made from highly durable PVC, CowSlips are the original orthopaedic shoe for the treatment of lameness in dairy cattle. They are the only lameness treatment to provide increased support for the hoof wall, which is the chief weight-bearing area.

Fitted to the healthy claw, CowSlips take the weight off the affected claw, thus alleviating pain and accelerating healing. The cow's mobility improves, weight is gained and milk yield increases.

CowSlips are available in four sizes: Original, Plus, XL and The Doc.

Exported worldwide, CowSlips have improved the welfare of millions of dairy cows by reducing the pain inflicted by lameness.

CowSlips has won distinguished awards such as:

- The Prince Philip Award for Merit
- The New Zealand National Fieldays Award of Merit
- Inel d'Or Sante Animale

#### Horse-Slips™

Following on from the success of CowSlips, the official launch of Horse-Slips heralded the arrival of a revolutionary innovation in equine hoof care.

The Horse-Slip is an original design of alternative horse shoe. It comes in a spiral of extruded PVC which can then be measured and cut to fit the hoof accurately. The shoe is then attached using an adhesive- the use of Equilox II is recommended.

Already a winner of the highly acclaimed Invest Northern Ireland SMART award, Horse-Slips™ have also enjoyed success in the Contour Innovative Equine Product competition. Horse-Slips incorporate modern design and application techniques and are an exciting new development for the Giltspur Scientific Ltd. hoof care range.



### Where we work

UK, Ireland, France, Netherlands, Germany, Switzerland, Sweden, New Zealand, Japan, China, Canada, Australia, US.

### Some examples

"The weight of the cow can be distributed through the walls of the CowSlip and not just through the sole. CowSlips encase the whole foot, helping them to stay in place as the glue sets. This stops them slipping back along the sole which can happen with blocks."

**Roger Blowey, Gloucestershire Vet,  
Farmer's Weekly  
23rd July 1999**

"It is possible to apply the shoe even in cold weather, it glues at any temperature ... the easy handling (you mix the glue using the CowSlip as a cup) makes faster application without any mess."

**Dr. B. Huot – Bureau Veterinaire Lac Champlain,  
Quebec**

### Clinical Study

"A short term study of 15 lactating cows suffering from sole abscess formation demonstrated a rapid return to milk production following paring out and drainage of the abscesses in combination with the application of the CowSlip to the healthy claw. Milk yield over a 7 day period improved an average of 16.8lbs for early and 7.2lbs for late lactation cows. CowSlips offer a convenient and highly effective alternative for treatment of claw disorders requiring rest of the affected digit."

**J.K. Shearer and J.B. Elliot, College of Veterinary  
Medicine, University of Florida**

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Giltspur Scientific /  
Linnodee-Diagnostics



Employee Numbers  
0-10



## Gradeall International

### What we do

Gradeall International is a world-leading manufacturer of balers, compactors, tyre recycling machines, and specialist bespoke recycling materials.

Our extensive range of machinery and associated products is designed to provide every type of manufacturing business with the perfect recycling and waste compacting solutions to meet their precise waste requirements.

### Our product range

We design and manufacture an extensive range of balers, compactors, tyre recycling machines and other specialist bespoke recycling solutions required to meet the specific needs of our clients.

Our full product range is as follows:

#### Compactors

- Portable
- Static

#### Balers

- Vertical
- Horizontal
- Specialist
- Tyre Recycling Machinery
- Specialist / Bespoke Machinery

#### Industries

We work across all of the following industries, supplying a full range of solutions designed to manage the specific waste recycling needs of each individual client:

- Distribution Centres
- Manufacturing
- Facility management
- Food
- Healthcare
- Hospitality and Leisure
- Councils
- Retail



#### Where we work

As a global brand, we supply its high quality, fully guaranteed recycling machinery products to manufacturing businesses in countries all around the world:

- UK
- USA
- Australia
- South Africa
- Scandinavia
- Eastern Europe
- EU / Europe

#### Accreditations/Certifications

All machinery manufactured by Gradeall International is fully CE certified. In addition, every machine that we manufacture is fully guaranteed, giving our customers complete peace of mind and quality assurance.

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Gradeall International Ltd

Gradeall International Ltd

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Employee Numbers  
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## GSF Livestock Systems Ltd

### What we do

Founded in 2016, GSF Livestock systems specialise in Cattle Handling Equipment: we design and build squeeze Crushes, Weigh Crushes and both mobile and static Handling Systems.

We understand that cattle handling is easy, provided the correct handling equipment is available. Also, since very few items on a livestock farm will last as long as a high-quality cattle crush, purchasing one of our superior quality systems is an excellent long-term investment for your farm business.

### Our product range

#### Mobile Cattle Handling Crush

- Available in 6.3 or 7.5-metre lengths
- Automatic or manual head yokes
- Sliding divider gate
- Hinged sidebars
- Vet side entry door
- Parallel easy action front squeeze
- Rear light bar
- Hydraulic wheels
- Numerous hurdle options
- Multiple weighbridge options

### Weighing Systems

- All our trays are fitted flush within the floor
- We offer a fully EID compatible weighing system which is built into the chassis of the machine to protect any electronic equipment from muck, wet or impact
- Unlike with other systems, we always position the weigh-tray in the front to avoid a “two-part” crush and at the same time, encourage a seamless cattle flow
- If you already have a good set of bars, a weigh-head on a sheep scale or something similar, we can fit these into our system, to save you money

### Fixed cattle handling systems

You don't need to spend a lot of money to get a very efficient and “friendly” system on your farm; we can provide both made-to-measure designs, to fit a certain “space”, or ready-made off-the-shelf solutions, to suit each customer's specific requirements.

### Static Squeeze Crush

All our static squeeze crushes are fitted with a dual-sided squeeze. The manual operation allows the operator to feel and, therefore, control the amount of pressure being applied to the stock in the crush; this in contrast with hydraulic squeeze crushes, where the operator has no idea of the amount of pressure being applied.

### Mobile Sheep Handling Systems

Our “Romney Ranger” Mobile Sheep Race is extremely popular and practical for all flock sizes and has the optional of full EID weighing and recording.

### Where we work

- UK
- Ireland
- France
- Kyrgyzstan
- Sudan

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GSF Livestock Systems



GSF Livestock



## Herbst Machinery Ltd

### What we do

Herbst has now built up a broad range of products for the agricultural market and a reputation as a leading manufacturer of:

- Low Loaders
- Dump Trailers & Dump Loaders
- Bale Trailers
- Livestock Trailers
- Gravel Trailers
- Vacuum Tankers

### Our product range

Continuing the company's record of innovation, Herbst also manufacture a range of mobile crushing and screening equipment, with new products to be introduced. The current range includes the Herbst (PTO Driven) Agri-Crusher, the C900 Tracked Crusher, and the S52 Compac Screener. These products are compact machines, highly mobile, very productive and efficient for their various applications, which mainly include agricultural contracting, construction & recycling.

Herbst Machinery Ltd is an ever expanding brand – in terms of both products, and international markets. The company aims to drive continued growth and innovation to ensure Herbst Machinery Ltd provides high end products to all customers.



### Where we work

Herbst Machinery's domestic market is the UK and Ireland. The company exports to: Australia, New Zealand, Canada, Denmark, Holland, Norway, Finland, Sweden, France.

The company is actively seeking new dealers in international markets, to continue the growth of the Herbst Brand.

Herbst services its customers through a network of machinery dealers - that are attracted to the company by flexible design, quality manufacture, attention to detail, and very strong dealer support.

This has led to long-standing dealer relationships; and the annual 'Herbst Dealer of the Year' award is highly valued by its' dealers.

### Customer service excellence

Herbst Machinery Ltd is a family engineering business situated outside Omagh, County Tyrone, Northern Ireland. From its humble beginnings in 1983 to present day, Herbst has always aimed to give that little bit extra to all customers in the Agriculture market.

This has been the foundation of the company's success and growth over the years, and growth is continuing – Herbst has introduced new facilities

for paint spraying and finishing, improving detail & quality on products and efficiency on the production line.

The Herbst team prides itself in the great attention to detail taken in design and manufacturing, and in the many innovations that the company had launched on the market.

The design process accommodates customers' individual product specification and requirements – so Herbst can provide customers (and the company's loyal dealers) with a tailored solution – whilst maintaining prompt delivery turnaround.

Tailored design, flexible manufacturing processes and close management of scheduling means that the company is constantly working to meet customers' and dealers' requirements.



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Employee Numbers  
11- 50



## Herron Engineering Ltd

### What we do

Herron Engineering Ltd was established in 1989 and is a family run business. The company manufacture market leading trailers and vacuum tankers for both the agricultural and construction industries across Europe and further afield.

### Our product range

Herron Engineering manufacture the following range of products:

- Grain/Silage Trailers
- Root Crop Trailers
- Dropside Trailers
- Flatbed Trailers
- Dump Trailers
- Low Loader Trailers
- Vacuum Tankers and ancillary products e.g. trailing shoe

### Where we work

Herron Engineering supply the following markets via an extensive distributor network:

Northern Ireland, Republic of Ireland, UK, Europe, Canada, Australia, New Zealand

### Some examples

Herron Engineering Ltd is committed to expanding its distributor network. After successfully developing and securing a contentious supply of our products to the New Zealand markets we have further committed resources to the development of the Australian markets along with many markets in Scandinavia.

### R&D expertise

The Herron design team is continually developing new products to suit the changing needs of the agricultural market. The company designed, in 2015, an innovative new range of grain and silage trailers – The H2 Range. These trailers are available in 14, 16 and 18-tonne sizes, all with five-foot deep bodies and hydraulic up-and over doors. The trailers also have single multistage rams, LED lights and strobes as well as sprung draw bars. We also extended our Low Loader range to offer a 24 tonne & 26 tonne tri-axle trailer

The H2 range offers Herron Engineering customers a number of benefits such as greater manoeuvrability and greater operator visibility. The trailers are customised to client specification i.e steering axle, air brake, and different wheel types.

Herron Engineering, 2017, developed the new H2 dump trailer. It is available in 15, 18 and 20 tonne models. It has a high lift door for clearance, low sides to allow access to smaller diggers and a wider bottom for stability.

All our trailers are made to easily fit into a container for our export market.

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Employee Numbers  
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Herron Engineering Ltd



Herron Engineering Ltd



@herronengineering



## Hill Engineering

### What we do

Hill Engineering started manufacturing excavator attachments and hydraulic quick couplers in 1994. Today we employ over 70 people in our purpose-built factory in Newry, Northern Ireland.

We are a manufacturer and global exporter of the award winning TEFRA quick coupler system, widely regarded as the safest quick coupler on the market. We also manufacture a range of TITAN excavator attachments & buckets, designed and manufactured for the most extreme environments and applications.

### Our product range

#### TEFRA Coupler / TETRA Tilt

The TEFRA coupler is manufactured in Northern Ireland and widely exported across 5 continents.

The TEFRA can be built to suit excavators ranging from 1.5 to 120 tonnes. It is fully compliant with

the requirements of the ISO 13031 global safety standard for quick couplers and proven to be the safest hydraulic quick coupler on the market today.

We also manufacture the TEFRA Tilt coupler; this has the same features and benefits of the TEFRA but also includes an actuating motor, allowing the operator to tilt any attachment to 90° to either side. These couplers are made to suit excavators within the 3T to 20T class.

#### TITAN Buckets

Our range of TITAN attachments are built to suit the OEM dimensions and recommended specifications for machines from 13T upwards. It includes a range of HD buckets, graders, HDX (rock) buckets, riddle buckets, rock rippers, V-buckets and thumbs.

All of our TITAN range of attachments are made to suit the environment they work in and can be fitted with bespoke features such as specific teeth, reversible bolt on cutting edge, side cutters, lip shrouds, heel shrouds etc.

### Where we work


- UK & Ireland
- Europe
- Middle East
- North & South America
- Africa
- Australia
- New Zealand


Exporting the TEFRA product globally has been the focal point of our strategy for the past 15 years. It has proven itself in every market we have entered and has been accepted as the new benchmark for many major clients across the globe. We have 2 dealers in the USA, both of whom have adopted our coupler as their own, resulting in significantly increased turnover and gross profits for their business.

### Accreditations/Certifications

Hill Engineering was awarded the 2014 Queen's Award for Enterprise in Innovation, which recognises excellence in UK business enterprise, having designed, developed and globally marketed ground breaking engineering equipment.

We are an ISO 9001 accredited firm and use this quality system as the best practice guide for both our manufacturing process but also our management processes.

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 @hillengineering

 Hill Engineering

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Employee Numbers  
51 - 100



One Supplier. One Solution.

## Hutchinson Engineering Ltd

### What we do

One of the largest sub-contractors in the UK, Hutchinson Engineering Ltd is a laser-cutting specialist manufacturing a range of high-quality products and delivering key services within the agricultural sector. The company also works with clients in the aviation, materials handling and construction sectors, and within the coach-building, energy and transport industries.

### Our product range

#### Services include:

- Flatbed laser-cutting
- 3D laser-cutting (including box section, tube and angle)
- CNC turning
- Metal folding
- Metal fabrication
- Various finishes on components
- 3D design and prototype service
- Kitting

### Where we work

UK and Ireland

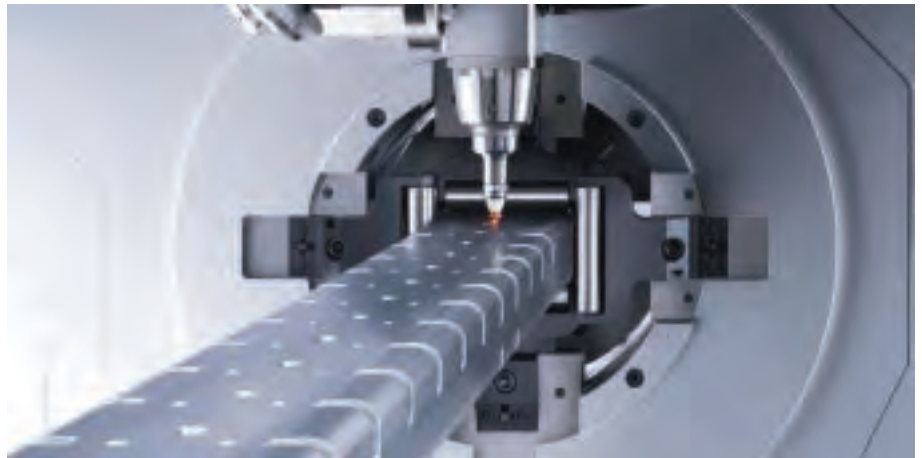
### Customer service excellence

With more than 40 years' experience, and with an expert team designing and manufacturing products in-house, Hutchinson Engineering offers a complete and consistent engineering solution for clients. This covers everything from design for manufacture, right through to laser-cutting, metal folding and fabrication, and the painting of small to medium-sized metal components. Their knowledge and experience, along with the company's constant re-investment in technology, means clients also benefit from rapid quotations and shorter lead times, ensuring the best value solutions for their needs.

Operating state-of-the-art laser-cutting, folding and welding machinery, as well as 2D and 3D CAD systems, Hutchinson Engineering provides a flexible, professional service from its world-class facility, which spans more than 80,000sq ft. Products include everything from laser cut box sections, to complex fully fabricated and finished machinery such as shear grabs, bale handlers, and seed drills.

Hutchinson Engineering works with a variety of large OEM manufacturing companies throughout the UK and the ROI, and across a wide range of sectors, including agriculture, aerospace, coach-building, medical and block-making.

Hutchinson Engineering forms strategic partnerships, and is willing to look at design for manufacture to assist their customers in being



more competitive within their sector. One example of this was for an agricultural client who required a redesign of their product in order to be more cost-competitive. The existing design, previously manufactured in six parts and welded together, was altered by the team so it could instead be manufactured in just three pieces, which were then bent.

The new design, which was 30% more efficient, ultimately gave their client one of the most competitive tube laser products on the market. Its success also led to further projects, with Hutchinson Engineering now advising the company on design for manufacture and consistently helping them to reduce costs and be more efficient.

### R&D expertise

Having completed an extensive R&D project for the aerospace sector, alongside smaller-scale

R&D projects, Hutchinson Engineering is open to discussion with regards to collaboration opportunities with or on behalf of their clients. Previous R&D activities also include working with Queen's University Belfast (QUB) through the Knowledge Transfer Partnership (KTP) and with the Advanced Forming Research Centre (AFRC) at the University of Strathclyde. The team has further engaged with Northern Ireland's Northern Regional College (NRC) through the Shared Lecture Scheme.

### Accreditations/Certifications

- ISO 9001: 2015
- ISO 18001
- EN1090 for CE Marking
- Welding to BSEN 9606 accreditation
- Responsible Welding Coordinator certified to BSEN 14731
- Investors in People Bronze Award

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Hutchinson Engineering



Hutchinson Engineering



## InnoTech at South West College

### What we do

The InnoTech Centre provides research, development and innovation services to businesses, with the agricultural sector a major focus. The centre is part of the South West College, where it is based on the Cookstown Campus.

### Our product range

InnoTech works with agri-tech firms in a number of areas with a major focus on engineering. The Centre has its own team of engineers who work alongside companies delivering products in the agricultural sector. Engineering support has been provided for products ranging from cattle crushes to complex machinery such as trailers, mowers and livestock transport equipment.

### Where we work

UK and Ireland

### Customer service excellence

InnoTech services to industry include 3D design of new products, stress testing, component analysis and prototype development. Support is provided to companies of all sizes through the entire product development process.

The Centre hosts industry standard software and equipment for product design and development. Specialist design and prototyping facilities are available through the Idea Centre at the Omagh campus which hosts the College's rapid prototyping facilities.

### Education

Alongside its work on product design and development, InnoTech carries out a range of knowledge transfer, CPD and education activities, through South West College and more broadly.



"3D Engineering drawings produced for the development of innovative sheep fleece treatment system" – image of 3D design for washing system



InnoTech has been successful in supporting Agri-Tech companies within the Knowledge Transfer Partnerships (KTP) and FUSION programmes through which companies employ graduates to develop new products under the supervision of College academic staff. Coupled with this, the delivery of on site training, or development of specialist company specific training, using modules from a range of curriculum is regularly

carried out. South West College is now recognised as the Engineering Hub College within Northern Ireland and also delivers the Higher Level Apprenticeships programme (HLA).

InnoTech has strong links with other educational centres, notably Ulster University, Queen's University Belfast, the Institute of Technology – Sligo, Strathclyde University and the UK Catapult Centres. Such connections give it access to a broad network of specialists in many different engineering disciplines, alongside a comprehensive range of facilities and equipment.

### Accreditations/Certifications

Innovation & Knowledge Exchange Institute NI  
Investors in people  
STEM Assured  
Investors in Innovation  
UKAS Quality Management

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- InnoTech Centre

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Employee Numbers  
11 - 50



## JPM Trailers Ltd

### What we do

JPM Trailers are market leaders in the manufacture and supply of high-quality trailers for both agricultural and commercial use.

### Our product range

The company manufacture the following broad range of equipment:

#### Trailers

- Silage/Grain Trailers
- Dump Trailers
- Skip Trailers
- Step Frame Trailers
- Livestock Trailers
- Forestry Trailers
- Commercial Trailers
- Bale Trailers

#### Low Loaders

- Tri-Axle Low Loaders - agri and commercial specs
- Tandem Low Loaders - agri and commercial specs

### Where we work

UK, Ireland & Europe.

### Customer service excellence

#### In House Engineering Design Team

JPM trailers have a dedicated, inhouse design team, which offers a bespoke service to customers.

As part of JPM's commitment to ongoing product development of specialist trailers, we recently developed a new range of implement carriers for use in extreme weather conditions.

These trailers - part of a large ongoing contract with a leading Scandinavian civil engineering company - are built to full commercial

specification, complete with air suspension and telescopic draw bars as well as the option of integrated fuel tanks.

#### Target sectors and target customers

JPM Trailers service customers in the agriculture, construction, oil and gas, forestry, and plant hire industries.

### Some examples

#### Bespoke Trailers – Vegetable Growers

One of JPMs Devon-based dealers approached the company to design and build a range of bespoke trailers for vegetable growers.

These new trailers had to meet the following criteria:

- Be lighter than the standard flatbeds on the market
- Meet all health and safety requirements for people standing on the trailer while it moved
- Have quick and easy side opening to facilitate quick turnaround for the removal of filled pallets
- Have a specific clearance/track width so that vegetables would not be damaged as the trailer moved down the rows
- Be able to be towed behind a tractor already fitted with picking equipment

#### Hydraulic Beaver Tail Trailer

JPM Trailers had a number of requests for a trailer that could easily convert from a beaver tail low loader to a flatbed trailer, to perform the role of two trailers.

Our team designed a trailer with an 8ft rear which could be hydraulically lowered to the ground so as to form a ramp to facilitate the loading of wheeled equipment.

#### Compressor / Implement trailer

One of our European dealers asked us to design and build a new range of commercial trailers designed to carry a large drill compressor. The trailer had to meet the full commercial specification while also being able to meet Norwegian road regulations.

Our team designed a single-axle trailer that could be easily manoeuvred by a loading shovel/telehandler, while being used in the quarry.

### Accreditations/Certifications

European Whole Vehicle Type Approval

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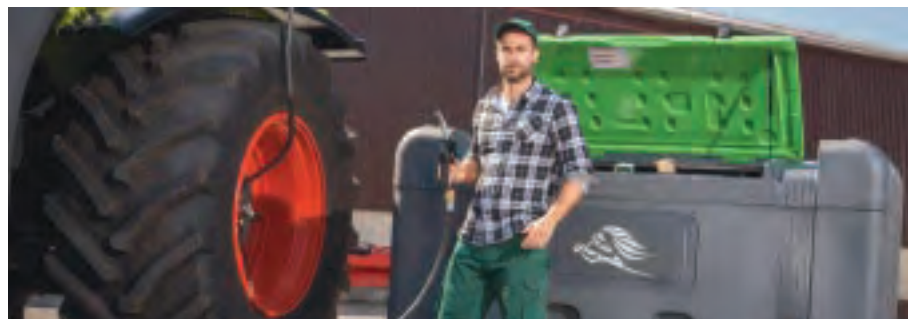
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Employee Numbers  
11 – 50



Truckmaster Portable Diesel storage solution



FuelMaster Diesel Storage and dispensing solution



Large BioDisc wastewater treatment systems  
- Mining Project, Queensland Australia

## Kingspan

### What we do

We are experts and innovators in the following fields:

- Environmentally responsible Smart Liquid storage and dispensing solutions
- Wastewater Treatment and Rainwater Harvesting

We also offer affordable Monitoring and Service packages for all the products we supply, powering homes, farms and businesses around the world.

Operating in over 100 countries, we deliver pioneering technology, design and manufacturing, backed by a worldwide distribution network and local experienced sales and customer service teams.

Kingspan brings you the confidence of quality and support over the lifetime of your product and beyond.

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Kingspan Water & Energy

Kingspan Water & Energy

### Our product range

#### Energy Storage Solutions

As established global market leaders with over 40 years' experience, Kingspan Energy Storage Solutions has designed and manufactured innovative and compliant ways to responsibly store, dispense and protect Diesel, AdBlue, Fertiliser and Oil.

#### Diesel Storage & Dispensing Solutions

Available in Steel or Plastic, static or mobile, and from up to 65,000 litres - all available with remote intelligent monitoring capabilities.

#### Fertiliser Storage

The AgriMaster range offers farms a robust and reliable liquid fertiliser storage solution, in capacities ranging from 10,000 to 25,000 litres.

#### AdBlue (DEF) Storage & Dispensing Solutions

Available in Steel or Plastic, static or mobile and from 200 litres to 25,000 litres - all available with remote monitoring capabilities.

#### Oil Storage

Bunded and Single Oil Tanks manufactured to the highest industry standards. Horizontal and vertical models available from 1000 to 9000 litres.

#### Custom Moulding

With over 40 years' experience in rotational moulding, we're proud to offer bespoke integrated custom moulding solutions, secure manufacturing supply and all the technical expertise you would expect from one of the largest roto moulders in Europe.

#### Water Management

With over 60 years' experience in water management solutions, Kingspan offer a full range of reliable wastewater, surface water and rainwater solutions along with professional, expert service and maintenance for your domestic or commercial system. Our tried and tested Klargester product range includes sewage treatment plants, septic tanks, fuel and oil separators, pumping stations, grease traps and rainwater harvesting solutions.

### Where we work

The Water and Energy Division has manufacturing and sales facilities throughout the UK, Ireland, Europe and Australia, while our distribution partners reside in over 100 countries across the globe.

The regions of strategic focus for Kingspan Environmental are:

- Europe
- Australasia
- North and South America

### Accreditations/Certifications

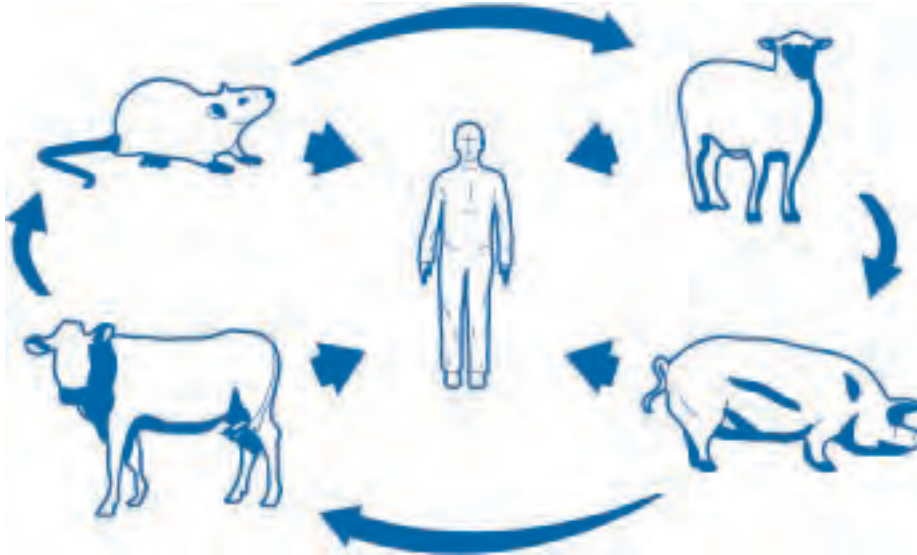
Our manufacturing facilities meet all the rigorous certifications and compliance standards in accordance with ISO9001, ISO18001 and ISO14001. In addition, all Kingspan sites are committed to Net Zero energy status by 2020.

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Employee Numbers  
>1000





Linnodee has developed Leptorapide to detect leptospirosis in humans. This diagram shows how leptospirosis can be transmitted to humans.

## Linnodee Diagnostics

### What we do

Established in 1999, Linnodee's focus is the development of highly sensitive diagnostic tests and the manufacture of diagnostic kits, distinguished by their accuracy of detection, reliability and ease of use.

Using the highest-quality materials, new and trusted technologies and the expertise of world-class scientists, Linnodee has developed a range of rapid and reliable tests for laboratory diagnosis and on-farm detection of diseases in production animals.

Linnodee diagnostics are designed for the specific detection of the disease-causing serovar(s) associated with the target species.

Disease infection dramatically affects profitability for the customer. Detection through Linnodee's cost-effective diagnostic kit allows treatment to commence and production to normalise.

### Our product range

The animal products offered by Linnodee, specialising in ELISA development are:

#### Laboratory

1. Linnodee Bovine Leptospiral Kit: Laboratory ELISA for the detection of *Leptospira hardjo* antibodies in bovine milk or sera.
2. Linnodee Porcine Leptospiral Kit: Competitive ELISA for the detection of *Leptospira bratislava* antibodies in porcine sera.

### Field

1. Bovine Leptostick: On-farm test for the detection of *Leptospira hardjo* antibodies in milk.



### Where we work

Linnodee products are used extensively locally, nationally and internationally. Export markets include Spain, Belgium, Germany, Japan, USA, Malaysia and India.

### Some examples

Linnodee products have been employed in disease prevalence studies conducted in Europe, Japan, USA, Thailand and South America.

### Accreditations/Certifications

In demonstrating Linnodee's commitment to promoting animal and human health worldwide, the company has achieved the following for regulatory purposes within the laboratory:

1. ISO:9001 Quality management systems requirements
2. ISO:13485 - Medical devices quality management systems

### Target sectors and target customers

While focusing primarily on the veterinary sector, the company has also applied its expertise in the field of medical diagnostics to the development of Leptorapide™, a rapid agglutination test for human leptospirosis detection.

Linnodee products and services are suitable for:

- Veterinary Practitioners
- Medical Practitioners
- Diagnostic Laboratories

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Giltspur Scientific /  
Linnodee Diagnostics



Employee Numbers  
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## Liveryman

### What we do

Born out of many years of engineering excellence and professional reliability, Liveryman offers both the professional and novice user a choice of innovative, market-leading clippers and trimmers.

- Innovative, powerful brushless motor technology
- Reliable and Quiet
- Extremely long life
- Comfortable and easy to use

The Liveryman range has been a market-leading brand for over thirty years. Liveryman clippers and trimmers are used by groomers, veterinary surgeons, equine professionals and on farms for all types of animal grooming.

### Our product range

The Liveryman brand is exported to its network of over 1,000 agricultural merchants, equestrian suppliers & yards and veterinarians across England, Scotland, Wales and the Republic of Ireland.

Each year, thousands of machines are sold to these markets, complete with a full in-market back up service for technical work such as warranty repairs, blade sharpening and other maintenance work.

### Where we work

UK, Ireland, Sweden, Germany, France, UAE

### Customer service excellence

At Liveryman, we understand the importance of animal grooming. Regular grooming stimulates the blood supply to the skin, so companion animals have healthier, shinier coats. Grooming enhances the wellbeing of the animal considerably and achieves a neat, well-tended appearance. With regular clipping and trimming, horses dry faster after exercise and conserve energy through reduced sweating, maintaining an improved level of fitness overall.

Liveryman's team are experts in the agri-health sector. It includes Vets, Technicians, a skilled, experienced sales team and a customer centric service team.

### Some examples

Liveryman has grown to include a full range of products for both the novice and professional user for horses, cattle and small animals. Liveryman has also earned endorsements from key equine personalities such as four-time Olympian Richard Davison:

**"Liveryman clippers provide plenty of power. Their ergonomic shape make it easy to handle and get in those awkward places, while the depth adjuster leaves whiskers and legs looking neat and tidy. In terms of noise, all you hear is a hum and our horses would fall to sleep during trimming if they had the chance, but with Liveryman we get the job done so quickly they are back in their stable before they know it."**

### R&D expertise

The company is continuously investing in the development of our quality, innovative products. NASA first developed brushless motor technology for the Apollo spacecraft, providing more power, reliability and lower maintenance than conventional motors. Liveryman was first to market using this ground-breaking motor technology for animal clipping and trimming.

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## Maxwell Concrete

### What we do

Maxwell Concrete is a family-run business based in Northern Ireland, establishing itself as one of the original leading precast manufacturers in the province. Built on 55 years' experience the Maxwell family name is widely renowned throughout the UK and Ireland for producing innovative, high-quality agricultural products at competitive prices.

### Our product range

Overall the company presents to the UK and Irish farmer a comprehensive range of agricultural precast products offering solutions to everyday problems to enhance farm performance. Key products offered by the company include:

1. Slatted Flooring Systems, incorporating brush finish gang slats, single slats, cubicles beds, mixing points and support beams
2. Drinking Troughs which are designed for sheep, cattle and horses
3. Wall Systems comprising portable and permanent dividers/retainers

### Slatted Flooring Systems

Maxwell Concrete work closely with customers to ensure that their finished project meets their exact specifications. Our highly acclaimed slatted flooring range is hand brushed to provide confident footing for livestock and is available in 150mm increments from 2.13m to 3.96m and designed and manufactured in accordance with European Standards.



### Where we work

UK and Ireland

### Water Troughs

Maxwell's Fast Flow Troughs have an innovative center core pipe protection system designed around the general rule that water should be clean, fresh and readily available. This range has been developed in response to customer feedback where farmers have identified the importance of access to fresh water eliminating the risk of livestock damaging water fittings and running up water bills.

### Some examples

#### SG Brimacombe & Sons, Crediton, Devon

Maxwell Concrete manufactured a slatted shed to accommodate new facilities for 685 milk herd. The slats provided secure footing for large Holstein milk cows whilst keeping their feet dry and aiding foot health.

#### Mr S.J. Hockridge, High Park Farm, Bideford, Devon

Maxwell Concrete developed the farm's first slatted shed for High Park Farm which saw a decrease in labour costs, cleaner and healthier environment for milk cows to perform at their best.

#### J D Murdoch, Lough Smithstone Farm, Kilwinning, Ayrshire

The slats provided to J D Murdoch resulted in improved cow comfort for better performance such as milk yield and farm profitability. Cleaner cows also reduced the number of mastitis cases.

#### Mr A & R Hooper, Crediton, Devon

The new 800m<sup>2</sup> cubicle shed produced by Maxwell Concrete increased good health and welfare to the financial benefit of the farm.

### Accreditations/Certifications

The company is accredited to CE conformity. Our manufacturing facility based in County Tyrone operates a quality management system using controlled production procedures in adherence with CE Marking to provide Irish and GB customers with the best possible product at all times.

### Target sectors and target customers

Maxwell Concrete products are sold through a network of stockists in the UK and Ireland, and also direct to contractors and farmers.



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Employee Numbers  
0-10



# McCAULEY TRAILERS



## McCauley Trailers

### What we do

As Northern Ireland's longest established trailer manufacturer, McCauley Trailers supplies high-quality and cost-effective agricultural and commercial trailers. Now a firm market-leader, the company also works with clients in the construction, forestry, waste handling, quarrying, transportation, and public utilities sectors.

### Our product range

The company supplies the following agricultural trailers:

- Low loader
- Dump
- Half pipe tipping
- Flatbed
- Forestry
- Livestock
- Turntable
- Hooklift
- Dropside
- Bale

### New equipment

#### General Purpose Dump Trailer

McCauley Trailers manufacture General Purpose Dump Trailers with carrying capacities of 12, 14 and 16 Tonne Gross. These Trailers have a wide base and can be used for multiple applications including the movement of loose materials and the transport of mini excavators.



### ULLT

With a sleek, user-friendly design, the new ULLT has the following key features:

- Cross-members through the chassis like a commercial trailer thus giving low bed height of 840mm
- Seven leaf spring suspension
- Wide track axles
- Chequer plate over wheels
- Tie points cut into the chime
- Post slots in headboard for hay rack
- Available in two and three axle configurations with the option of rear steer on the three-axle.

### Where we work

UK, Ireland, Finland, Norway, Denmark, Holland, France, Sweden, Estonia, Lithuania, Latvia, Poland, Romania, Bulgaria, Iceland, Australia, America, Africa and New Zealand.

### Customer service excellence

#### Customised manufacturing

Boasting 60 years' experience servicing the agricultural industry, McCauley Trailers is at the forefront of product innovation and is committed to continuous research and development.

The company strives to exceed customer expectation in quality and cost through persistent modernisation of its product range, meeting the demands of the changing environments within which its customers operate.

McCauley Trailers' in-house design team works closely with customers to ensure that the finished product meets their exact specification. Trailers can also be customised to suit each client's unique requirements alongside the supply of parts for all trailer makes and models.

### Some examples

#### Norway

McCauley Trailers previously supplied trailers to a client in Norway, who was impressed by the company's reputation for quality and service and the 'strong construction' of the trailers. They reported back that the trailers were 'ideal for Norwegian conditions' as well as being efficient, with excellent finishes, strong painting and smart details.

Customer, Paul Karlsen, added: "I believe all these aspects makes McCauley Trailers a leader in the agricultural transport market. As a distributor, the company always gives the best possible service we need and the high quality of the trailers give us a simple job on the after-market."

#### Thomann-Hanry

Mark Styles from Thomann-Hanry needed a reliable trailer to transport plant and equipment between depots in London and Paris, so went to McCauley Trailers to buy what he needed. "McCauley Trailers was the only supplier able to deliver next day and had a great product at an incredible price," he said. "Furthermore, our drivers have, on average, over 20 years' experience driving articulated lorries across Europe. They unanimously regard the MAC Trailer as one of the steadiest and smoothest that they have pulled."

### Accreditations/Certifications

- EWVTA (European Whole Vehicle Type Approval)
- ISO 9001 (International Organisation for Standardisation)
- CE Marking and BS Standards
- French Agricultural Trailer Certification
- French Commercial Trailer Certification

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- McCauley Trailers Ltd

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Employee Numbers  
11-65



Engineered by farmers for farmers



## MCM Sheds Ltd

### What we do

A market leader in the manufacture and distribution of agricultural trailers, MCM Sheds Ltd provides everything from livestock and silage trailers, to small tipping trailers and commercial low loaders. Working with customers within the agricultural and building sectors, as well as with clients who purchase products for personal use, they also supply a quality selection of tankers and sheds.

All MCM Sheds products are engineered by farmers for farmers, so customers benefit from the extensive knowledge and expertise of a team rooted in the agricultural industry.

With something to suit every requirement, MCM Sheds prides itself on supplying top-of-the-range products which are strong and durable. Meanwhile, an experienced after-sales team is always on hand to assist customers at every step of the buying process.

### Our product range

MCM Sheds manufactures and supplies the following types of trailers:

- Agricultural
- Small tipping
- Commercial low loaders
- Livestock

- Silage
- Dump
- Steel
- Halfpipe
- Car
- Steel dog trailers
- New and used trailers

A range of slurry tankers are also available, which can be made to order in any size. All tankers are fitted with commercial axles – though stepped axles are also available – and come as standard with Battioni Pumps, LED lights and various other components.

### Where we work

Current: UK, ROI, Norway, New Zealand.

Targeting worldwide.

### Customer service excellence


#### Built to last

Originally specialising in the manufacture of farm buildings, before diversifying into trailers and slurry tankers, MCM Sheds continues to supply high-quality sheds, barns and agricultural buildings. The experienced team further provides professional construction services for customers and uses specialist concrete when building to ensure the very best results.

### Accreditations/Certifications

- Type Approval for trailers.
- CE Approved for supplying and erecting agricultural sheds.

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Employee Numbers  
11 – 50



## Moore Concrete

### What we do

Moore Concrete has produced a comprehensive range of quality, precast solutions for the agricultural sector since the late 1970s, continuously developing its offering to clients, including dairy, beef, and arable farmers.

### Our product range

The Moore Concrete range includes livestock housing products, such as suspended flooring, cubicle bases and end walls, as well as support beams, pre-stressed wall panels, feed channels, footbaths, slurry channels and passage covers.

Moore Concrete also offers a high-quality range of portable bulk storage solutions, including Freestanding Retaining Walls and Bunker Walls. The unique Bunker Wall design is shaped to allow the free flow of material to the bottom of the silo. Bunker Walls are ideal for the storage of grain, potatoes, apples, fertiliser, silage and waste materials. They do not need to be bolted down, are double load bearing and have a forklift recess to allow them to be easily repositioned.

Other products and services include:

- A selection of water troughs from 68 litres to 2270 litres. These have a curved profile, increasing strength and improving animal safety.
- Surefoot Slip-Resistant Slats, which provide 50% more grip, improving animal welfare through cutting back on casualties from slips, reduced lameness and reduced calving interval.
- The Concrete Ox Strain Post, developed last year, which has an octagonal shape and a 50-year design life, creating a durable and secure foundation to anchor fencing.
- The company recently expanded its range to include Concrete Tractor Weights, as well as Quickbloc, a lego-style block that creates a strong structure with no need for bonding or fixing.



### Where we work

UK, Republic of Ireland, Estonia

### Target sectors and target customers

Dairy, beef and arable farmers.

### Customer service excellence

**Jane Glover acquired Surefoot for flooring in her dairy unit in Uttoxeter, Staffordshire:**

"We are extremely happy with both the product and service we received from Moore Concrete. We opted for Surefoot Slats in our new cubicle shed. Our milk yields have increased ... the new slats did not wear the cows' feet as much as freshly laid concrete would have ... cows' confidence has increased ... and the cleanliness of the cows does not compare."

**David Junkin a Northern Irish fencing contractor who purchased our Ox Strain Posts:**

"I like the fact that they are built to last, and they can be put in with a normal post driver. What's more, the 8-sided design means that the new posts have tremendous grip in the ground. They do not twist when the pressure is applied to get the required tension in the wire."

**Ott Läänemets from OÜ Avispeamees of Estonia, who ordered 2.4m and 3m Bunker Walls:**

"All four loads of Bunker walls have arrived and I'm happy with the quality and the fact that it was organised so quickly...very nice, just as expected."

### Some examples

Moore Concrete's success is based on a customer-led strategy, coupled with a commitment to manufacturing innovation. Building long-term relationships is the cornerstone of the business, with an emphasis on high-quality, reliable

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Employee Numbers  
>100



## Moore Unidrill Ltd

### What we do

Moore Unidrill is a specialist manufacturer of agricultural and sportsturf seeding equipment, with over 30 years of industry expertise.

### Our product range

Key products offered by the company are as follows:

1. Arable Unidrills
2. Grassland Unidrills
3. Sportsturf Unidrills

### Product Focus: New Grassland Unidrill

A new version of the grassland Unidrill was recently introduced as a direct result of customer research and feedback. It offers clients:

- Close row spacing, so that true one pass seeding can be made into grass/cereal stubble, or a conventional seedbed.
- A compact 3 point linkage chassis, for quicker headland turn performance in smaller fields.
- A central seed metering system, for high-speed accurate sowing combined with the ability to sow down to the very last seed quantity with all seed types.
- The soil engaging unit is from the previous, well-established grassland unidrill, on a trailing rubber suspension arm.
- A 3m working width and drills 32 rows with the spacing reduced to 90mm, or one-third less than the previous model.
- Moore Unidrill has also developed a 24-row version suitable for cereals and arable crops.

The system was trialed extensively in 2010, with very positive results. The unidrill places small seed in contact with soil at the correct depth, as well as a single disc and seedtube coulter arrangement, so the percentage of seed to germinate is very high.

#### By using the Unidrill:

- New seeds can be introduced into existing swards, either by seeding directly into glyphosate sprayed off grass stubbles, or by stitching in without chemical, using cultural control of the existing sward.
- Seeding into cereal/pulse stubbles, or conventionally tilled seedbeds can be easily achieved with absolutely minimal changes in set up.

With the professional contractor in mind, the machine is heavy duty, with quality components, and is relatively maintenance free.



### Where we work

UK, Ireland, Australia, New Zealand, South Africa, Germany, France, Denmark, the Netherlands

### Some examples

Esmor Hughes Slot Seeding & Seed Supply from North Wales has built up a successful contracting business through direct drilling grass with a Moore Unidrill. The drilling has now extended to over 1,500 acres per annum, and the company is now running two Moore Unidrills.

Darley Stud in Newmarket continue to maintain their horse paddocks with a new grassland unidrill, having used the Moore Unidrill technique for over 20 years.

Andrew Kirwan Agri-Contracting in Waterford has built up a grass direct drilling business from nothing over the past five years - now extending by over 900 acres annually – again, utilising Moore Unidrill products.

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Employee Numbers  
0 - 10



# MOTION

CONTROL SYSTEMS



## Motion Control Systems Ltd

### What we do

Motion Control Systems manufactures and supplies a range of specialist automation systems which are custom-built to suit individual client specifications. Using state-of-the-art software and technology, the company has extensive knowledge within its field and is committed to delivering excellence to every customer. Working throughout the UK and Ireland, Motion Control Systems supplies quality electrical automation technology to brands including Festo, Control Techniques and WEG Electric Motors, and to Moy Park, JTI Gallaher's and Bombardier.



### Our product range

- Products include:
- Pneumatic fittings
  - Pneumatic tubing
  - Variable speed drives
  - Electric motors
  - PLCs
  - HMI
  - Sensors
  - Quick release couplings
  - Power products
  - Braided hose
  - Cylinders
  - Valves
  - Inverters

With one of the most enviable automation stores in Northern Ireland, Motion Control Systems offers clients complete packages tailored to suit their unique automation requirements. With the highest performance and reliability guaranteed, the company has built up a reputation for delivering accurate control of motion for a range of purposes and now operates from a newly refurbished 4,000 sq ft office and workshop space in Belfast.

### Where we work

UK and Ireland.

### Some examples

Motion Control Systems designs and manufactures a range of control systems and panels, along with software and circuitry, with an expert team installing these for clients. Control system design includes:

- Servo and stepper motors
- Servo pneumatics
- Inverter controls
- Pneumatic control
- Electrical circuits

### Control panel manufacture for:

- Electrical and pneumatic components

### Software design includes:

- PLC programming
- HMI design
- SCADA database packages
- Inverter programming
- Servo and stepper motor programming

### Circuit design for:

- Electrical and pneumatic control circuits

### Accreditations/Certifications

- ISO 9001
- FSB

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Employee Numbers  
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# Moyfab ENGINEERING



## Moyfab Engineering Ltd

### What we do

Moyfab Engineering Ltd. was established in 1985. The company manufactures steel products for the agriculture and construction industries. The company's products have a track record of reliability and durability, offering excellent customer service in all aspects of service delivery.

Moyfab Engineering Ltd. manufactures and supplies up to 50,000 products annually and supplies merchants across Northern Ireland and the Republic of Ireland.

### Our product range

Moyfab Engineering supplies exclusively through agriculture merchants and builders merchants.

Moyfab Engineering manufactures a broad range of standard products targeted at the agriculture industry. These are:

- Hayracks
- Cattle Crushers
- Feeders
- Lamb Adopters
- Calf Dehorner Crates
- Sheep Fencing
- Troughs
- Transport boxes
- Cattle Drinkers
- Single Bale Tippers

### Where we work

Northern Ireland and Republic of Ireland

### Customer service excellence

#### Design for Agriculture

With an experienced engineering design team and the latest laser-cutting technologies in-

house, the company is continually designing and manufacturing products for the agriculture industry.

The Moyfab Engineering design team is committed to research and development and is designing new products to increase farm efficiency.

One of the most recent products designed and manufactured by the company is a Sheep Handling System, which is approved by the Northern Ireland Department of Agriculture, Environment and Rural Affairs. The system consists of a sheep race with a guillotine gate on one side and a dividing gate on the other.

The benefits of this system are:

- It requires only one operator, while other products on the market require two. It is therefore more efficient and cost-effective to operate
- It is designed for easy handling
- It meets all health and safety regulations

### Accreditations/Certifications

Most of Moyfab Engineering products are galvanised to BS729 standard to prevent corrosion.



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Employee Numbers  
11-50



## Muldoon

### What we do

Muldoon Transport Systems Ltd. designs, manufactures and supplies innovative vehicle solutions to the transport, agriculture, animal feed and bulk materials distribution sector.

### Our product range

The company's product range includes:

- Bulk Feed Blowing Trailers & Rigid Trucks
- Tractor Operated Bulk Feed Vehicles
- Stationary Grain Transfer Units
- Vacuum Systems

### Muldoon Bulk Feed Blowing Trailer

Muldoon supplies innovative trailers built for the pneumatic discharge of animal feed products.

The company designs and manufactures all their products from start to finish under one roof. This, combined with Muldoon's knowledge and expertise of the bulk feed delivery business, ensures production of a range of high-quality products for an industry where performance, reliability and efficiency are crucial.

### Manufacturing & Service Offering

At Muldoon Transport Systems' modern 40,000 square foot production facility, the manufacturing and assembly of chassis, alloy body and components is carried out on-site by multi-skilled engineers who are trained on an ongoing basis.

The company aims to cater for its clients' individual requirements, with each product designed and built to exact customer specifications. The experienced design team can provide advice and guidance on the most suitable solutions for clients.

### Muldoon NT Series

The Muldoon NT Series Bulk Tanker has been developed to ensure safe and efficient delivery of products such as bulk feeds and wood pellets. Offering enhanced load-carrying ability due to the lightweight design, along with a full-opening top, the NT Series can be used for back loads of raw materials as well as pneumatic discharge. The Muldoon design blowing equipment offers high-speed delivery, maximising operator profits.

### Where we work

Northern Ireland, Great Britain, Republic of Ireland, Saudi Arabia, Australia, New Zealand, Serbia, Liberia, Sweden, Norway, Finland and Denmark, Iceland.

### Some examples

#### Case Study: Carnex, Serbia

The Serbia-based food manufacturer Carnex contacted Muldoon Transport Systems with a requirement for on-farm deliveries. The company has operations involving crop production, animal feed production, animal husbandry and slaughter operations.


With quite a large fleet of agri-tractors it was decided that the Muldoon Agri-Blowing Trailer was the best option, as farms were all located within a 20km radius of the feed mill and locations were not always easily accessible for commercial vehicles.

#### Case Study: Almarai, Saudi Arabia

Saudi Arabia headquartered Almarai approached Muldoon Transport Systems regarding the delivery of poultry feed. Muldoon assessed the company's needs and was able to supply several new tailor-made Bulk Feed Blowing trailers for delivering poultry feed to more than 750 poultry houses.

### Accreditations/Certifications

The company is ISO 9001 registered and has attained European Full Vehicle Type Approval. In addition, Muldoon has received an Innovative Product Award from the Design Council.

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Employee Numbers  
51-100



## NC Engineering

### What we do

NC Engineering is a diversified manufacturing firm producing a wide range of machinery for the agricultural, construction and commercial trailer markets. Since 1975 the company has been committed to manufacturing quality products at affordable prices, winning numerous awards for design and innovation through continuous research and development.

### Our product range

NC Engineering manufactures a wide range of agricultural products, including:

- Slurry Pumps/Agitators
- Lagoon Pumps & Lagoon Mixers
- Vacuum and Top-Fill Slurry Tankers
- Rear Discharge Manure Spreaders
- Road Sweepers & Sweeper Collectors
- Sheargrabs/Silage Block Cutters
- Grain/Silage Trailers
- Dump Trailers & Agri low-loaders

NC is continually developing new products and updating current products to meet changing regulations and farming methods.



### Where we work

UK, Ireland, Austria, Australia, Canada, Denmark, France, Finland, Germany, New Zealand, Norway, Sweden, Switzerland, USA.

### Some examples

#### Tractor Driven Slurry Pumps

NC Engineering's most successful product line is its range of Tractor Driven Slurry Pumps. The first pump was designed in 1975, and the product line has since evolved into a range of pumps catering to the larger power outputs of modern farm tractors.

NC pumps range between 13,600 and 22,700 litres of slurry per minute, which is the most powerful pump on the market today.

#### Dump Trailer with 'Magic Door'

NC manufactures a Dump Trailer with a unique tail-door system, sometimes called 'The Magic Tail Door'. This design hinges on the bottom side allowing high loads to be tipped without obstruction. This totally mechanical system can be operated either in the always down position or retracting when tipping by using a simple hand lever.

#### Slurry Tanker for Tasmania

We were approached by our Australian dealer who required two tankers for spreading processed sewage waste water in Tasmania. The customer



wanted 16000L tankers fitted with load sensing electrohydraulic controls of trailing shoe type applicator and top fill hatches. The tankers were designed specifically for fast filling from the treatment works and it was important to the dealer that they could be shipped in standard shipping containers. These tankers were specially designed for the customer around this spec and are now in use every day.

#### Link-a-Sweep (Sweeper/Collector)

NC have recently made further improvements to their already very successful Link-a-Sweep. The NC Link-a-Sweep is a versatile dedicated sweeper collector unit with hydraulic Link-Box; it combines

robust construction with superb sweeping performance. It sweeps, collects and dumps to help maintain road/site cleaning hence giving a better and safer working environment.

It can be used as a:

- Hydraulic link box
- A Sweeper/Collector
- Simple Angled Brush (with optional arms)

#### Accreditations/Certifications

European Community Whole Vehicle Type Approval (ECWVTA) – Commercial Trailers

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Employee Numbers  
> 150



## Norbrook Laboratories Ltd

### What we do

A global leader in animal health products, Norbrook Laboratories Ltd. is a leading home-grown British veterinary pharmaceutical company that was set up in 1969 by the late Lord Ballyedmond.

Headquartered in Newry, Northern Ireland, Norbrook, today is rated among the top 15 largest animal health companies worldwide. Norbrook has production facilities in three countries as well as major sales and marketing hubs across the globe. In 2014 Norbrook celebrated the 25th anniversary of its US-based operation, Norbrook Inc. Other hubs include Australia, Brazil, Kenya, New Zealand and South Africa, with various other markets being serviced from these bases.

### Our product range

Norbrook has developed and registered more than 800 products worldwide and exports to 120 countries. The product range includes:

- Anthelmintics
- Anaesthetics
- Antibiotics
- Analgesics
- Anti-inflammatories
- Antifungals
- Fluid replacement therapies
- Vitamins and minerals



### Where we work

Major markets: UK, US and Australia

### Customer service excellence

Norbrook's capabilities include:

1. Research, development and manufacture of veterinary pharmaceuticals
2. Contract Manufacture
3. Chemical Synthesis and Active Pharmaceutical Ingredient (API) production

### Some examples

The company is focused on animal health in:

- Commercial livestock (cattle, pigs, sheep)
- Pet & companion animals

### R&D expertise

Norbrook continues to reinvest significantly each year in research and development programmes to continue to innovate and lead the Animal Health industry.

Norbrook is at the forefront of formulation technology and has developed a range of new chemical routes for the synthesis of active materials. The company is also highly innovative in relation to product delivery. Its novel Closamectin Solution for Injection (for cattle and sheep) is heated to body temperature using an activated heat pack, which has the advantage of increasing bioavailability and reducing trauma at the injection site. Additionally, Norbrook's wide range of pour-on products has been developed to reduce stress to the animal.

### Accreditations/Certifications

Norbrook's manufacturing facilities are GMP approved, and licenced by the UK Government (VMD & MHRA) as well as the United States Food and Drugs Administration (FDA).

Norbrook has been awarded the Queen's Awards for Enterprise on five separate occasions, recognising the excellent track record in international trade as well as a commitment to sustainable development and innovation. A recent award recognised Norbrook's achievements in International Trade.

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Employee Numbers  
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## Northern Engineering

### What we do

Northern Engineering is a progressive engineering firm that designs and manufactures products that improve animal welfare and increase operational efficiency in the agriculture industry.

The company has had sales across the UK, and recently sold to a farm in Romania. Its crush is now being used by the University of Liverpool for research work into the treatment of beef animals.

### Our product range

#### Innovative Design - The Cow Tipper

The company has designed and manufactured an innovative product called the Cow Tipper. This is a hydraulic, rollover cattle crush, designed with both animal and operator in mind. With lameness reported to be the third most common reason for culling cows on dairy farms – after infertility and mastitis – the Cow Tipper is designed for quick and safe access to all four feet for inspection and treatment.

In conventional upright crushes the operator has to lift each foot individually, causing stress for the animal and the user. Northern Engineering's crush allows the operator to turn a cow or bull over on its side, so that all four feet are visible at the same time for inspection and treatment.

The crush is fitted with a hydraulic, extendable rump rail, which guides even the most stubborn animal inside and vastly reduces the amount of effort and time required. Although called the Cow Tipper, this crush is capable of rolling over the largest of bulls, and can handle all sizes of farm animals with no need for sedation.

#### Return on Investment

- Time – Tests have shown that by using the Cow Tipper, farmers can treat up to six animals in the time it takes to treat one using the upright method.
- Medication – The crusher brings savings on medication, as large bulls no longer need to be anaesthetised for treatment for lameness.
- In the average dairy herd 16 out of every 100 cows are affected by lameness annually. The average costs caused by lameness per 100 dairy cows is calculated by the Department of Agriculture & Rural Development in Northern Ireland to be around £4000 per year. This can be virtually eradicated through using the Cow Tipper to facilitate treatment.

### Where we work

UK and Ireland

### Accreditations/Certifications

CE Approved



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Employee Numbers  
0-10



Global leaders in precision engineering.



## Northern Hydraulics Ltd

### What we do

One of the UK's top manufacturers of precision hydraulic cylinders, Northern Hydraulics Ltd. supplies innovative products at competitive prices, working within the agricultural and other sectors across the UK, Ireland and further afield.

### Our product range

Northern Hydraulics manufactures the following types of cylinders:

- Single-acting
- Double-acting
- Double-ended
- Intergraded
- Bespoke designs

### Bespoke manufacturing

With a maximum output of 175,000 top-quality units per year, Northern Hydraulics also offers provide bespoke solutions for small-scale projects, manufacturing products to meet clients' unique specifications. The company can also acquire the relevant accreditations for customers and supplies cylinders for the following sectors:

- Agricultural
- Material handling
- Waste and recycling
- Crushing and screening
- Aerial work platforms
- Excavator attachments
- Mining and quarrying
- Industrial OEMs
- Aviation ground support
- Commercial vehicle

### Invested in clients

Northern Hydraulics has built up a reputation over the years for establishing long-lasting professional relationships with their clients, and puts great emphasis on delivering quality customer support. To ensure the very highest standard of products, the company has an automated production line which gives it the flexibility to efficiently produce up to 175,000 units per year. Meanwhile, the centralised location of its 10,000sqm factory provides easy access to local air and seaports, lowering the cost of doing business abroad.



### Where we work

UK and Ireland, Finland, Canada.

### Customer service excellence

With decades of industry experience, the company combines expert knowledge and skills with the very latest cutting-edge technology at its fully equipped production facility, where it produces more than 125,000 cylinders annually. The team maintains strict standards for quality control at all stages of design and production, ensuring the delivery of industry-leading hydraulics to a wide range of hi-tech OEM companies.

As a result, Northern Hydraulics fulfils more than 125,000 orders each year for precision hydraulic cylinders, working hard to secure its position as the leading manufacturer of precision hydraulic cylinders, domestically and abroad.


### Invested in quality

At Northern Hydraulics, an experienced in-house design and production/CAD team works closely with clients at every stage of the development process to ensure the perfect product. Through the company's Advanced Quality Planning process every detail of a project is carefully managed, from conception to completion, guaranteeing premium quality and efficient delivery as well as competitive prices.


Continually investing in high-tech equipment and upskilling employees to produce the highest quality product and after-service, Northern Hydraulics is committed to ensuring complete customer satisfaction at all times.

### Accreditations/Certifications

- ISO9001
- Investors in People
- UKAS Quality Management

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Employee Numbers  
51-100



## Nugent Engineering

### What we do

Established in 1984, Nugent is a leading manufacturer of agricultural farm machinery and trailers. The company's impressive portfolio of products is manufactured to the highest standards and is supported by a fast and efficient order and delivery service and nationwide sales team, backed up by a comprehensive technical support team.

### Our product range

#### Nugent Engineering Product Range

Nugent designs and manufactures a broad range of equipment suitable for the agriculture industry, including:

- Cattle Handling Equipment
- Bale Handling Equipment
- Shear & Tine Grabs
- Link Boxes
- Yard Scrapers
- Grass Toppers
- Muck Spreaders

#### Nugent Trailers Product Range

Nugent designs and manufactures a range of trailers for the agriculture, construction, commercial and equestrian industries, such as:

- Horse Trailers
- Livestock Trailers
- Flatbed Trailers
- Tipper Trailers
- Utility Trailers
- Quad Trailers
- Plant Trailers
- General Purpose Trailers
- Bespoke Trailers
- Incline Trailers
- Beavertail Trailers

#### Trailer Spare Parts

Nugent Spare Parts maintains the high quality that clients come to expect from Nugent Trailers, supplying a full range of parts to suit a repair or modification to an existing Nugent product.



### Where we work

Republic of Ireland, UK, Austria, Australia, Belgium, Czech Republic, Denmark, France, Germany, Iceland, Latvia, Lithuania, Netherlands, New Zealand, Norway, Sweden, Switzerland

### Some examples

#### Innovative Design – Dual Drive™ Parabolic Equaliser

Nugent has a dedicated engineering design department that provides a bespoke design service to its customers. The design team is committed to new product development. For example, Nugent has designed and patented the 'Dual Drive™', a parabolic suspension system which offers the following key benefits:



- Improved suspension
- Reduced noise
- Reduced wear
- Enhanced performance

Although parabolic springs have superior strength characteristics to other forms of suspension systems, trailer manufacturers have long been trying to overcome the shortcomings of the traditional parabolic spring suspension system. Nugent has applied automotive design philosophy to develop this innovative solution, which utilises the extended load-carrying capacity and durability of the suspension.

Inserting a secondary rubber damper between the chassis, along with a unique pivot slipper plate, creates an additional suspension element and ensures the springs are fully engaged on both the compression and rebound cycle to cancel out vibration and drastically reduce suspension chatter.

The Dual Drive™ – with its additional damping effect – aids in reducing the stresses on the



chassis, the body frame, and tow couplings, and limits shock waves that may be transmitted to the tow vehicle.

With Nugent's unique, patented 'Dual Drive' suspension enhancing the parabolic spring suspension, customers have all the advantages of parabolics, but with the additional benefits associated with suspension axles - all in one system.

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Nugent Trailers



## OBE Waste & Agri Engineering Ltd

### What we do

OBE Agri Engineering Ltd. manufactures equipment for the agricultural, construction and waste industries throughout Europe and further afield. The company specialises in the design, development and manufacture of agricultural trailers and attachments for materials handling and waste disposal using the latest design and manufacturing technology.

We also design and manufacture the MASTERBURN range of incinerators suitable for disposal of animal carcasses, meat and food processing processing waste.

The company's policy is to offer its customers cost-effective solutions and to exceed their customer support expectations from design stage through to the finished product.

### Our product range

OBE Agri Engineering targets its products at the agricultural sector for farmers, contractors and distributors for new markets.

#### Trailers

- Dropside Trailers
- Monocoque Trailers
- Contractor Monocoque Trailers
- Root Trailers
- Bale Trailers
- Pallet Trailers
- Low Loader Trailers
- Livestock Trailers
- Feeding Trailers
- Drop Flat Trailers
- ATV Trailers

#### Loader Attachments

- Work Platforms
- Shear Grabs
- Round Bale Stackers
- Loader Buckets
- Loader Grabs



### Slurry Equipment: Slurry Tankers (Slurry-Tek)

We are the sole manufacture of our unique Low Centre Gravity tanker (LCG) which is designed with the lowest centre of gravity possible to allow safe working on hills and slopes which are historically dangerous for conventional designs offered by other manufacturers.

- Umbilical Spreading Systems
- Reelers
- Dribble Bars
- Trailing shoe applicators

Forthcoming additions to this agricultural equipment range are: Yard Scrapers, Rotary brushes, Bale shears and Bale unrollers.



### Where we work

OBE Agri Engineering is expanding its dealer network each year and is currently starting to export to the Nordic and Scandinavian countries. OBE Agri Engineering has also successfully expanded into New Zealand, and has exported products to the following countries:

- UK
- Ireland
- Iceland
- Norway
- Finland
- Denmark
- Ukraine
- Kurdistan
- Poland
- Vietnam
- Australia



- Afghanistan
- Hungary
- Russia
- Romania
- Saudi Arabia

We currently have a network of dealers throughout the GB market and are always looking to work with partners in new markets.

OBE Agri Engineering ensure a quality product and this is proven by its exported products which have a zero-warranty record. The company's attention to detail ensures the end user can be fully confident of the product.

This is demonstrated by repeat orders from the existing export dealer in New Zealand which has given the company the confidence and assurance needed to progress in this and other export markets.

OBE Agri Engineering design and build products specific to the individual country's requirements. One recent, successful example of this is in Finland and Iceland where products were modified to suit the market demands and requirements.

### Customer service excellence

The company prides itself in offering R&D expertise resulting in the development of new products and in offering a service for other manufacturers to manufacture their products under licence. As a result, OBE provides other manufacturers with a route to market, without having to incur expensive transport costs.

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Employee Numbers  
11-50





## Orby Engineering Limited

### What we do

Orby Engineering is a long-established company with over 60 years engineering experience and is renowned for manufacturing a range of livestock feeding equipment for the agricultural sector.

The company (originally based in Portadown) was founded by Orby Brown, who lead the family-owned business for many years. When the company came up for sale due to retirement it was purchased by Stephen Cromie, the managing director of Exact Group NI. With a wealth of precision engineering experience in the aerospace sector and cutting edge equipment and techniques we feel this is an ideal collaboration, ensuring that Orby remains a market leader in its 'field'.

Orby equipment is famed for its quality of design and product build, and also enjoys a reputation for reliability in build-quality and service.

### Features

- Patented corrosion resistant stainless-steel feed measuring cylinder
- Full stainless steel feeder option available, or individual components as required
- Full range of spares available inc. stainless steel & galvanised legs
- Range of pneumatic/ electronic / dual control options
- Solenoid box available to integrate with all types of electronic panels

- Orby dispensing mechanism provides for accurate, reliable and “pilfer-proof” feeding
- Investment in the durable Orby system is returned over many years of trouble free feeding
- Simple & speedy installation



### Where we work

Working in: Northern Ireland, Republic of Ireland, Great Britain.

Work Targeted: Europe, Asia, North & South America

### Key Points

- Proven Accuracy
- Unique Cylinder/Seal Arrangement
- Powerful, Smooth Operation
- Choice of Controls (Electronic/Dual Control)
- Quick Turnaround & Delivery
- Competitive Pricing
- Excellent Agent Coverage

### Accreditations/Certifications

The Exact Group works to AS9001 REV D (aerospace standard). Orby Engineering also works alongside these stringent standards.

### Testimonials

Tony Condron Milking Machines, 'Tony has been installing Orby Feeders for over 25 years and rates the Orby Feeder as extremely reliable and bullet proof.'

Eamon McGuinness, 'Eamon has been installing Orby Feeders for over 35 years and described the Orby Feeder as being very reliable and durable, with little maintenance required.'

### FOR YEARS OF TROUBLE-FREE FEEDING



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Employee Numbers  
0 - 10



Tough plants for tough conditions.



## Predator 100 Ltd

### What we do

Specialising in quality, bespoke trailers for the agricultural and commercial sectors, Predator has more than 20 years' experience in designing and manufacturing products that are robust and built to last.

Working to stringent quality control procedures, and with excellent customer service and after-sales care, the company has become a market leader in the trailer industry and has a growing global dealer network.

Agricultural clients can benefit from Predator's livestock and bale trailers, as well as dump trailers with a range of tipping applications, and agri low loader trailers with spring-assisted ramps and high-speed specification options. Meanwhile, low loader trailers are supplied to a range of commercial companies, with trailers further designed and supplied for the railway, forestry and waste industries.

With a strong presence in the railway industry, Predator has designed a variety of trailers and attachments for this sector, with innovative new railway trailers and fuel tanks launched in 2018.

### Our product range

#### Products include:

- Commercial low loaders
- Two and three-axle low loaders
- Dump trailers
- Livestock trailers
- Bale trailers
- Fuel bowsers
- Railway trailers
- Forestry trailers
- Waste recycling trailers



### Where we work

Norway, Finland and Sweden, Ireland and the UK, Europe, Australia and New Zealand. Working throughout the UK and Ireland, and exporting to Norway, Finland and Sweden (Scandinavia), as well as Europe, Australia and New Zealand, the company is now also moving into America.

### R&D expertise

Continually investing in innovation, R&D has high priority at Predator, which constantly strives to stay ahead in the marketplace by creating quality new designs.

Always striving to deliver the most efficient and reliable machinery and equipment, Predator constantly invests in R&D, with a continuous improvement policy in place at the company.

With an expert in-house design team, the company is committed to developing innovative new products that give clients high-spec trailers

that meet their individual requirements, ensuring innovation every step of the way.

All product development draws on current market research and customer feedback, ensuring a range of reliable products that are suitable for use in a wide range of industries.

Having originally started out manufacturing scissor block grabs and 3.5 tonne galvanised plant trailers, Predator has steadily expanded its portfolio over the years to become a leading supplier in the agricultural and commercial trailer markets.

### Accreditations/Certifications

- ISO9001
- IVA (Individual Vehicle Approval).
- All rail trailers are supplied with approval to meet current RIS-1530-PLT regulations and have full Network Rail approvals.



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Predator 100 Ltd

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Employee Numbers  
0-10



## Prefab Engineering Ltd

### What we do

PF Trailers specialises in a professionally engineered, well-finished and competitively priced range of trailers.

### Our product range

PF Trailers now offers a wide and varied range of agricultural and bespoke trailers, including:

- Drawbar low loaders
- Dump trailers
- Commercial low loaders
- Service & parts
- Drawbar skip trailers
- Tandem axle low loaders
- Tri-axle low loaders
- Bale/loader trailers
- Multi-purpose trailers
- Tipping trailers

### Focus on Strength and Durability

Over years of product research, development and refinement, PF Trailers has concentrated on the durability of its products. The performance of the company in this regard is demonstrated through feedback from dealers and end-users alike regarding the long-term lifespan and effectiveness of PF Trailers' products.

### Where we work

PF Trailers has an extensive network of dealers throughout Great Britain, Ireland and Europe including Norway, Sweden, Denmark and Finland.

The company also supplies to New Zealand and Australia.

### Customer service excellence

Manufacturing & Engineering Capabilities

PF Trailers manufacture all products in-house – from conception to completion. The company's 175,000 sq ft premises include:

- Two plasma cutters
- A state of the art 8m folding press
- Fully equipped machine shop
- Four large fabrication bays
- Separate blasting and painting booths
- A fitting-out shop

The company's facilities, combined with a highly skilled and experienced workforce, enable PF Trailers to custom-build trailers to the exact specifications requested by its customers.

### Accreditations/Certifications

Products are CE plated and certified. PF Trailers is also in the process of obtaining full Type Approval for commercial trailers.



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Employee Numbers  
11-50



Animal health naturally.



## Provita Eurotech Ltd

### What we do

Provita Eurotech Ltd is a privately owned company which develops, manufactures and supplies a range of innovative and natural animal healthcare products to customers within the agricultural, animal health and veterinary sectors. Working through a global network of key partners, the company has two manufacturing outlets in Northern Ireland, along with an office in Poland and an American sister company - Provita LLC.

### Our product range

All products developed by Provita Eurotech Ltd are safe and clinically proven animal health products, completely natural and non-toxic and therefore safe for the environment, the user and the animals.

Provita supplies the following products:

- Medicinal probiotics
- Hoof care products
- Feed probiotics
- Feed supplements
- Colostrum products
- Electrolytes
- Air purifiers
- Feed additives and mint gels

### Provita Protect

Over the years a reliance on using antibiotics to treat livestock diseases and ailments has created an urgent need for alternative treatments, with resistance to last-resort antibiotics now a global challenge.

To help address this problem, Provita has invested years researching and developing Provita Protect, the only medically licensed probiotic for prevention of calf scour, the most common disease in young calves.

A natural alternative to antibiotics and vaccines, Provita Protect has been clinically proven to reduce calf scour by 83% and to improve growth rates by 31%, with safety, efficacy and quality guaranteed. References available on request.



### Managing lameness

A major challenge in ruminants around the world is lameness, another area where Provita has been working to develop effective natural treatments which don't contain antibiotics or toxic chemicals. They include:

- Hoofsure Endurance Footbath: A proprietary blend of organic acids, essential oils and wetting agents. Proven to be 19% more effective than formaldehyde and 7% more effective than copper sulfate so is safer for the animal, user and the environment. References available on request.
- Hoofsure Konquest Hoof Gel: Highly concentrated with potent penetrating action. It has advanced bio-adhesion properties for use with or without a hoof bandage.
- Hoofsure Combat Hoof Spray: A unique film-forming spray providing persistent longer lasting activity, it can be used for spot-spraying in the parlour or during hoof-trimming.

### Target sectors and target customers

Agricultural, animal health and veterinary sectors.



### Where we work

Currently working in the UK, Ireland, USA, Canada, Norway, Denmark, Germany, Spain, Greece,

Turkey, Poland, Iceland, Japan, France, Estonia, the Falkland Islands and Portugal.

Targeting: Middle and Far East.

### Customer service excellence

The factory in Omagh, Northern Ireland, is the only GMP-licensed facility for the production of veterinary probiotic medicine in Europe. It is also registered to current EU feed legislations (NI518-ALPHA) and can therefore uniquely produce both veterinary medicines and nutritionals, including pastes, liquids, powders, creams and gels, oral solutions and capsules.

### R&D expertise

#### Research-led product development

Committed to developing the most natural and effective solutions for improving the welfare, health and performance of animals globally, Provita constantly invests in R&D. Collaborating with universities and scientists the team has subsequently produced a range of high-quality products specific to cattle, sheep, pigs, poultry, horses and small animals.

Always adapting to meet the demands of an ever-changing global agricultural industry, Provita has progressed from working locally, to now exporting to more than 15 countries globally in the last few years.

### Accreditations/Certifications

- Provita Quality Assurance
- GMP+ approved
- UFAS accredited
- Compliant with UK, and Irish Pharmaceutical Licensing Authorities
- Compliant with EU Feed legislation
- Registered as a Feed Business Establishment (GB NI/1518)
- FDA Compliant

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Provita Animal Health

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# Quad-X

## Quad X Ltd

### What we do

We are a multi award-winning company with 25 years' experience in the design, development and manufacture of agricultural machinery.

### Our product range

Our innovative product range, consisting of ATV/UTV equipment is aimed at the following:

- farmers (full and part time)
- groundcare professionals: landscapers, property developers, parks & reserves
- smallholders/hobby farmers
- equestrian
- state authorities: councils, RSPB, National Trust, Rivers Agencies

### Weed control

- Sprayers & booms
- Weed wipers

### Sowers and spreaders

- Broadcasters
- Fertiliser spreaders
- Salt/Grit spreaders
- Muck spreaders

### Trailers

- Stock trailers
- Dump trailers
- Bale trailers
- Golf buggy trailers
- Tipping trailers

### Groundcare

- Rollers
- Aerators
- Menage graders
- Chain harrows

### Mowers

- Finishing mowers
- Rotary mowers
- Flail mowers
- Power shredders
- Strim-its

### Feeders

- Stock feeders
- Chick feeders

### Front mount attachments

- Front buckets
- Yard scarppers
- Snow ploughs
- Silage pushers
- Power sweepers

### UTV equipment

- ATV cab kits
- ATV sprayers
- ATV weed wipers



### Weed Wipeout

Quad-X are pioneers of ATV weed control machinery. 'The Wipeout' is a model which incorporates double rollers, automatic weed detection, and automatic chemical application system for fast and effective weed control. The unique solution treats only the weeds giving faster kill rates while saving up to 97% chemical.

### Mowers

Quad-X manufacture a range of mowers to include the compact rotary, wildcut, flail and power shredder mowers. This range offers a solution to vegetation and weed control for anything from lawn cutting to shredding dense vegetation.

### Front mount Equipment

Quad-X manufacture a range of machines for the front of an ATV, including snow ploughs, silage pushers, sweepers, and yard scrapers. We offer the strongest, fastest-fitting, and most versatile mount system on the market.

### Customer service excellence

#### Innovation, commitment to quality, and R&D

Our R&D team specialises in designing machinery that is simple to use, easy to fit, robust, reliable, and competitively priced.



Our commitment to R&D and innovation ensures our products are technically advanced, while our ability to custom-build means our machines can be modified to suit the needs of our customer. Quad-X clearly understands what dealers need from distributors and manufacturers. In working with Quad-X a dealer can:

1. Offer a full range from one supplier making it easier to manage.
2. Easily receive all product parts.
3. Offer British-built and CE-marked equipment.
4. Deal directly with the manufacturer and product engineers.

### Where we work

We have dealer networks in the UK and Ireland and are actively seeking to further develop into international markets.

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Quad-X



## Queen's University Belfast, Institute for Global Food Security

### What we do

Queen's University Belfast is at the forefront of addressing one of the greatest global challenges – how to ensure the safety of our food. Food Science at Queen's was rated No 1 in the UK in the latest REF exercise – an independent assessment of research-intensiveness at UK universities carried out in 2014.

More than 60 principal investigators are pushing the agenda forward at the dedicated Institute for Global Food Security (IGFS). IGFS offers a range of undergraduate and postgraduate, taught and research degrees, including online/distance learning.

IGFS has a close relationship with the local, national and international agri-food industry, partnering on many research projects in order to better meet the needs of society and consumers.

### Some examples Research Facilities

IGFS boasts some of the most advanced research facilities in Europe, including highly sophisticated biosensor and mass spectrometry platforms. The Institute will invest in additional leading-edge equipment as part of the new, purpose-built home IGFS will move to, along with the School of Biological Sciences, in late 2018.

This major construction project, costing around £40 million, will provide state-of-the-art teaching, lab and other research facilities for 750 students and 170 staff.

### ASSET

The Centre for Assured, Safe and Traceable food (ASSET) at Queen's University, Belfast is a research centre within IGFS.

As demands from consumers and regulators grow regarding food safety, the need to develop technologies to detect contaminants within food has increased.

Producing safe, assured and traceable food within ASSET begins at the farm with improving animal health, looks towards making the supply chain safer using advanced sensor technology and delivers unique ways of tracing our food production back to its origin using fingerprinting technology.

These innovative scientific techniques are creating a new food-forensic dimension in animal and human health, food-safety monitoring and traceability.

### R&D expertise

What makes IGFS unique is its multi-disciplinary approach. Academics from backgrounds spanning environmental sustainability, agriculture, nutrition, health and economics work in parallel, using three, key pillars to guide their research:

#### 1. Farms of the Future

Farming practices globally are unsustainable, failing to support an appropriate standard of living for farmers, environmental challenges and not providing enough food to meet population growth. IGFS actively explores new ways of enhancing agricultural outputs without compromising ecological stability.

#### 2. Global Food Integrity

Global supply chains have dramatically changed how we grow and consume food. They have brought many positives like affordability, but also increased risks like disease and fraud. IGFS carries out the research that will help governments, industry and society come up with solutions.

#### 3. Nutrition in the 21st Century

Queen's researchers are scrutinising diet and its relationship with coronary disease, diabetes, Alzheimer's and other illnesses, as well as other hot topics like anti-microbial resistance. IGFS is pushing the boundaries of what we know about diet. Only in this way can public-health policy be influenced to create a healthier world population.

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Employee Numbers  
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## Ramko Hydraulic Cylinders

### What we do

Ramko Hydraulic Cylinders is a manufacturer of high-quality cylinders for all engineering sectors which are used in many types of agricultural machines. The company's cylinders range from 32mm bores up to 125mm bores, with push power from 3.8 tonnes up to 29 tonnes.

### Our product range

Ramko Hydraulic Cylinders customers include manufacturers within the agricultural sector, as well as individual farmers who require parts and spares for their machines.

The company's cylinders are used in a wide range of agricultural machinery, from harvesters to slurry tankers. Ramko stocks both single-acting and double-acting hydraulic cylinders and rams, alongside a range of other products, such as tipping rams, trailer brake rams, cylinder supplies, accessories, hoses, kits, quick release couplings and valves.

The company also produces a range of hydraulic log splitter, post driver and tipping trailer cylinders, as well as kits for customers to build their own versions. The push power on the log splitter cylinders includes a 13.4-tonne, a 25-tonne and a heavy-duty 30-tonne variant.

Ramko also provide cylinder spares and other services for the agri-tech sector.



### Where we work

Ireland, UK, US.

### Customer service excellence Bespoke Service

The company prides itself on its bespoke cylinders and offers a complete design and manufacturing service driven by customer requirements. These small-volume cylinders range from 32 mm to 250mm bore cylinders for any application. Using the latest in machinery and multi-skilled operators and working to ISO9001:2015 and BFPDA hose assembly standards, Ramko guarantees an impeccable service from the earliest stages of the design process until delivery.

The aim is not to produce large batches, but to manufacture the systems in small volumes, even as one-offs or in very small numbers. These can be highly specialised parts of differing sizes, particularly suitable for prototypes or R&D. Ramko aims to meet any requirement.



### Some examples

Joe Quinn from Northern Engineering, whose Cow Tipper machine uses Ramko components "Rams and hydraulic components supplied to us by Ramko have enabled us to make this idea a reality."

The systems can be ordered from the company's online shop with a guaranteed next-day delivery for customers in the UK and Ireland – international delivery is available on request. Single or multiple rams can be ordered from the website, with all standard hydraulic rams in stock and ready for immediate dispatch.

### Accreditations/Certifications

BFPDA Approved Hose Assembly  
Members of the BFPA  
ISO9001:2015



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Ramko Hydraulic Cylinders



Ramko Hydraulic Cylinders



Employee Numbers  
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# RANDOX

## FOOD DIAGNOSTICS

### Radox Food Diagnostics

#### What we do

Commitment to research and development over the past 30 years is the driving force behind our innovative technology and has allowed Radox Food Diagnostics to become a global leader in drug residue screening and enzymatic analysis. With a comprehensive range of testing solutions and validations across a range of matrices, we are changing the face of food safety and quality worldwide.

#### Our product range

Radox Food Diagnostics has developed a specific product portfolio to suit the needs of global industries such as dairies, honey producers, meat and seafood processors, feed mills and wineries. Putting the food and agriculture industry at the forefront of what we do has allowed Radox Food to become the industry's trusted supplier of the most innovative technology.

The company has developed the Evidence Investigator, a revolutionary screening analyser for drug residues and toxins. The Evidence Investigator uses a unique multi-analyte, quantitative screening platform called Biochip Array Technology.

This patented multiplex platform has 9 individual sample wells and is available to test for an extensive list of antibiotics, growth promoting compounds and toxins across the dairy, meat & seafood, honey and feed & cereals industries. Biochip Array Technology provides results for up to 44 residues or toxins within one sample well, on the surface of a 9mmx9mm ceramic chip.

The patented Biochip Array Technology offers the user more information, faster than ever before, empowering them to protect not only their products, but the animals that produce them.

Radox Food Diagnostics also offer the Multistat, a fully automated analyser with the capability to give qualitative results for up to 130 antibiotics

including; anti-parasitic and anti-inflammatory drug residues within milk in under 18 minutes. This user-friendly touch screen analyser allows the user to just add the raw sample to a pre-filled cartridge, enter it into the machine drawer and press play.

The RX series analysers are pushing the boundaries of efficient testing by making rapid accurate results accessible to winemakers and honey producers when they need them. The Rx misano is a user-friendly, quantitative, table top spectrometer which allows users with little scientific experience to navigate and get results with ease in any environment. Tests for honey include Diastase, HMF (hydroxymethylfurfural) and glucose/fructose. Wine tests include; ethanol, citric acid, sulphites, glucose/fructose and many more.

Radox Food Diagnostics are committed to ensuring the food industry has the best quality screening available, because better science means safer food.

#### Where we work

Radox Food Diagnostics work with government research facilities, university research facilities, border controls, large production sites, private laboratories and have a large global distributor network.

With customers in over 52 countries we aim to provide unrivalled customer support. Radox Food have 350 technical and engineering staff in Radox offices all over the world ready to help at any time.

#### Some examples

##### National Milk Laboratories (NML UK)

"The previous range of broad spectrum antibiotic tests would result in a pass or fail, but wouldn't identify the particular active antibiotic ingredient that cause the fail. The Evidence Investigator Instrument uses multiplex arrays to help identify the precise antibiotic(s) causing failures in antibiotic testing. This instrument can simultaneously detect up to 130 antibiotics/non-steroidal anti-inflammatory and anti-parasitic

drug residues from a 25ul sample of raw bovine milk. With this information, the source of the contamination can be found and steps taken to prevent a re-occurrence."


##### Lune de Miel (France)

"We have been working with Radox now for four years with one aim: to collaborate in order to improve the daily reliability of the methods. Fine support, results and good scientific understanding in the Radox team led us to purchase the Investigator in 2011 for the purpose of routine analysis" Patricia Beaune, Laboratory Manager."

##### Irish Diagnostic Laboratory Services (Ireland)

"I would recommend the Evidence Investigator as a reliable, efficient and easy to use way of quickly screening samples for residues of veterinary drugs. At IDLS we are continually impressed by the high level of customer service and support from Radox Food Diagnostics." Professor Tom Buckley, Head of the Microbiology Unit."



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 Radox Food Diagnostics

 Radox Food Diagnostics

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Employee Numbers  
> 1000





Designed to perform, built to last



## Redrock Machinery Ltd

### What we do

Redrock Machinery manufactures and supplies a range of agricultural equipment and machinery, including trailers, silage block-cutters and slurry tankers, pumps and mixers. They also produce mixer feeders (vertical and paddle), as well as grass forks/buckrakes/silage grapes, straw blower feeders and farm sweeps.

### Our product range

With a wide range of equipment available, Redrock Machinery specialises in winter feeding and slurry handling equipment, having firmly established itself within this niche area. Their winter feeding equipment is more efficient and ultimately saves farmers money in the long run when it comes to feeding livestock inside during the winter months.

Meanwhile, the company's quality slurry handling range, which includes tankers and pumps, delivers a variety of options for farmers, all designed to deliver maximum efficiency. The tankers are available in 1,100 - 5,000 gallon sizes, while the slurry pumps range in size from 6"6" to 10", with three variations available.

Manufactured from high-quality components, all equipment is strong and robust and comes with the Redrock Machinery guarantee of longevity, with most machinery having a lifetime of more than 10 years.

### New Product: Straw blower/feeder

Due to the increased use of round silage and straw bales across the world, Redrock has designed the Redrock C300, a versatile machine which dispenses large bales for feeding or bedding. The Redrock C300 has three cubic metres of capacity and requires 65hp. It features a rear self-loading door and can complete the entire operation without the need for another loading machine. It can also chop the straw bales and spread the material up to 18m in a comfortable even layer.



### Where we work

UK and Ireland, Europe, Scandinavia, Japan, China, Australia and New Zealand.

Supplying the UK and Ireland as well as the global agricultural market - with a particular focus in European, Australia and New Zealand - Redrock Machinery works with a variety of dealerships.

### Customer service excellence

With demand for Redrock Machinery products increasing significantly since 2013, the company recently re-invested in its facilities, building a new state-of-the-art production factory to accommodate this growth. As a result, Redrock



Machinery has doubled its cutting facility, fabrication and finishing capacity and is fully equipped to handle a wide range of additional orders.

### Some examples

#### Australia

Redrock Machinery began exporting small volumes of products to a newly secured dealer in Australia back in 2016. Very satisfied with the deliveries received, this relationship has subsequently grown since then, with Redrock Machinery now supplying bigger container loads of product as well as many larger, non-containerised items.

The team are planning to expand their service offering in Australia and will be attending trade shows in partnership with their client in the future.

### R&D expertise

Consistently investing in R&D, the company is always working on process improvements and designing new products, ensuring that their machinery delivers the very best results. As a result, they constantly adapt their machinery to meet the current needs of the agricultural industry, as well as working to identify the future needs of farmers.

### Accreditations/Certifications

ISO9001

CE approved.



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Redrock Machinery



Employee Numbers  
51-100



## RHI Water Ltd

### What we do

RHI Water Ltd uses innovative rainwater harvesting systems and greywater recycling technology to help agricultural clients generate a sustainable water supply. This significantly reduces mains water usage and its associated costs, providing customers with a measurable payback through the systems. Based in Coleraine, the team designs and supplies a range of high-quality products, including rainwater filters, bespoke control panels, mechanical components and greywater systems.

### Our product range

#### Fully integrated systems

Providing a bespoke set of services, RHI Water Ltd has an in-house design team which creates all of its products, working to each customer's specific requirements and specifications to ensure fully integrated systems. Committed to R&D, the company constantly reinvests in its technology and product offerings, which are used across the commercial, industrial and agricultural sectors. Working throughout the UK and Ireland, RHI Water Ltd is developing a network of global licensees and distributors and will complete projects in Holland and Malaysia in 2018. The company recently signed an agent for Benelux, covering Belgium and the Netherlands.

### Where we work

UK and Ireland, Holland, Malaysia, Belgium, the Netherlands

### Customer service excellence

#### Patented technology

With patented HYDRAPRO® FT (filters) and HYDRAPRO® Smart CPUs (control panels) which can be incorporated into any system, RHI Water Ltd now exports these to large agricultural/ industrial clients. RHI Water Ltd also has product ranges included on the UK Water Technology List and the control panels are CE certified.

### Some examples

Having completed projects at CDE Global's factory in Cookstown, Hillsborough Castle, the MOD base in Scotland and a variety of schools, RHI Water Ltd is now also providing its rainwater filters to largescale commercial clients.

#### Greenmount Agricultural College

Greenmount Agricultural College in Northern Ireland previously benefitted from a bespoke water recycling system which RHI Water Ltd designed to reduce the strain on mains water use within the onsite dairy unit. The team installed a 35,000L rainwater harvesting tank which, along with an existing borehole and recycled cooling water sources, delivered a cost-effective and functional solution. The new system gave priority to rainwater and recycled cooling water, then borehole water, and mains water as a back-up.

#### Tate House Poultry Farm

Other projects include working with Tate House Poultry Farm in Monaghan to develop a bespoke recycling system for rainwater and borehole water, again using mains water as back-up. Following a sterilisation process, additional water was used by the farm for drip-feeding their birds.

#### Belfast's Titanic Building

Meanwhile, at Belfast's Titanic Building, RHI Water Ltd installed filters to harvest rainwater from the 3,000sqm rooftop, which supplements mains water for toilet flushing and provides significant savings.

### Accreditations/Certifications

Rainwater filters are made to the BSH8515 standard.  
HYDRAPRO® Smart CPUs all CE certified.



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RHI Water Ltd

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Employee Numbers  
0-10



## Rockview Engineering Ltd

### What we do

Rockview Engineering has been manufacturing the highest quality bespoke poultry houses since 2011. The company produces both timber and steel-frame structures and continuously introduces new materials and innovations to create longer-lasting, maintenance-free and cost-efficient buildings.

### Our product range

Rockview Engineering offers a wide-ranging service to its clients, from the design phase through construction and beyond. The scope of its work is unique, with an emphasis on making the process as easy as possible for clients, allowing farming or other work to continue with no interruptions.

The company liaises with other contractors at all stages of the process, leaving the complete package ready for mechanical and engineering teams, on schedule and on budget. It can take a green field site right through the construction process, bringing in teams for drainage, concreting and other services, while the timber or steel frame is under manufacture.

Rockview Engineering makes the building process as lean and quick as possible. The market is now moving to the most cost-efficient and maintenance-free buildings, which retain their value over the lifespan of the house.

### Target sectors and target customers

While poultry houses are the major focus for the company, it is capable of constructing any kind of agricultural building, such as sheds or horse facilities. The company is keen to expand its business in these areas in the coming years. It has also constructed industrial buildings.



### Where we work

Ireland, UK

### Customer service excellence

The company's personnel are highly skilled, and include joiners, steel erectors, engineers and quantity surveyors.

Through new designs and working methods Rockview Engineering can complete the largest projects extremely quickly and to a very high standard. The company's sales have grown substantially in every year since it started business, and it is continuously upgrading its service and production facilities. For example, in 2017 it invested heavily in new machinery for manufacturing hygiene panels, which are now the most up-to-date products available on the market.

### Some examples

Rockview Engineering works for the biggest poultry processors in Northern Ireland and the Republic of Ireland, including Moy Park, Ready Eggs, Manor Farms, and Western Brand.

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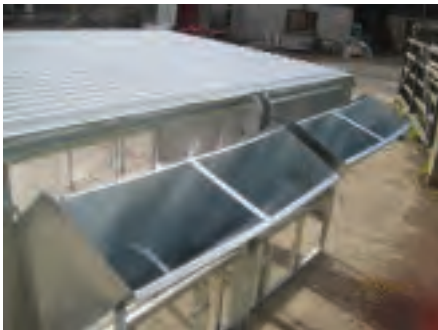
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Employee Numbers  
0 - 10



## S & M Engineering

### What we do

S&M Engineering is a manufacturer of the highest quality, robust, everyday farming products. All of its products are designed and made in Northern Ireland.

### Our product range

The team behind S&M Engineering is made up of experienced farmers, who know how to meet key demands around durability and design. The goal is to produce simple and effective everyday equipment for farmers.

S&M Engineering has successfully placed its products with a range of wholesalers, such as Homeland Stores. The company is keen to expand its business in the wholesale market.

### The company's products include:

- A range of weighbridges designed for lambs, larger sheep and pigs.
- An Electronic Weighing System, simple to set up and easy to use, weighing up to 2,500kg in 0.5 kg intervals.
- A Complete Cattle Crush, enabling caesarian operations, hoof trimming and grooming. Comes prepared with brackets to easily fit electronic weigh-bars.
- Grooming Crate – specifically designed for grooming and clipping show cattle before entering the ring.
- Head Gates and Calving Gates.

S&M Engineering also produces high-quality creep feeders, offering a wide selection for smaller calves to larger calves. These can be purchased either painted or galvanised. The company also produces a range of lamb creep feeders.


The company's range also includes Drop Bar Sheep Hurdles, portable race trailers, and ring feeders. It also offers feeding troughs, including:

- Heavy-duty double trough: a standard 2.4m long and 750mm high.
- Standard double trough: constructed from a 40x40x2.5mm box section and available in both galvanised or painted versions. This trough is 2.4m long and 750mm high.
- Single Cattle Trough - The standard length and height, this version is hot dip galvanized after welding.
- Sheep Trough – This heavy-duty equipment is manufactured from 1.6mm hot-rolled plate and folded in a specific way to provide maximum strength. It is available in either 8ft or 4ft variants.


Other products include 8ft freestanding hayracks, clip-on bucket rings, and calf dehorning crush.

### Where we work

UK, Republic of Ireland and Norway.

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Employee Numbers  
11 – 50



**Selfridge Engineering**

est 1960

## Selfridge Engineering

### What we do

Selfridge Engineering manufactures and supplies quality farm and industrial buildings, working directly with farmers throughout the UK and Ireland.

Selfridge Engineering supplies farm and industrial buildings directly to farmers.

The company also manufactures a range of quality sub-components for farm buildings, distributing these to fellow kit-building suppliers and builders' merchants as well as to farmers themselves.

### Our product range

Selfridge Engineering supplies:

- Structural steel
- Roof and side purlins
- Roof and wall cladding
- Gutters
- Doors
- Bolts and fixings

A family-operated business, Selfridge Engineering has been delivering high-quality and cost-effective solutions to customers within the agricultural and construction industries for the past 50 years, with all production done in-house. This ensures an efficient and reliable set of services, with a quick turnaround guaranteed and products delivered directly onsite for added convenience. All building materials and components are further tailored to suit each customer's individual needs.

### Selfform: High-spec cladding

Selfridge Engineering also roll-forms roof and wall cladding, which is available in corrugated, box profile and mini box form. The cladding can further be supplied with an anti-condensation fleece on the underside, which helps to prevent drips. Ventilated wall cladding is also available in corrugated and box profile options, and is ideal for animal housing and other buildings which require ventilation. Corrugated cladding can be rolled to a specific radius for curved roofed building in new projects and replacement (re-clad) projects.

All of the cladding supplied by Selfridge Engineering is available in a range of high-spec grades and gauges, including Selfarm and Selcom.



### Where we work

Northern Ireland, Republic of Ireland and Scotland.

### Some examples

Selfridge Engineering previously worked with a dairy farmer to create a state-of-the-art milking parlour complete with cubicles, bedding areas, calving pens, handling facilities, office and living space. The products supplied included a kit of structural steel, roof and side purlins and cladding, which converted the large 5,000sqm dairy unit into a much more efficient and effective space for the farmer.

The team supplied another customer with four large units, providing materials to create top-of-the-range beef units along with a silo and grain store in Co Londonderry. Covering an area of 5,500sqm, the units ultimately housed slatted areas, bedded areas, calving pens, feeding areas and handling facilities.

### Accreditations/Certifications

- BSI approved to manufacture structural steel to Execution Class 2 (EXC2).
- CE approved.



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Employee Numbers  
0-10



Revolutionising grass and pasture farming.

# Sixty-5™

Useable farm technology

## Sixty-5 Technologies

### What we do

#### Revolutionising grass and pasture farming.

Sixty-5 Technologies is a company built upon a passion for farming. The founder, John Arrell, reviewed the existing technology available for grass and pasture farmers and went back to the drawing board, building an entirely new software solution from scratch. Why? Because he realised there was a huge need to create agri-tech that is easy to use, intuitive and reliable. Sixty-5's early success came from word-of-mouth, and now it's being used across the world.

Sixty-5 Technologies helps farmers to better manage their land and more easily collect treatment data. The higher the quality of data that farmers can access, the more informed the decisions they make.

### Our product range

Grass-Guide is a simple-to-use tractor GPS solution. The product's components integrate easily with the vehicle and digitise completed jobs such as fertiliser spreading, spraying, effluent and forage. Grass-Guide users see dramatic savings in fertiliser, fuel and their own time. They also have a record of what has been sprayed, stored in Grass-Guide's cloud-based data portal. This is important for compliance and increasingly traceability - which is becoming a bigger issue for food processors. Users of Grass-Guide typically see a return on their investment in the first year.

Features of Grass-Guide include:

- Quick and simple set-up on the tractor
- Quality, market-leading hardware with a 1 year guarantee
- Samsung tablet interface with bluetooth connection to the GPS
- Recording of treatment data for proof of placement
- Ongoing app updates and feature enhancements
- One-touch button operation, for ease of use while driving
- Access to dedicated cloud farm management portal Grass-Guide Online that stores job data for traceability records and field management
- Saves fertiliser, fuel and time



### Where we work

#### Northern Ireland and New Zealand.

Based in Northern Ireland, Sixty-5's software is currently built out for English language markets and the firm has customers across the world. Grass-Guide's biggest market is New Zealand, where Sixty-5 has been working with the country's largest farmer-owned co-operative, Farmlands.

Sixty-5 reaches the market through direct sales to end-users, and by leveraging resellers and distributors. Sixty-5 is also keen to cultivate relationships with OEM's (original equipment manufacturers).

### Customer service excellence

Sixty-5 is in a unique position as the only software company focused on giving grassland farmers an accurate measurement of what is going into the ground. The company also aims to future-proof agricultural businesses, such as smart food producers who are becoming increasingly interested in full traceability. It's a consumer trend that is not going to go away.

### R&D expertise

As a forward thinking company, Sixty-5 is constantly innovating. Currently the firm is in the middle of validating the potential of a new product which will take advantage of machine learning and artificial intelligence to fill a void in pasture management.

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Employee Numbers  
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Slurry handling equipment without limits.



## SlurryKat

### What we do

SlurryKat is a leading manufacturer of slurry tankers, umbilical slurry systems and farm trailers and has more than 20 years' experience working within the agricultural sector.

### Our product range

Recognising a need for innovative equipment which boosted productivity for farmers, while also complying with the new EU 2007 Nitrates Directive, the company invested heavily in developing and testing new equipment. With CEO and owner Garth Cairns a qualified engineer and agricultural contractor, and with a team of highly skilled technicians and engineers on-site, the result is equipment which is robust, reliable and technically excellent.

Built to last and easy to use, SlurryKat's tankers, trailers and other agricultural equipment is at the forefront of innovation, manufactured using the very latest cutting-edge engineering techniques and systems. SlurryKat manufactures and supplies:

- Dribble bar applicators
- Trailing shoe injectors
- Aerators
- GPS and flow meters
- DODA pumps
- Hose reeling systems
- Oroflex layflat hoses
- SlurryKat stainless steel couplings
- Hose crossing ramps
- Agitators
- Tankers
- Mobile nurse tanks
- Trailers
- Shear grabs and block cutters
- Sweeping brushes
- Anaerobic Digestion
- Screw Press Separators
- Dewatering systems
- Biogas mixing systems
- Underground PVC pipeline

### Where we work

UK, Ireland, Norway, Europe, Russia, USA, Canada, Australia and developing new international markets.

Having expanded their premises in recent years, SlurryKat works from a modern facility, complete with state-of-the-art IT and operational systems. This enables the company to export more than 150 products to over 20 different countries, including Ireland, Norway, Europe, Russia, USA, Canada and Australia. SlurryKat is also actively developing new international markets and seeking new partner relationships across the globe.



### Customer service excellence

#### Engineering excellence

With a number of awards for innovation, reliability and excellence, SlurryKat is committed to developing a solutions-focused approach for its customers. These include farmers with significant slurry volumes (and large herds), as well as contractors working for these larger farm operators, and agri-machinery dealers.

All equipment is extensively tested by a team of professional agricultural contractors at the company's research and development unit. The team also works closely with a variety of agri-science institutions, developing products which will maximise grass production and deliver the very best results for farmers.

Each member of the SlurryKat team also has a farming background, so customers can be assured they have first-hand knowledge and experience of the industry and an understanding of the challenges farmers face.



### Accreditations/Certifications

- CE approved
- Carries all HSE approvals

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Slurry Kat



SlurryKat



Livestock housing specialists



## Teemore Engineering Ltd

### What we do

Teemore Engineering Ltd designs and supplies high-quality livestock housing and handling equipment, including gates, cubicles, mats/mattresses, drinkers, feeders and calf equipment. They also supply various crushing and handling systems, as well as producing products for sheep, goats and horses, and for the industrial sector.

### Our product range

- Cow cubicles
- Mattresses
- Mats
- Slat rubber
- Head-locking yokes
- Feeding gates
- Dividing gates and barriers



### Where we work

**UK, Ireland, Finland, Sweden, Denmark, Norway.** Primarily operating in the UK and ROI, Teemore Engineering has developed a professional network of agents which allow the company to easily do business with clients across these regions. It also has two distribution yards in mainland UK and is working on expanding sales across Europe,

currently exporting to Finland, Sweden, Denmark and Norway.

### Customer service excellence

Working within the agri-engineering sector for more than 40 years, Teemore Engineering has built up a reputation for quality. Indeed, as well as manufacturing its own products, the company is also sole distributor for the world-leading Jourdain tubular products. It further distributes Bioret Mattress and Flooring Systems, Agri-Plastics calf hutches, Richel Storage Tunnels and EasyFix rubber products.

With clients including dealerships and large farms, all of Teemore Engineering's dedicated salesmen hail from farming backgrounds and are highly trained, so customers can always expect expert solutions and advice. Committed to innovation, the company is also involved with R&D into crushing equipment and in developing lairages for large buildings.

### Storage facilities

A recent investment further saw Teemore Engineering create a new state-of-the-art factory and office complex, increasing the factory floor and display area and upgrading storage capacity to ensure even greater flexibility. As a result, the company is now even better equipped to meet customers' needs and can handle large

manufacturing projects – with cow cubicle projects ranging from 25 – 2,500 cubicles at any one site.

### Some examples

Teemore Engineering supplied dairy farmer, Dale Byre, from Ballinamallard with cubicles, mattresses and calving gates, as well as 15 hutches and three group hutches, which could house up to five calves. The farm was experiencing problems in housing its herd over the winter and wanted to improve its calf-rearing process following outbreaks of scour and pneumonia, which was expensive to treat and harmful to the animals.

After investing in the products, the farm was able to stop vaccinating against scour, which reduced costs, and indeed saw no further outbreaks of the disease. Dale added that: "The calves have never looked better and at weaning they are bigger and are stronger than ever before. This has totally transformed our rearing and I am delighted."

Worcester dairy farm, RF Goodwin & Son, benefitted from a new housing facility to accommodate its expanding herd of 280 Holstein cows. Having previously been impressed by the quality of Teemore Engineering's products, the farm invested in two new buildings - one for cow housing and feeding, the other for milking, handling segregation and calving.

Products purchased included 250 Teemore deluxe cubicles with zig-zag neck rails, Optima mattresses and poly pillows, Teemore fast-empty stainless steel drinkers and Jourdain safety IV headlocks. The handling facility was also designed by the Teemore team, with sheeted doors and bungee gates also provided, creating a hassle-free set-up which the farmer was very happy with.

### Accreditations/Certifications

Products are all farm grant-approved.

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Teemore Engineering

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Employee Numbers  
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## TGM Software Solutions

### What we do

TGM Software Solutions is a leading provider of agricultural software and electronic tag reading hardware.

### Our product range

The company specialises in designing systems for specific needs and uses, helping customers to improve the performance of their farming enterprise, through custom-designed software, and through the development of unique systems which link hardware and software in the agricultural industry.

As well as owning the 'Select Sheepware' solution, we are also the distributor for Kingswood Software in Northern Ireland.

Key attributes of TGM Software Solutions:

- TGM Software Solutions is not tied to any one hardware product; as a result, we can provide the most appropriate solution tailored to customers' specific requirements
- The software is unique and the team's response to requests from customers for development is rapid
- Clients benefit from improvements in flock performance, as a result of better decision making creating 'bottom line' improvements for farmers including return on investment in the technology
- All hardware is accredited as required

The company continues to develop specialised solutions for flocks of both sheep and goats; new functions have been added to help record milk production for dairy goats and sheep. Also, the software can provide recording solutions for flocks based on meat production, wool production and/or dairy milk production.

### Select Sheepware

'Select Sheepware' software is owned by TGM Software Solutions Ltd. This software allows breeders to individually record sheep, as well as link lambs to ewes and rams, for analysis of performance. It records weighings, weanings, medical treatments, pregnancy diagnosis etc.

The Select Sheepware solution is also used for 'Flock register recording' purposes – i.e., movements on and off the farm, as well as Pedigree records.



The Pocket Edition is compatible with Android, Windows Mobile, and Windows CE. The Windows Mobile and CE options allow the Pocket Edition to run on the Motorola 'Workabout Pro' handheld devices, with Agrident EID reader fitted.

Select Sheepware is used both on EID (electronically identified) and non-EID tagged flocks ranging in size from 40 to over 30,000.



### Where we work

Select Sheepware is now used in all of the following markets around the world:

- UK and Ireland
- North America
- Middle East
- Australia
- New Zealand
- Europe

### Target sectors and target customers

Our hardware and software is used, globally, by sheep farmers/managers of sheep flocks, as well as by those who provide complementary products, such as weighing equipment.

### Some examples

TGM Software has worked with many organisations around the world, providing high-end custom solutions for their members. These organisations include TEAGASC (The Agriculture and Food Development Authority in Ireland) and the Estonian Sheep Breeders Association. TGM Software has worked with Agrident GmbH in Germany to provide software which is available worldwide to all users of the Agrident EID Stick readers for sheep.

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TGM Software



TGM Software Solutions Ltd



Employee Numbers  
0 - 10



## Turkington Livestock Ltd

### What we do

Turkington Livestock Systems Ltd. is one of the United Kingdom and Ireland's leading suppliers of poultry housing. In business since 1963, our knowledge of the poultry industry has allowed us to create innovative designs, using the highest-quality building materials and a skilled workforce.

Innovation, quality, customer service and value for money are the core values on which our company has been built.

### Our product range

Steel portal framed and timber-framed poultry houses for all sectors of the poultry industry.

All our houses use latest composite panel designs and construction methods to produce highly energy efficient buildings.

A bespoke design service to accommodate specific customer requirements.

### Target sectors and target customers

#### The Poultry Industry

- Broilers
- Breeders
- Pullets
- Layers

#### Target customers

- Poultry processors
- Egg Suppliers
- Farmers in all poultry sectors

### Where we work

We currently supply to both UK and Ireland but are actively targeting poultry housing projects in Northern Europe. We have formed strategic partnerships with companies in Oman and Qatar and are currently targeting other such partnerships in other Middle East countries.



### Customer service excellence

#### Industry Leaders

Our knowledge and experience in designing and constructing both timber-framed and steel portal framed poultry buildings is unequalled in GB and Ireland - countries which boast some of the most advanced animal welfare and energy efficient practises in the world.

All our poultry housing products are designed with a specific focus on energy efficiency and biosecurity/hygiene. Our houses offer an extremely high level of insulation, and all internal fabrics are designed to minimise bacteria and withstand the most stringent cleaning materials and procedures.

We invest heavily in product enhancement and cost-reducing design; this results in an extremely high-quality product which offers the end user excellent value for money and return on investment.

### Some examples

#### Moy Park Ltd.

Moy Park is a leading provider of fresh, locally farmed poultry in the UK and Ireland and is recognised as one of the largest producers of organic, free range and corn-fed poultry in Europe. We have been working in partnership with Moy Park for over 40 years, providing approximately 70% of their housing requirements in Ireland.

We are also a preferred supplier to many other leading UK and Ireland poultry processing/egg producing companies including 2 Sisters, Moy Park, Aviagen, Cobb-Vantress, Noble Foods, Avara Foods, Skea Eggs, Manor Farm, Western Brand, Shannonvale Poultry, Farmlay Eggs, and Ballygarvey Eggs.

### R&D expertise

Turkington Livestock Systems have an in-house design team, and their head designer has been with the company for over 40 years.

The company was the first to bring steel houses to the poultry industry and was first to introduce windows into poultry house to enhance bird welfare.

The "maintenance free" GRP composite panel house has revolutionised the timber frame market for poultry housing.

The recently introduced its new 'Hyper-Therm' house - has been acknowledged by independent energy consultants as the most energy-efficient house available on the market.

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Employee Numbers  
11-50



## Ulster University Agri-Food Business Development Centre

### What we do

The Agri-Food Business Development Centre (AFBDC) at Ulster University Business School supports Northern Ireland's agri-food industry through the promotion of teaching and research in agricultural business. The Centre engages with industry and policymakers to help improve the competitive position of the Northern Irish agri-food industry, providing research that supports the work of government departments and other key industry stakeholders.

### Our product range

Ulster University is a multi-campus university operating across Northern Ireland in Belfast, Jordanstown, Coleraine and Magee. The Agri-Food Business Development Centre (AFBDC) was launched in May 2017 and offers specialist teaching on many aspects of the agri-food business. The Centre's objectives are to:

- 1) Provide specialist courses to support skill development in agri-food business
- 2) Provide industry-focused research and innovation to support local agri-food businesses



### Where we work

Ireland and UK

### Target sectors and target customers

Course opportunities are available for employees within the agri-food industry wishing to upskill and/or graduates wishing to specialise in agri-food. The Centre provides graduates with relevant sector-specific training and helps to upskill the existing workforce to develop the necessary skills and knowledge base to support business development. Industry courses are currently being developed include:



- Exporting Marketing
- Hedging Risk
- Digital marketing
- Agri-Food Global Competitiveness

### Customer service excellence

#### Facilities

The Centre hosts a number of facilities to assist the industry with research and development. These include:

- Food and Consumer Testing Suite (FACTS): Supports businesses by offering the opportunity to create, develop, refine and improve food and drink products. FACTS is a member of the Sensory Food Network Ireland and has state-of-the-art facilities including sensory testing booths and development kitchens.
- CME Group Foundation Financial Innovation Lab: Through use of the Bloomberg software, this Lab provides students with hands-on experience of a dynamic trading environment comparable to an investment bank.
- Academy Restaurant: Provides a live working environment for hospitality and culinary students, in both the culinary and hospitality management sectors.

### Some examples

#### Food retail promotions in Ireland (SafeFood):

A study to assess the healthiness of food promotions across retailers operating in the Republic of Ireland

#### Tesco Clubcard data, Department of the Economy – Ulster University Business School, Queens University Belfast and the University of Kent have been working for a number of years on giving small agri-food producers access to sophisticated market data on consumer purchasing behaviour gathered by Dunhumby, the power behind Tesco's loyalty card programme.

### R&D expertise

Work at the centre focuses on the following areas:

- Management and entrepreneurship
- Exporting and trading
- Food sensory innovation and consumer testing
- Digital marketing
- Food tourism
- Food poverty
- Food supply chain management

The centre works with industry on a range of funded projects, including Innovation Vouchers, Knowledge Transfer Programmes, Connected Funding and Interreg projects.

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Employee Numbers  
0 - 10



Delivering innovative management software based on the needs of the poultry integrator and egg packer



## Unitas Software

### What we do

Unitas delivers the most comprehensive cloud based poultry software package in the world, currently connecting over 1000 farms globally.

Unitas has been creating innovative software solutions for the egg and poultry industry since 1999. Its unique cloud based solution improves flock yield, reduces administration time and completely automates manual data processing steps. It allows everyone in the supply chain to be connected; from vets, farms and hatcheries, right through to egg packing stations or factory kill planning.

### Our product range

The biggest names in the poultry sector globally work with the company because Unitas Software has a deep understanding of the process flows within the sector. Unitas Poultry Manager lets

everyone view results easily; this helps its clients measure progress and makes informed business decisions. Simply put, the solution that Unitas offers saves time and money.

#### The software enables:

- Improved flock yield
- Customer retention by providing value added service
- A reduction in ad-hoc orders, therefore reducing administration time
- Automatic scheduling, thus increasing employee productivity
- Optimised load & delivery scheduling
- Smooth order and delivery processes
- Delivery forecasting from bird placement
- Better forecasting to reduce down time in the feed mill
- A simplified estimate of future demand, enabling our clients to plan
- Improved traceability on the farm instilling more confidence in the end product



### Where we work

Unitas currently has clients in the USA, Canada, United Kingdom, and Europe and is rolling out further installations in these markets. The focus of Unitas is building long-term, mutually beneficial relationships with its customers on a global scale.

Unitas' clients include egg packers, poultry meat integrators and the poultry feed mill sector globally.

### Some examples

- Unitas Software is a strategic software development partner to one of the world's largest organic consumer brands with 2,000 farmers across Canada, Australia, the United Kingdom and the United States. This company markets its products in all 50 U.S. states and exports to 25 countries. Unitas supplies the egg division with integrated flock management and egg forecasting software across their farming base.
- Unitas Software is a strategic development partner with a global organisation operating in 70 countries, reaching 5 million farmers and 1 in 5 chicks globally. Unitas provides feed programming and farm performance software to automate and streamline operations.
- Unitas provides major egg packers supplying the retail sector in Ireland and United Kingdom with flock management and farm payments solutions.

### R&D expertise

The innovative software solutions delivered by Unitas drive the performance and profitability of its customers' business. Clients typically see a return on investment within the first year.

The company constantly invests in research and development, to give its clients the competitive edge.

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Employee Numbers  
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UPU Industries, a world leader in crop packaging and pallet netting providing innovative solutions for customers worldwide

## UPU Industries

### What we do

UPU Industries is a world leader in crop packaging and pallet netting. An independent privately-run business with family values, it has over 40 years' experience in manufacturing silage net wrap and pallet netting. Around the globe, the company has gained a reputation for the production of high quality products. A sister company based in Junction City Kansas serves the North America market.

### Our product range

#### Constantly Innovating

As the only indigenous manufacturer of net wrap in Ireland and the UK and with product innovation at the forefront of the company, UPU Industries has developed its Farmer's range of high quality net wrap – Colorbale, Probale and E2E. Each has been designed to deliver high quality solutions for the requirements of its customers.

The firm's range of net wrap products are complemented by a portfolio of High Strength Baler Twine and Silage Wrap for maximum crop conservation.

UPU Industries has further developed pallet netting for industrial use. Reflectornet is the registered brand for this premium stretch net. Each product has been specifically designed and engineered to respond to the widest range of packaging solutions in this sector.

The firm's focus is firmly on listening to the needs and requirements of the customer and scrutinizing market trends. Its ability to provide innovative solutions and product development has been a major contributory factor to its success, especially over the last few years with a significant increase in its global reach.



### Where we work

UPU Industries exports to over 32 countries, more recently adding South America, France, and Canada to its portfolio of customers and business partners.

### Customer service excellence

UPU Industries prides itself on its core values of Quality, Customer Service, Performance, Strategic Innovation, Product Development and Investment. With state of the art machinery in our modern manufacturing facility the company is committed to long term competitiveness and sustainability.

### Some examples

- The development of Colorbale, to meet market requirements for an over-the-edge net wrap that binds and holds the bale strongly, offering enhanced protection from the elements. The product has been successfully launched in the US and Australian markets.
- Innovative design and rollout of ReflectorNet stretch pallet netting; this product is now established as a worldwide market leader in netting for this sector.

### R&D expertise

UPU Industries responds to its customers' needs in an efficient and expedient manner. Significant investment in a state of the art engineering facility and a highly skilled production team enables the company to engage in the implementation and product development for the individual customer's requirements with minimum down time.

### Accreditations/Certifications

- UPU Industries has received from Her Majesty, Queen Elizabeth II, The Queen's Award for Enterprise on two occasions.
- ISO14001: Environmental Management System.
- OSHA18001: Occupational Health & Safety.



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UPU Industries Ltd



Employee Numbers  
51 – 100



# WALTER WATSON

## Walter Watson

### What we do

Walter Watson has been manufacturing agricultural equipment since commencing trading in 1967. The company continues to develop and expand its range of products using the latest design and manufacturing techniques and has a reputation for making heavy duty long lasting products.

Walter Watson operates from a 21-acre site which includes 25,500 m<sup>2</sup> of covered manufacturing and storage facilities.

### Our product range

The company manufactures a range of:

#### Rollers

- Cambridge rollers
- Hydraulically operated water ballast land rollers
- Tandem rollers
- Compact rollers

#### Feeding Equipment

- Feeding Trailers complete with diagonal / tombstone feed rails
- Sheep / young stock feeding trailers
- Silage Bunker Feeders
- Bull beef / calf creep feeders
- Stock / Bale Transporters
- Tipping Transport Boxes

#### Designed for Endurance

Walter Watson are one of the most experienced and well-known roller manufacturers in the UK for over 40 years. We are renowned for high-quality design and production of machines that are not only well constructed, but one of the heaviest on the market.

Walter Watson Cambridge rollers also offer these unique features and benefits to customers:

#### Heavy Duty Design

Built from 8mm & 10mm heavy gauge hollow section to withstand constant hard work.

#### Centre Pivot Sections

All 3 sections pivot independently from a centre point giving maximum flotation & even consolidation across the full working width.

#### Heavy Duty Axles & Bearings

All Watson Cambridge rollers use high grade 65mm (EN16T) axles running in a large triple seal self-aligning steel bearing.

#### Choice of Rings

All models are available with a choice of either Ductile or Cast-iron heavy duty 560mm (22") and 610mm (24") 4 spoke rings with two-piece breaker ring & spacer option.

#### Ease Of Routine Maintenance

Oversized pivot pins and greasable bushes are used at every pivot point, with all rams in closed position for transport & storage.

#### Safe Transport

All Watson rollers come standard with hydraulic brakes, LED Lights and 400 x 60 x 15.5 Flotation Wheels.

### Where we work

Walter Watson supply products to the following markets through an extensive dealer network:

- Ireland
- UK
- Europe
- New Zealand
- Australia
- Far East


### Some examples

Walter Watson recently supplied 12 triple gang rollers to a 10,000 head dairy cattle farm in Saudi Arabia. The farm manager was visiting Northern Ireland and had been impressed with the quality and durability of the machines. He then ordered the machines for immediate delivery and Walter Watson have since supplied additional machinery to this market as a result.

### Accreditations/Certifications

CE Approved



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Employee Numbers  
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**WATERTECHNIK**  
engineered wastewater solutions



## Water Teknik

### What we do

Water Teknik offer a range of effluent and sludge treatment equipment and treatment services that help remove the contaminants present in trade effluent. It means wastewater will always surpass required environmental standards and is compliant with the law.

The systems are cost effective; they are low energy consumption, plus they can help you improve your current treatment process to reduce operational overheads.

### Our product range

#### Dissolved Air Flotation

Water Teknik DAF (dissolved air flotation) systems are designed for high efficiency removal and ease of operation. Crucially they are simple to use and easy to maintain.

- DAF systems are an open tank design; there are no internal lamella structures, which means they won't clog up with heavy fat contaminants.
- White water is produced using an innovative venturi white water system, no requirement for external compressed air supply.
- Open top chemical reaction tanks are used instead of flocculation pipes. This leaves chemical adjustment much simpler for operators, you can see what chemical reactions are occurring.

#### Disc Screw press

- Recover 50% to 95% of your Operational Expenditure associated with sludge disposal
- Reduce tanker visits by up to tenfold
- Significantly reduce your treatment plant's Carbon footprint

### Where we work

Water Teknik has completed projects in Great Britain and the Republic of Ireland. Water Teknik are actively seeking distributors for a range of proprietary advanced effluent treatment products and systems.

#### Target sectors and target customers

- Food and Drink Manufacturers
- Waste-water Plants
- Anaerobic Digesting Plants
- Recycling Plants
- Oil and Gas Plants

### Customer service excellence

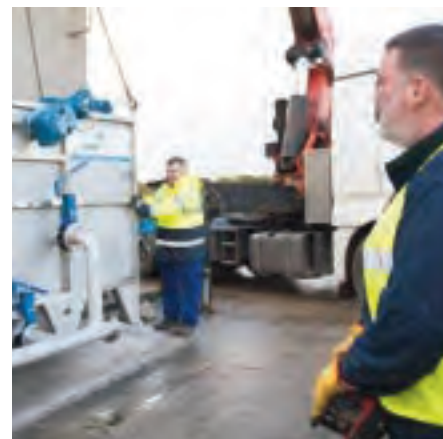
The company excels in the design, manufacture, installation and maintenance of innovative industrial effluent and waste water treatment systems. This is reflected in its highly skilled staff. The team at Water Teknik is made up of



mechanical and electrical design engineers, stainless steel fabricators, electricians, control panel builders and PLC programmers. It has the capacity to design and install a project to each individual customer's need; this makes the company extremely flexible and fast when it comes to responding to even the most demanding specifications. It also means limited time on site and less disruption to client's businesses.

### Some examples

- Water Teknik works for a range of customers across various sectors, including large public bodies, highlighting how reliable and durable its systems are:
- 98% reduction in fats, oils and grease for a large ice-cream manufacturer in Northern Ireland, following installation of Water Teknik's turnkey solution.
  - Water Teknik retrofitted their own innovative white-water system onto an existing DAF system at one of Northern Ireland's largest food producers. This combined with a chemical dosing review, lowered chemical costs by 49% and dramatically boosted reliability.



### Accreditations/Certifications

All equipment CE Approved  
ISO 90001, 14001 and 18001 UKAS accredited.  
Manufacturing Excellence Award - Armagh, Banbridge and Craigavon Borough Council.

Carrickbracken Business Park  
121 Camlough Road  
Newry  
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0 – 10



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Water Teknik Ltd



## Wilson Agri

### What we do

Wilson Agri specialises in designing, manufacturing and supplying products for the inside of farm buildings, such as cow mattresses, cubicles, passageway rubber, tip-over water drinkers, lights and ventilation curtains. All of these ensure that the cow has a clean, dry, comfortable bed, with fresh water and air, as well as reduced pressure on the hooves when turning at the feed barrier.

### Our product range

#### Cowcoon

The Cowcoon hybrid stall is a recent product designed and manufactured by Wilson Agri. A polyethylene tube on the lower body of the stall partition guides the cow, offering ductile support to her body, thus hugging the cow and ensuring that she rests securely, comfortably and without the risk of bruising or swelling commonly associated with all steel partitions.

#### Pasture Mat Deep

Wilson Agri also supplies the pioneering Pasture Mat Deep System. This provides advantages similar to deep-bedded sand stalls, without the associated challenges. Test results using pressure-point body mapping reveal that the Pasture Mat Deep System forms to the cow, relieving all pressure points while virtually eliminating hock sores.

Wilson Agri's extensive in-barn studies have proven the Pasture Mat Deep System results in cows lying longer and shifting or moving less, making them more productive. Thanks to its unique dual layered formula, the Pasture Mat Deep System will make a huge saving on both bedding materials and labour, whilst increasing cow longevity and milk yield; ensuring an excellent return on investment for Wilson Agri customers.

### Where we work

Wilson Agri supplies products through a network of distributors and direct to customers in Ireland, the UK, Europe, Scandinavia, U.S.A, Canada and Africa.



### Some examples

Wilson Agri was approached to assist a Zambia-based customer with the design and overall planning for the layout of cubicles and passageways in a major farm building. The company assisted the farmer with the shipping of 400+ Wilson Agri C50 Cubicles to Zambia. The customer was then able to use the comprehensive instructions on the Wilson Agri website to self-install these cubicles. The customer has since been in touch to order additional cow care products.

Wilson Agri was contacted by a customer in Sweden who was building a 400 cow dairy barn. The customer had seen the Wilson Agri website and the details of some installations the company had completed in the UK, and was so impressed that he made a trip to Northern Ireland to see them first-hand. Wilson Agri provided the customer with a tour of a number of the installations and he contracted the company to complete an installation at his premises. He has since asked the company to fly to Sweden and advise him on the fit-out of additional cow-housing facilities.

### R&D expertise

Wilson Agri is at the forefront of developing new technology for the agriculture market, particularly to improve cow welfare. The company has a dedicated design team, which is committed to bringing new, innovative products to the market.



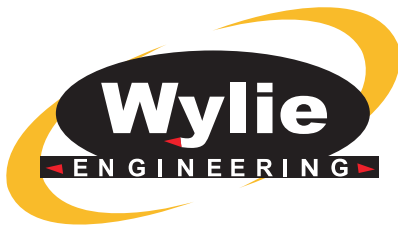
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Employee Numbers  
 11 - 50





## Wylie Engineering

### What we do

Wylie Engineering is an award-winning business focused on the design and manufacture of high quality agricultural and industrial machinery.

The family business, established in 1977 offers the following products to the livestock farming industry:

- Silage Grabs
- Shear Grabs
- Auto Shear Grab
- Push-Off Buckrakes
- Grass Toppers

### Our product range

#### Customer-Driven Product Range

The company is consistently striving to add to, and improve on, our existing product range. Ongoing market communication, feedback, and customer requests has allowed Wylie Engineering to adapt products that produce exceptional results for our customers.

All our products are well-known for their durability and lifespan and this is reflected in the number of return customers, customer referrals, and client testimonials.

#### Product Focus – Auto-Shear Bucket

The new “Auto-shear bucket” is based on the highly successful Wylie shear grab - with the added benefit of being able to handle fine cereal, as well as powder or granule type materials.

In today’s farming practice, added fine materials are increasingly recognised as advantageous to feed dairy and beef animals. However, where under normal conditions the farmer requires a shear grab to cut silage, as well as a separate bucket to handle loose material, the Wylie “Auto-shear bucket” can seamlessly handle both operations.

#### Benefits of the Auto-Shear Bucket

- Enables the farmer to work more efficiently, lowering operational costs
- The operator never has to leave the tractor cab to change from shear grab to bucket
- It grabs silage as efficiently as a conventional shear grab
- It collects, transports, and deposits concentrate (e.g cereal)
- It is highly efficient at transporting fine blow-away ground material
- High-side walls improve carrying capacity
- Simple design includes a single hydraulic circuit with no extra hydraulic requirement



### Where we work

Wylie Engineering has clients across the UK, Ireland and Europe with products sold through a network of dealers in these markets.

### Some examples

“The Auto shear bucket is an excellent and efficient way of loading a diet feeder. Not only can you measure the amount of meal you are using but it saves time also.”

**Robert Boston** – Aberdeenshire, Scotland

“Since purchasing the Auto Shear Bucket it saves me time and effort allowing me to focus my attention on other duties.”

**Gordon Fulton** – Omagh, Northern Ireland

### Accreditations/Certifications

#### Focus on Innovation

Wylie Engineering’s dedication to innovation, excellence, and quality is reflected in the numerous awards we have received over the years.

Products such as the heavy-duty flail, rotor grass toppers, and auto shear bucket, have helped us win a total of 14 awards for innovation since 1989 at leading agricultural shows, including:

- Royal Highland Show, Scotland
- Smithfield Show, England
- Agromek, Denmark
- Balmoral Show, Northern Ireland

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Employee Numbers  
0 – 10

# Company Matrix

|  | Animal Health/<br>Animal Nutrition | Equipment<br>Manufacture | Farm Machinery | Research | Food safety | Service, systems<br>& solutions | Animal Housing | Other   |
|--|------------------------------------|--------------------------|----------------|----------|-------------|---------------------------------|----------------|---|
| AFBI                                       | ●                                  |                          |                | ●        |             |                                 |                |   |
| Agquip Ltd                                 |                                    |                          | ●              |          |             |                                 |                |   |
| Agri Web Ltd                               |                                    | ●                        |                |          |             |                                 |                | Food production, packing, and processing sector                       |
| Agri-Food QUEST                            |                                    |                          |                | ●        |             |                                 |                |   |
| AJ Power                                   |                                    | ●                        |                |          |             |                                 |                |   |
| Ashdale Engineering Ltd                    |                                    |                          |                |          |             | ●                               |                |   |
| Axon Power & Control Ltd                   |                                    |                          |                |          |             | ●                               |                | Electrical engineering  |
| Biddy Attachments                          |                                    |                          | ●              |          |             |                                 |                |   |
| Biopanda Reagents Ltd                      | ●                                  |                          |                |          | ●           |                                 |                |   |
| Blaney Agri Solutions                      |                                    |                          | ●              |          |             |                                 |                |   |
| Boyd Bedding                               | ●                                  |                          |                |          |             |                                 |                | Equine industry   |
| CDEnviro Limited                           |                                    | ●                        |                |          |             |                                 |                | Environmental safety  |
| Crossland Tankers                          |                                    | ●                        |                |          |             |                                 |                | Dairy industry, food industry   |
| Cunningham Covers                          |                                    | ●                        |                |          |             |                                 |                | Textile covers for for veterinary, trailer, machinery and slurry pits |
| Devenish Nutrition                         | ●                                  |                          |                |          |             |                                 |                |   |
| Edge Innovate                              |                                    | ●                        |                |          |             |                                 |                | Machinery   |
| ElectroMech Agri Limited                   |                                    |                          |                |          |             | ●                               |                | Dairy industry  |
| Erth Engineering                           |                                    | ●                        |                |          |             |                                 |                | Arable and grass industry   |
| Farm Wizard                                | ●                                  |                          |                |          | ●           |                                 |                | Livestock and food supply chain management                            |
| FarmVet Systems                            | ●                                  |                          |                |          |             |                                 |                | Veterinary app  |
| FG Wilson                                  |                                    | ●                        |                |          |             |                                 |                | Power generators  |
| Finrone Systems                            |                                    |                          |                |          |             |                                 | ●              | Pig industry, slurry solutions  |
| Fleming Agriculture                        |                                    |                          | ●              |          |             |                                 |                |   |
| Foodovation at North West Regional College |                                    |                          |                | ●        | ●           |                                 |                | Innovation and training   |
| FSL Electronics Ltd                        |                                    |                          |                |          |             | ●                               |                | Electronics   |
| Giltspur Scientific                        | ●                                  |                          |                |          |             |                                 |                | Hoof care   |
| Gradeall International                     |                                    |                          | ●              |          |             |                                 |                | Balers and compactors   |
| GSF Livestock Systems Ltd.                 | ●                                  | ●                        |                |          |             |                                 |                | Cattle handling   |
| Herbst Machinery                           |                                    |                          | ●              |          |             |                                 |                |   |
| Herron Engineering                         |                                    |                          | ●              |          |             |                                 |                | Trailers  |
| Hill Engineering                           |                                    | ●                        |                |          |             |                                 |                | Construction, quarrying, mining industries                            |
| Hutchinson Engineering                     |                                    |                          |                |          |             | ●                               |                | Engineering subcontract   |
| Innotech at South West College             |                                    |                          |                | ●        |             |                                 |                | Development and innovation  |
| JPM Trailers Ltd                           |                                    |                          | ●              |          |             |                                 |                | Trailers  |
| Kingspan                                   |                                    | ●                        |                |          |             |                                 |                | Energy and water storage  |
| Linnodee Diagnostics                       | ●                                  |                          |                |          |             |                                 |                | Medical/Diagnostics   |
| Liveryman                                  | ●                                  |                          |                |          |             |                                 |                | Grooming for horses, cattle and small animals                         |
| Maxwell Concrete                           | ●                                  |                          |                |          |             |                                 |                | Precast concrete products for the agriculture sector                  |

|  | Animal Health/<br>Animal Nutrition | Equipment<br>Manufacture | Farm Machinery | Research | Food safety | Service, systems<br>& solutions | Animal Housing | Other  |
|--|------------------------------------|--------------------------|----------------|----------|-------------|---------------------------------|----------------|--|
| McCauley Trailers  |                                    |                          | ●              |          |             |                                 |                |  |
| MCM Sheds Limited  |                                    |                          | ●              |          |             |                                 |                |  |
| Moore Concrete   |                                    |                          |                |          |             |                                 | ●              | Precast concrete products for the agriculture sector |
| Moore Unidrill Limited                                       |                                    |                          | ●              |          |             |                                 |                | Sports Turf equipment                                |
| Motion Control Systems Ltd                                   |                                    |                          |                |          |             | ●                               |                |  |
| Moyfab Engineering Ltd                                       |                                    | ●                        |                |          |             |                                 |                |  |
| Muldoon  |                                    |                          | ●              |          |             |                                 |                | Bulk Feed transport/delivery equipment               |
| NC Engineering   |                                    |                          | ●              |          |             |                                 |                |  |
| Norbrook Laboratories  | ●                                  |                          |                |          |             |                                 |                | Pharmaceuticals                                      |
| Northern Engineering Ltd                                     | ●                                  |                          | ●              |          |             |                                 |                | Animal Safety  |
| Northern Hydraulics Ltd                                      |                                    |                          | ●              |          |             |                                 |                | Hydraulic cylinders                                  |
| Nugent Engineering   |                                    |                          | ●              |          |             |                                 |                | Livestock, commercial and bespoke trailers           |
| OBE Waste & Agri Engineering Ltd                             |                                    | ●                        |                |          |             |                                 |                | Trailers, slurry storage                             |
| Orby Engineering Limited                                     |                                    |                          | ●              |          |             |                                 |                |  |
| Predator Trailers Limited                                    |                                    | ●                        | ●              |          |             |                                 |                | Plant  |
| Prefab Engineering Ltd                                       |                                    |                          | ●              |          |             |                                 |                |  |
| Provita Eurotech Ltd   | ●                                  |                          |                |          |             |                                 |                |  |
| Quad X Ltd   |                                    |                          | ●              |          |             |                                 |                | Agricultural and groundscape                         |
| Queens University Belfast Institute for Global Food Security |                                    |                          |                | ●        |             |                                 |                |  |
| Ramko Hydraulic Cyclinders                                   |                                    | ●                        |                |          |             |                                 |                |  |
| Randex Food Diagnostics                                      | ●                                  |                          |                | ●        | ●           |                                 |                |  |
| Redrock Machinery Ltd  |                                    |                          | ●              |          |             |                                 |                |  |
| RHI Water Ltd  |                                    | ●                        |                |          |             |                                 |                |  |
| Rockview Engineering Ltd                                     |                                    |                          |                |          |             |                                 | ●              | Poultry industry                                     |
| S & M Engineering  |                                    | ●                        |                |          |             |                                 |                |  |
| Selfridge Engineering  |                                    |                          |                |          |             |                                 | ●              |  |
| Sixty-5 Technologies   |                                    |                          |                |          |             | ●                               |                | Land management software for farmers                 |
| SlurryKat  |                                    |                          | ●              |          |             |                                 |                |  |
| Teemore Engineering  |                                    |                          |                |          |             |                                 | ●              |  |
| TGM Software Solutions                                       | ●                                  |                          |                |          |             |                                 |                | Sheep and goat software solutions                    |
| Turkington Livestock Systems                                 |                                    |                          |                |          |             |                                 | ●              | Poultry industry                                     |
| Ulster University Agri-Food Business Development Centre      |                                    |                          |                | ●        |             |                                 |                |  |
| Unitas Software  |                                    |                          |                |          |             | ●                               |                | Poultry industry                                     |
| UPU Industries   |                                    |                          |                |          |             | ●                               |                | Crop packaging and pallet netting                    |
| Walter Watson  |                                    |                          | ●              |          |             |                                 |                |  |
| Water Teknik   |                                    | ●                        |                |          |             |                                 |                | Water treatment                                      |
| Wilson Agri  | ●                                  |                          |                |          |             |                                 |                |  |
| Wylie Engineering  |                                    |                          | ●              |          |             |                                 |                |  |

